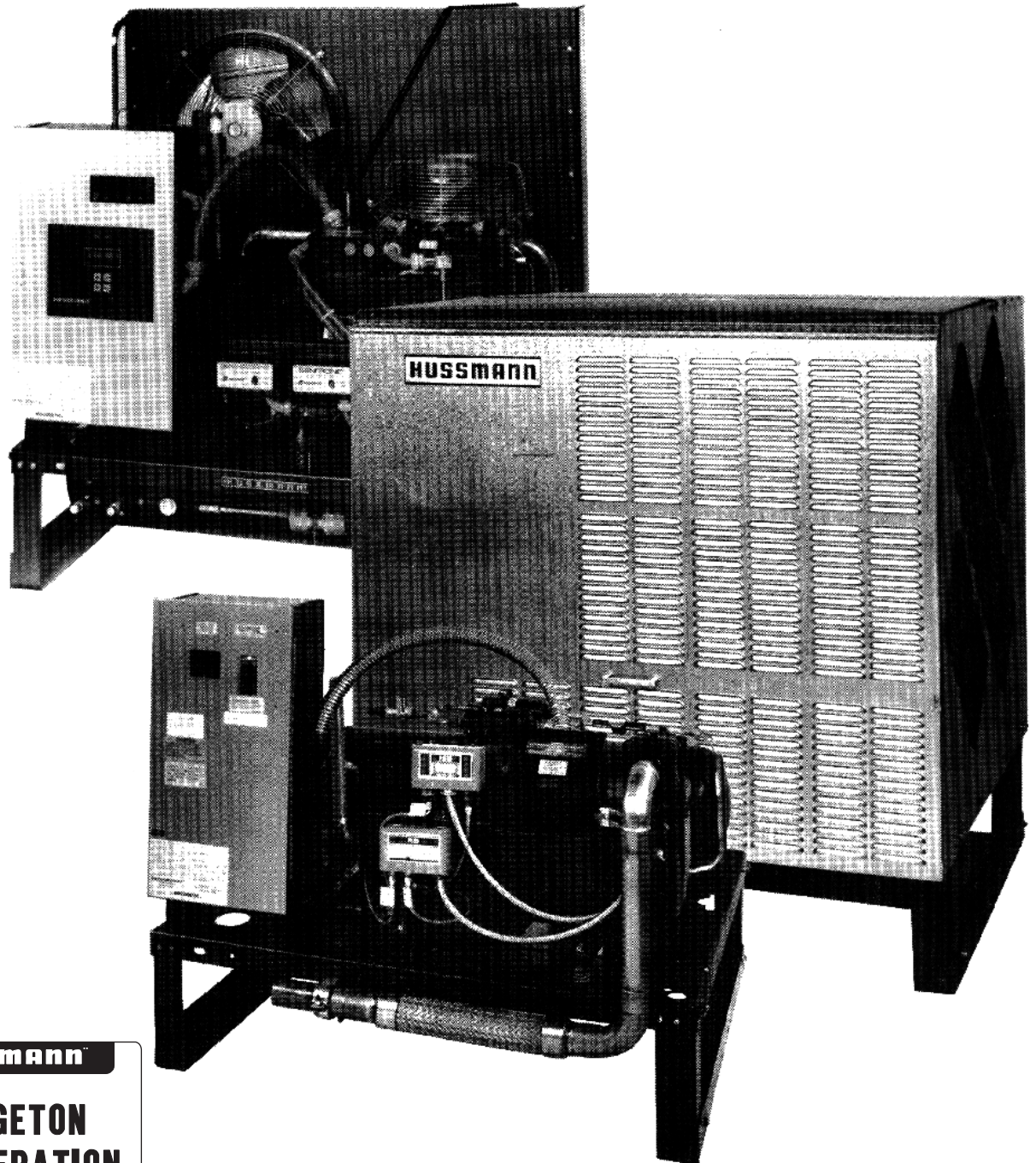


# Custom Conventional Application Manual



**HUSSMANN**  
**BRIDGETON**  
**REFRIGERATION**  
S Y S T E M S  
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# **CUSTOM CONVENTIONAL APPLICATION MANUAL**

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# CUSTOM CONVENTIONAL APPLICATION MANUAL

## GENERAL

This manual is a guide for selecting and sizing individually engineered Hussmann Custom Conventional refrigeration equipment by refrigerant, capacity and temperature. Knowledge of local codes and ambient conditions, as well as experience, are necessary to make proper engineering selections using the data presented here.

### Condensing Unit Data

Custom Conventional units are calorimeter tested and computer analyzed. Units are rated for 10°F liquid subcooling and 65°F suction gas.

If necessary, the engineer should adjust the ratings to match known conditions for a particular store by the correction factors found at the bottom of the capacity tables.

### Condensing Unit Selection

Selection should be based on:

1. Published capacities of the Custom Conventional units.
2. Proper sizing of refrigerant lines. If pressure exceeds the value given in the line sizing tables, the condensing unit capacity should be derated. Careful selection of the refrigeration lines, fittings, filters, and valves has a marked effect on system performance and compressor lubrication.
3. *Maximum relative humidity of 55% and maximum temperature of 75°F in the store.* Higher temperature or humidity may cause poor system performance.

### Control Panel Selection

Standard control panels are based on line voltages of 208V. If voltage exceeds 208V for electric defrost, refer to Bridgeton Engineering to calculate the actual defrost amperage.

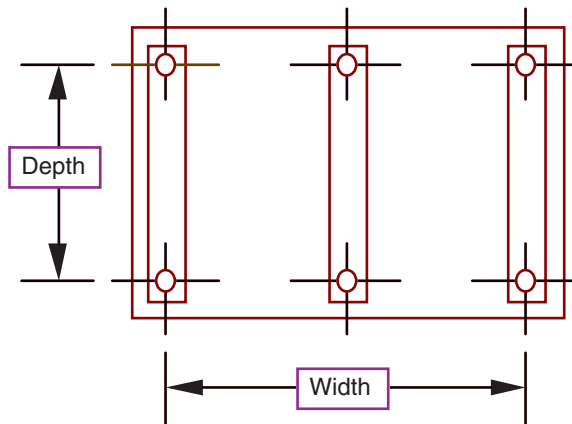
HUSSMANN CORPORATION is continually striving to improve its products; therefore, the data in this manual is subject to change without notice. The information contained herein is accurate to the best of our knowledge at the time of publication. This information will be supplemented by subsequent updates as changes in the information and application occur. Hussmann makes no representation or warranty as to the use of this material.

## SPECIFICATIONS\*

### Frame Mounting Locations

The illustration shows the location of pre-drilled  $\frac{9}{416}$ -inch diameter holes in the foot of each leg. These holes allow for fastening to mounting framework. Related mounting materials are field supplied.

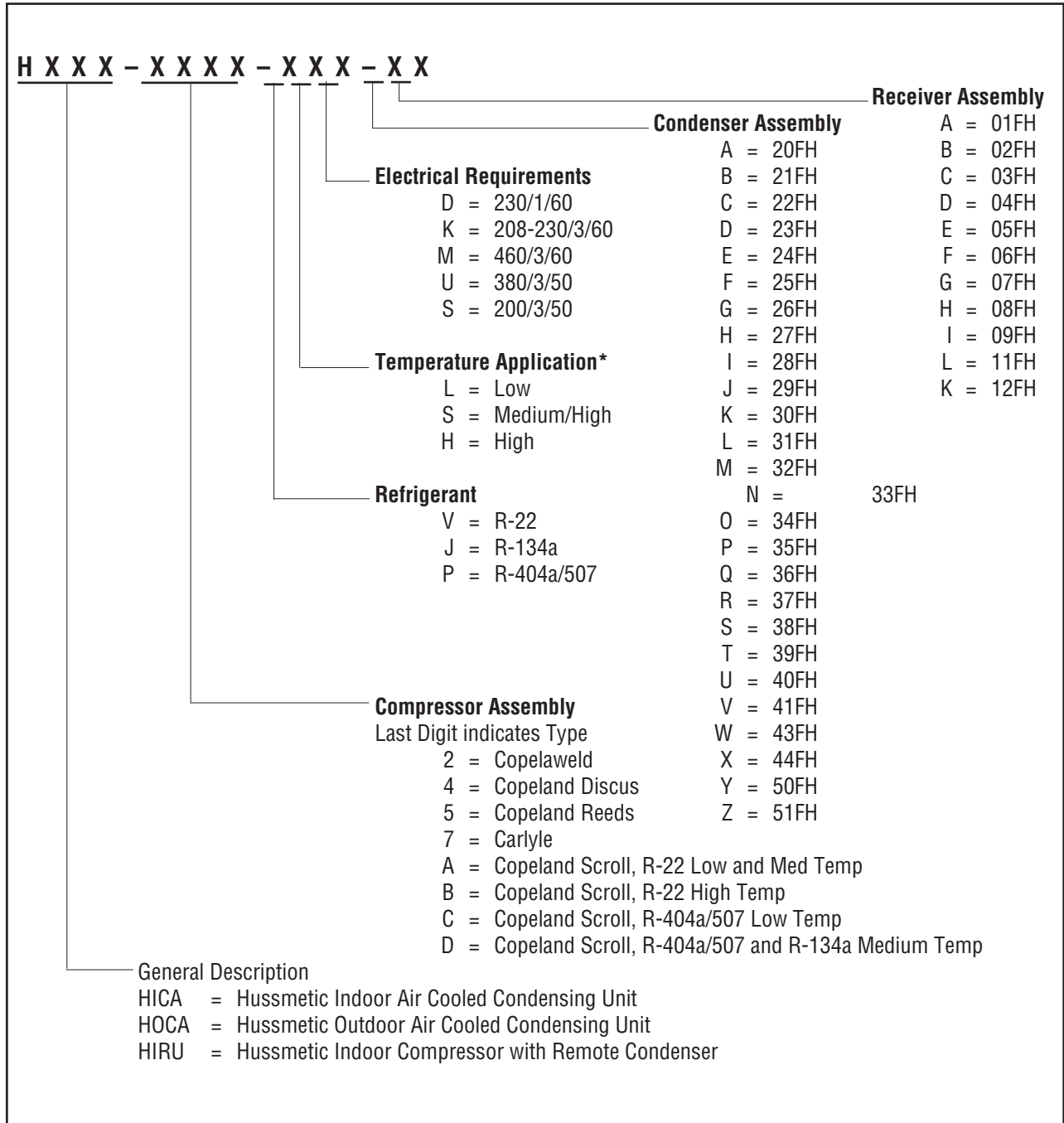
Determine the location of the holes for a particular unit by using the table. It shows overall housing height, depth and width, actual frames size, and corresponding hole locations for each Custom Conventional unit. Dimensions are shown in inches.



Frame Depth x Width	Outdoor Unit Housing Depth x Width	Location of Holes Depth x Width
29 $\frac{1}{2}$ x 39	Under 5 HP 34 x 39	26 $\frac{1}{4}$ x 35 $\frac{3}{8}$
37 x 47	Single Base 5HP & Up 44 x 47	34 x 43 $\frac{3}{8}$
37 x 94	Double Wide 44 x 94	34 x Two 45 $\frac{1}{8}$

\*See Compressor Reference Data Section for more data.

## PRODUCT CODE



\*See capacity tables following for actual temperature range.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND SCROLL COMPRESSORS R22 LOW TEMPERATURE

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030A</b>	-15	12.37	1.90	91	12.10	1.99	96	11.82	2.08	102	11.53	2.18	107	11.24	2.28	112	10.96	2.39	117
	-20	11.06	1.85	91	10.81	1.93	96	10.56	2.03	101	10.31	2.12	106	10.06	2.22	111	9.81	2.33	116
	-25	9.85	1.80	90	9.63	1.88	95	9.41	1.97	100	9.18	2.07	105	8.96	2.17	110	8.74	2.27	115
<b>ZF09K4</b>	-30	8.73	1.75	89	8.54	1.84	94	8.34	1.93	99	8.14	2.02	104	7.94	2.12	109	7.75	2.22	114
	-35	7.71	1.71	88	7.53	1.79	93	7.35	1.88	98	7.17	1.97	104	7.00	2.07	109	6.83	2.17	114
<b>H035A</b>	-15	15.30	2.17	92	14.95	2.26	97	14.59	2.37	102	14.21	2.48	107	13.82	2.60	112	13.43	2.72	117
	-20	13.68	2.09	91	13.37	2.18	96	13.05	2.29	101	12.71	2.40	106	12.36	2.51	111	12.01	2.63	116
	-25	12.19	2.02	90	11.91	2.11	95	11.62	2.21	100	11.32	2.32	105	11.02	2.43	110	10.71	2.56	115
<b>ZF11K4</b>	-30	10.81	1.95	89	10.57	2.05	94	10.31	2.15	99	10.04	2.25	104	9.77	2.36	109	9.50	2.48	114
	-35	9.55	1.90	88	9.33	1.99	93	9.10	2.09	98	8.86	2.19	103	8.63	2.30	109	8.39	2.42	114
<b>H040A</b>	-15	17.89	2.57	89	17.50	2.68	94	17.11	2.80	99	16.70	2.91	104	16.29	3.02	109	15.86	3.14	114
	-20	15.95	2.49	88	15.61	2.60	93	15.26	2.71	98	14.90	2.82	103	14.53	2.93	108	14.15	3.05	113
	-25	14.17	2.41	88	13.87	2.51	93	13.56	2.62	98	13.25	2.73	103	12.92	2.84	108	12.59	2.96	113
<b>ZF13K4</b>	-30	12.55	2.33	87	12.28	2.43	92	12.01	2.54	97	11.74	2.64	102	11.45	2.76	107	11.16	2.87	112
	-35	11.07	2.25	86	10.84	2.35	92	10.61	2.46	97	10.36	2.56	102	10.11	2.68	107	9.85	2.79	112
<b>H050A</b>	-15	21.78	3.19	91	21.31	3.32	96	20.83	3.46	101	20.33	3.61	106	19.81	3.77	111	19.27	3.93	116
	-20	19.45	3.09	90	19.03	3.22	95	18.60	3.36	100	18.16	3.51	105	17.70	3.66	110	17.22	3.82	115
	-25	17.31	3.00	89	16.94	3.13	95	16.56	3.27	100	16.16	3.41	105	15.76	3.56	110	15.33	3.72	115
<b>ZF15K4</b>	-30	15.34	2.92	89	15.02	3.05	94	14.68	3.18	99	14.33	3.33	104	13.97	3.47	109	13.60	3.63	114
	-35	13.55	2.85	88	13.26	2.97	93	12.96	3.11	98	12.66	3.25	103	12.34	3.39	108	12.02	3.54	113

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND SCROLL COMPRESSORS  
R22 LOW TEMPERATURE (Continued)**

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H060A</b>	-15	25.78	3.80	91	25.19	3.97	96	24.61	4.14	101	24.01	4.32	106	23.40	4.51	111	22.77	4.71	116
	-20	22.97	3.69	90	22.46	3.85	95	21.94	4.02	100	21.41	4.20	105	20.87	4.39	110	20.32	4.57	115
	-25	20.40	3.59	89	19.94	3.75	94	19.49	3.92	99	19.02	4.10	104	18.55	4.28	110	18.06	4.46	115
<b>ZF18K4</b>	-30	18.05	3.52	89	17.65	3.68	94	17.24	3.84	99	16.84	4.01	104	16.42	4.19	109	15.99	4.37	114
	-35	15.91	3.46	88	15.55	3.62	93	15.20	3.78	98	14.84	3.94	103	14.47	4.12	108	14.10	4.29	113
<b>H075A</b>	-15	30.49	5.24	93	29.79	5.46	98	29.08	5.69	103	28.36	5.91	108	27.63	6.13	113	26.90	6.36	118
	-20	27.21	5.08	92	26.59	5.30	97	25.96	5.52	102	25.33	5.73	107	24.69	5.94	112	24.05	6.15	117
	-25	24.21	4.94	91	23.66	5.15	96	23.11	5.35	101	22.55	5.55	106	21.99	5.75	111	21.44	5.94	116
<b>ZF24K4</b>	-30	21.48	4.80	90	20.99	5.00	95	20.50	5.19	100	20.01	5.37	105	19.52	5.55	110	19.04	5.73	115
	-35	19.01	4.67	89	18.56	4.86	94	18.12	5.03	99	17.69	5.20	104	17.26	5.36	110	16.84	5.52	115
<b>H100A</b>	-15	43.29	6.71	92	42.39	6.97	97	41.49	7.25	102	40.55	7.53	107	39.55	7.83	112	38.48	8.14	117
	-20	38.63	6.44	91	37.83	6.70	96	37.03	6.97	101	36.22	7.24	106	35.37	7.53	111	34.47	7.83	116
	-25	34.31	6.19	90	33.62	6.44	95	32.95	6.70	100	32.27	6.96	105	31.58	7.23	110	30.85	7.52	115
<b>ZF33K4</b>	-30	30.34	5.95	89	29.76	6.19	94	29.22	6.44	99	28.70	6.69	104	28.17	6.95	109	27.62	7.22	115
	-35	26.72	5.72	88	26.26	5.95	93	25.86	6.18	99	25.50	6.42	104	25.16	6.66	109	24.80	6.92	114

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND SCROLL COMPRESSORS R22 MEDIUM TEMPERATURE

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030A</b> <b>ZF09K4</b>	25	27.20	2.54	102	26.55	2.63	107	25.89	2.73	111	25.22	2.83	116	24.54	2.94	121	23.84	3.05	126
	20	24.89	2.44	100	24.30	2.53	105	23.70	2.62	110	23.09	2.72	115	22.47	2.83	120	21.83	2.94	124
	15	22.72	2.34	99	22.18	2.43	103	21.64	2.53	108	21.08	2.63	113	20.52	2.73	118	19.95	2.85	123
	10	20.68	2.25	97	20.20	2.34	102	19.70	2.44	107	19.20	2.54	112	18.69	2.64	117	18.17	2.76	122
<b>H035A</b> <b>ZF11K4</b>	25	33.34	3.09	103	32.57	3.20	107	31.77	3.30	112	30.95	3.42	117	30.10	3.55	122	29.23	3.68	127
	20	30.55	2.95	101	29.84	3.05	106	29.11	3.16	111	28.35	3.27	115	27.57	3.40	120	26.77	3.53	125
	15	27.92	2.81	99	27.27	2.91	104	26.60	3.02	109	25.91	3.13	114	25.20	3.26	119	24.46	3.39	124
	10	25.44	2.68	98	24.86	2.78	103	24.25	2.89	108	23.61	3.00	113	22.96	3.13	117	22.29	3.26	122
<b>H040A</b> <b>ZF13K4</b>	25	39.94	3.35	98	39.02	3.51	102	38.09	3.67	107	37.14	3.82	112	36.18	3.98	117	35.20	4.13	122
	20	36.51	3.24	96	35.67	3.39	101	34.83	3.54	106	33.96	3.69	111	33.08	3.83	116	32.19	3.98	121
	15	33.28	3.13	95	32.52	3.27	100	31.75	3.42	105	30.97	3.56	110	30.17	3.70	115	29.35	3.84	120
	10	30.25	3.03	94	29.56	3.17	99	28.86	3.30	104	28.15	3.44	109	27.43	3.57	114	26.69	3.71	119
<b>H050A</b> <b>ZF15K4</b>	25	47.69	4.42	102	46.64	4.56	106	45.55	4.70	111	44.43	4.86	116	43.27	5.03	121	42.08	5.20	126
	20	43.71	4.22	100	42.75	4.36	105	41.75	4.50	110	40.72	4.66	114	39.66	4.82	119	38.57	5.00	124
	15	39.95	4.03	98	39.07	4.17	103	38.16	4.32	108	37.22	4.47	113	36.25	4.64	118	35.25	4.81	123
	10	36.40	3.86	97	35.60	4.00	102	34.77	4.14	107	33.92	4.30	112	33.04	4.46	117	32.13	4.63	122
<b>H060A</b> <b>ZF18K4</b>	25	57.51	5.11	101	56.14	5.33	106	54.75	5.54	111	53.34	5.77	116	51.91	6.00	121	50.45	6.24	126
	20	52.58	4.92	100	51.33	5.12	105	50.07	5.34	110	48.78	5.55	114	47.47	5.78	119	46.14	6.01	124
	15	47.94	4.73	98	46.81	4.93	103	45.66	5.14	108	44.49	5.35	113	43.30	5.57	118	42.09	5.79	123
	10	43.58	4.55	97	42.55	4.74	102	41.51	4.94	107	40.46	5.15	112	39.38	5.36	117	38.29	5.58	121
<b>H075A</b> <b>ZF24K4</b>	25	68.14	6.97	104	66.44	7.21	109	64.70	7.46	114	62.94	7.73	119	61.14	8.02	123	59.32	8.31	128
	20	62.27	6.70	103	60.72	6.94	107	59.14	7.19	112	57.54	7.46	117	55.91	7.74	122	54.25	8.03	127
	15	56.73	6.44	101	55.33	6.68	106	53.91	6.93	111	52.45	7.20	115	50.98	7.47	120	49.49	7.76	125
	10	51.53	6.20	99	50.28	6.44	104	48.99	6.69	109	47.69	6.95	114	46.36	7.22	119	45.02	7.50	124

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND SCROLL COMPRESSORS  
R22 MEDIUM TEMPERATURE (Continued)**

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November, 1997

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H100A</b> <b>ZF33K4</b>	25	93.32	9.61	103	91.92	9.90	108	90.35	10.22	113	88.61	10.55	118	86.68	10.91	122	84.53	11.30	127
	20	85.79	9.14	101	84.43	9.44	106	82.94	9.75	111	81.29	10.08	116	79.45	10.43	121	77.43	10.80	126
	15	78.63	8.71	100	77.33	9.01	105	75.90	9.31	109	74.34	9.64	114	72.61	9.98	119	70.71	10.40	124
	10	71.84	8.31	98	70.60	8.61	103	69.24	8.91	108	67.77	9.23	113	66.15	9.57	118	64.37	9.93	123

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND SCROLL COMPRESSORS R22 HIGH TEMPERATURE

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030B ZB21KA</b>	45	38.46	2.14	104	37.47	2.27	108	36.45	2.41	113	35.43	2.55	118	34.39	2.71	122	33.33	2.87	127
	40	35.23	2.11	102	34.31	2.24	107	33.39	2.38	111	32.45	2.52	116	31.50	2.67	121	30.54	2.83	126
	35	32.16	2.09	100	31.33	2.21	105	30.49	2.35	110	29.64	2.49	115	28.77	2.64	119	27.90	2.80	124
	30	29.27	2.06	99	28.52	2.18	104	27.75	2.31	108	26.97	2.45	113	26.19	2.60	118	25.40	2.76	123
<b>H035B ZB26KA</b>	45	46.19	2.82	109	44.98	2.99	113	43.74	3.17	118	42.47	3.36	123	41.16	3.57	127	39.81	3.78	132
	40	42.43	2.76	107	41.31	2.93	111	40.16	3.11	116	38.98	3.30	121	37.76	3.50	126	36.49	3.72	130
	35	38.79	2.71	105	37.76	2.88	110	36.69	3.05	114	35.60	3.24	119	34.46	3.45	124	33.28	3.66	129
	30	35.30	2.66	103	34.35	2.82	108	33.37	3.00	112	32.35	3.19	117	31.29	3.39	122	30.19	3.60	127
<b>H040B ZB30KA</b>	45	56.30	3.06	103	54.83	3.24	108	53.33	3.44	112	51.80	3.66	117	50.23	3.89	122	48.62	4.15	127
	40	51.56	3.02	101	50.21	3.20	106	48.84	3.41	111	47.42	3.62	115	45.96	3.86	120	44.45	4.12	125
	35	47.05	2.98	100	45.83	3.17	104	44.56	3.38	109	43.25	3.59	114	41.88	3.83	119	40.46	4.09	124
	30	42.79	2.95	98	41.67	3.15	103	40.50	3.35	108	39.28	3.57	113	37.99	3.81	117	36.64	4.07	122
<b>H050B ZB38KA</b>	45	69.14	3.79	103	67.45	4.01	108	65.73	4.25	113	63.95	4.51	118	62.09	4.79	122	60.12	5.09	127
	40	63.42	3.72	102	61.87	3.94	106	60.30	4.18	111	58.66	4.44	116	56.95	4.71	121	55.12	5.01	126
	35	57.94	3.65	100	56.53	3.87	105	55.08	4.11	110	53.58	4.37	115	52.00	4.65	119	50.30	4.94	124
	30	52.71	3.59	99	51.42	3.81	103	50.10	4.05	108	48.72	4.31	113	47.25	4.58	118	45.67	4.88	123
<b>H060B ZB45KA</b>	45	80.33	4.76	105	78.35	5.02	110	76.34	5.29	115	74.28	5.58	120	72.17	5.89	124	70.00	6.22	129
	40	73.85	4.62	104	72.04	4.88	108	70.19	5.15	113	68.29	5.44	118	66.34	5.75	123	64.32	6.08	127
	35	67.66	4.50	102	66.00	4.75	107	64.30	5.03	112	62.56	5.32	116	60.75	5.62	121	58.88	5.95	126
	30	61.76	4.39	100	60.24	4.64	105	58.69	4.91	110	57.08	5.20	115	55.41	5.51	120	53.67	5.84	124
<b>H075B ZB56KA</b>	45	99.06	6.05	106	96.57	6.38	110	94.06	6.73	115	91.47	7.10	120	88.77	7.50	125	85.90	7.91	129
	40	90.66	5.91	104	88.43	6.24	109	86.19	6.59	113	83.89	6.96	118	81.48	7.36	123	78.92	7.77	128
	35	82.82	5.78	102	80.81	6.11	107	78.81	6.46	112	76.77	6.83	116	74.64	7.22	121	72.37	7.64	126
	30	75.49	5.67	100	73.68	5.99	105	71.91	6.34	110	70.11	6.71	115	68.23	7.10	120	66.23	7.51	125

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND SCROLL COMPRESSORS  
R22 HIGH TEMPERATURE (Continued)**

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Revision J  
November, 1997

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H090B ZB68KA</b>	45	119.70	7.27	106	116.70	7.67	111	113.67	8.10	115	110.51	8.54	120	107.23	9.01	125	103.81	9.50	130
	40	110.00	7.13	104	107.20	7.53	109	104.44	7.95	114	101.56	8.40	118	98.57	8.86	123	95.45	9.34	128
	35	100.60	7.00	102	98.09	7.40	107	95.57	7.81	112	92.96	8.25	117	90.25	8.71	122	87.40	9.19	126
	30	91.58	6.88	101	89.36	7.27	106	87.09	7.68	110	84.74	8.11	115	82.28	8.56	120	79.69	9.03	125
<b>H100B ZB75KA</b>	45	140.40	8.12	104	136.90	8.58	109	133.31	9.07	113	129.68	9.59	118	125.96	10.13	123	122.15	10.70	128
	40	128.70	7.94	102	125.50	8.40	107	122.30	8.88	112	118.99	9.40	117	115.61	9.93	121	112.13	10.50	126
	35	117.60	7.79	101	114.70	8.24	105	111.78	8.72	110	108.79	9.23	115	105.72	9.76	120	102.55	10.30	125
	30	107.00	7.65	99	104.40	8.10	104	101.80	8.58	109	99.09	9.08	114	96.31	9.60	118	93.44	10.20	123
<b>H130B ZB92KA</b>	45	173.40	10.41	104	169.10	10.91	109	164.76	11.45	114	160.31	12.03	119	155.67	12.63	123	150.78	13.30	128
	40	158.80	10.14	103	155.00	10.64	107	151.14	11.19	112	147.13	11.76	117	142.92	12.36	122	138.45	13.00	126
	35	145.00	9.90	101	141.70	10.41	106	138.20	10.95	111	134.59	11.52	115	130.77	12.12	120	126.68	12.70	125
	30	132.00	9.70	99	129.00	10.20	104	125.92	10.74	109	122.68	11.30	114	119.20	11.89	119	115.43	12.50	124

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND SCROLL COMPRESSORS R404a LOW TEMPERATURE

HICA Model Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
H030C	-15	14.21	1.95	92	13.74	2.03	97	13.25	2.12	102	12.74	2.21	107	12.21	2.32	112	11.67	2.43	117
	-20	12.75	1.88	91	12.33	1.96	96	11.90	2.05	101	11.45	2.14	106	10.98	2.25	111	10.50	2.36	116
	-25	11.40	1.81	90	11.03	1.89	95	10.65	1.98	100	10.25	2.08	105	9.83	2.18	110	9.40	2.30	115
ZF09K4E	-30	10.15	1.75	89	9.82	1.83	94	9.48	1.92	99	9.13	2.01	104	8.76	2.12	109	8.38	2.24	115
	-35	9.01	1.69	89	8.71	1.77	94	8.41	1.86	99	8.09	1.96	104	7.76	2.06	109	7.42	2.18	114
	-40	7.96	1.63	88	7.69	1.72	93	7.41	1.80	98	7.13	1.90	103	6.83	2.01	108	6.53	2.13	113
H035C	-15	17.21	2.48	95	16.60	2.59	100	15.97	2.71	105	15.32	2.84	110	14.65	2.97	115	13.95	3.11	120
	-20	15.46	2.39	94	14.92	2.50	99	14.36	2.62	104	13.78	2.74	109	13.19	2.87	114	12.57	3.01	119
	-25	13.84	2.30	93	13.36	2.41	98	12.86	2.53	103	12.35	2.65	108	11.83	2.78	113	11.29	2.91	118
ZF11K4E	-30	12.36	2.22	92	11.92	2.33	97	11.48	2.44	102	11.03	2.56	107	10.57	2.68	112	10.09	2.81	117
	-35	11.00	2.14	91	10.61	2.24	96	10.22	2.35	101	9.81	2.47	106	9.40	2.59	111	8.98	2.72	116
	-40	9.76	2.06	90	9.41	2.16	95	9.06	2.27	100	8.69	2.38	105	8.33	2.50	110	7.95	2.62	115
H040C	-15	21.31	2.77	90	20.48	2.89	95	19.59	3.02	100	18.66	3.15	105	17.72	3.30	110	16.76	3.46	115
	-20	19.04	2.68	89	18.28	2.80	94	17.47	2.92	99	16.63	3.06	104	15.78	3.20	109	14.94	3.36	114
	-25	16.91	2.59	89	16.21	2.71	93	15.47	2.83	98	14.72	2.97	103	13.98	3.11	108	13.25	3.26	113
ZF13K4E	-30	14.92	2.51	88	14.27	2.62	93	13.61	2.75	98	12.95	2.88	103	12.30	3.02	108	11.68	3.17	113
	-35	13.05	2.43	87	12.46	2.54	92	11.87	2.66	97	11.29	2.79	102	10.74	2.93	107	10.24	3.08	112
	-40	11.31	2.35	86	10.78	2.46	91	10.26	2.58	96	9.76	2.70	101	9.31	2.84	106	8.92	2.98	111
H050C	-15	25.26	3.35	92	24.38	3.49	97	23.46	3.64	102	22.51	3.81	107	21.53	3.98	112	20.52	4.15	117
	-20	22.65	3.23	91	21.86	3.37	96	21.04	3.52	101	20.19	3.68	106	19.32	3.84	111	18.43	4.02	116
	-25	20.23	3.12	90	19.52	3.26	95	18.79	3.40	100	18.03	3.56	105	17.26	3.72	110	16.47	3.89	115
ZF15K4E	-30	17.99	3.01	89	17.35	3.15	94	16.70	3.29	99	16.02	3.44	104	15.34	3.60	109	14.65	3.76	114
	-35	15.93	2.91	89	15.35	3.05	94	14.75	3.18	99	14.15	3.33	104	13.55	3.47	109	12.94	3.63	114
	-40	14.03	2.82	88	13.49	2.95	93	12.96	3.08	98	12.41	3.21	103	11.88	3.35	108	11.34	3.49	113

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND SCROLL COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H060C</b>	-15	29.42	4.19	95	28.41	4.37	99	27.39	4.55	104	26.35	4.74	109	25.27	4.94	114	24.16	5.14	119
	-20	26.36	4.03	93	25.47	4.20	98	24.58	4.38	103	23.67	4.57	108	22.73	4.76	113	21.77	4.96	118
	-25	23.52	3.88	92	22.74	4.05	97	21.95	4.22	102	21.16	4.40	107	20.36	4.59	112	19.53	4.78	117
<b>ZF18K4E</b>	-30	20.89	3.74	91	20.20	3.90	96	19.51	4.07	101	18.83	4.24	106	18.14	4.42	111	17.43	4.61	116
	-35	18.47	3.60	90	17.85	3.76	95	17.25	3.92	100	16.66	4.09	105	16.06	4.27	110	15.46	4.45	115
	-40	16.25	3.47	89	15.69	3.62	94	15.16	3.78	99	14.64	3.94	104	14.13	4.11	109	13.62	4.29	115
<b>H075C</b>	-15	34.33	5.60	98	33.14	5.79	103	31.92	5.99	107	30.67	6.20	112	29.39	6.42	117	28.06	6.64	122
	-20	30.85	5.37	96	29.80	5.56	101	28.73	5.75	106	27.64	5.95	111	26.51	6.15	116	25.36	6.36	121
	-25	27.61	5.16	95	26.68	5.34	100	25.74	5.52	105	24.78	5.70	110	23.79	5.89	115	22.78	6.09	120
<b>ZF24K4E</b>	-30	24.60	4.96	94	23.77	5.13	99	22.93	5.30	104	22.08	5.47	109	21.22	5.64	114	20.33	5.83	119
	-35	21.81	4.77	93	21.06	4.93	98	20.31	5.09	103	19.55	5.25	108	18.78	5.41	113	18.00	5.57	117
	-40	19.23	4.60	92	18.54	4.75	97	17.85	4.89	102	17.16	5.03	107	16.47	5.18	112	15.77	5.32	116
<b>H100C</b>	-15	49.37	7.83	100	47.38	8.12	104	45.32	8.43	109	43.19	8.75	114	41.02	9.09	119	38.82	9.44	123
	-20	44.22	7.48	98	42.41	7.76	103	40.56	8.05	108	38.67	8.36	112	36.75	8.69	117	34.84	9.03	122
	-25	39.30	7.14	96	37.68	7.41	101	36.02	7.70	106	34.35	7.99	111	32.69	8.31	116	31.05	8.64	121
<b>ZF33K4E</b>	-30	34.64	6.82	95	33.18	7.08	100	31.72	7.36	105	30.26	7.64	110	28.84	7.94	115	27.47	8.25	119
	-35	30.25	6.52	94	28.94	6.77	98	27.66	7.03	103	26.41	7.30	108	25.23	7.58	113	24.13	7.88	118
	-40	26.13	6.23	92	24.97	6.46	97	23.85	6.71	102	22.81	6.96	107	21.86	7.23	112	21.02	7.51	117

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND SCROLL COMPRESSORS R404a MEDIUM TEMPERATURE

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030D</b>	35	34.99	2.85	106	33.63	2.93	110	32.25	3.02	115	30.84	3.12	119	29.41	3.22	124	27.96	3.33	128
	30	32.37	2.72	104	31.13	2.81	109	29.86	2.90	113	28.57	3.00	118	27.25	3.10	122	25.91	3.21	127
	25	29.86	2.60	102	28.73	2.69	107	27.57	2.78	112	26.38	2.88	116	25.18	2.99	121	23.95	3.10	125
<b>ZS21K4E</b>	20	27.46	2.49	101	26.43	2.58	105	25.37	2.67	110	24.29	2.77	115	23.19	2.87	119	22.07	2.99	124
	15	25.17	2.38	99	24.23	2.47	104	23.28	2.57	109	22.30	2.66	113	21.30	2.77	118	20.28	2.88	123
	10	22.99	2.28	98	22.15	2.37	103	21.28	2.47	107	20.40	2.56	112	19.50	2.67	117	18.58	2.77	121
<b>H035D</b>	35	42.97	3.58	107	41.33	3.67	112	39.65	3.77	116	37.93	3.89	120	36.17	4.01	125	34.36	4.14	129
	30	39.79	3.40	105	38.29	3.50	110	36.74	3.61	114	35.15	3.72	119	33.52	3.85	123	31.85	3.98	128
	25	36.74	3.24	104	35.35	3.34	108	33.93	3.45	113	32.47	3.57	117	30.97	3.70	122	29.44	3.83	126
<b>ZS26K4E</b>	20	33.81	3.09	102	32.54	3.20	107	31.24	3.31	111	29.91	3.43	116	28.54	3.55	120	27.13	3.69	125
	15	31.01	2.95	100	29.85	3.06	105	28.67	3.17	110	27.46	3.29	114	26.21	3.41	119	24.94	3.55	123
	10	28.34	2.82	99	27.30	2.93	103	26.22	3.04	108	25.13	3.16	113	24.00	3.28	118	22.85	3.42	122
<b>H040D</b>	35	51.98	3.96	101	50.39	4.06	106	48.63	4.17	111	46.70	4.30	115	44.62	4.43	120	42.40	4.58	124
	30	48.22	3.77	100	46.67	3.87	105	44.97	3.99	109	43.13	4.11	114	41.15	4.25	118	39.06	4.40	123
	25	44.57	3.59	99	43.07	3.70	103	41.43	3.81	108	39.68	3.94	112	37.82	4.09	117	35.85	4.24	122
<b>ZS30K4E</b>	20	41.03	3.42	97	39.58	3.53	102	38.02	3.65	107	36.37	3.79	111	34.62	3.93	116	32.80	4.08	120
	15	37.60	3.27	96	36.21	3.38	101	34.74	3.50	105	33.19	3.64	110	31.57	3.78	115	29.90	3.94	119
	10	34.30	3.13	95	32.98	3.24	99	31.59	3.36	104	30.16	3.50	109	28.68	3.64	114	27.18	3.80	118
<b>H050D</b>	35	61.97	5.12	106	59.56	5.26	110	57.08	5.43	115	54.53	5.61	119	51.93	5.82	124	49.26	6.05	128
	30	57.39	4.85	104	55.16	5.00	109	52.87	5.17	113	50.53	5.37	118	48.12	5.58	122	45.66	5.81	127
	25	52.97	4.61	103	50.93	4.77	107	48.83	4.94	112	46.67	5.14	116	44.45	5.35	121	42.19	5.58	125
<b>ZS38K4E</b>	20	48.73	4.39	101	46.87	4.55	106	44.94	4.73	110	42.96	4.92	115	40.93	5.14	119	38.86	5.37	124
	15	44.68	4.18	99	42.98	4.34	104	41.23	4.53	109	39.42	4.72	113	37.57	4.94	118	35.68	5.17	123
	10	40.82	3.99	98	39.28	4.16	103	37.69	4.34	107	36.05	4.54	112	34.37	4.75	117	32.66	4.98	121

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND SCROLL COMPRESSORS R404a MEDIUM TEMPERATURE (Continued)

HICA Model Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H060D</b>	35	74.20	6.04	106	71.33	6.22	110	68.43	6.41	115	65.47	6.62	119	62.46	6.84	124	59.40	7.08	128
	30	68.62	5.77	104	66.01	5.96	109	63.35	6.15	113	60.66	6.36	118	57.91	6.58	122	55.11	6.81	127
	25	63.26	5.52	102	60.89	5.70	107	58.49	5.90	112	56.04	6.10	116	53.54	6.32	121	50.99	6.56	125
<b>ZS45K4E</b>	20	58.15	5.27	101	56.01	5.46	105	53.84	5.65	110	51.63	5.86	115	49.36	6.08	119	47.04	6.31	124
	15	53.28	5.04	99	51.36	5.23	104	49.41	5.42	109	47.42	5.63	113	45.38	5.84	118	43.28	6.07	123
	10	48.66	4.82	98	46.95	5.01	103	45.21	5.20	107	43.42	5.40	112	41.58	5.61	117	39.69	5.83	121
<b>H075D</b>	35	89.22	7.79	106	85.74	7.99	110	82.19	8.21	115	78.58	8.44	119	74.89	8.69	124	71.12	8.94	128
	30	82.44	7.46	104	79.27	7.67	109	76.03	7.89	113	72.73	8.12	118	69.36	8.37	122	65.91	8.62	127
	25	75.95	7.15	103	73.07	7.36	107	70.13	7.58	112	67.13	7.82	116	64.06	8.06	121	60.92	8.31	125
<b>ZS56K4E</b>	20	69.76	6.86	101	67.15	7.07	106	64.49	7.29	110	61.78	7.52	115	59.00	7.76	119	56.16	8.00	124
	15	63.87	6.59	99	61.52	6.80	104	59.13	7.02	109	56.69	7.24	113	54.19	7.47	118	51.63	7.71	123
	10	58.29	6.33	98	56.19	6.54	103	54.04	6.75	107	51.85	6.97	112	49.62	7.19	117	47.32	7.42	121
<b>H100D</b>	35	123.07	11.51	107	119.14	11.84	111	114.84	12.17	116	110.22	12.51	120	105.33	12.87	125	100.24	13.24	129
	30	115.45	11.01	105	111.59	11.32	110	107.40	11.65	114	102.93	11.99	119	98.24	12.34	123	93.37	12.71	128
	25	107.67	10.51	104	103.91	10.82	108	99.85	11.14	113	95.56	11.47	117	91.09	11.82	122	86.48	12.18	126
<b>ZS75K4E</b>	20	99.82	10.02	102	96.18	10.33	107	92.28	10.64	111	88.20	10.97	116	83.96	11.31	120	79.64	11.67	125
	15	91.97	9.55	101	88.47	9.85	105	84.76	10.16	110	80.90	10.48	114	76.94	10.81	119	72.93	11.16	124
	10	84.20	9.10	99	80.87	9.39	104	77.37	9.69	108	73.76	10.00	113	70.10	10.33	118	66.44	10.67	122

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND SCROLL COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE

HICA Model Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H040D</b>	45	39.12	2.36	96	38.16	2.41	101	37.19	2.48	105	36.19	2.54	110	35.18	2.62	115	34.15	2.70	120
	40	35.65	2.23	95	34.77	2.29	99	33.88	2.35	104	32.97	2.42	109	32.04	2.50	114	31.10	2.58	119
	35	32.39	2.12	93	31.59	2.18	98	30.77	2.24	103	29.94	2.31	108	29.09	2.39	113	28.23	2.47	117
	30	29.33	2.01	92	28.60	2.07	97	27.86	2.13	102	27.10	2.20	107	26.33	2.28	112	25.55	2.36	116
<b>ZS30K4E</b>	25	26.48	1.91	91	25.82	1.97	96	25.14	2.04	101	24.46	2.10	106	23.76	2.18	111	23.05	2.26	115
	20	23.82	1.82	90	23.23	1.88	95	22.62	1.94	100	22.00	2.01	105	21.36	2.09	110	20.72	2.17	115
	15	21.36	1.73	89	20.82	1.79	94	20.27	1.86	99	19.72	1.93	104	19.15	2.00	109	18.57	2.08	114
	10	19.08	1.66	88	18.60	1.72	93	18.11	1.78	98	17.61	1.85	103	17.10	1.92	108	16.59	2.00	113
<b>H050D</b>	45	47.58	3.03	100	46.36	3.09	104	45.12	3.16	109	43.87	3.23	114	42.60	3.32	118	41.32	3.42	123
	40	43.43	2.86	98	42.31	2.92	103	41.18	2.99	107	40.03	3.08	112	38.88	3.17	117	37.71	3.26	122
	35	39.51	2.70	97	38.49	2.77	101	37.47	2.84	106	36.42	2.93	111	35.37	3.02	116	34.30	3.12	120
	30	35.83	2.55	95	34.91	2.62	100	33.98	2.70	105	33.03	2.78	109	32.08	2.88	114	31.11	2.98	119
<b>ZS38K4</b>	25	32.38	2.41	94	31.55	2.48	99	30.71	2.56	103	29.86	2.65	108	29.00	2.74	113	28.13	2.84	118
	20	29.16	2.28	93	28.42	2.35	97	27.67	2.44	102	26.90	2.52	107	26.13	2.62	112	25.35	2.71	117
	15	26.17	2.16	91	25.51	2.24	96	24.84	2.32	101	24.15	2.40	106	23.46	2.50	111	22.76	2.59	116
	10	23.40	2.05	90	22.81	2.13	95	22.21	2.21	100	21.61	2.29	105	20.99	2.38	110	20.37	2.48	115
<b>H060D</b>	45	57.28	3.50	100	55.82	3.60	104	54.34	3.72	109	52.84	3.84	114	51.33	3.97	118	49.79	4.11	123
	40	52.17	3.32	98	50.84	3.42	103	49.49	3.54	107	48.13	3.66	112	46.75	3.79	117	45.36	3.93	122
	35	47.38	3.15	96	46.18	3.26	101	44.96	3.37	106	43.72	3.49	111	42.47	3.63	116	41.21	3.76	120
	30	42.91	3.00	95	41.82	3.10	100	40.72	3.22	105	39.61	3.34	109	38.48	3.47	114	37.34	3.60	119
<b>ZS45K4</b>	25	38.75	2.85	94	37.77	2.96	99	36.78	3.07	103	35.78	3.19	108	34.77	3.32	113	33.74	3.45	118
	20	34.88	2.72	92	34.00	2.82	97	33.12	2.94	102	32.22	3.06	107	31.31	3.18	112	30.39	3.31	117
	15	31.30	2.60	91	30.51	2.70	96	29.72	2.81	101	28.92	2.93	106	28.11	3.05	111	27.29	3.17	116
	10	27.99	2.49	90	27.29	2.59	95	26.58	2.70	100	25.87	2.81	105	25.15	2.93	110	24.42	3.05	115

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND SCROLL COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE (Continued)**

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HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H100D</b>	45	93.63	6.92	100	91.63	7.08	105	89.54	7.26	110	87.35	7.46	114	85.08	7.68	119	82.75	7.91	124
	40	86.16	6.51	98	84.26	6.68	103	82.26	6.87	108	80.18	7.07	113	78.03	7.30	118	75.82	7.53	122
	35	78.96	6.13	97	77.15	6.31	102	75.26	6.51	107	73.30	6.72	111	71.27	6.95	116	69.19	7.18	121
	30	72.05	5.80	96	70.34	5.98	100	68.56	6.18	105	66.71	6.40	110	64.80	6.62	115	62.86	6.86	120
<b>ZS75K4</b>	25	65.45	5.50	94	63.84	5.69	99	62.16	5.89	104	60.43	6.11	109	58.66	6.33	114	56.86	6.56	119
	20	59.16	5.23	93	57.66	5.42	98	56.10	5.62	103	54.49	5.84	108	52.85	6.06	113	51.20	6.28	117
	15	53.21	4.99	92	51.82	5.18	97	50.38	5.38	102	48.90	5.58	107	47.40	5.80	112	45.90	6.02	116
	10	47.62	4.77	91	46.34	4.95	96	45.02	5.15	101	43.68	5.35	106	42.33	5.55	111	40.98	5.76	115

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R22 LOW TEMPERATURE

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0045</b>	-15	2.68	0.50	86	2.54	0.50	91	2.41	0.51	96	2.27	0.51	100	2.14	0.51	105	2.00	0.51	110
	-20	2.26	0.47	85	2.14	0.47	90	2.01	0.47	95	1.88	0.47	100	1.76	0.47	105	1.64	0.47	109
	-25	1.89	0.43	85	1.77	0.43	89	1.65	0.43	94	1.54	0.43	99	1.42	0.43	104	1.31	0.42	109
<b>KAN-050L</b>	-30	1.57	0.41	84	1.45	0.40	89	1.34	0.40	94	1.22	0.39	98	1.11	0.39	103	1.01	0.39	108
	-35	1.29	0.38	83	1.17	0.37	88	1.06	0.37	93	0.95	0.36	98	0.84	0.36	103	0.74	0.35	108
	-40	1.06	0.36	83	0.94	0.35	88	0.83	0.34	93	0.72	0.34	98	0.61	0.33	102	0.51	0.32	107
<b>H0075</b>	-15	4.27	0.67	89	4.08	0.68	94	3.89	0.69	98	3.70	0.69	103	3.51	0.70	108	3.33	0.70	113
	-20	3.69	0.63	88	3.52	0.63	93	3.34	0.64	97	3.17	0.64	102	3.00	0.64	107	2.84	0.64	112
	-25	3.17	0.58	87	3.01	0.59	92	2.85	0.59	97	2.69	0.59	101	2.54	0.59	106	2.38	0.59	111
<b>KAM-007L</b>	-30	2.70	0.54	86	2.55	0.54	91	2.40	0.54	96	2.25	0.54	101	2.11	0.54	105	1.96	0.54	110
	-35	2.26	0.50	85	2.12	0.50	90	1.99	0.50	95	1.85	0.49	100	1.71	0.49	105	1.58	0.48	109
	-40	1.87	0.46	85	1.74	0.46	89	1.61	0.45	94	1.48	0.45	99	1.35	0.44	104	1.23	0.43	109
<b>H0095</b>	-15	5.55	0.89	92	5.31	0.91	96	5.08	0.92	101	4.84	0.93	106	4.61	0.94	111	4.38	0.95	115
	-20	4.82	0.84	90	4.60	0.85	95	4.39	0.85	100	4.18	0.86	105	3.97	0.87	109	3.76	0.87	114
	-25	4.15	0.78	89	3.96	0.79	94	3.76	0.79	99	3.57	0.80	103	3.38	0.80	108	3.20	0.80	113
<b>KAJ-010L</b>	-30	3.56	0.72	88	3.38	0.73	93	3.20	0.73	98	3.03	0.73	102	2.85	0.74	107	2.69	0.74	112
	-35	3.03	0.67	87	2.86	0.67	92	2.70	0.68	97	2.54	0.67	102	2.39	0.67	106	2.24	0.67	111
	-40	2.57	0.62	86	2.42	0.62	91	2.27	0.62	96	2.13	0.62	101	1.99	0.61	106	1.85	0.61	110
<b>H0205</b>	-15	6.37	1.00	91	6.08	1.02	95	5.79	1.03	100	5.51	1.05	105	5.23	1.06	110	4.95	1.07	114
	-20	5.52	0.94	90	5.27	0.95	94	5.01	0.96	99	4.75	0.97	104	4.50	0.98	109	4.25	0.99	113
	-25	4.76	0.88	88	4.53	0.89	93	4.30	0.89	98	4.07	0.90	103	3.84	0.91	108	3.62	0.91	112
<b>KAK-020L</b>	-30	4.06	0.82	87	3.86	0.82	92	3.66	0.83	97	3.46	0.83	102	3.25	0.84	107	3.05	0.84	111
	-35	3.43	0.75	87	3.26	0.76	91	3.08	0.76	96	2.90	0.76	101	2.71	0.76	106	2.53	0.76	111
	-40	2.84	0.69	86	2.69	0.70	91	2.54	0.70	95	2.38	0.70	100	2.21	0.69	105	2.05	0.69	110

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R22 LOW TEMPERATURE (Continued)

HICA Model Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
H0215	-15	9.19	1.50	96	8.77	1.52	100	8.36	1.53	105	7.95	1.55	109	7.54	1.56	114	7.13	1.57	119
	-20	7.98	1.38	94	7.60	1.40	98	7.23	1.41	103	6.86	1.42	108	6.49	1.42	112	6.13	1.43	117
	-25	6.86	1.27	92	6.52	1.28	97	6.19	1.28	102	5.85	1.29	106	5.52	1.29	111	5.20	1.29	115
EAD-020L	-30	5.82	1.15	91	5.52	1.16	95	5.22	1.16	100	4.93	1.17	105	4.64	1.16	109	4.35	1.16	114
	-35	4.86	1.04	89	4.60	1.05	94	4.34	1.05	99	4.08	1.04	103	3.82	1.04	108	3.57	1.03	113
	-40	3.99	0.93	88	3.76	0.93	93	3.53	0.93	97	3.30	0.93	102	3.08	0.92	107	2.86	0.91	112
H0225	-15	10.72	1.74	94	10.30	1.78	99	9.88	1.82	103	9.45	1.85	108	9.00	1.87	113	8.52	1.89	117
	-20	9.12	1.63	92	8.75	1.66	97	8.38	1.69	102	8.01	1.72	107	7.61	1.75	111	7.19	1.76	116
	-25	7.68	1.52	91	7.36	1.55	96	7.04	1.58	100	6.71	1.61	105	6.37	1.63	110	5.99	1.65	115
EAV-020L	-30	6.43	1.42	89	6.16	1.45	94	5.88	1.48	99	5.60	1.51	104	5.30	1.53	109	4.97	1.55	114
	-35	5.42	1.34	88	5.18	1.37	93	4.95	1.40	98	4.72	1.43	103	4.46	1.45	108	4.16	1.47	113
	-40	4.68	1.28	88	4.48	1.32	92	4.29	1.35	97	4.09	1.38	102	3.86	1.40	107	3.60	1.41	112
H0265	-15	13.42	2.37	98	12.82	2.41	103	12.22	2.45	107	11.63	2.48	112	11.03	2.50	116	10.44	2.52	121
	-20	11.62	2.18	96	11.06	2.21	100	10.51	2.23	105	9.96	2.26	110	9.41	2.27	114	8.85	2.28	119
	-25	9.93	1.99	94	9.43	2.01	99	8.94	2.03	103	8.44	2.04	108	7.93	2.05	112	7.41	2.04	117
3AJ-021L	-30	8.35	1.80	92	7.93	1.82	97	7.49	1.83	101	7.05	1.84	106	6.59	1.84	111	6.12	1.82	115
	-35	6.89	1.62	90	6.53	1.64	95	6.17	1.65	100	5.79	1.65	105	5.39	1.64	109	4.97	1.62	114
	-40	5.52	1.45	89	5.25	1.46	94	4.96	1.47	98	4.65	1.47	103	4.32	1.45	108	3.96	1.43	112
H0315	-15	16.35	2.46	95	15.73	2.51	100	15.12	2.55	105	14.50	2.59	109	13.85	2.61	114	13.13	2.62	118
	-20	13.87	2.23	93	13.31	2.26	98	12.78	2.30	103	12.25	2.33	107	11.68	2.35	112	11.06	2.34	117
	-25	11.62	2.01	91	11.12	2.03	96	10.65	2.06	101	10.18	2.08	106	9.70	2.09	110	9.15	2.09	115
LAH-031L	-30	9.64	1.80	90	9.19	1.82	94	8.77	1.84	99	8.37	1.86	104	7.95	1.86	109	7.48	1.85	113
	-35	7.99	1.63	88	7.58	1.64	93	7.22	1.65	98	6.86	1.66	103	6.49	1.66	107	6.07	1.64	112
	-40	6.73	1.49	87	6.35	1.49	92	6.02	1.50	97	5.71	1.50	102	5.38	1.50	106	5.01	1.47	111

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0055</b>	45	7.86	0.47	93	7.56	0.49	97	7.25	0.52	102	6.94	0.54	107	6.63	0.56	111	6.33	0.58	116
	40	7.11	0.47	92	6.83	0.49	96	6.54	0.51	101	6.26	0.53	106	5.98	0.55	110	5.71	0.57	115
	35	6.40	0.46	91	6.14	0.48	95	5.88	0.49	100	5.62	0.51	105	5.37	0.53	110	5.12	0.55	114
	30	5.73	0.45	90	5.50	0.46	94	5.26	0.48	99	5.03	0.50	104	4.80	0.51	109	4.57	0.53	114
<b>HAG-005L</b>	25	5.11	0.44	89	4.90	0.45	94	4.69	0.47	98	4.48	0.48	103	4.27	0.50	108	4.06	0.51	113
	20	4.54	0.43	88	4.35	0.44	93	4.16	0.45	98	3.97	0.46	102	3.78	0.48	107	3.59	0.49	112
	15	4.02	0.41	87	3.85	0.42	92	3.67	0.44	97	3.50	0.45	102	3.33	0.46	107	3.16	0.47	111
	10	3.54	0.40	87	3.39	0.41	91	3.23	0.42	96	3.07	0.43	101	2.92	0.44	106	2.77	0.45	111
<b>H0065</b>	25	5.65	0.49	90	5.44	0.51	95	5.23	0.53	99	5.03	0.55	104	4.83	0.56	109	4.62	0.58	114
	20	5.06	0.48	89	4.87	0.49	94	4.68	0.51	99	4.49	0.52	103	4.31	0.54	108	4.12	0.55	113
	15	4.52	0.46	88	4.34	0.48	93	4.17	0.49	98	4.00	0.50	103	3.83	0.51	107	3.66	0.52	112
<b>HAJ-005L</b>	10	4.01	0.44	87	3.85	0.45	92	3.69	0.47	97	3.54	0.48	102	3.39	0.49	107	3.24	0.50	112
	5	3.55	0.42	87	3.40	0.43	92	3.26	0.44	96	3.12	0.45	101	2.98	0.46	106	2.84	0.47	111
	0	3.13	0.40	86	2.99	0.41	91	2.86	0.42	96	2.73	0.43	101	2.61	0.43	105	2.48	0.44	110
	-5	2.74	0.39	85	2.61	0.39	90	2.49	0.40	95	2.38	0.40	100	2.26	0.41	105	2.15	0.41	110
<b>H0085</b>	45	11.57	0.68	99	11.18	0.71	103	10.80	0.75	108	10.41	0.78	112	10.02	0.81	117	9.63	0.84	122
	40	10.44	0.68	97	10.09	0.71	102	9.73	0.74	106	9.38	0.77	111	9.03	0.80	116	8.68	0.83	120
	35	9.39	0.67	96	9.06	0.70	100	8.74	0.72	105	8.42	0.75	110	8.10	0.78	114	7.78	0.80	119
	30	8.42	0.65	94	8.11	0.67	99	7.81	0.70	104	7.52	0.72	108	7.23	0.75	113	6.94	0.77	118
<b>KAN-007L</b>	25	7.51	0.63	93	7.22	0.65	98	6.95	0.67	102	6.68	0.69	107	6.42	0.71	112	6.15	0.73	117
	20	6.68	0.60	92	6.41	0.62	96	6.15	0.64	101	5.90	0.66	106	5.65	0.68	111	5.42	0.69	115
	15	5.92	0.58	91	5.66	0.60	95	5.41	0.61	100	5.17	0.63	105	4.94	0.64	110	4.72	0.65	114
	10	5.22	0.56	90	4.96	0.57	94	4.72	0.59	99	4.50	0.60	104	4.28	0.61	109	4.08	0.62	113

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND REED COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0105</b>	25	8.76	0.86	96	8.44	0.88	100	8.12	0.91	105	7.80	0.93	110	7.49	0.95	114	7.18	0.97	119
	20	7.89	0.82	94	7.60	0.84	99	7.31	0.86	104	7.02	0.88	108	6.74	0.90	113	6.45	0.92	118
	15	7.06	0.78	93	6.80	0.80	98	6.54	0.82	103	6.28	0.84	107	6.02	0.85	112	5.76	0.87	117
	10	6.29	0.74	92	6.05	0.76	97	5.82	0.78	101	5.58	0.79	106	5.35	0.81	111	5.12	0.82	116
<b>KAE-007L</b>	5	5.58	0.70	91	5.36	0.72	95	5.15	0.73	100	4.93	0.75	105	4.72	0.76	110	4.51	0.77	115
	0	4.94	0.67	90	4.74	0.68	94	4.54	0.69	99	4.35	0.70	104	4.16	0.71	109	3.97	0.72	114
	-5	4.38	0.63	89	4.19	0.64	94	4.01	0.65	98	3.83	0.66	103	3.66	0.67	108	3.48	0.68	113
<b>H0115</b>	45	15.36	0.89	105	14.83	0.93	109	14.30	0.97	113	13.78	1.01	118	13.25	1.05	122	12.74	1.08	127
	40	14.07	0.84	103	13.58	0.87	107	13.09	0.91	112	12.61	0.95	116	12.13	0.98	121	11.65	1.01	125
	35	12.82	0.79	101	12.38	0.82	105	11.93	0.85	110	11.49	0.89	114	11.05	0.92	119	10.61	0.95	123
	30	11.63	0.74	99	11.23	0.77	103	10.82	0.80	108	10.41	0.82	113	10.01	0.85	117	9.60	0.88	122
<b>KAR-010L</b>	25	10.50	0.68	97	10.13	0.71	102	9.76	0.74	106	9.39	0.76	111	9.02	0.79	116	8.65	0.81	120
	20	9.44	0.63	95	9.10	0.66	100	8.76	0.68	105	8.42	0.70	109	8.08	0.72	114	7.74	0.74	119
	15	8.44	0.58	94	8.13	0.60	99	7.82	0.62	103	7.51	0.64	108	7.20	0.66	113	6.89	0.67	117
	10	7.51	0.53	92	7.23	0.55	97	6.95	0.56	102	6.67	0.58	107	6.38	0.59	111	6.10	0.61	116
<b>H0125</b>	45	17.17	1.24	109	16.58	1.29	113	15.99	1.33	117	15.41	1.38	122	14.84	1.43	126	14.28	1.47	131
	40	15.70	1.20	106	15.14	1.24	111	14.59	1.29	115	14.05	1.33	120	13.51	1.37	124	12.99	1.41	129
	35	14.30	1.16	104	13.78	1.20	109	13.27	1.24	113	12.76	1.28	118	12.26	1.31	122	11.77	1.35	127
	30	12.97	1.12	102	12.50	1.16	107	12.02	1.19	112	11.55	1.22	116	11.08	1.26	121	10.62	1.29	125
<b>KAM-010L</b>	25	11.72	1.08	101	11.28	1.11	105	10.84	1.14	110	10.40	1.17	114	9.97	1.20	119	9.54	1.23	123
	20	10.52	1.04	99	10.12	1.06	103	9.72	1.09	108	9.32	1.11	113	8.92	1.14	117	8.53	1.16	122
	15	9.39	0.99	97	9.03	1.01	102	8.66	1.04	106	8.30	1.06	111	7.94	1.08	116	7.58	1.09	120
	10	8.32	0.94	95	8.00	0.96	100	7.67	0.98	105	7.34	1.00	109	7.01	1.01	114	6.69	1.03	119

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0155</b>	45	18.44	1.37	111	17.86	1.43	115	17.28	1.48	120	16.69	1.53	124	16.11	1.58	129	15.53	1.63	133
	40	16.86	1.32	109	16.32	1.37	113	15.78	1.42	118	15.23	1.47	122	14.69	1.51	127	14.15	1.55	131
	35	15.36	1.27	106	14.86	1.32	111	14.35	1.36	115	13.85	1.40	120	13.35	1.44	124	12.85	1.48	129
	30	13.94	1.23	104	13.47	1.27	109	13.00	1.30	113	12.54	1.34	118	12.08	1.38	122	11.61	1.41	127
<b>KAG-015L</b>	25	12.59	1.18	102	12.16	1.21	107	11.73	1.25	111	11.30	1.28	116	10.87	1.31	121	10.45	1.34	125
	20	11.31	1.13	100	10.91	1.16	105	10.52	1.19	110	10.13	1.21	114	9.74	1.24	119	9.35	1.27	123
	15	10.10	1.07	98	9.74	1.10	103	9.38	1.12	108	9.02	1.15	112	8.66	1.17	117	8.31	1.19	122
	10	8.96	1.02	97	8.62	1.04	101	8.30	1.06	106	7.97	1.08	111	7.65	1.10	115	7.34	1.12	120
<b>H0205</b>	45	25.85	1.82	106	25.08	1.90	111	24.31	1.98	116	23.54	2.07	120	22.76	2.15	125	21.98	2.23	129
	40	23.56	1.76	104	22.85	1.83	109	22.14	1.91	114	21.44	1.98	118	20.74	2.05	123	20.03	2.12	128
	35	21.42	1.70	102	20.77	1.76	107	20.13	1.83	112	19.49	1.89	116	18.85	1.96	121	18.21	2.02	126
	30	19.42	1.63	101	18.83	1.69	105	18.24	1.75	110	17.66	1.81	115	17.08	1.87	119	16.49	1.92	124
<b>KAK-020L</b>	25	17.55	1.57	99	17.01	1.63	104	16.47	1.68	108	15.93	1.73	113	15.40	1.78	118	14.87	1.83	122
	20	15.79	1.51	97	15.29	1.56	102	14.79	1.60	107	14.30	1.65	111	13.81	1.69	116	13.32	1.73	121
	15	14.12	1.44	96	13.64	1.49	100	13.18	1.53	105	12.72	1.56	110	12.27	1.60	115	11.82	1.64	119
	10	12.51	1.38	94	12.06	1.41	99	11.62	1.45	104	11.19	1.48	108	10.76	1.52	113	10.34	1.55	118
<b>H0245</b>	25	20.29	1.90	102	19.52	1.96	107	18.76	2.01	111	17.99	2.07	116	17.23	2.12	120	16.47	2.18	125
	20	18.05	1.82	100	17.37	1.86	105	16.69	1.91	109	16.01	1.96	114	15.33	2.00	118	14.65	2.05	123
	15	15.98	1.73	98	15.38	1.77	103	14.77	1.81	107	14.17	1.84	112	13.56	1.88	117	12.96	1.92	121
<b>ERC-020L</b>	10	14.09	1.64	96	13.55	1.67	101	13.01	1.70	106	12.47	1.73	110	11.93	1.76	115	11.40	1.79	120
	5	12.36	1.56	95	11.88	1.58	99	11.40	1.60	104	10.92	1.62	109	10.44	1.64	113	9.96	1.67	118

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND REED COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0305</b>	45	38.82	2.79	109	37.57	2.90	114	36.32	3.00	118	35.07	3.11	123	33.84	3.21	127	32.62	3.31	132
	40	35.55	2.69	107	34.38	2.80	112	33.21	2.89	116	32.04	2.99	121	30.88	3.07	125	29.74	3.16	130
	35	32.43	2.60	105	31.34	2.69	110	30.24	2.78	114	29.15	2.86	119	28.07	2.94	123	27.00	3.01	128
	30	29.45	2.50	103	28.43	2.58	108	27.42	2.66	112	26.40	2.73	117	25.39	2.80	121	24.39	2.87	126
	25	26.62	2.39	101	25.69	2.47	106	24.75	2.53	110	23.80	2.60	115	22.86	2.66	119	21.94	2.72	124
	20	23.96	2.29	99	23.10	2.35	104	22.23	2.41	108	21.36	2.47	113	20.49	2.53	118	19.63	2.57	122
	15	21.47	2.18	98	20.69	2.24	102	19.89	2.30	107	19.09	2.35	111	18.29	2.39	116	17.49	2.44	121
<b>EAD-032L</b>	10	19.17	2.09	96	18.45	2.14	101	17.72	2.19	105	16.99	2.23	110	16.25	2.27	115	15.53	2.31	119
	5	17.05	1.99	94	16.40	2.04	99	15.74	2.08	104	15.07	2.12	109	14.40	2.15	113	13.73	2.18	118
	0	15.12	1.91	93	14.54	1.95	98	13.94	1.99	103	13.34	2.02	107	12.73	2.05	112	12.13	2.08	117
<b>H0335</b>	25	35.84	3.59	105	34.38	3.69	109	32.92	3.79	114	31.46	3.89	118	30.00	4.00	123	28.53	4.10	127
	20	32.26	3.39	103	30.91	3.48	107	29.56	3.56	112	28.22	3.65	116	26.87	3.73	120	25.52	3.82	125
	15	28.87	3.20	101	27.63	3.27	105	26.38	3.34	110	25.14	3.41	114	23.89	3.48	119	22.65	3.55	123
	10	25.66	3.03	99	24.51	3.08	103	23.37	3.13	108	22.22	3.19	112	21.08	3.24	117	19.93	3.29	121
	5	22.63	2.87	97	21.58	2.90	101	20.52	2.94	106	19.47	2.97	110	18.41	3.01	115	17.36	3.05	119
<b>H0355</b>	45	41.16	3.53	107	39.74	3.64	112	38.39	3.76	116	37.10	3.87	121	35.89	3.97	126	34.74	4.07	130
	40	37.76	3.41	105	36.43	3.51	110	35.15	3.61	115	33.92	3.71	119	32.75	3.80	124	31.63	3.89	128
	35	34.48	3.28	104	33.24	3.38	108	32.04	3.47	113	30.87	3.55	117	29.76	3.63	122	28.68	3.70	126
	30	31.32	3.15	102	30.17	3.23	106	29.05	3.31	111	27.96	3.39	115	26.91	3.46	120	25.89	3.52	125
	25	28.30	3.01	100	27.24	3.08	105	26.20	3.16	109	25.19	3.22	114	24.21	3.28	118	23.25	3.34	123
	20	25.42	2.86	98	24.44	2.93	103	23.49	2.99	107	22.55	3.05	112	21.64	3.10	117	20.75	3.15	121
	15	22.70	2.70	96	21.80	2.76	101	20.92	2.82	106	20.06	2.87	110	19.23	2.91	115	18.41	2.96	120
<b>ERF-031L</b>	10	20.15	2.53	95	19.32	2.58	100	18.51	2.63	104	17.73	2.67	109	16.96	2.71	114	16.21	2.75	118

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0475</b>	40	58.37	4.53	105	56.10	4.67	110	53.89	4.80	114	51.75	4.92	119	49.68	5.04	123	47.70	5.16	127
	35	52.93	4.36	103	50.83	4.48	108	48.80	4.59	112	46.83	4.70	117	44.93	4.81	121	43.12	4.92	126
	30	47.78	4.17	101	45.84	4.28	106	43.96	4.38	110	42.15	4.48	115	40.41	4.57	119	38.75	4.67	124
	25	42.89	3.98	99	41.10	4.07	104	39.37	4.16	108	37.71	4.25	113	36.11	4.33	117	34.59	4.41	122
<b>NRB-040L</b>	20	38.27	3.78	98	36.62	3.86	102	35.02	3.93	107	33.49	4.01	111	32.02	4.08	116	30.63	4.15	120
	15	33.91	3.57	96	32.37	3.64	100	30.90	3.70	105	29.48	3.76	110	28.13	3.82	114	26.85	3.88	119
	10	29.79	3.36	94	28.36	3.41	99	26.98	3.46	103	25.67	3.51	108	24.41	3.56	113	23.23	3.61	117

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND REED COMPRESSORS  
R404a LOW TEMPERATURE**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0045</b>	-15	3.33	0.52	85	3.10	0.53	90	2.89	0.53	95	2.69	0.53	99	2.50	0.53	104	2.31	0.52	109
	-20	2.83	0.49	84	2.63	0.49	89	2.44	0.49	94	2.26	0.49	99	2.09	0.49	104	1.93	0.48	109
	-25	2.38	0.46	84	2.20	0.46	89	2.03	0.46	94	1.87	0.45	98	1.72	0.45	103	1.57	0.44	108
<b>KAN-005L</b>	-30	1.98	0.42	83	1.82	0.42	88	1.67	0.42	93	1.53	0.41	98	1.39	0.41	103	1.26	0.40	108
	-35	1.63	0.39	83	1.49	0.39	88	1.35	0.38	93	1.23	0.38	98	1.10	0.37	102	0.98	0.35	107
	-40	1.35	0.35	83	1.21	0.35	87	1.09	0.34	92	0.97	0.34	97	0.86	0.32	102	0.75	0.31	107
<b>H0075</b>	-15	5.06	0.77	88	4.77	0.78	92	4.49	0.79	97	4.22	0.79	102	3.95	0.80	107	3.69	0.80	111
	-20	4.39	0.72	87	4.13	0.73	92	3.88	0.73	96	3.63	0.74	101	3.39	0.74	106	3.15	0.73	111
	-25	3.76	0.67	86	3.53	0.68	91	3.31	0.68	96	3.09	0.68	100	2.87	0.68	105	2.66	0.67	110
<b>KAM-007L</b>	-30	3.20	0.63	85	2.99	0.63	90	2.79	0.63	95	2.59	0.63	100	2.39	0.62	104	2.20	0.61	109
	-35	2.70	0.58	85	2.51	0.58	89	2.33	0.58	94	2.14	0.57	99	1.97	0.56	104	1.79	0.55	109
	-40	2.27	0.53	84	2.09	0.53	89	1.92	0.52	94	1.75	0.51	99	1.59	0.51	103	1.43	0.49	108
<b>H0096</b>	-15	6.84	1.02	90	6.49	1.04	95	6.13	1.05	100	5.77	1.06	104	5.40	1.07	109	5.04	1.08	114
	-20	6.00	0.96	89	5.68	0.97	94	5.36	0.98	99	5.03	0.99	103	4.70	1.00	108	4.37	1.00	113
	-25	5.22	0.90	88	4.94	0.91	93	4.65	0.92	98	4.35	0.92	102	4.06	0.93	107	3.76	0.93	112
<b>KAJ-011L</b>	-30	4.51	0.84	87	4.25	0.85	92	3.99	0.85	97	3.73	0.86	102	3.46	0.86	106	3.20	0.86	111
	-35	3.86	0.79	86	3.63	0.79	91	3.39	0.79	96	3.16	0.79	101	2.92	0.79	106	2.69	0.78	110
	-40	3.26	0.73	86	3.06	0.73	91	2.85	0.73	95	2.64	0.73	100	2.43	0.72	105	2.22	0.72	110

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R404a LOW TEMPERATURE (Continued)

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0146</b>  <b>KAL-016L</b>	-15	9.31	1.49	94	8.86	1.52	99	8.40	1.54	104	7.92	1.56	108	7.44	1.58	113	6.95	1.59	117
	-20	8.23	1.40	93	7.84	1.42	98	7.43	1.44	102	7.00	1.46	107	6.56	1.47	111	6.11	1.47	116
	-25	7.22	1.30	92	6.87	1.32	96	6.50	1.34	101	6.12	1.35	106	5.71	1.35	110	5.29	1.35	115
	-30	6.25	1.21	90	5.95	1.22	95	5.61	1.23	100	5.26	1.24	104	4.88	1.23	109	4.48	1.23	114
	-35	5.33	1.11	89	5.05	1.12	94	4.74	1.12	99	4.41	1.12	103	4.04	1.11	108	3.66	1.10	112
	-40	4.42	1.01	88	4.16	1.01	93	3.87	1.01	97	3.54	1.00	102	3.19	0.98	107	2.81	0.96	111
<b>H0215</b>  <b>EAD-020L</b>	-15	10.76	1.72	94	10.20	1.73	99	9.63	1.75	104	9.07	1.76	108	8.51	1.76	113	7.95	1.76	117
	-20	9.44	1.59	92	8.93	1.61	98	8.42	1.61	102	7.91	1.62	107	7.41	1.62	111	6.90	1.61	116
	-25	8.22	1.48	92	7.76	1.48	96	7.30	1.49	101	6.84	1.48	105	6.39	1.47	110	5.93	1.46	115
	-30	7.11	1.36	90	6.69	1.36	95	6.27	1.36	100	5.85	1.35	104	5.43	1.34	109	5.01	1.32	113
	-35	6.08	1.25	89	5.69	1.24	94	5.30	1.23	98	4.91	1.22	103	4.52	1.20	108	4.14	1.17	112
	-40	5.12	1.13	88	4.75	1.12	93	4.38	1.10	97	4.01	1.08	102	3.65	1.05	106	3.28	1.02	111
<b>H0225</b>  <b>EAV-021L</b>	-15	12.17	1.78	95	11.46	1.79	99	10.73	1.79	104	9.99	1.79	108	9.26	1.79	112	8.53	1.78	117
	-20	10.52	1.63	93	9.89	1.63	97	9.23	1.63	102	8.56	1.63	106	7.90	1.62	111	7.24	1.60	115
	-25	8.99	1.48	91	8.43	1.48	96	7.84	1.47	100	7.23	1.46	105	6.63	1.45	109	6.04	1.43	114
	-30	7.61	1.34	90	7.11	1.33	94	6.58	1.32	99	6.03	1.31	103	5.48	1.29	108	4.95	1.27	113
	-35	6.42	1.21	88	5.97	1.20	93	5.49	1.19	98	4.99	1.17	102	4.49	1.15	107	4.01	1.12	111
	-40	5.46	1.10	87	5.05	1.08	92	4.61	1.06	97	4.15	1.04	101	3.69	1.02	106	3.25	0.98	110
<b>H0316</b>  <b>LAH-032L</b>	-15	19.63	2.96	97	18.52	2.97	102	17.41	2.98	106	16.29	2.97	111	15.17	2.96	115	14.03	2.93	119
	-20	17.09	2.72	95	16.08	2.72	100	15.07	2.71	104	14.05	2.70	109	13.03	2.68	113	11.98	2.65	117
	-25	14.69	2.47	94	13.78	2.47	98	12.86	2.46	103	11.95	2.44	107	11.02	2.41	111	10.07	2.38	116
	-30	12.44	2.24	92	11.62	2.23	96	10.81	2.22	101	10.00	2.19	105	9.16	2.16	110	8.31	2.12	114
	-35	10.35	2.01	90	9.64	2.01	95	8.92	1.99	99	8.20	1.96	104	7.47	1.93	108	6.71	1.89	113
	-40	8.44	1.80	89	7.83	1.79	93	7.21	1.78	98	6.59	1.75	102	5.95	1.72	107	5.28	1.67	112

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
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R404a LOW TEMPERATURE (Continued)**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0326</b>	-15	20.48	3.59	104	19.37	3.63	108	18.25	3.66	112	17.13	3.68	116	16.00	3.70	121	14.85	3.70	125
	-20	18.02	3.29	101	17.02	3.33	105	16.02	3.35	110	15.01	3.36	114	13.99	3.37	118	12.95	3.37	123
	-25	15.68	3.01	99	14.80	3.04	103	13.92	3.05	108	13.02	3.06	112	12.11	3.06	116	11.17	3.05	121
	-30	13.51	2.74	96	12.74	2.76	101	11.97	2.78	105	11.19	2.78	110	10.38	2.78	114	9.56	2.76	119
	-35	11.52	2.49	94	10.87	2.51	99	10.21	2.52	104	9.54	2.52	108	8.85	2.51	113	8.13	2.50	117
	-40	9.76	2.27	93	9.23	2.28	97	8.68	2.29	102	8.12	2.29	107	7.53	2.28	111	6.92	2.26	116
<b>H0356</b>	-15	24.34	3.96	93	23.13	4.00	97	21.92	4.04	102	20.70	4.06	107	19.49	4.08	111	18.31	4.10	116
	-20	21.47	3.69	91	20.38	3.73	96	19.28	3.75	101	18.19	3.76	105	17.11	3.77	110	16.07	3.77	115
	-25	18.78	3.42	90	17.79	3.44	95	16.80	3.45	100	15.82	3.45	104	14.86	3.44	109	13.94	3.43	114
	-30	16.21	3.14	89	15.31	3.15	94	14.42	3.15	98	13.54	3.13	103	12.69	3.11	108	11.88	3.08	113
	-35	13.69	2.84	88	12.88	2.84	93	12.07	2.82	97	11.28	2.79	102	10.52	2.75	107	9.82	2.71	111
	-40	11.18	2.51	87	10.43	2.50	91	9.70	2.46	96	8.99	2.42	101	8.31	2.37	106	7.69	2.31	110
<b>H0366</b>	-15	23.95	4.12	93	22.71	4.17	97	21.45	4.21	102	20.18	4.24	107	18.92	4.26	111	17.67	4.28	116
	-20	20.97	3.84	91	19.86	3.87	96	18.73	3.90	101	17.6	3.92	105	16.46	3.93	110	15.34	3.93	115
	-25	18.16	3.55	90	17.18	3.58	95	16.17	3.60	100	15.16	3.60	104	14.15	3.60	109	13.14	3.60	114
	-30	15.53	3.27	89	14.66	3.29	94	13.77	3.30	98	12.87	3.30	103	11.97	3.29	108	11.08	3.27	112
	-35	13.06	3.00	88	12.31	3.01	93	11.53	3.01	97	10.74	3.00	102	9.94	2.98	107	9.16	2.95	111
	-40	10.78	2.72	87	10.13	2.72	92	9.46	2.71	96	8.76	2.70	101	8.06	2.67	106	7.37	2.63	111
<b>NRD-032L</b>	-15	13.51	2.74	96	12.74	2.76	101	11.97	2.78	105	11.19	2.78	110	10.38	2.78	114	9.56	2.76	119
	-20	11.52	2.49	94	10.87	2.51	99	10.21	2.52	104	9.54	2.52	108	8.85	2.51	113	8.13	2.50	117
	-25	9.76	2.27	93	9.23	2.28	97	8.68	2.29	102	8.12	2.29	107	7.53	2.28	111	6.92	2.26	116
	-30	16.21	3.14	89	15.31	3.15	94	14.42	3.15	98	13.54	3.13	103	12.69	3.11	108	11.88	3.08	113
	-35	13.69	2.84	88	12.88	2.84	93	12.07	2.82	97	11.28	2.79	102	10.52	2.75	107	9.82	2.71	111
	-40	11.18	2.51	87	10.43	2.50	91	9.70	2.46	96	8.99	2.42	101	8.31	2.37	106	7.69	2.31	110
<b>NRD-040L</b>	-15	23.95	4.12	93	22.71	4.17	97	21.45	4.21	102	20.18	4.24	107	18.92	4.26	111	17.67	4.28	116
	-20	20.97	3.84	91	19.86	3.87	96	18.73	3.90	101	17.6	3.92	105	16.46	3.93	110	15.34	3.93	115
	-25	18.16	3.55	90	17.18	3.58	95	16.17	3.60	100	15.16	3.60	104	14.15	3.60	109	13.14	3.60	114
	-30	15.53	3.27	89	14.66	3.29	94	13.77	3.30	98	12.87	3.30	103	11.97	3.29	108	11.08	3.27	112
	-35	13.06	3.00	88	12.31	3.01	93	11.53	3.01	97	10.74	3.00	102	9.94	2.98	107	9.16	2.95	111
	-40	10.78	2.72	87	10.13	2.72	92	9.46	2.71	96	8.76	2.70	101	8.06	2.67	106	7.37	2.63	111

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R404a MEDIUM TEMPERATURE

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0055 HAG-005L</b>	25	6.27	0.51	84	5.99	0.53	89	5.70	0.55	94	5.42	0.57	99	5.13	0.59	103	4.85	0.60	108
	20	5.69	0.50	84	5.41	0.52	89	5.13	0.54	93	4.84	0.55	98	4.56	0.57	103	4.28	0.58	108
	15	5.09	0.49	83	4.82	0.51	88	4.55	0.52	93	4.27	0.53	98	4.00	0.55	103	3.73	0.56	108
	10	4.49	0.48	83	4.24	0.49	88	3.99	0.51	93	3.74	0.52	98	3.48	0.53	103	3.22	0.53	107
<b>H0065 HAJ-005L</b>	25	6.96	0.65	89	6.65	0.67	94	6.32	0.70	99	5.99	0.72	103	5.66	0.74	108	5.33	0.76	113
	20	6.30	0.63	88	6.01	0.66	93	5.71	0.68	98	5.41	0.70	103	5.11	0.72	107	4.81	0.74	112
	15	5.64	0.61	88	5.38	0.63	92	5.11	0.65	97	4.84	0.67	102	4.57	0.69	107	4.29	0.71	112
	10	5.01	0.59	87	4.77	0.61	92	4.53	0.63	97	4.29	0.64	101	4.04	0.66	106	3.79	0.68	111
<b>H0115 KAR-010L</b>	25	11.88	1.19	96	11.38	1.22	100	10.86	1.25	105	10.33	1.27	109	9.78	1.29	114	9.23	1.32	118
	20	10.70	1.15	94	10.23	1.18	99	9.75	1.20	104	9.26	1.22	108	8.75	1.24	113	8.24	1.26	117
	15	9.67	1.11	93	9.24	1.13	98	8.79	1.15	102	8.33	1.17	107	7.87	1.19	112	7.39	1.20	116
	10	8.75	1.06	92	8.35	1.08	97	7.94	1.09	101	7.51	1.11	106	7.08	1.12	111	6.65	1.14	115
<b>H0135 KAG-010L</b>	25	14.13	1.23	98	13.45	1.27	102	12.78	1.31	107	12.11	1.34	111	11.44	1.37	116	10.77	1.40	120
	20	12.76	1.18	96	12.14	1.22	101	11.52	1.25	105	10.91	1.28	110	10.30	1.30	114	9.69	1.33	119
	15	11.51	1.13	95	10.95	1.16	100	10.39	1.19	104	9.83	1.22	109	9.27	1.24	113	8.71	1.26	118
	10	10.38	1.09	94	9.87	1.11	98	9.36	1.14	103	8.85	1.16	108	8.34	1.18	112	7.83	1.20	117
<b>H0206 KAK-021L</b>	25	18.70	1.72	99	17.79	1.76	104	16.87	1.80	108	15.96	1.84	113	15.03	1.88	117	14.11	1.91	121
	20	17.11	1.67	98	16.30	1.71	103	15.48	1.75	107	14.66	1.79	112	13.84	1.83	116	13.01	1.86	120
	15	15.45	1.59	97	14.74	1.63	101	14.01	1.67	106	13.27	1.71	110	12.54	1.75	115	11.80	1.78	119
	10	13.82	1.50	95	13.18	1.54	100	12.53	1.58	104	11.88	1.61	109	11.22	1.65	113	10.56	1.68	118
<b>H0246 ERC-021L</b>	25	22.94	2.44	105	21.78	2.51	109	20.64	2.58	113	19.50	2.64	118	18.37	2.70	122	17.24	2.76	126
	20	20.88	2.34	103	19.82	2.40	107	18.76	2.46	112	17.71	2.52	116	16.67	2.57	120	15.63	2.62	125
	15	18.97	2.22	101	17.99	2.28	106	17.02	2.33	110	16.06	2.38	114	15.10	2.43	119	14.16	2.47	123
	10	17.19	2.11	99	16.29	2.16	104	15.40	2.20	108	14.52	2.24	113	13.64	2.28	117	12.78	2.32	122

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0355 ERF-031L</b>	25	33.85	3.38	102	32.30	3.49	107	30.73	3.59	111	29.14	3.69	116	27.54	3.78	120	25.93	3.87	125
	20	30.76	3.23	101	29.35	3.32	105	27.92	3.42	110	26.47	3.51	114	25.00	3.59	119	23.54	3.68	123
	15	27.87	3.07	99	26.58	3.16	104	25.28	3.25	108	23.95	3.33	113	22.62	3.41	117	21.28	3.48	122
	10	25.15	2.92	97	23.99	3.00	102	22.80	3.08	107	21.59	3.15	111	20.37	3.22	116	19.16	3.28	120
<b>H0335 3RA-031L</b>	25	39.42	4.31	107	37.30	4.42	111	35.18	4.53	115	33.08	4.63	119	30.98	4.72	124	28.90	4.81	128
	20	35.85	4.08	105	33.90	4.18	109	31.96	4.27	113	30.04	4.36	117	28.12	4.44	122	26.22	4.52	126
	15	32.42	3.85	103	30.64	3.93	107	28.88	4.02	111	27.12	4.10	116	25.37	4.17	120	23.64	4.24	124
	10	29.16	3.62	101	27.54	3.70	105	25.93	3.77	109	24.33	3.84	114	22.74	3.90	118	21.17	3.96	122
<b>H0475 NRB-040L</b>	25	47.87	4.66	101	45.44	4.76	105	43.03	4.84	110	40.63	4.92	114	38.26	4.99	118	35.91	5.05	123
	20	43.26	4.45	99	41.04	4.54	104	38.84	4.61	108	36.67	4.68	112	34.51	4.74	117	32.37	4.79	121
	15	38.93	4.24	98	36.91	4.32	102	34.91	4.38	106	32.93	4.44	111	30.97	4.49	115	29.04	4.53	120
	10	34.86	4.03	96	33.02	4.09	101	31.20	4.15	105	29.41	4.19	110	27.63	4.23	114	25.88	4.26	118

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND REED COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0225</b>	45	27.49	2.56	110	26.45	2.64	114	25.42	2.73	119	24.40	2.81	123	23.39	2.88	127	22.38	2.96	132
	40	25.00	2.46	107	24.04	2.54	112	23.09	2.61	116	22.14	2.69	121	21.21	2.76	125	20.28	2.83	130
	35	22.65	2.35	105	21.77	2.43	110	20.89	2.50	114	20.02	2.57	119	19.16	2.63	123	18.30	2.70	128
	30	20.44	2.25	103	19.63	2.32	108	18.82	2.39	112	18.03	2.45	117	17.24	2.51	121	16.45	2.57	126
<b>EAVA-021L</b>	25	18.37	2.16	101	17.62	2.22	106	16.88	2.28	110	16.16	2.34	115	15.43	2.39	119	14.72	2.44	124
	20	16.42	2.06	99	15.74	2.12	104	15.07	2.17	109	14.40	2.22	113	13.75	2.27	118	13.10	2.32	122
	15	14.59	1.96	98	13.97	2.01	102	13.36	2.06	107	12.76	2.11	111	12.16	2.15	116	11.57	2.20	121
	10	12.87	1.86	96	12.31	1.91	101	11.76	1.95	105	11.21	2.00	110	10.68	2.04	115	10.14	2.07	119
<b>H0315</b>	25	28.62	2.67	103	27.48	2.74	107	26.35	2.79	112	25.23	2.85	116	24.12	2.90	121	23.02	2.94	125
	20	25.64	2.53	101	24.59	2.58	105	23.56	2.63	110	22.54	2.68	114	21.53	2.72	119	20.53	2.76	123
	15	22.82	2.38	99	21.87	2.43	103	20.93	2.47	108	20.00	2.51	112	19.09	2.54	117	18.18	2.57	121
<b>LAHA-031L</b>	10	20.17	2.24	97	19.30	2.27	101	18.45	2.31	106	17.61	2.34	110	16.78	2.36	115	15.97	2.39	120
	5	17.67	2.09	95	16.88	2.12	100	16.11	2.15	104	15.36	2.17	109	14.61	2.19	113	13.87	2.21	118
	0	15.30	1.95	93	14.59	1.97	98	13.90	1.99	102	13.21	2.00	107	12.54	2.02	112	11.88	2.03	116

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R22 LOW TEMPERATURE  
DEMAND COOLING**

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HICA Model Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0304</b>	-15	22.41	3.00	91	21.44	3.08	96	20.45	3.15	101	19.46	3.21	105	18.46	3.26	110	17.47	3.30	115
	-20	19.33	2.81	90	18.49	2.87	95	17.61	2.93	100	16.72	2.98	104	15.82	3.02	109	14.92	3.05	114
	-25	16.60	2.62	89	15.86	2.68	94	15.08	2.72	98	14.28	2.76	103	13.47	2.78	108	12.64	2.80	113
<b>2DF-030L</b>	-30	14.16	2.45	88	13.51	2.48	93	12.81	2.51	97	12.08	2.53	102	11.33	2.53	107	10.56	2.53	112
	-35	11.95	2.26	87	11.37	2.28	92	10.74	2.28	96	10.06	2.28	101	9.35	2.26	106	8.62	2.24	111
	-40	9.92	2.06	86	9.39	2.05	91	8.80	2.03	95	8.16	2.00	100	7.48	1.96	105	6.77	1.91	110
<b>H0404</b>	-15	26.50	3.61	93	25.40	3.69	98	24.28	3.76	103	23.15	3.82	107	22.00	3.88	112	20.84	3.93	117
	-20	22.91	3.35	92	21.91	3.42	97	20.89	3.48	101	19.86	3.54	106	18.82	3.58	111	17.76	3.62	115
	-25	19.61	3.10	90	18.70	3.16	95	17.78	3.21	100	16.85	3.25	105	15.90	3.29	109	14.93	3.31	114
<b>2DL-040L</b>	-30	16.60	2.86	89	15.79	2.90	94	14.96	2.94	99	14.12	2.97	103	13.26	2.99	108	12.39	3.00	113
	-35	13.91	2.61	88	13.18	2.65	93	12.44	2.68	97	11.68	2.69	102	10.92	2.70	107	10.13	2.70	112
	-40	11.54	2.37	87	10.90	2.40	92	10.24	2.41	96	9.56	2.42	101	8.88	2.41	106	8.18	2.40	111
<b>H0504</b>	-15	30.28	4.24	95	29.00	4.33	100	27.70	4.41	105	26.36	4.49	109	25.00	4.55	114	23.61	4.61	119
	-20	26.25	3.96	94	25.09	4.04	98	23.90	4.11	103	22.69	4.17	108	21.45	4.22	112	20.19	4.27	117
	-25	22.53	3.68	92	21.47	3.75	97	20.40	3.81	102	19.31	3.86	106	18.20	3.90	111	17.07	3.93	116
<b>2DA-060L</b>	-30	19.10	3.40	91	18.16	3.46	95	17.21	3.51	100	16.24	3.55	105	15.26	3.58	109	14.25	3.60	114
	-35	15.97	3.12	89	15.14	3.16	94	14.31	3.20	99	13.47	3.23	103	12.61	3.25	108	11.74	3.26	113
	-40	13.14	2.83	88	12.42	2.86	93	11.71	2.89	97	10.99	2.91	102	10.27	2.92	107	9.53	2.92	112
<b>H0524</b>	-15	31.82	4.45	96	30.53	4.52	101	29.23	4.60	105	27.92	4.66	110	26.59	4.72	115	25.24	4.78	119
	-20	27.77	4.13	94	26.60	4.20	99	25.41	4.26	104	24.21	4.31	108	22.99	4.36	113	21.75	4.40	118
	-25	24.05	3.83	93	22.99	3.88	97	21.92	3.93	102	20.82	3.97	107	19.71	4.01	112	18.58	4.04	116
<b>2DB-060L</b>	-30	20.63	3.52	91	19.68	3.57	96	18.72	3.60	101	17.74	3.64	105	16.74	3.66	110	15.72	3.68	115
	-35	17.47	3.22	90	16.64	3.25	95	15.79	3.29	99	14.92	3.31	104	14.03	3.33	109	13.13	3.34	113
	-40	14.54	2.92	88	13.83	2.95	93	13.09	2.97	98	12.34	2.99	103	11.56	3.00	108	10.77	3.00	112

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R22 LOW TEMPERATURE (Continued) DEMAND COOLING

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0604</b>	-15	36.06	5.09	95	34.72	5.21	100	33.35	5.33	105	31.95	5.44	109	30.52	5.55	114	29.03	5.65	119
	-20	31.40	4.75	94	30.18	4.86	98	28.94	4.96	103	27.67	5.06	108	26.35	5.14	113	24.99	5.22	117
	-25	27.17	4.43	92	26.06	4.52	97	24.93	4.60	102	23.76	4.67	106	22.55	4.74	111	21.29	4.79	116
<b>3DA-060L</b>	-30	23.36	4.11	91	22.34	4.18	96	21.29	4.24	100	20.20	4.29	105	19.08	4.33	110	17.90	4.36	114
	-35	19.94	3.79	89	18.98	3.84	94	17.99	3.88	99	16.97	3.91	104	15.91	3.92	108	14.80	3.93	113
	-40	16.87	3.47	88	15.96	3.50	93	15.02	3.52	98	14.04	3.52	102	13.02	3.51	107	11.96	3.48	112
<b>H0734</b>	-15	43.73	6.17	97	41.96	6.30	102	40.18	6.43	107	38.40	6.55	111	36.64	6.67	116	34.92	6.78	120
	-20	38.54	5.74	95	36.91	5.86	100	35.25	5.97	105	33.58	6.07	109	31.92	6.17	114	30.29	6.26	119
	-25	33.78	5.32	94	32.27	5.42	98	30.72	5.52	103	29.16	5.61	108	27.59	5.69	113	26.04	5.76	117
<b>3DB-075L</b>	-30	29.39	4.91	92	28.00	5.00	97	26.56	5.08	102	25.09	5.15	106	23.60	5.21	111	22.13	5.27	116
	-35	25.31	4.51	91	24.04	4.58	96	22.69	4.65	100	21.31	4.70	105	19.90	4.75	110	18.49	4.78	114
	-40	21.51	4.11	89	20.33	4.17	94	19.08	4.22	99	17.77	4.26	104	16.43	4.29	108	15.08	4.31	113
<b>H0934</b>	-15	53.01	7.52	97	50.96	7.67	102	48.87	7.82	106	46.74	7.96	111	44.59	8.09	116	42.44	8.23	120
	-20	46.35	6.98	95	44.46	7.12	100	42.51	7.25	105	40.53	7.37	109	38.53	7.48	114	36.52	7.60	118
	-25	40.15	6.46	93	38.42	6.58	98	36.63	6.69	103	34.81	6.80	108	32.97	6.90	112	31.11	6.99	117
<b>3DF-090L</b>	-30	34.42	5.96	92	32.86	6.07	97	31.25	6.17	101	29.60	6.26	106	27.92	6.35	111	26.23	6.43	115
	-35	29.16	5.48	90	27.80	5.59	95	26.37	5.68	100	24.90	5.76	105	23.41	5.84	109	21.90	5.91	114
	-40	24.40	5.05	89	23.24	5.15	94	22.01	5.24	99	20.74	5.31	103	19.45	5.38	108	18.13	5.45	113
<b>H1064</b>	-15	57.72	8.17	95	55.60	8.36	100	53.46	8.54	105	51.29	8.71	110	49.07	8.88	114	46.76	9.04	119
	-20	50.50	7.62	94	48.53	7.79	99	46.56	7.95	103	44.58	8.10	108	42.55	8.25	113	40.46	8.39	118
	-25	43.82	7.09	92	42.00	7.24	97	40.19	7.38	102	38.39	7.52	107	36.56	7.64	111	34.69	7.77	116
<b>3DS-100L</b>	-30	37.64	6.57	91	35.96	6.71	96	34.32	6.83	100	32.70	6.96	105	31.07	7.07	110	29.40	7.18	115
	-35	31.91	6.06	90	30.38	6.19	94	28.90	6.31	99	27.46	6.42	104	26.02	6.53	109	24.57	6.63	114
	-40	26.60	5.56	88	25.21	5.68	93	23.90	5.79	98	22.64	5.90	103	21.40	6.00	108	20.16	6.10	112

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R22 LOW TEMPERATURE (Continued)  
DEMAND COOLING**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1314</b>	-15	62.07	8.92	96	59.66	9.18	101	57.15	9.42	105	54.52	9.63	110	51.77	9.80	115	48.88	9.93	119
	-20	53.95	8.29	94	51.68	8.51	99	49.32	8.70	104	46.86	8.87	108	44.28	9.00	113	41.59	9.08	118
	-25	46.44	7.67	93	44.30	7.84	97	42.08	7.99	102	39.77	8.11	107	37.36	8.19	111	34.84	8.23	116
<b>4DA-100L</b>	-30	39.50	7.04	91	37.47	7.17	96	35.38	7.27	100	33.21	7.34	105	30.95	7.37	110	28.59	7.36	114
	-35	33.09	6.39	90	31.16	6.47	94	29.18	6.52	99	27.14	6.55	104	25.02	6.53	108	22.82	6.47	113
	-40	27.16	5.71	88	25.32	5.74	93	23.45	5.74	97	21.53	5.71	102	19.54	5.64	107	17.48	5.53	111
<b>H1514</b>	-15	80.13	11.49	96	77.10	11.83	101	73.98	12.16	105	70.77	12.48	110	67.49	12.78	115	64.13	13.04	119
	-20	70.38	10.74	94	67.54	11.04	99	64.62	11.32	104	61.63	11.60	108	58.56	11.85	113	55.43	12.06	118
	-25	61.33	10.01	93	58.67	10.26	97	55.94	10.51	102	53.15	10.73	107	50.29	10.94	112	47.38	11.11	116
<b>4DL-150L</b>	-30	52.93	9.29	91	50.45	9.50	96	47.90	9.70	101	45.30	9.89	106	42.65	10.05	110	39.94	10.17	115
	-35	45.14	8.58	90	42.82	8.75	95	40.45	8.91	99	38.04	9.05	104	35.58	9.16	109	33.08	9.24	114
	-40	37.92	7.87	89	35.76	8.00	93	33.55	8.12	98	31.31	8.21	103	29.04	8.29	108	26.73	8.32	112
<b>H2204</b>	-15	93.08	13.35	95	89.86	13.76	100	86.77	14.18	105	83.70	14.59	109	80.55	14.99	114	77.19	15.34	119
	-20	82.11	12.56	93	79.10	12.92	98	76.26	13.29	103	73.45	13.66	108	70.58	14.00	113	67.54	14.31	118
	-25	72.14	11.80	92	69.31	12.11	97	66.67	12.43	102	64.09	12.75	107	61.48	13.04	111	58.71	13.29	116
<b>4DT-220L</b>	-30	62.87	11.04	91	60.19	11.29	96	57.71	11.56	100	55.33	11.82	105	52.93	12.05	110	50.40	12.25	115
	-35	53.99	10.22	90	51.41	10.42	94	49.06	10.63	99	46.84	10.82	104	44.61	11.00	109	42.29	11.13	114
	-40	45.17	9.32	88	42.66	9.45	93	40.41	9.60	98	38.30	9.73	103	36.22	9.84	108	34.06	9.92	112
<b>H2704</b>	-15	117.38	17.06	96	113.38	17.64	101	109.33	18.21	106	105.14	18.75	110	100.76	19.24	115	96.10	19.65	120
	-20	103.38	15.99	94	99.65	16.51	99	95.89	17.02	104	92.02	17.49	109	87.97	17.90	114	83.66	18.24	118
	-25	90.38	14.95	93	86.89	15.40	98	83.38	15.83	102	79.78	16.23	107	76.01	16.56	112	72.01	16.81	117
<b>6DL-270L</b>	-30	78.19	13.90	91	74.89	14.28	96	71.59	14.63	101	68.23	14.94	106	64.71	15.19	111	60.96	15.35	115
	-35	66.61	12.82	90	63.46	13.11	95	60.34	13.38	100	57.16	13.60	104	53.84	13.75	109	50.32	13.81	114
	-40	55.43	11.67	89	52.39	11.87	93	49.40	12.04	98	46.37	12.17	103	43.22	12.22	108	39.88	12.18	112

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R22 LOW TEMPERATURE (Continued) DEMAND COOLING

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H3014</b>	-15	136.73	20.83	98	131.96	21.48	103	127.21	22.12	108	122.32	22.73	112	117.15	23.29	117	111.54	23.78	122
	-20	120.43	19.42	96	116.11	20.00	101	111.87	20.58	106	107.55	21.11	111	102.97	21.60	115	98.00	22.02	120
	-25	105.47	18.05	94	101.55	18.56	99	97.75	19.06	104	93.92	19.53	109	89.87	19.94	114	85.46	20.27	118
<b>6DT-300L</b>	-30	91.51	16.70	93	87.92	17.15	98	84.50	17.57	103	81.08	17.96	107	77.49	18.28	112	73.57	18.54	117
	-35	78.18	15.36	91	74.84	15.73	96	71.73	16.08	101	68.65	16.38	106	65.45	16.62	111	61.96	16.79	115
	-40	65.09	14.02	90	61.94	14.31	95	59.06	14.57	99	56.26	14.79	104	53.38	14.94	109	50.24	15.01	114

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE**

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0484</b>	45	71.14	4.34	109	68.84	4.54	114	66.53	4.74	118	64.22	4.92	123	61.90	5.10	127	59.59	5.28	132
	40	64.97	4.20	107	62.83	4.38	112	60.69	4.56	116	58.55	4.73	121	56.41	4.89	125	54.27	5.04	130
	35	59.12	4.05	105	57.14	4.21	109	55.16	4.37	114	53.18	4.52	119	51.20	4.67	123	49.22	4.81	128
	30	53.61	3.89	103	51.77	4.04	107	49.94	4.18	112	48.10	4.32	117	46.27	4.45	121	44.44	4.57	126
<b>2DC-050L</b>	25	48.41	3.74	101	46.71	3.87	106	45.01	3.99	110	43.31	4.11	115	41.61	4.22	119	39.91	4.32	124
	20	43.53	3.57	99	41.95	3.69	104	40.37	3.79	108	38.79	3.89	113	37.22	3.99	117	35.64	4.08	122
	15	38.95	3.40	97	37.48	3.50	102	36.01	3.59	107	34.54	3.67	111	33.07	3.75	116	31.60	3.82	120
	10	34.65	3.23	96	33.28	3.31	100	31.91	3.38	105	30.54	3.45	110	29.16	3.51	114	27.78	3.57	119
<b>H0494</b>	45	82.76	4.99	108	80.12	5.23	113	77.47	5.46	117	74.83	5.69	122	72.18	5.91	126	69.53	6.12	131
	40	75.64	4.82	106	73.20	5.04	111	70.76	5.25	115	68.31	5.46	120	65.87	5.66	124	63.43	5.85	129
	35	68.91	4.65	104	66.65	4.85	109	64.39	5.04	113	62.13	5.23	118	59.88	5.41	122	57.63	5.58	127
	30	62.55	4.47	102	60.46	4.65	107	58.38	4.83	111	56.29	5.00	116	54.22	5.16	120	52.14	5.31	125
<b>2DD-050L</b>	25	56.56	4.29	100	54.63	4.45	105	52.70	4.61	110	50.78	4.76	114	48.86	4.90	119	46.95	5.03	123
	20	50.93	4.11	99	49.15	4.25	103	47.36	4.39	108	45.59	4.52	112	43.82	4.64	117	42.05	4.75	122
	15	45.65	3.92	97	43.99	4.04	101	42.34	4.16	106	40.69	4.27	111	39.05	4.37	115	37.42	4.47	120
	10	40.69	3.73	95	39.15	3.83	100	37.62	3.93	105	36.09	4.02	109	34.56	4.11	114	33.04	4.19	119
<b>H0654</b>	45	102.68	6.29	109	99.60	6.59	114	96.49	6.89	118	93.34	7.17	123	90.15	7.45	127	86.91	7.71	131
	40	93.97	6.09	107	91.14	6.36	111	88.28	6.63	116	85.38	6.90	120	82.44	7.15	125	79.47	7.40	130
	35	85.74	5.88	105	83.14	6.13	109	80.51	6.38	114	77.84	6.62	118	75.15	6.85	123	72.42	7.07	128
	30	77.97	5.66	103	75.58	5.89	107	73.17	6.12	112	70.72	6.34	117	68.26	6.55	121	65.76	6.75	126
<b>2DL-075L</b>	25	70.65	5.44	101	68.46	5.65	106	66.24	5.85	110	64.00	6.05	115	61.74	6.23	119	59.46	6.41	124
	20	63.75	5.21	99	61.74	5.39	104	59.71	5.57	108	57.66	5.74	113	55.59	5.91	118	53.50	6.07	122
	15	57.23	4.96	97	55.39	5.12	102	53.53	5.28	107	51.66	5.43	111	49.77	5.58	116	47.86	5.71	121
	10	51.08	4.70	96	49.40	4.84	100	47.70	4.98	105	45.98	5.11	110	44.25	5.23	115	42.50	5.34	119

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0704</b>	45	114.64	7.29	110	111.09	7.63	114	107.53	7.96	119	103.96	8.29	123	100.38	8.60	128	96.79	8.90	132
	40	105.23	7.05	108	101.98	7.36	112	98.73	7.67	117	95.46	7.97	121	92.18	8.26	126	88.89	8.54	130
	35	96.26	6.80	106	93.30	7.09	110	90.32	7.37	115	87.32	7.65	119	84.31	7.91	124	81.29	8.16	128
	30	87.74	6.55	104	85.03	6.81	108	82.30	7.07	113	79.55	7.32	117	76.77	7.55	122	73.98	7.78	127
<b>2DA-075L</b>	25	79.66	6.29	102	77.17	6.53	106	74.66	6.76	111	72.12	6.97	116	69.55	7.18	120	66.96	7.38	125
	20	72.01	6.02	100	69.72	6.23	105	67.39	6.43	109	65.03	6.62	114	62.63	6.80	118	60.19	6.96	123
	15	64.77	5.74	98	62.64	5.92	103	60.47	6.09	107	58.25	6.24	112	55.98	6.39	117	53.67	6.53	121
	10	57.93	5.43	96	55.93	5.58	101	53.87	5.72	106	51.76	5.85	110	49.59	5.97	115	47.36	6.07	120
<b>H0724</b>	45	137.52	8.78	110	133.43	9.20	115	129.35	9.60	119	125.28	10.00	124	121.22	10.38	128	117.18	10.74	133
	40	126.27	8.50	108	122.51	8.89	113	118.77	9.27	117	115.04	9.63	122	111.32	9.99	126	107.62	10.32	131
	35	115.60	8.23	106	112.15	8.58	110	108.72	8.93	115	105.31	9.27	120	101.91	9.59	124	98.53	9.90	129
	30	105.51	7.94	104	102.35	8.27	109	99.21	8.59	113	96.09	8.90	118	92.98	9.19	122	89.89	9.47	127
<b>3DA-075L</b>	25	96.00	7.65	102	93.10	7.95	107	90.23	8.24	111	87.37	8.52	116	84.53	8.79	121	81.71	9.04	125
	20	87.04	7.36	100	84.39	7.63	105	81.76	7.89	110	79.14	8.14	114	76.54	8.38	119	73.96	8.61	124
	15	78.62	7.06	99	76.20	7.30	103	73.78	7.53	108	71.39	7.76	113	69.00	7.97	117	66.64	8.18	122
	10	70.73	6.75	97	68.50	6.96	102	66.28	7.17	106	64.08	7.37	111	61.89	7.56	116	59.70	7.75	121
<b>H1024</b>	45	158.47	10.74	114	153.80	11.24	118	149.10	11.73	123	144.38	12.20	127	139.64	12.65	131	134.87	13.09	136
	40	145.93	10.38	111	141.64	10.84	116	137.32	11.29	120	132.99	11.73	125	128.64	12.15	129	124.26	12.55	134
	35	134.00	10.00	109	130.06	10.44	113	126.10	10.86	118	122.13	11.26	123	118.14	11.64	127	114.13	12.01	132
	30	122.68	9.63	107	119.07	10.03	111	115.44	10.41	116	111.80	10.78	121	108.14	11.14	125	104.47	11.48	130
<b>3DB-100L</b>	25	111.99	9.26	105	108.68	9.62	109	105.36	9.97	114	102.01	10.31	119	98.66	10.63	123	95.29	10.94	128
	20	101.93	8.88	103	98.89	9.21	107	95.84	9.53	112	92.77	9.83	117	89.68	10.13	121	86.59	10.40	126
	15	92.47	8.51	101	89.68	8.81	106	86.88	9.09	110	84.05	9.36	115	81.21	9.62	120	78.35	9.87	124
	10	83.62	8.13	99	81.05	8.40	104	78.46	8.65	109	75.85	8.89	113	73.22	9.12	118	70.57	9.34	123

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1204</b>	45	189.69	13.04	111	183.97	13.60	115	178.26	14.15	120	172.54	14.69	124	166.83	15.22	129	161.14	15.73	133
	40	174.50	12.58	109	169.24	13.10	113	163.97	13.61	118	158.70	14.10	122	153.44	14.59	127	148.18	15.07	131
	35	159.96	12.10	107	155.13	12.58	111	150.30	13.05	116	145.46	13.51	120	140.62	13.95	125	135.80	14.39	129
	30	146.09	11.60	105	141.68	12.04	109	137.26	12.48	114	132.84	12.90	118	128.41	13.31	123	124.00	13.71	128
<b>3DF-120L</b>	25	132.92	11.10	103	128.90	11.51	107	124.88	11.90	112	120.85	12.29	117	116.83	12.67	121	112.81	13.03	126
	20	120.45	10.59	101	116.82	10.96	105	113.18	11.33	110	109.53	11.68	115	105.88	12.03	119	102.24	12.36	124
	15	108.71	10.08	99	105.44	10.43	104	102.17	10.76	108	98.88	11.08	113	95.59	11.40	118	92.31	11.70	123
	10	97.73	9.58	97	94.80	9.90	102	91.87	10.20	107	88.92	10.50	112	85.97	10.79	116	83.03	11.06	121
<b>H1464</b>	45	214.04	14.41	111	207.57	15.06	115	201.18	15.70	120	194.86	16.32	124	188.62	16.92	129	182.45	17.50	133
	40	196.90	13.92	109	190.98	14.54	113	185.15	15.13	118	179.39	15.71	122	173.72	16.28	127	168.14	16.83	131
	35	180.61	13.43	106	175.21	14.00	111	169.90	14.56	116	164.67	15.10	120	159.53	15.63	125	154.49	16.14	130
	30	165.17	12.92	104	160.25	13.45	109	155.42	13.97	114	150.68	14.47	118	146.03	14.97	123	141.49	15.45	128
<b>3DS-150L</b>	25	150.55	12.40	103	146.08	12.89	107	141.70	13.37	112	137.41	13.83	117	133.21	14.29	121	129.11	14.74	126
	20	136.75	11.87	101	132.68	12.32	105	128.70	12.75	110	124.82	13.19	115	121.02	13.61	120	117.33	14.03	124
	15	123.71	11.33	99	120.01	11.73	104	116.40	12.13	108	112.88	12.53	113	109.45	12.92	118	106.11	13.31	123
	10	111.39	10.77	97	108.02	11.14	102	104.74	11.50	107	101.54	11.87	112	98.42	12.23	116	95.39	12.59	121
<b>H1964</b>	45	240.22	14.97	106	233.61	15.79	111	226.99	16.61	116	220.37	17.42	120	213.73	18.24	125	207.09	19.05	130
	40	219.90	14.39	104	213.83	15.15	109	207.75	15.91	114	201.66	16.67	118	195.56	17.43	123	189.46	18.19	128
	35	200.64	13.81	102	195.07	14.51	107	189.50	15.21	112	183.92	15.91	116	178.33	16.61	121	172.74	17.31	126
	30	182.42	13.24	100	177.32	13.88	105	172.23	14.52	110	167.13	15.16	115	162.02	15.80	119	156.91	16.44	124
<b>4DA-200L</b>	25	165.20	12.70	99	160.56	13.27	104	155.91	13.85	108	151.26	14.43	113	146.60	15.00	118	141.93	15.58	123
	20	148.97	12.18	97	144.75	12.70	102	140.52	13.21	107	136.29	13.73	112	132.05	14.24	116	127.81	14.75	121
	15	133.71	11.70	96	129.88	12.16	100	126.04	12.61	105	122.20	13.06	110	118.36	13.51	115	114.51	13.96	120
	10	119.39	11.26	94	115.92	11.65	99	112.45	12.04	104	108.97	12.43	109	105.50	12.82	113	102.01	13.21	118

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H2214</b>	45	266.29	19.06	116	257.71	19.87	120	249.16	20.67	124	240.62	21.45	129	232.10	22.22	133	223.58	22.97	137
	40	244.79	18.31	113	236.84	19.06	117	228.91	19.79	122	220.99	20.50	126	213.10	21.20	131	205.21	21.89	135
	35	223.76	17.54	110	216.41	18.22	115	209.09	18.89	119	201.79	19.54	124	194.50	20.18	128	187.22	20.80	133
	30	203.34	16.75	108	196.59	17.38	112	189.86	17.99	117	183.15	18.58	121	176.45	19.15	126	169.77	19.71	130
<b>4DB-220L</b>	25	183.69	15.96	106	177.51	16.53	110	171.36	17.09	115	165.23	17.62	119	159.12	18.14	124	153.01	18.64	128
	20	164.96	15.18	103	159.35	15.70	108	153.77	16.20	112	148.20	16.68	117	142.66	17.15	122	137.12	17.59	126
	15	147.33	14.41	101	142.28	14.88	106	137.25	15.33	110	132.25	15.77	115	127.25	16.18	120	122.28	16.58	124
	10	130.98	13.67	99	126.47	14.09	104	121.99	14.50	108	117.53	14.89	113	113.09	15.26	118	108.66	15.61	122
<b>H2504</b>	45	303.28	21.43	112	294.21	22.38	117	285.14	23.33	121	276.06	24.28	126	266.97	25.23	130	257.86	26.18	135
	40	277.14	20.42	110	268.82	21.30	114	260.50	22.19	119	252.17	23.07	123	243.82	23.95	128	235.47	24.83	133
	35	252.29	19.43	107	244.68	20.25	112	237.07	21.06	117	229.45	21.87	121	221.83	22.68	126	214.19	23.49	130
	30	228.67	18.49	105	221.75	19.22	110	214.82	19.96	114	207.89	20.70	119	200.95	21.44	124	194.00	22.17	128
<b>4DH-250L</b>	25	206.28	17.59	103	200.01	18.25	108	193.73	18.91	112	187.44	19.57	117	181.15	20.23	122	174.85	20.89	126
	20	185.08	16.75	101	179.42	17.33	106	173.76	17.92	110	168.09	18.50	115	162.42	19.09	120	156.74	19.67	124
	15	165.06	15.97	99	159.98	16.48	104	154.90	16.99	108	149.81	17.50	113	144.72	18.00	118	139.62	18.51	123
	10	146.19	15.26	97	141.66	15.69	102	137.13	16.13	107	132.59	16.56	111	128.04	16.99	116	123.50	17.42	121
<b>H2824</b>	45	333.53	26.72	117	323.73	27.75	121	313.93	28.78	125	304.11	29.81	130	294.27	30.84	134	284.41	31.87	139
	40	307.11	25.39	114	297.98	26.36	118	288.84	27.32	123	279.69	28.28	127	270.53	29.25	132	261.35	30.21	136
	35	282.04	24.07	111	273.55	24.96	116	265.05	25.86	120	256.54	26.75	125	248.01	27.64	130	239.48	28.53	134
	30	258.28	22.79	109	250.39	23.60	113	242.50	24.42	118	234.59	25.23	123	226.68	26.05	127	218.76	26.86	132
<b>4DJ-300L</b>	25	235.79	21.55	107	228.48	22.29	111	221.16	23.03	116	213.83	23.76	120	206.49	24.50	125	199.15	25.24	130
	20	214.54	20.38	104	207.77	21.04	109	200.99	21.70	114	194.21	22.35	118	187.42	23.01	123	180.62	23.67	128
	15	194.49	19.28	102	188.23	19.86	107	181.97	20.44	112	175.70	21.02	116	169.43	21.60	121	163.15	22.18	126
	10	175.63	18.27	100	169.86	18.77	105	164.08	19.27	110	158.29	19.77	114	152.50	20.27	119	146.70	20.77	124

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H3024</b>	45	370.69	29.04	120	358.33	30.07	125	346.17	31.10	129	334.20	32.14	133	322.42	33.18	138	310.82	34.24	142
	40	343.43	27.82	118	332.21	28.78	122	321.14	29.74	126	310.20	30.69	131	299.39	31.65	135	288.69	32.61	139
	35	317.33	26.63	115	307.18	27.52	120	297.12	28.40	124	287.12	29.28	128	277.18	30.15	133	267.27	31.03	137
	30	292.38	25.46	113	283.22	26.28	117	274.06	27.09	122	264.90	27.89	126	255.71	28.68	130	246.48	29.46	135
<b>6DB-300L</b>	25	268.54	24.31	110	260.27	25.06	115	251.91	25.80	119	243.46	26.52	124	234.91	27.23	128	226.24	27.93	133
	20	245.76	23.17	108	238.25	23.86	113	230.58	24.53	117	222.72	25.17	122	214.68	25.80	126	206.43	26.41	131
	15	223.94	22.04	106	217.08	22.67	110	209.96	23.26	115	202.57	23.83	119	194.89	24.38	124	186.93	24.91	128
	10	202.99	20.92	104	196.65	21.48	108	189.94	22.01	113	182.87	22.51	117	175.44	22.98	122	167.63	23.43	126

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R404a LOW TEMPERATURE

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0304</b>  <b>2DF-030L</b>	-15	27.46	3.69	93	26.15	3.77	98	24.87	3.83	103	23.61	3.88	107	22.37	3.93	112	21.13	3.96	117
	-20	24.13	3.47	92	22.97	3.53	97	21.83	3.58	101	20.71	3.63	106	19.59	3.66	111	18.48	3.68	115
	-25	21.08	3.24	91	20.04	3.29	95	19.02	3.33	100	18.01	3.36	105	17.00	3.38	110	15.99	3.38	114
	-30	18.31	3.00	89	17.37	3.04	94	16.44	3.07	99	15.52	3.09	104	14.60	3.09	108	13.65	3.08	113
	-35	15.81	2.76	88	14.95	2.79	93	14.09	2.80	98	13.23	2.80	103	12.36	2.79	107	11.46	2.76	112
	-40	13.59	2.51	87	12.77	2.52	92	11.96	2.51	97	11.14	2.50	102	10.29	2.46	106	9.42	2.42	111
<b>H0404</b>  <b>2DL-040L</b>	-15	32.28	4.25	95	30.80	4.32	100	29.33	4.39	105	27.86	4.45	109	26.38	4.49	114	24.91	4.53	118
	-20	28.55	3.97	94	27.22	4.03	99	25.90	4.08	103	24.57	4.13	108	23.24	4.17	112	21.92	4.19	117
	-25	25.07	3.69	92	23.88	3.74	97	22.69	3.78	102	21.50	3.81	107	20.30	3.84	111	19.10	3.85	116
	-30	21.86	3.41	91	20.79	3.45	96	19.71	3.48	101	18.63	3.50	105	17.55	3.51	110	16.47	3.52	115
	-35	18.90	3.14	90	17.93	3.17	95	16.95	3.18	99	15.97	3.19	104	14.99	3.19	109	14.00	3.18	113
	-40	16.19	2.87	89	15.30	2.88	93	14.40	2.88	98	13.50	2.88	103	12.59	2.86	107	11.68	2.84	112
<b>H0504</b>  <b>2DA-060L</b>	-15	36.16	4.92	98	34.54	5.00	102	32.92	5.08	107	31.32	5.15	111	29.71	5.21	116	28.12	5.26	120
	-20	32.17	4.60	96	30.72	4.67	100	29.27	4.73	105	27.82	4.79	110	26.37	4.83	114	24.93	4.87	119
	-25	28.45	4.28	94	27.14	4.34	99	25.83	4.39	104	24.52	4.43	108	23.21	4.46	113	21.90	4.48	117
	-30	24.97	3.97	93	23.79	4.01	97	22.60	4.05	102	21.41	4.07	107	20.22	4.09	111	19.03	4.10	116
	-35	21.73	3.65	91	20.65	3.68	96	19.57	3.70	101	18.48	3.71	105	17.38	3.71	110	16.28	3.70	115
	-40	18.71	3.33	90	17.71	3.34	95	16.71	3.35	99	15.70	3.35	104	14.67	3.33	109	13.64	3.30	113
<b>H0524</b>  <b>2DB-060L</b>	-15	38.39	5.19	99	36.68	5.28	103	34.99	5.36	108	33.30	5.43	112	31.61	5.50	117	29.92	5.56	121
	-20	34.08	4.84	97	32.54	4.92	101	31.01	4.98	106	29.50	5.05	111	28.00	5.10	115	26.49	5.15	120
	-25	30.04	4.50	95	28.64	4.56	100	27.26	4.61	104	25.91	4.66	109	24.56	4.70	114	23.22	4.74	118
	-30	26.28	4.16	93	24.99	4.20	98	23.74	4.24	103	22.51	4.27	107	21.31	4.30	112	20.11	4.32	117
	-35	22.78	3.82	92	21.58	3.84	97	20.43	3.86	101	19.32	3.88	106	18.23	3.89	111	17.16	3.90	115
	-40	19.55	3.47	90	18.42	3.47	95	17.35	3.47	100	16.32	3.47	104	15.32	3.47	109	14.35	3.46	114

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R404a LOW TEMPERATURE (Continued)

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1314</b>  <b>4DA-101L</b>	-15	72.18	9.70	98	69.25	9.96	102	66.35	10.20	107	63.44	10.42	112	60.48	10.61	116	57.42	10.76	121
	-20	64.48	9.10	96	61.85	9.32	101	59.24	9.53	105	56.61	9.70	110	53.91	9.85	115	51.10	9.94	119
	-25	57.32	8.50	94	54.93	8.68	99	52.54	8.85	104	50.12	8.97	109	47.61	9.06	113	44.97	9.10	118
	-30	50.58	7.90	93	48.37	8.04	98	46.14	8.15	102	43.85	8.22	107	41.46	8.25	112	38.94	8.23	116
	-35	44.16	7.28	92	42.05	7.37	96	39.91	7.42	101	37.69	7.44	106	35.36	7.40	110	32.87	7.32	115
	-40	37.94	6.63	90	35.86	6.66	95	33.73	6.66	99	31.51	6.61	104	29.17	6.51	109	26.66	6.35	113
<b>H1514</b>  <b>4DL-150L</b>	-15	94.98	12.95	98	91.12	13.28	102	87.42	13.60	107	83.77	13.91	112	80.05	14.18	117	76.15	14.42	121
	-20	85.30	12.18	96	81.82	12.46	101	78.49	12.74	106	75.21	13.00	110	71.86	13.23	115	68.34	13.42	120
	-25	76.16	11.40	95	73.01	11.65	99	70.03	11.89	104	67.10	12.10	109	64.09	12.28	114	60.89	12.41	118
	-30	67.41	10.62	93	64.57	10.82	98	61.90	11.02	103	59.28	11.19	108	56.57	11.32	112	53.67	11.40	117
	-35	58.89	9.80	92	56.34	9.97	97	53.94	10.12	101	51.59	10.24	106	49.15	10.32	111	46.51	10.34	116
	-40	50.46	8.94	90	48.15	9.07	95	45.99	9.18	100	43.87	9.25	105	41.66	9.28	109	39.25	9.25	114
<b>H2204</b>  <b>4DT-220L</b>	-15	116.27	15.41	98	110.95	15.73	102	105.76	16.05	107	100.70	16.34	111	95.76	16.61	116	90.91	16.85	121
	-20	104.30	14.43	96	99.52	14.72	101	94.82	14.98	105	90.21	15.22	110	85.65	15.43	114	81.13	15.61	119
	-25	92.84	13.46	94	88.56	13.70	99	84.32	13.91	104	80.10	14.10	108	75.88	14.24	113	71.65	14.34	118
	-30	81.85	12.48	93	78.03	12.67	98	74.20	12.82	102	70.33	12.94	107	66.41	13.02	112	62.41	13.04	116
	-35	71.27	11.48	91	67.88	11.61	96	64.40	11.70	101	60.83	11.75	106	57.15	11.75	110	53.34	11.70	115
	-40	61.05	10.45	90	58.02	10.51	95	54.86	10.54	99	51.54	10.51	104	48.05	10.43	109	44.38	10.29	113
<b>H2704</b>  <b>6DL-270L</b>	-15	143.73	19.44	98	137.75	19.87	103	131.88	20.27	108	126.02	20.64	112	120.09	20.96	117	114.00	21.22	121
	-20	127.86	18.09	97	122.47	18.46	101	117.17	18.81	106	111.88	19.10	110	106.50	19.35	115	100.94	19.53	120
	-25	112.88	16.77	95	108.00	17.09	100	103.21	17.36	104	98.42	17.58	109	93.52	17.74	114	88.41	17.84	118
	-30	98.91	15.49	93	94.48	15.73	98	90.13	15.93	103	85.76	16.08	107	81.26	16.15	112	76.54	16.15	117
	-35	86.08	14.23	92	82.04	14.41	96	78.05	14.53	101	74.02	14.58	106	69.84	14.57	111	65.43	14.47	115
	-40	74.54	13.01	90	70.79	13.10	95	67.09	13.14	100	63.32	13.11	104	59.38	13.00	109	55.20	12.80	114

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

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Revision J  
November, 1997

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H3014</b>	-15	158.81	23.59	100	151.81	24.08	105	144.79	24.53	109	137.80	24.94	114	130.85	25.29	118	123.99	25.59	123
	-20	141.75	21.87	98	135.50	22.29	103	129.21	22.68	107	122.90	23.02	112	116.63	23.31	116	110.40	23.54	121
	-25	125.70	20.22	96	120.11	20.57	101	114.44	20.89	106	108.74	21.15	110	103.03	21.37	115	97.34	21.52	119
<b>6DT-300L</b>	-30	110.71	18.62	95	105.68	18.90	99	100.54	19.14	104	95.33	19.33	109	90.09	19.47	113	84.84	19.54	118
	-35	96.82	17.08	93	92.24	17.29	98	87.52	17.44	102	82.70	17.55	107	77.82	17.60	112	72.90	17.58	116
	-40	84.05	15.59	91	79.81	15.71	96	75.40	15.78	101	70.86	15.80	105	66.23	15.76	110	61.53	15.65	115

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0484</b>	35	63.47	4.54	106	60.49	4.69	110	57.54	4.83	114	54.62	4.96	119	51.73	5.09	123	48.86	5.21	127
	30	58.08	4.38	104	55.35	4.51	108	52.66	4.64	113	49.98	4.76	117	47.33	4.88	121	44.71	4.99	125
	25	52.89	4.20	102	50.41	4.33	106	47.95	4.44	111	45.52	4.55	115	43.11	4.66	119	40.72	4.75	124
	20	47.93	4.02	100	45.68	4.14	105	43.46	4.24	109	41.25	4.34	113	39.07	4.43	118	36.91	4.52	122
<b>2DC-050L</b>	15	43.21	3.84	99	41.19	3.94	103	39.19	4.04	107	37.20	4.12	112	35.23	4.21	116	33.28	4.28	121
	10	38.76	3.65	97	36.95	3.74	101	35.15	3.83	106	33.37	3.91	110	31.61	3.98	115	29.86	4.04	119
	5	34.59	3.47	95	32.98	3.55	100	31.38	3.62	104	29.79	3.69	109	28.21	3.76	114	26.65	3.81	118
	0	30.73	3.28	94	29.30	3.35	98	27.88	3.42	103	26.46	3.48	108	25.06	3.54	112	23.67	3.59	117
<b>H0494</b>	35	76.05	5.34	106	72.65	5.52	110	69.24	5.70	114	65.82	5.87	118	62.39	6.02	123	58.94	6.17	127
	30	69.67	5.14	104	66.56	5.31	108	63.45	5.47	112	60.33	5.62	117	57.20	5.77	121	54.05	5.90	125
	25	63.51	4.93	102	60.68	5.09	106	57.85	5.23	111	55.02	5.37	115	52.17	5.50	119	49.32	5.62	124
	20	57.61	4.72	100	55.04	4.86	105	52.48	4.99	109	49.92	5.11	113	47.35	5.23	118	44.78	5.34	122
<b>2DD-050L</b>	15	51.99	4.50	98	49.67	4.62	103	47.36	4.74	107	45.06	4.86	112	42.75	4.96	116	40.44	5.06	121
	10	46.69	4.27	97	44.61	4.39	101	42.53	4.50	106	40.47	4.60	110	38.41	4.69	115	36.35	4.78	120
	5	41.75	4.05	95	39.87	4.16	100	38.02	4.25	104	36.18	4.35	109	34.35	4.43	114	32.53	4.51	118
	0	37.18	3.84	94	35.51	3.93	98	33.85	4.02	103	32.22	4.10	108	30.60	4.18	112	29.00	4.26	117
<b>H0654</b>	35	92.53	6.64	106	88.46	6.87	110	84.40	7.09	114	80.35	7.30	119	76.31	7.50	123	72.27	7.70	127
	30	84.81	6.39	104	81.10	6.60	108	77.40	6.80	113	73.71	6.99	117	70.03	7.18	121	66.36	7.35	126
	25	77.40	6.13	102	74.04	6.32	106	70.68	6.51	111	67.34	6.68	115	64.00	6.85	120	60.67	7.01	124
	20	70.34	5.87	100	67.30	6.04	105	64.27	6.21	109	61.25	6.37	114	58.24	6.52	118	55.24	6.67	123
<b>2DL-075L</b>	15	63.65	5.60	99	60.91	5.76	103	58.19	5.91	108	55.47	6.06	112	52.77	6.20	117	50.07	6.32	121
	10	57.35	5.33	97	54.90	5.48	102	52.45	5.62	106	50.02	5.75	111	47.60	5.87	115	45.18	5.99	120
	5	51.48	5.07	95	49.28	5.20	100	47.09	5.32	105	44.92	5.44	109	42.75	5.55	114	40.59	5.66	119
	0	46.05	4.80	94	44.08	4.92	99	42.13	5.04	103	40.18	5.14	108	38.24	5.24	113	36.31	5.33	117

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R404a MEDIUM/HIGH TEMPERATURE (Continued)**

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0704</b>	35	104.81	7.70	107	100.21	7.95	111	95.61	8.20	115	91.01	8.43	120	86.43	8.66	124	81.86	8.88	128
	30	96.35	7.40	105	92.16	7.63	109	87.97	7.86	114	83.78	8.07	118	79.59	8.28	122	75.43	8.48	127
	25	88.28	7.10	103	84.48	7.32	108	80.67	7.53	112	76.86	7.72	116	73.06	7.91	121	69.27	8.09	125
	20	80.60	6.81	101	77.17	7.01	106	73.73	7.19	110	70.28	7.37	115	66.83	7.54	119	63.39	7.70	124
<b>2DA-075L</b>	15	73.33	6.51	100	70.24	6.70	104	67.14	6.87	109	64.03	7.03	113	60.91	7.18	118	57.79	7.32	122
	10	66.49	6.22	98	63.71	6.39	103	60.92	6.54	107	58.11	6.68	112	55.29	6.81	116	52.47	6.94	121
	5	60.07	5.93	97	57.58	6.08	101	55.07	6.21	106	52.53	6.34	110	49.98	6.46	115	47.43	6.56	119
	0	54.08	5.64	95	51.85	5.77	100	49.58	5.89	104	47.28	6.00	109	44.97	6.10	114	42.65	6.19	118
<b>H0724</b>	35	123.20	9.00	107	117.72	9.33	111	112.40	9.65	115	107.21	9.96	119	102.10	10.26	124	97.04	10.55	128
	30	113.26	8.69	105	108.27	8.99	109	103.44	9.29	113	98.74	9.58	118	94.12	9.86	122	89.54	10.13	127
	25	103.70	8.37	103	99.18	8.65	107	94.82	8.93	112	90.59	9.20	116	86.44	9.46	121	82.32	9.71	125
	20	94.56	8.04	101	90.48	8.30	106	86.57	8.56	110	82.79	8.81	115	79.08	9.05	119	75.39	9.28	124
<b>3DA-075L</b>	15	85.86	7.70	99	82.21	7.94	104	78.72	8.18	108	75.35	8.41	113	72.05	8.63	118	68.77	8.84	122
	10	77.62	7.36	98	74.37	7.58	102	71.28	7.80	107	68.30	8.01	112	65.38	8.21	116	62.47	8.40	121
	5	69.88	7.01	96	67.00	7.21	101	64.27	7.41	106	61.64	7.60	110	59.07	7.78	115	56.50	7.95	120
	0	62.66	6.66	95	60.11	6.84	99	57.70	7.01	104	55.40	7.18	109	53.14	7.35	114	50.86	7.50	118
<b>H1024</b>	35	141.39	11.23	110	135.28	11.61	114	129.20	11.98	118	123.12	12.34	122	117.05	12.70	127	110.98	13.05	131
	30	130.41	10.80	108	124.86	11.15	112	119.31	11.50	116	113.78	11.84	121	108.25	12.18	125	102.72	12.50	129
	25	119.88	10.37	106	114.85	10.70	110	109.83	11.02	114	104.81	11.34	119	99.80	11.65	123	94.78	11.95	128
	20	109.82	9.93	104	105.27	10.24	108	100.74	10.54	113	96.22	10.83	117	91.69	11.12	122	87.16	11.39	126
<b>3DB-100L</b>	15	100.22	9.50	102	96.14	9.78	106	92.07	10.06	111	88.01	10.33	115	83.93	10.59	120	79.85	10.84	124
	10	91.11	9.06	100	87.46	9.32	105	83.81	9.57	109	80.17	9.81	114	76.51	10.05	118	72.84	10.28	123
	5	82.49	8.61	99	79.23	8.85	103	75.97	9.08	108	72.70	9.30	112	69.42	9.51	117	66.12	9.72	122
	0	74.36	8.17	97	71.44	8.38	102	68.52	8.59	106	65.59	8.79	111	62.65	8.98	116	59.68	9.15	120

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1204</b>	35	173.80	14.42	110	166.11	14.87	115	158.47	15.31	119	150.87	15.74	123	143.30	16.16	127	135.76	16.57	131
	30	160.43	13.79	108	153.43	14.21	113	146.47	14.62	117	139.54	15.02	121	132.64	15.41	125	125.78	15.79	130
	25	147.56	13.17	106	141.20	13.56	111	134.89	13.94	115	128.61	14.31	119	122.36	14.67	124	116.14	15.02	128
	20	135.22	12.57	104	129.48	12.92	109	123.78	13.27	113	118.11	13.61	118	112.47	13.94	122	106.86	14.27	126
<b>3DF-120L</b>	15	123.44	11.97	103	118.28	12.30	107	113.15	12.62	111	108.06	12.93	116	103.00	13.24	120	97.95	13.53	125
	10	112.25	11.39	101	107.63	11.69	105	103.04	11.99	110	98.48	12.27	114	93.94	12.55	119	89.42	12.81	123
	5	101.69	10.82	99	97.55	11.09	104	93.45	11.36	108	89.37	11.62	113	85.32	11.87	117	81.28	12.11	122
	0	91.77	10.25	97	88.07	10.50	102	84.40	10.74	107	80.75	10.97	111	77.13	11.20	116	73.51	11.42	121
<b>H1464</b>	35	197.33	15.68	108	188.67	16.20	112	180.06	16.70	117	171.49	17.18	121	162.96	17.66	125	154.47	18.13	129
	30	181.79	15.02	106	173.90	15.50	110	166.07	15.96	115	158.27	16.41	119	150.52	16.86	123	142.80	17.29	128
	25	166.88	14.37	104	159.74	14.81	109	152.64	15.24	113	145.58	15.66	117	138.56	16.07	122	131.57	16.46	126
	20	152.64	13.73	102	146.20	14.14	107	139.80	14.53	111	133.44	14.92	116	127.11	15.29	120	120.82	15.66	125
<b>3DS-150L</b>	15	139.10	13.10	101	133.31	13.48	105	127.57	13.84	110	121.86	14.19	114	116.19	14.53	119	110.54	14.87	123
	10	126.30	12.48	99	121.11	12.82	104	115.97	13.15	108	110.86	13.48	113	105.79	13.79	117	100.73	14.09	122
	5	114.24	11.87	97	109.61	12.18	102	105.02	12.48	107	100.46	12.77	111	95.93	13.05	116	91.41	13.33	120
	0	102.96	11.26	96	98.82	11.54	101	94.72	11.81	105	90.65	12.07	110	86.60	12.33	115	82.56	12.58	119
<b>H1964</b>	35	221.23	15.46	104	210.91	15.99	108	200.61	16.48	112	190.33	16.96	116	180.11	17.41	121	169.95	17.84	125
	30	203.61	14.94	102	194.06	15.43	106	184.51	15.88	111	175.01	16.31	115	165.55	16.71	119	156.15	17.10	124
	25	186.50	14.42	100	177.69	14.87	105	168.89	15.28	109	160.13	15.66	113	151.41	16.02	118	142.75	16.36	122
	20	170.00	13.90	99	161.91	14.30	103	153.82	14.67	108	145.77	15.01	112	137.77	15.32	116	129.83	15.62	121
<b>4DA-200L</b>	15	154.18	13.37	97	146.78	13.73	102	139.39	14.06	106	132.02	14.35	111	124.70	14.62	115	117.46	14.87	120
	10	139.13	12.82	96	132.39	13.14	100	125.66	13.43	105	118.95	13.68	109	112.29	13.91	114	105.70	14.11	118
	5	124.94	12.24	94	118.83	12.53	99	112.73	12.78	104	106.64	12.99	108	100.61	13.17	113	94.65	13.34	117
	0	111.69	11.64	93	106.18	11.89	98	100.66	12.10	102	95.18	12.27	107	89.74	12.41	112	84.37	12.53	116

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R404a MEDIUM/HIGH TEMPERATURE (Continued)**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H2504</b>	35	265.84	20.94	108	254.04	21.61	112	242.48	22.26	116	231.12	22.88	121	219.92	23.47	125	208.85	24.05	129
	30	246.34	20.10	106	235.37	20.72	110	224.63	21.32	115	214.08	21.90	119	203.69	22.45	123	193.40	22.98	128
	25	226.92	19.25	104	216.77	19.83	108	206.84	20.38	113	197.10	20.91	117	187.50	21.42	122	178.00	21.91	126
	20	207.78	18.40	102	198.44	18.93	107	189.33	19.44	111	180.38	19.93	116	171.56	20.40	120	162.82	20.85	124
<b>4DH-250L</b>	15	189.14	17.57	101	180.61	18.05	105	172.29	18.52	109	164.13	18.96	114	156.08	19.39	118	148.09	19.81	123
	10	171.22	16.74	99	163.49	17.18	103	155.96	17.60	108	148.57	18.01	112	141.28	18.40	117	134.03	18.78	121
	5	154.26	15.93	97	147.32	16.32	102	140.57	16.70	106	133.95	17.07	111	127.40	17.43	116	120.87	17.77	120
	0	138.51	15.13	96	132.36	15.49	100	126.37	15.83	105	120.50	16.16	110	114.67	16.47	114	108.84	16.78	119
<b>H2824</b>	35	306.01	26.85	113	292.15	27.58	117	278.30	28.29	121	264.44	28.98	125	250.53	29.66	129	236.55	30.31	133
	30	283.13	25.62	111	270.35	26.30	115	257.60	26.96	119	244.85	27.60	123	232.06	28.22	127	219.20	28.83	131
	25	260.85	24.38	108	249.12	25.01	113	237.44	25.62	117	225.77	26.21	121	214.07	26.78	125	202.32	27.34	130
	20	239.23	23.14	106	228.52	23.72	111	217.88	24.28	115	207.26	24.83	119	196.63	25.35	124	185.94	25.86	128
<b>4DJ-300L</b>	15	218.37	21.91	104	208.64	22.45	109	198.99	22.96	113	189.39	23.45	117	179.78	23.93	122	170.14	24.39	126
	10	198.34	20.70	102	189.55	21.19	107	180.86	21.65	111	172.23	22.10	116	163.61	22.53	120	154.97	22.94	124
	5	179.23	19.51	100	171.33	19.95	105	163.55	20.37	109	155.84	20.77	114	148.17	21.15	118	140.48	21.52	123
	0	161.11	18.35	99	154.05	18.74	103	147.13	19.11	108	140.30	19.47	112	133.52	19.80	117	126.74	20.13	121

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0304</b>	45	60.80	3.65	105	58.72	3.80	110	56.67	3.95	114	54.65	4.09	118	52.65	4.22	123	50.67	4.35	127
	40	55.37	3.51	103	53.47	3.64	108	51.59	3.77	112	49.74	3.90	117	47.90	4.02	121	46.09	4.14	126
	35	50.24	3.36	101	48.51	3.48	106	46.80	3.60	110	45.11	3.72	115	43.43	3.83	119	41.77	3.94	124
	30	45.40	3.21	99	43.84	3.33	104	42.29	3.44	109	40.75	3.54	113	39.23	3.64	118	37.72	3.74	122
<b>2DF-030L</b>	25	40.85	3.07	98	39.45	3.17	102	38.05	3.27	107	36.67	3.37	112	35.29	3.46	116	33.92	3.54	121
	20	36.59	2.93	96	35.33	3.02	101	34.09	3.11	105	32.84	3.19	110	31.60	3.27	115	30.36	3.35	119
	15	32.60	2.78	94	31.49	2.87	99	30.38	2.94	104	29.27	3.02	109	28.16	3.09	113	27.04	3.16	118
	10	28.88	2.64	93	27.90	2.71	98	26.92	2.78	102	25.94	2.85	107	24.95	2.91	112	23.95	2.97	117
<b>H0504</b>	45	73.20	4.83	111	70.71	5.00	115	68.24	5.17	119	65.79	5.34	124	63.35	5.49	128	60.94	5.65	133
	40	66.84	4.60	108	64.55	4.76	113	62.28	4.92	117	60.02	5.07	122	57.78	5.21	126	55.56	5.35	130
	35	60.79	4.39	106	58.70	4.53	110	56.62	4.68	115	54.56	4.81	119	52.51	4.94	124	50.46	5.07	128
	30	55.05	4.18	104	53.16	4.31	108	51.27	4.44	113	49.39	4.56	117	47.52	4.68	122	45.65	4.80	126
<b>2DA-060L</b>	25	49.63	3.97	102	47.92	4.10	106	46.22	4.21	111	44.52	4.32	115	42.82	4.43	120	41.12	4.53	124
	20	44.53	3.77	100	43.00	3.88	104	41.47	3.99	109	39.94	4.09	113	38.40	4.18	118	36.86	4.27	123
	15	39.75	3.57	98	38.38	3.67	102	37.02	3.77	107	35.65	3.86	112	34.27	3.94	116	32.88	4.02	121
	10	35.27	3.37	96	34.07	3.46	101	32.86	3.55	105	31.64	3.63	110	30.40	3.70	115	29.15	3.77	119
<b>H0524</b>	45	75.93	5.11	112	73.34	5.29	116	70.76	5.47	121	68.21	5.64	125	65.68	5.80	129	63.16	5.96	134
	40	69.39	4.87	109	67.00	5.03	114	64.64	5.19	118	62.29	5.35	123	59.95	5.50	127	57.63	5.64	131
	35	63.16	4.63	107	60.98	4.79	111	58.81	4.93	116	56.66	5.08	120	54.51	5.21	125	52.38	5.34	129
	30	57.25	4.41	105	55.26	4.55	109	53.29	4.68	114	51.33	4.81	118	49.37	4.93	123	47.42	5.05	127
<b>2DB-060L</b>	25	51.65	4.19	103	49.86	4.32	107	48.08	4.44	112	46.30	4.55	116	44.53	4.66	121	42.75	4.77	125
	20	46.38	3.98	101	44.78	4.09	105	43.18	4.20	110	41.57	4.30	114	39.97	4.40	119	38.35	4.49	123
	15	41.43	3.76	99	40.00	3.87	103	38.57	3.96	108	37.14	4.06	113	35.69	4.14	117	34.23	4.23	122
	10	36.79	3.55	97	35.53	3.65	101	34.26	3.73	106	32.98	3.82	111	31.69	3.89	115	30.38	3.97	120

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE (Continued)**

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0604</b>	45	87.41	5.92	111	84.49	6.15	115	81.61	6.37	119	78.76	6.59	124	75.96	6.81	128	73.19	7.02	133
	40	79.86	5.67	108	77.18	5.88	113	74.54	6.09	117	71.93	6.29	122	69.37	6.49	126	66.83	6.68	131
	35	72.69	5.42	106	70.25	5.62	110	67.84	5.80	115	65.46	5.99	120	63.12	6.17	124	60.79	6.34	129
	30	65.91	5.18	104	63.69	5.35	108	61.50	5.52	113	59.34	5.69	117	57.20	5.85	122	55.08	6.01	127
<b>3DA-060L</b>	25	59.52	4.94	102	57.51	5.09	106	55.53	5.25	111	53.57	5.39	116	51.62	5.54	120	49.69	5.67	125
	20	53.51	4.69	100	51.70	4.83	104	49.91	4.97	109	48.13	5.10	114	46.35	5.22	118	44.59	5.34	123
	15	47.87	4.45	98	46.24	4.57	103	44.62	4.69	107	43.00	4.80	112	41.39	4.91	117	39.77	5.01	121
	10	42.59	4.20	96	41.12	4.31	101	39.65	4.41	106	38.18	4.51	110	36.71	4.59	115	35.22	4.67	120
<b>H0734</b>	45	100.81	7.12	113	97.39	7.38	117	94.01	7.64	122	90.65	7.89	126	87.32	8.14	130	84.02	8.39	135
	40	92.16	6.80	110	89.04	7.05	115	85.95	7.28	119	82.88	7.52	124	79.84	7.74	128	76.82	7.97	133
	35	83.95	6.50	108	81.11	6.72	112	78.30	6.94	117	75.51	7.15	121	72.74	7.35	126	69.99	7.55	130
	30	76.18	6.20	106	73.61	6.40	110	71.06	6.59	115	68.53	6.78	119	66.01	6.97	124	63.51	7.15	128
<b>3DB-075L</b>	25	68.85	5.90	104	66.52	6.08	108	64.22	6.25	113	61.93	6.42	117	59.64	6.59	122	57.37	6.74	126
	20	61.94	5.60	101	59.85	5.76	106	57.77	5.92	111	55.69	6.07	115	53.62	6.21	120	51.55	6.34	124
	15	55.46	5.30	99	53.58	5.44	104	51.69	5.58	109	49.81	5.71	113	47.93	5.83	118	46.04	5.94	123
	10	49.39	5.00	98	47.68	5.12	102	45.98	5.24	107	44.26	5.35	112	42.54	5.45	116	40.81	5.54	121
<b>H0934</b>	45	119.49	8.68	112	115.47	8.97	116	111.50	9.27	121	107.59	9.57	125	103.78	9.87	130	100.07	10.17	134
	40	109.26	8.27	109	105.55	8.54	114	101.88	8.81	118	98.27	9.09	123	94.74	9.36	127	91.31	9.63	132
	35	99.62	7.88	107	96.21	8.13	112	92.83	8.38	116	89.50	8.63	121	86.25	8.88	125	83.08	9.12	130
	30	90.54	7.51	105	87.42	7.74	109	84.32	7.97	114	81.27	8.19	118	78.28	8.41	123	75.37	8.62	128
<b>3DF-090L</b>	25	81.99	7.15	103	79.15	7.36	107	76.32	7.56	112	73.53	7.76	116	70.79	7.95	121	68.12	8.13	126
	20	73.95	6.79	101	71.37	6.98	105	68.79	7.16	110	66.24	7.33	115	63.73	7.49	119	61.30	7.65	124
	15	66.35	6.43	99	64.02	6.59	104	61.68	6.75	108	59.36	6.89	113	57.07	7.03	117	54.84	7.15	122
	10	59.16	6.06	97	57.06	6.20	102	54.94	6.33	106	52.82	6.45	111	50.73	6.55	116	48.69	6.65	120

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAND DISCUS COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1064</b>	45	134.51	9.43	110	130.06	9.76	114	125.65	10.09	119	121.28	10.42	123	116.97	10.75	128	112.73	11.09	132
	40	122.71	9.01	108	118.61	9.32	112	114.54	9.62	117	110.52	9.92	121	106.54	10.23	126	102.64	10.53	130
	35	111.62	8.60	105	107.87	8.89	110	104.13	9.17	114	100.43	9.44	119	96.78	9.72	123	93.20	9.99	128
	30	101.21	8.21	103	97.79	8.47	108	94.37	8.72	112	90.99	8.97	117	87.65	9.21	121	84.37	9.46	126
<b>3DS-100L</b>	25	91.45	7.82	101	88.34	8.06	106	85.23	8.28	110	82.14	8.50	115	79.09	8.72	120	76.10	8.93	124
	20	82.30	7.43	99	79.48	7.65	104	76.66	7.85	109	73.85	8.04	113	71.07	8.22	118	68.35	8.39	123
	15	73.71	7.04	98	71.16	7.23	102	68.60	7.40	107	66.05	7.56	112	63.53	7.72	116	61.06	7.86	121
	10	65.62	6.64	96	63.32	6.81	101	61.01	6.95	105	58.70	7.08	110	56.41	7.20	115	54.17	7.31	119
<b>H1414</b>	45	194.19	13.30	112	187.26	13.79	116	180.11	14.26	120	172.71	14.71	124	165.03	15.13	129	157.05	15.53	133
	40	178.40	12.62	109	172.22	13.08	114	165.85	13.51	118	159.25	13.93	122	152.38	14.32	127	145.22	14.68	131
	35	162.44	11.95	107	156.97	12.37	111	151.33	12.78	116	145.48	13.16	120	139.39	13.52	125	133.02	13.85	129
	30	146.60	11.30	104	141.77	11.69	109	136.80	12.06	114	131.66	12.41	118	126.30	12.73	122	120.68	13.03	127
<b>4DH-150L</b>	25	131.18	10.67	102	126.92	11.02	107	122.56	11.36	111	118.06	11.67	116	113.37	11.97	120	108.46	12.24	125
	20	116.49	10.06	100	112.72	10.38	105	108.91	10.68	109	104.98	10.97	114	100.91	11.23	118	96.63	11.47	123
	15	102.85	9.47	98	99.50	9.76	103	96.15	10.03	107	92.73	10.28	112	89.20	10.52	117	85.51	10.73	121
	10	90.58	8.91	96	87.57	9.16	101	84.61	9.40	105	81.63	9.63	110	78.57	9.83	115	75.38	10.02	120
<b>H1914</b>	45	228.86	16.08	113	220.57	16.65	117	212.01	17.20	122	203.15	17.72	126	193.95	18.21	130	184.40	18.67	134
	40	210.52	15.24	111	203.13	15.77	115	195.50	16.28	119	187.58	16.76	124	179.35	17.22	128	170.77	17.64	132
	35	191.92	14.41	108	185.37	14.91	113	178.61	15.38	117	171.60	15.82	121	164.30	16.24	126	156.66	16.62	130
	30	173.39	13.61	106	167.61	14.07	110	161.67	14.50	115	155.50	14.91	119	149.07	15.29	124	142.33	15.63	128
<b>4DJ-200L</b>	25	155.29	12.84	103	150.21	13.25	108	145.00	13.64	112	139.61	14.02	117	133.98	14.36	121	128.08	14.67	126
	20	138.01	12.09	101	133.53	12.46	106	128.97	12.82	110	124.28	13.15	115	119.39	13.46	119	114.26	13.74	124
	15	121.93	11.37	99	117.96	11.71	103	113.96	12.03	108	109.88	12.33	113	105.65	12.60	117	101.21	12.85	122
	10	107.44	10.68	97	103.88	10.98	102	100.36	11.27	106	96.80	11.53	111	93.14	11.77	116	89.32	11.99	120

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAND DISCUS COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE (Continued)**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H2314</b>	45	289.81	20.05	112	279.41	20.79	117	268.67	21.49	121	257.55	22.15	125	246.01	22.78	129	234.03	23.36	133
	40	266.38	19.02	110	257.11	19.70	114	247.54	20.35	119	237.62	20.97	123	227.29	21.54	127	216.54	22.08	131
	35	242.68	18.00	107	234.46	18.63	112	225.99	19.23	116	217.20	19.80	121	208.04	20.33	125	198.46	20.82	129
	30	219.11	17.01	105	211.86	17.59	109	204.40	18.14	114	196.67	18.66	118	188.61	19.15	123	180.16	19.59	127
<b>6DH-200L</b>	25	196.14	16.06	103	189.74	16.58	107	183.20	17.08	112	176.44	17.55	116	169.40	17.99	121	162.00	18.40	125
	20	174.23	15.13	100	168.58	15.60	105	162.85	16.06	110	156.97	16.48	114	150.84	16.88	119	144.41	17.24	123
	15	153.86	14.24	98	148.85	14.67	103	143.83	15.07	108	138.70	15.45	112	133.40	15.80	117	127.84	16.12	122
	10	135.54	13.39	96	131.04	13.76	101	126.60	14.13	106	122.13	14.46	110	117.54	14.77	115	112.75	15.05	120
<b>H2814</b>	45	334.94	24.70	116	322.44	25.53	120	309.52	26.31	124	296.15	27.05	128	282.29	27.74	132	267.91	28.38	136
	40	308.89	23.36	113	297.74	24.13	118	286.21	24.86	122	274.24	25.55	126	261.81	26.19	130	248.87	26.78	134
	35	282.26	22.05	111	272.39	22.77	115	262.18	23.44	119	251.57	24.08	124	240.51	24.67	128	228.96	25.21	132
	30	255.56	20.78	108	246.86	21.44	113	237.88	22.06	117	228.55	22.65	121	218.81	23.19	126	208.59	23.68	130
<b>6DJ-300L</b>	25	229.32	19.55	105	221.69	20.16	110	213.83	20.73	114	205.68	21.26	119	197.16	21.75	123	188.21	22.20	128
	20	204.14	18.38	103	197.42	18.92	108	190.57	19.44	112	183.48	19.93	117	176.09	20.37	121	168.31	20.77	126
	15	180.59	17.25	101	174.67	17.74	105	168.68	18.21	110	162.53	18.65	114	156.14	19.04	119	149.42	19.39	124
	10	159.30	16.18	98	154.02	16.62	103	148.76	17.04	108	143.42	17.42	112	137.90	17.77	117	132.12	18.08	122

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR COPELAWELD HERMETIC COMPRESSORS R22 HIGH TEMPERATURE

HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0152 CRA-0150</b>	45	20.65	1.65	115	19.78	1.69	119	18.92	1.73	123	18.05	1.76	127	17.19	1.80	131	16.33	1.82	135
	40	18.62	1.57	112	17.81	1.60	116	17.00	1.64	120	16.19	1.67	124	15.38	1.69	128	14.58	1.71	132
	35	16.68	1.48	109	15.91	1.51	113	15.15	1.54	117	14.40	1.57	121	13.65	1.59	126	12.90	1.60	130
	30	14.82	1.40	106	14.10	1.43	110	13.39	1.45	115	12.69	1.47	119	12.00	1.48	123	11.30	1.50	127
<b>H0202 CRD-0200</b>	45	28.77	2.11	110	27.61	2.18	114	26.45	2.23	118	25.30	2.29	122	24.16	2.33	127	23.02	2.38	131
	40	25.96	2.02	107	24.88	2.08	111	23.81	2.13	116	22.74	2.18	120	21.69	2.22	124	20.64	2.26	128
	35	23.30	1.93	105	22.30	1.98	109	21.31	2.03	113	20.32	2.07	118	19.35	2.10	122	18.38	2.14	126
	30	20.78	1.84	102	19.86	1.88	107	18.94	1.92	111	18.03	1.96	115	17.13	1.99	120	16.25	2.02	124
<b>H0252 CRG-0250</b>	45	39.34	2.87	110	37.70	2.94	114	36.06	3.02	118	34.44	3.09	122	32.83	3.15	126	31.22	3.22	131
	40	35.36	2.73	107	33.83	2.80	111	32.31	2.86	115	30.80	2.93	120	29.31	2.99	124	27.83	3.04	128
	35	31.61	2.60	105	30.18	2.66	109	28.77	2.72	113	27.37	2.77	117	25.99	2.82	122	24.63	2.87	126
	30	28.09	2.48	102	26.76	2.53	106	25.46	2.58	111	24.17	2.63	115	22.90	2.67	119	21.66	2.71	124
<b>H0312 CRJ-0300</b>	45	45.90	3.33	109	43.97	3.42	114	42.06	3.51	118	40.15	3.59	122	38.26	3.68	126	36.38	3.76	130
	40	41.24	3.16	107	39.45	3.24	111	37.68	3.32	115	35.91	3.40	120	34.17	3.48	124	32.44	3.55	128
	35	36.86	3.00	104	35.19	3.08	109	33.55	3.15	113	31.93	3.22	117	30.32	3.29	121	28.74	3.35	126
	30	32.75	2.85	102	31.21	2.92	106	29.69	2.99	111	28.20	3.05	115	26.73	3.11	119	25.29	3.16	124
<b>H0352 CRL-0350</b>	45	58.98	4.08	105	56.73	4.20	109	54.43	4.31	114	52.10	4.41	118	49.74	4.50	122	47.36	4.58	127
	40	53.23	3.88	103	51.11	3.99	107	48.96	4.09	112	46.78	4.18	116	44.57	4.25	120	42.36	4.32	125
	35	47.65	3.68	101	45.66	3.77	105	43.66	3.86	109	41.63	3.94	114	39.58	4.00	118	37.53	4.06	123
	30	42.27	3.47	99	40.43	3.55	103	38.57	3.63	107	36.69	3.69	112	34.81	3.75	116	32.94	3.80	121
<b>H0402 CRM-0400</b>	45	63.04	4.66	107	60.83	4.81	111	58.60	4.94	116	56.34	5.06	120	54.05	5.17	125	51.73	5.27	129
	40	57.30	4.47	105	55.26	4.60	109	53.19	4.72	114	51.10	4.83	118	48.97	4.92	123	46.81	5.01	127
	35	51.78	4.26	103	49.90	4.38	107	47.98	4.49	112	46.04	4.58	116	44.06	4.66	121	42.04	4.73	125
	30	46.49	4.06	101	44.75	4.16	105	42.97	4.25	110	41.16	4.33	114	39.32	4.40	119	37.44	4.45	123

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
COPELAWELD HERMETIC COMPRESSORS  
R22 HIGH TEMPERATURE (Continued)**

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HICA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0502 CRN-0500</b>	45	71.74	5.58	111	69.21	5.77	115	66.68	5.94	120	64.16	6.11	124	61.63	6.26	128	59.11	6.41	133
	40	65.32	5.35	109	63.00	5.51	113	60.67	5.67	117	58.34	5.82	122	56.02	5.95	126	53.69	6.08	131
	35	59.25	5.11	106	57.11	5.26	111	54.96	5.40	115	52.82	5.53	120	50.68	5.64	124	48.53	5.75	128
	30	53.50	4.88	104	51.53	5.00	109	49.56	5.12	113	47.58	5.23	117	45.60	5.33	122	43.62	5.42	126
<b>H0752 BRE-0750</b>	45	107.83	8.84	116	103.58	9.04	121	99.35	9.23	125	95.14	9.40	129	90.94	9.55	133	86.76	9.68	137
	40	97.96	8.34	113	93.99	8.52	118	90.04	8.69	122	86.12	8.84	126	82.22	8.98	130	78.35	9.09	134
	35	88.56	7.86	111	84.85	8.02	115	81.17	8.17	119	77.51	8.30	123	73.89	8.42	127	70.29	8.52	131
	30	79.65	7.40	108	76.17	7.54	112	72.73	7.67	116	69.31	7.78	120	65.94	7.87	125	62.59	7.95	129
<b>H0902 BRG-0900</b>	45	129.32	9.54	109	124.48	9.81	113	119.66	10.06	118	114.87	10.30	122	110.11	10.52	126	105.37	10.73	131
	40	117.28	9.07	107	112.83	9.31	111	108.40	9.55	115	103.99	9.77	120	99.60	9.97	124	95.23	10.15	128
	35	105.91	8.61	104	101.82	8.84	109	97.75	9.05	113	93.69	9.25	118	89.64	9.42	122	85.61	9.58	126
	30	95.19	8.17	102	91.44	8.38	107	87.69	8.57	111	83.95	8.74	116	80.21	8.89	120	76.48	9.03	124

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR CARLYLE COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0317</b>	45	43.66	2.74	112	42.27	2.90	117	40.88	3.04	121	39.48	3.18	125	38.08	3.31	130	36.66	3.44	134
	40	39.95	2.68	110	38.66	2.82	114	37.36	2.95	119	36.06	3.07	123	34.75	3.19	128	33.44	3.30	132
	35	36.38	2.61	107	35.18	2.74	112	33.98	2.86	116	32.77	2.97	121	31.56	3.07	125	30.33	3.17	130
	30	32.96	2.55	105	31.86	2.66	110	30.74	2.76	114	29.62	2.86	119	28.49	2.95	123	27.35	3.03	128
<b>06DM-808</b>	25	29.71	2.48	103	28.69	2.58	108	27.65	2.67	112	26.61	2.75	117	25.57	2.82	121	24.52	2.89	126
	20	26.64	2.41	101	25.69	2.49	106	24.73	2.57	110	23.77	2.63	115	22.80	2.69	119	21.83	2.75	124
	15	23.75	2.33	99	22.86	2.40	104	21.98	2.46	108	21.08	2.51	113	20.19	2.56	118	19.29	2.60	122
	10	21.06	2.24	97	20.23	2.29	102	19.40	2.34	107	18.58	2.39	111	17.75	2.42	116	16.92	2.45	120
<b>H0457</b>	45	70.83	4.29	109	68.39	4.50	114	65.96	4.70	118	63.52	4.89	122	61.09	5.07	127	58.67	5.24	131
	40	64.48	4.18	107	62.22	4.37	111	59.95	4.55	116	57.70	4.72	120	55.44	4.88	125	53.19	5.02	129
	35	58.40	4.08	105	56.30	4.25	109	54.20	4.40	114	52.11	4.55	118	50.02	4.69	123	47.94	4.82	127
	30	52.61	3.97	103	50.66	4.12	107	48.72	4.26	112	46.78	4.38	116	44.85	4.50	121	42.93	4.61	125
<b>06DM-313</b>	25	47.13	3.85	101	45.33	3.98	105	43.53	4.10	110	41.74	4.21	114	39.96	4.31	119	38.18	4.39	123
	20	41.98	3.73	99	40.31	3.84	103	38.64	3.94	108	36.99	4.03	112	35.34	4.11	117	33.71	4.18	121
	15	37.17	3.60	97	35.62	3.69	102	34.08	3.77	106	32.56	3.84	111	31.04	3.90	115	29.54	3.95	120
	10	32.72	3.45	95	31.29	3.53	100	29.86	3.59	104	28.46	3.65	109	27.06	3.69	114	25.68	3.72	118
<b>H0527</b>	45	86.31	5.91	110	83.33	6.21	115	80.35	6.49	119	77.37	6.78	124	74.39	7.05	128	71.41	7.32	133
	40	78.96	5.65	108	76.21	5.92	112	73.47	6.18	117	70.73	6.44	121	68.00	6.69	126	65.27	6.93	130
	35	71.88	5.39	106	69.35	5.64	110	66.83	5.88	115	64.31	6.11	119	61.81	6.33	124	59.31	6.55	128
	30	65.09	5.15	104	62.77	5.37	108	60.45	5.59	113	58.14	5.80	117	55.85	5.99	122	53.56	6.18	126
<b>06DM-316</b>	25	58.63	4.91	102	56.49	5.11	106	54.37	5.30	111	52.25	5.49	115	50.15	5.66	120	48.06	5.83	124
	20	52.52	4.67	100	50.56	4.85	104	48.61	5.02	109	46.67	5.18	113	44.75	5.34	118	42.84	5.48	123
	15	46.79	4.44	98	44.98	4.59	102	43.20	4.74	107	41.42	4.88	112	39.67	5.01	116	37.93	5.13	121
	10	41.45	4.20	96	39.80	4.33	101	38.16	4.46	105	36.54	4.58	110	34.93	4.69	115	33.35	4.78	119

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
CARLYLE COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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Revision J  
November, 1997

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0677</b>	45	113.51	7.40	110	110.15	7.78	114	106.80	8.15	119	103.47	8.52	123	100.16	8.88	128	96.87	9.24	133
	40	104.22	7.15	108	101.13	7.50	112	98.06	7.85	117	95.00	8.19	121	91.96	8.53	126	88.94	8.86	131
	35	95.29	6.91	105	92.46	7.23	110	89.64	7.56	115	86.85	7.88	119	84.07	8.19	124	81.31	8.50	129
	30	86.75	6.67	103	84.17	6.98	108	81.60	7.28	113	79.05	7.57	118	76.51	7.87	122	73.99	8.15	127
<b>06DR-820</b>	25	78.64	6.44	102	76.28	6.72	106	73.94	7.00	111	71.62	7.28	116	69.32	7.55	120	67.02	7.81	125
	20	70.98	6.22	100	68.84	6.48	105	66.71	6.73	109	64.60	6.98	114	62.51	7.23	119	60.44	7.48	123
	15	63.79	5.99	98	61.85	6.23	103	59.93	6.46	108	58.02	6.70	112	56.13	6.92	117	54.25	7.15	122
	10	57.11	5.76	96	55.36	5.98	101	53.62	6.19	106	51.90	6.41	111	50.19	6.61	116	48.50	6.82	120
<b>H0687</b>	45	137.03	8.77	110	132.57	9.19	114	128.13	9.60	119	123.70	10.00	123	119.29	10.40	128	114.90	10.80	132
	40	125.25	8.45	108	121.13	8.84	112	117.04	9.23	117	112.97	9.60	121	108.92	9.97	126	104.89	10.34	130
	35	113.94	8.14	106	110.16	8.50	110	106.39	8.86	115	102.65	9.21	119	98.93	9.55	124	95.24	9.89	128
	30	103.16	7.84	103	99.68	8.18	108	96.22	8.50	113	92.79	8.83	117	89.39	9.14	122	86.01	9.45	126
<b>06DR-724</b>	25	92.95	7.54	101	89.75	7.85	106	86.58	8.15	111	83.44	8.45	115	80.32	8.73	120	77.23	9.01	125
	20	83.34	7.25	99	80.41	7.53	104	77.50	7.80	109	74.63	8.07	113	71.78	8.33	118	68.96	8.58	123
	15	74.38	6.95	98	71.69	7.20	102	69.03	7.45	107	66.40	7.69	112	63.80	7.92	116	61.24	8.15	121
	10	66.09	6.65	96	63.63	6.88	101	61.20	7.10	105	58.80	7.31	110	56.43	7.52	115	54.10	7.71	120
<b>H0767</b>	45	156.52	10.64	113	151.44	11.12	118	146.41	11.58	122	141.41	12.04	126	136.45	12.48	131	131.53	12.92	135
	40	143.37	10.20	111	138.71	10.64	115	134.08	11.07	120	129.50	11.50	124	124.97	11.91	129	120.47	12.32	133
	35	130.72	9.78	108	126.44	10.19	113	122.20	10.59	117	118.01	10.98	122	113.87	11.36	126	109.77	11.74	131
	30	118.61	9.38	106	114.69	9.75	110	110.82	10.12	115	107.00	10.48	120	103.22	10.83	124	99.49	11.18	129
<b>06DR-228</b>	25	107.12	8.99	104	103.53	9.33	108	100.00	9.67	113	96.52	10.00	118	93.08	10.32	122	89.70	10.63	127
	20	96.29	8.60	102	93.02	8.92	106	89.80	9.23	111	86.63	9.52	116	83.51	9.81	120	80.44	10.10	125
	15	86.18	8.22	100	83.20	8.51	104	80.28	8.79	109	77.40	9.06	114	74.57	9.32	118	71.79	9.57	123
	10	76.83	7.84	98	74.13	8.10	103	71.48	8.35	107	68.87	8.59	112	66.31	8.82	117	63.80	9.05	121

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR CARLYLE COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1027</b>	45	201.33	14.61	113	194.79	15.35	118	188.31	16.06	122	181.88	16.75	127	175.51	17.41	131	169.19	18.06	136
	40	184.80	13.95	111	178.77	14.63	115	172.79	15.29	120	166.86	15.92	124	160.99	16.53	129	155.16	17.13	133
	35	168.85	13.33	108	163.31	13.95	113	157.81	14.56	117	152.36	15.14	122	146.96	15.70	127	141.61	16.24	131
	30	153.54	12.74	106	148.46	13.31	111	143.42	13.86	115	138.43	14.39	120	133.49	14.90	124	128.59	15.39	129
<b>06DM-337</b>	25	138.94	12.17	104	134.29	12.69	108	129.69	13.18	113	125.14	13.66	118	120.63	14.12	122	116.16	14.56	127
	20	125.10	11.62	102	120.87	12.08	106	116.68	12.53	111	112.54	12.96	116	108.44	13.37	120	104.38	13.76	125
	15	112.09	11.07	100	108.25	11.48	105	104.45	11.88	109	100.69	12.26	114	96.97	12.63	119	93.30	12.97	123
	10	99.97	10.51	98	96.49	10.88	103	93.05	11.23	107	89.65	11.57	112	86.29	11.89	117	82.98	12.19	122

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR CARLYLE COMPRESSORS R404a LOW TEMPERATURE

HICA Model Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0227</b>	-15	15.79	2.12	93	15.11	2.15	98	14.43	2.17	103	13.75	2.19	107	13.07	2.21	112	12.39	2.23	117
	-20	13.85	1.97	92	13.24	1.99	97	12.64	2.01	101	12.04	2.03	106	11.44	2.04	111	10.84	2.05	116
	-25	12.06	1.82	91	11.52	1.84	95	10.99	1.85	100	10.47	1.87	105	9.94	1.88	110	9.41	1.88	114
<b>06DR-109</b>	-30	10.43	1.68	90	9.96	1.70	94	9.49	1.71	99	9.03	1.71	104	8.57	1.72	109	8.11	1.72	113
	-35	8.95	1.55	88	8.54	1.56	93	8.13	1.56	98	7.72	1.57	103	7.32	1.57	107	6.92	1.57	112
	-40	7.62	1.42	87	7.25	1.42	92	6.89	1.43	97	6.54	1.43	102	6.19	1.43	107	5.84	1.43	111
<b>H0337</b>	-15	21.99	2.84	90	20.77	2.87	95	19.58	2.89	100	18.40	2.91	104	17.24	2.92	109	16.10	2.92	114
	-20	18.87	2.59	89	17.79	2.61	94	16.73	2.62	99	15.69	2.63	103	14.66	2.63	108	13.66	2.62	113
	-25	16.03	2.34	88	15.07	2.35	93	14.14	2.36	97	13.22	2.36	102	12.33	2.35	107	11.45	2.33	111
<b>06DR-013</b>	-30	13.47	2.11	87	12.63	2.11	92	11.81	2.10	96	11.00	2.09	101	10.22	2.07	106	9.45	2.05	111
	-35	11.18	1.88	86	10.44	1.87	91	9.72	1.86	95	9.02	1.84	100	8.33	1.81	105	7.66	1.78	110
	-40	9.15	1.65	85	8.50	1.64	90	7.87	1.62	94	7.25	1.59	99	6.65	1.56	104	6.07	1.52	109
<b>H0477</b>	-15	29.24	3.85	94	27.91	3.93	99	26.59	4.00	103	25.25	4.07	108	23.90	4.14	113	22.53	4.19	117
	-20	25.57	3.58	93	24.38	3.65	97	23.18	3.71	102	21.98	3.76	107	20.76	3.81	111	19.54	3.85	116
	-25	22.18	3.32	91	21.10	3.37	96	20.02	3.41	101	18.94	3.45	105	17.85	3.49	110	16.75	3.51	115
<b>06DR-316</b>	-30	19.05	3.05	90	18.08	3.09	95	17.10	3.12	99	16.13	3.15	104	15.15	3.16	109	14.17	3.17	113
	-35	16.18	2.79	89	15.30	2.82	93	14.42	2.84	98	13.55	2.85	103	12.67	2.85	108	11.79	2.84	112
	-40	13.56	2.54	87	12.76	2.55	92	11.97	2.55	97	11.18	2.55	102	10.39	2.53	106	9.61	2.51	111
<b>H0537</b>	-15	34.35	4.69	97	32.95	4.78	101	31.54	4.87	106	30.10	4.95	111	28.64	5.02	115	27.15	5.08	120
	-20	30.36	4.36	95	29.09	4.43	100	27.81	4.50	104	26.51	4.56	109	25.19	4.62	114	23.85	4.67	118
	-25	26.63	4.03	93	25.48	4.09	98	24.33	4.14	103	23.15	4.19	107	21.96	4.23	112	20.75	4.26	117
<b>06DR-718</b>	-30	23.15	3.71	92	22.12	3.75	97	21.07	3.79	101	20.02	3.82	106	18.94	3.84	111	17.85	3.86	115
	-35	19.94	3.39	90	19.00	3.42	95	18.05	3.44	100	17.10	3.46	105	16.13	3.46	109	15.14	3.46	114
	-40	16.97	3.08	89	16.11	3.10	94	15.25	3.11	99	14.39	3.11	103	13.51	3.10	108	12.62	3.08	113

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR CARLYLE COMPRESSORS R404a LOW TEMPERATURE (Continued)

HICA Model Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0677</b>	-15	37.93	5.14	98	36.25	5.24	103	34.55	5.32	108	32.84	5.40	112	31.11	5.47	117	29.36	5.53	121
	-20	33.39	4.77	96	31.87	4.84	101	30.34	4.91	106	28.80	4.97	110	27.25	5.03	115	25.68	5.07	119
	-25	29.15	4.40	95	27.78	4.46	99	26.41	4.51	104	25.02	4.56	109	23.63	4.59	113	22.22	4.62	118
<b>06DR-820</b>	-30	25.21	4.05	93	23.98	4.09	98	22.74	4.13	102	21.50	4.15	107	20.26	4.17	112	19.00	4.18	116
	-35	21.57	3.71	91	20.46	3.73	96	19.35	3.75	101	18.24	3.76	105	17.12	3.76	110	16.00	3.75	115
	-40	18.24	3.38	90	17.23	3.39	95	16.23	3.39	99	15.23	3.38	104	14.23	3.36	109	13.23	3.33	113
<b>H0687</b>	-15	41.92	5.66	97	39.96	5.73	101	37.99	5.79	106	35.99	5.84	110	33.99	5.88	115	31.97	5.91	119
	-20	36.71	5.21	95	34.92	5.26	100	33.13	5.30	104	31.33	5.34	109	29.52	5.35	113	27.69	5.36	118
	-25	31.83	4.77	93	30.22	4.81	98	28.59	4.83	102	26.97	4.84	107	25.33	4.84	112	23.68	4.83	116
<b>06DR-724</b>	-30	27.31	4.34	92	25.84	4.36	96	24.37	4.36	101	22.90	4.36	105	21.42	4.34	110	19.94	4.30	115
	-35	23.14	3.93	90	21.80	3.93	95	20.47	3.91	99	19.13	3.89	104	17.80	3.85	109	16.47	3.79	113
	-40	19.31	3.52	89	18.09	3.50	93	16.87	3.47	98	15.66	3.43	103	14.46	3.37	107	13.25	3.30	112
<b>H0767</b>	-15	51.76	7.15	99	49.58	7.28	104	47.36	7.39	109	45.09	7.49	113	42.77	7.56	118	40.40	7.62	122
	-20	45.78	6.62	97	43.79	6.72	102	41.76	6.80	107	39.69	6.86	111	37.57	6.90	116	35.41	6.92	120
	-25	40.14	6.09	96	38.32	6.16	100	36.46	6.20	105	34.56	6.23	109	32.62	6.24	114	30.64	6.23	118
<b>06DR-228</b>	-30	34.84	5.56	94	33.16	5.60	98	31.45	5.62	103	29.70	5.61	108	27.93	5.59	112	26.11	5.55	117
	-35	29.87	5.04	92	28.31	5.04	97	26.73	5.03	101	25.12	5.00	106	23.48	4.95	110	21.81	4.88	115
	-40	25.23	4.52	90	23.77	4.49	95	22.30	4.45	100	20.80	4.39	104	19.28	4.31	109	17.72	4.21	113
<b>H1107</b>	-15	69.28	9.53	98	66.09	9.69	102	62.92	9.85	107	59.78	9.99	111	56.66	10.13	116	53.56	10.26	121
	-20	61.66	8.80	96	58.81	8.94	101	55.99	9.07	105	53.19	9.19	110	50.42	9.31	114	47.66	9.42	119
	-25	54.61	8.10	94	52.08	8.22	99	49.57	8.33	104	47.09	8.43	108	44.63	8.53	113	42.18	8.62	118
<b>06DR-337</b>	-30	48.11	7.43	93	45.87	7.53	98	43.65	7.62	102	41.45	7.71	107	39.27	7.79	112	37.11	7.86	116
	-35	42.16	6.80	91	40.17	6.88	96	38.21	6.96	101	36.26	7.03	106	34.34	7.09	110	32.43	7.14	115
	-40	36.74	6.21	90	34.98	6.28	95	33.23	6.33	100	31.51	6.39	104	29.80	6.44	109	28.12	6.48	114

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HICA AIR-COOLED CONDENSING UNITS – INDOOR  
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R404a MEDIUM/HIGH TEMPERATURE**

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HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0317</b>	40	46.33	3.46	109	44.21	3.56	113	42.07	3.66	117	39.94	3.75	121	37.79	3.84	125	35.64	3.92	129
	35	42.39	3.32	106	40.43	3.42	111	38.47	3.50	115	36.51	3.59	119	34.54	3.67	123	32.56	3.74	128
	30	38.62	3.19	104	36.82	3.27	109	35.03	3.35	113	33.23	3.43	117	31.43	3.50	122	29.62	3.56	126
	25	35.02	3.06	102	33.38	3.13	107	31.74	3.20	111	30.10	3.27	115	28.46	3.33	120	26.81	3.38	124
<b>06DM-808</b>	20	31.61	2.93	101	30.11	2.99	105	28.62	3.05	109	27.13	3.11	114	25.63	3.16	118	24.14	3.20	122
	15	28.38	2.80	99	27.02	2.85	103	25.66	2.91	108	24.31	2.95	112	22.96	2.99	117	21.60	3.02	121
	10	25.34	2.67	97	24.10	2.72	102	22.87	2.76	106	21.65	2.79	111	20.43	2.82	115	19.21	2.85	119
<b>H0457</b>	40	72.92	5.06	110	69.47	5.21	114	66.01	5.35	118	62.52	5.49	122	59.02	5.62	126	55.49	5.74	130
	35	66.70	4.82	107	63.51	4.96	111	60.30	5.09	115	57.07	5.21	120	53.83	5.32	124	50.56	5.43	128
	30	60.73	4.59	105	57.77	4.71	109	54.81	4.82	113	51.82	4.93	118	48.83	5.03	122	45.81	5.13	126
	25	54.99	4.35	103	52.27	4.46	107	49.53	4.56	111	46.78	4.66	116	44.02	4.74	120	41.25	4.82	124
<b>06DM-313</b>	20	49.51	4.12	101	47.00	4.22	105	44.48	4.30	109	41.95	4.38	114	39.42	4.46	118	36.87	4.52	122
	15	44.30	3.89	99	41.98	3.97	103	39.67	4.05	108	37.35	4.11	112	35.02	4.17	116	32.68	4.21	121
	10	39.35	3.66	97	37.22	3.73	101	35.09	3.79	106	32.96	3.84	110	30.82	3.88	115	28.69	3.91	119
<b>H0527</b>	40	92.49	6.51	111	87.97	6.69	115	83.47	6.85	119	78.98	7.00	123	74.51	7.14	127	70.05	7.26	131
	35	84.52	6.29	109	80.35	6.45	113	76.20	6.61	117	72.08	6.75	121	67.96	6.88	125	63.86	6.99	129
	30	76.90	6.05	107	73.07	6.20	111	69.26	6.35	115	65.48	6.48	119	61.71	6.60	123	57.96	6.70	127
	25	69.62	5.79	104	66.12	5.94	109	62.64	6.07	113	59.19	6.19	117	55.76	6.29	121	52.34	6.38	125
<b>06DM-316</b>	20	62.71	5.53	102	59.52	5.66	107	56.36	5.78	111	53.22	5.88	115	50.10	5.97	119	47.00	6.04	124
	15	56.17	5.26	100	53.27	5.37	105	50.41	5.47	109	47.57	5.56	113	44.75	5.63	118	41.95	5.69	122
	10	50.01	4.99	98	47.39	5.08	103	44.79	5.16	107	42.23	5.23	112	39.69	5.28	116	37.17	5.32	120

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR CARLYLE COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0677</b>	40	121.13	8.70	111	116.27	9.05	115	111.32	9.41	119	106.30	9.75	124	101.18	10.09	128	95.97	10.42	132
	35	111.84	8.36	109	107.38	8.70	113	102.84	9.03	117	98.23	9.35	122	93.54	9.66	126	88.75	9.97	130
	30	102.90	8.04	107	98.82	8.35	111	94.68	8.65	116	90.47	8.95	120	86.17	9.24	124	81.80	9.51	129
	25	94.33	7.71	105	90.62	8.00	109	86.84	8.28	114	83.01	8.55	118	79.09	8.81	123	75.10	9.06	127
<b>06DR-820</b>	20	86.14	7.39	103	82.77	7.65	107	79.34	7.91	112	75.86	8.15	116	72.31	8.39	121	68.68	8.61	125
	15	78.34	7.06	101	75.28	7.30	106	72.18	7.53	110	69.03	7.75	115	65.81	7.96	119	62.53	8.16	124
	10	70.94	6.74	99	68.17	6.95	104	65.36	7.16	109	62.51	7.35	113	59.60	7.53	118	56.64	7.70	122
<b>H0687</b>	40	142.17	10.16	110	136.03	10.54	115	129.85	10.92	119	123.62	11.28	123	117.33	11.64	127	110.99	11.98	131
	35	130.72	9.79	108	125.08	10.15	113	119.40	10.50	117	113.68	10.84	121	107.91	11.17	125	102.08	11.48	130
	30	119.74	9.41	106	114.59	9.74	111	109.40	10.06	115	104.17	10.38	119	98.89	10.68	123	93.56	10.96	128
	25	109.27	9.01	104	104.56	9.32	109	99.84	9.61	113	95.08	9.89	117	90.27	10.16	122	85.43	10.42	126
<b>06DR-724</b>	20	99.29	8.60	102	95.02	8.88	107	90.73	9.15	111	86.41	9.40	116	82.06	9.63	120	77.66	9.85	124
	15	89.83	8.18	100	85.96	8.43	105	82.08	8.67	109	78.17	8.89	114	74.24	9.09	118	70.28	9.28	123
	10	80.88	7.77	99	77.38	7.99	103	73.88	8.19	108	70.36	8.38	112	66.82	8.54	117	63.25	8.69	121
<b>H0767</b>	40	163.52	12.80	114	156.61	13.27	118	149.62	13.73	122	142.54	14.17	127	135.37	14.61	131	128.10	15.03	135
	35	151.13	12.27	112	144.79	12.71	116	138.38	13.14	120	131.89	13.55	124	125.30	13.95	129	118.62	14.34	133
	30	139.18	11.74	110	133.39	12.15	114	127.54	12.54	118	121.60	12.92	122	115.58	13.29	127	109.47	13.64	131
	25	127.69	11.22	107	122.43	11.59	112	117.10	11.95	116	111.70	12.30	120	106.22	12.63	125	100.65	12.94	129
<b>06DR-228</b>	20	116.69	10.69	105	111.91	11.03	110	107.08	11.36	114	102.18	11.67	119	97.22	11.96	123	92.17	12.24	127
	15	106.18	10.18	103	101.85	10.48	108	97.49	10.77	112	93.06	11.04	117	88.58	11.30	121	84.02	11.53	126
	10	96.18	9.66	101	92.27	9.93	106	88.33	10.18	110	84.35	10.41	115	80.30	10.63	119	76.19	10.82	124

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



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HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1027</b>	40	209.70	17.34	114	200.47	17.91	118	191.25	18.45	122	182.01	18.94	126	172.77	19.38	130	163.52	19.76	134
	35	193.09	16.54	112	184.59	17.10	116	176.08	17.61	120	167.56	18.08	124	159.04	18.49	128	150.50	18.85	132
	30	177.18	15.74	109	169.37	16.27	114	161.56	16.76	118	153.74	17.20	122	145.91	17.59	126	138.07	17.92	130
	25	161.98	14.94	107	154.83	15.44	111	147.69	15.90	116	140.55	16.31	120	133.40	16.67	124	126.23	16.98	129
<b>06DM-337</b>	20	147.49	14.15	105	140.99	14.61	109	134.49	15.04	114	127.99	15.42	118	121.48	15.75	122	114.96	16.02	127
	15	133.72	13.37	103	127.83	13.79	107	121.94	14.18	112	116.05	14.53	116	110.16	14.83	121	104.25	15.06	125
	10	120.69	12.60	101	115.36	12.99	105	110.05	13.34	110	104.73	13.65	114	99.41	13.91	119	94.08	14.11	123

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR CARLYLE COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0227</b>	45	34.80	2.12	105	33.53	2.21	110	32.26	2.29	114	31.01	2.37	118	29.76	2.45	123	28.53	2.52	127
	40	31.45	2.04	103	30.28	2.12	108	29.12	2.19	112	27.97	2.26	116	26.84	2.33	121	25.71	2.39	125
	35	28.30	1.95	101	27.23	2.02	105	26.17	2.09	110	25.13	2.15	115	24.09	2.21	119	23.06	2.26	124
	30	25.35	1.86	99	24.38	1.93	104	23.42	1.98	108	22.47	2.04	113	21.52	2.09	117	20.59	2.14	122
<b>06DR-109</b>	25	22.60	1.78	97	21.72	1.83	102	20.85	1.88	106	19.99	1.93	111	19.14	1.97	116	18.29	2.01	120
	20	20.06	1.69	96	19.26	1.74	100	18.47	1.78	105	17.69	1.82	109	16.93	1.86	114	16.16	1.89	119
	15	17.71	1.60	94	16.99	1.64	99	16.28	1.68	103	15.58	1.71	108	14.89	1.74	113	14.20	1.77	117
	10	15.55	1.51	92	14.91	1.55	97	14.27	1.58	102	13.64	1.60	107	13.02	1.63	111	12.40	1.65	116
<b>H0337</b>	45	51.44	2.78	101	49.43	2.93	105	47.44	3.07	110	45.46	3.20	114	43.50	3.33	119	41.56	3.45	123
	40	46.24	2.69	99	44.40	2.82	103	42.57	2.94	108	40.76	3.06	112	38.96	3.18	117	37.17	3.28	121
	35	41.38	2.59	97	39.69	2.71	102	38.01	2.82	106	36.35	2.92	111	34.71	3.02	115	33.07	3.11	120
	30	36.84	2.49	95	35.30	2.59	100	33.77	2.69	105	32.25	2.78	109	30.75	2.86	114	29.26	2.93	118
<b>06DR-013</b>	25	32.63	2.38	94	31.23	2.47	98	29.84	2.55	103	28.45	2.62	108	27.09	2.69	112	25.73	2.76	117
	20	28.74	2.26	92	27.47	2.34	97	26.20	2.41	102	24.95	2.47	106	23.71	2.53	111	22.48	2.58	116
	15	25.17	2.14	91	24.01	2.21	96	22.86	2.26	100	21.72	2.31	105	20.60	2.36	110	19.48	2.39	114
	10	21.90	2.02	90	20.85	2.07	95	19.81	2.12	99	18.77	2.15	104	17.75	2.19	109	16.74	2.21	113
<b>H0477</b>	45	62.78	3.92	106	60.52	4.09	110	58.28	4.26	115	56.07	4.43	119	53.87	4.59	124	51.69	4.75	128
	40	56.82	3.74	104	54.75	3.89	108	52.71	4.05	113	50.68	4.21	117	48.68	4.36	122	46.69	4.51	126
	35	51.21	3.56	102	49.33	3.71	106	47.47	3.85	111	45.63	4.00	115	43.81	4.14	120	42.00	4.27	124
	30	45.96	3.39	100	44.26	3.52	104	42.57	3.66	109	40.91	3.79	113	39.26	3.92	118	37.63	4.04	123
<b>06DR-316</b>	25	41.07	3.22	98	39.53	3.34	102	38.01	3.46	107	36.51	3.58	112	35.02	3.70	116	33.56	3.81	121
	20	36.54	3.05	96	35.15	3.17	101	33.79	3.28	105	32.44	3.38	110	31.10	3.49	115	29.79	3.59	119
	15	32.35	2.89	94	31.11	2.99	99	29.89	3.09	104	28.68	3.19	108	27.49	3.28	113	26.31	3.37	118
	10	28.52	2.73	93	27.41	2.82	98	26.31	2.91	102	25.23	3.00	107	24.17	3.08	112	23.12	3.16	117

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





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HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0537</b>	45	72.53	4.69	110	69.70	4.86	114	66.97	5.02	119	64.34	5.18	123	61.82	5.34	127	59.40	5.50	132
	40	65.52	4.45	107	62.97	4.61	112	60.53	4.76	116	58.18	4.91	120	55.93	5.05	125	53.77	5.19	129
	35	58.94	4.22	105	56.68	4.36	109	54.50	4.50	114	52.42	4.63	118	50.42	4.76	123	48.50	4.89	127
	30	52.81	3.99	103	50.81	4.12	107	48.90	4.24	112	47.06	4.36	116	45.29	4.48	121	43.59	4.59	125
<b>06DR-0718</b>	25	47.13	3.76	100	45.38	3.88	105	43.70	3.99	110	42.08	4.10	114	40.52	4.20	119	39.01	4.29	123
	20	41.89	3.54	98	40.37	3.64	103	38.90	3.74	108	37.48	3.83	112	36.09	3.92	117	34.75	4.00	122
	15	37.09	3.33	96	35.77	3.41	101	34.48	3.49	106	33.22	3.57	110	31.99	3.64	115	30.78	3.71	120
	10	32.70	3.11	95	31.55	3.19	99	30.41	3.25	104	29.29	3.32	109	28.17	3.37	114	27.06	3.43	118
<b>H0677</b>	45	77.25	5.15	112	74.62	5.34	117	72.00	5.53	121	69.38	5.72	125	66.76	5.89	130	64.15	6.07	134
	40	70.34	4.90	110	67.92	5.07	114	65.50	5.25	118	63.09	5.41	123	60.69	5.58	127	58.29	5.73	132
	35	63.77	4.65	107	61.56	4.81	112	59.34	4.97	116	57.14	5.12	120	54.94	5.26	125	52.74	5.40	129
	30	57.57	4.41	105	55.54	4.56	109	53.52	4.70	114	51.51	4.83	118	49.50	4.96	123	47.50	5.08	127
<b>06DR-820</b>	25	51.74	4.17	102	49.89	4.31	107	48.05	4.43	112	46.22	4.55	116	44.39	4.67	121	42.56	4.77	125
	20	46.27	3.95	100	44.60	4.06	105	42.93	4.17	109	41.26	4.28	114	39.60	4.38	119	37.94	4.47	123
	15	41.19	3.72	98	39.67	3.82	103	38.15	3.92	108	36.64	4.01	112	35.13	4.09	117	33.63	4.17	121
	10	36.47	3.50	96	35.09	3.59	101	33.72	3.67	106	32.35	3.75	110	30.98	3.82	115	29.62	3.88	120
<b>H0687</b>	45	93.03	6.33	112	89.48	6.52	117	85.95	6.70	121	82.44	6.88	125	78.96	7.06	129	75.50	7.22	133
	40	84.39	5.93	110	81.11	6.11	114	77.85	6.28	118	74.61	6.44	122	71.39	6.60	127	68.20	6.75	131
	35	76.18	5.56	107	73.16	5.72	111	70.15	5.87	116	67.17	6.02	120	64.21	6.16	124	61.27	6.29	128
	30	68.42	5.20	104	65.64	5.34	109	62.88	5.48	113	60.15	5.61	117	57.43	5.73	122	54.74	5.85	126
<b>06DR-724</b>	25	61.12	4.85	102	58.57	4.98	106	56.05	5.10	111	53.54	5.22	115	51.06	5.33	120	48.60	5.43	124
	20	54.28	4.52	100	51.96	4.63	104	49.65	4.74	109	47.37	4.84	113	45.10	4.93	118	42.86	5.02	122
	15	47.92	4.20	98	45.80	4.30	102	43.70	4.39	107	41.62	4.48	111	39.56	4.55	116	37.52	4.62	120
	10	42.04	3.90	96	40.10	3.98	100	38.19	4.06	105	36.30	4.13	109	34.42	4.18	114	32.57	4.24	118

(Continued)

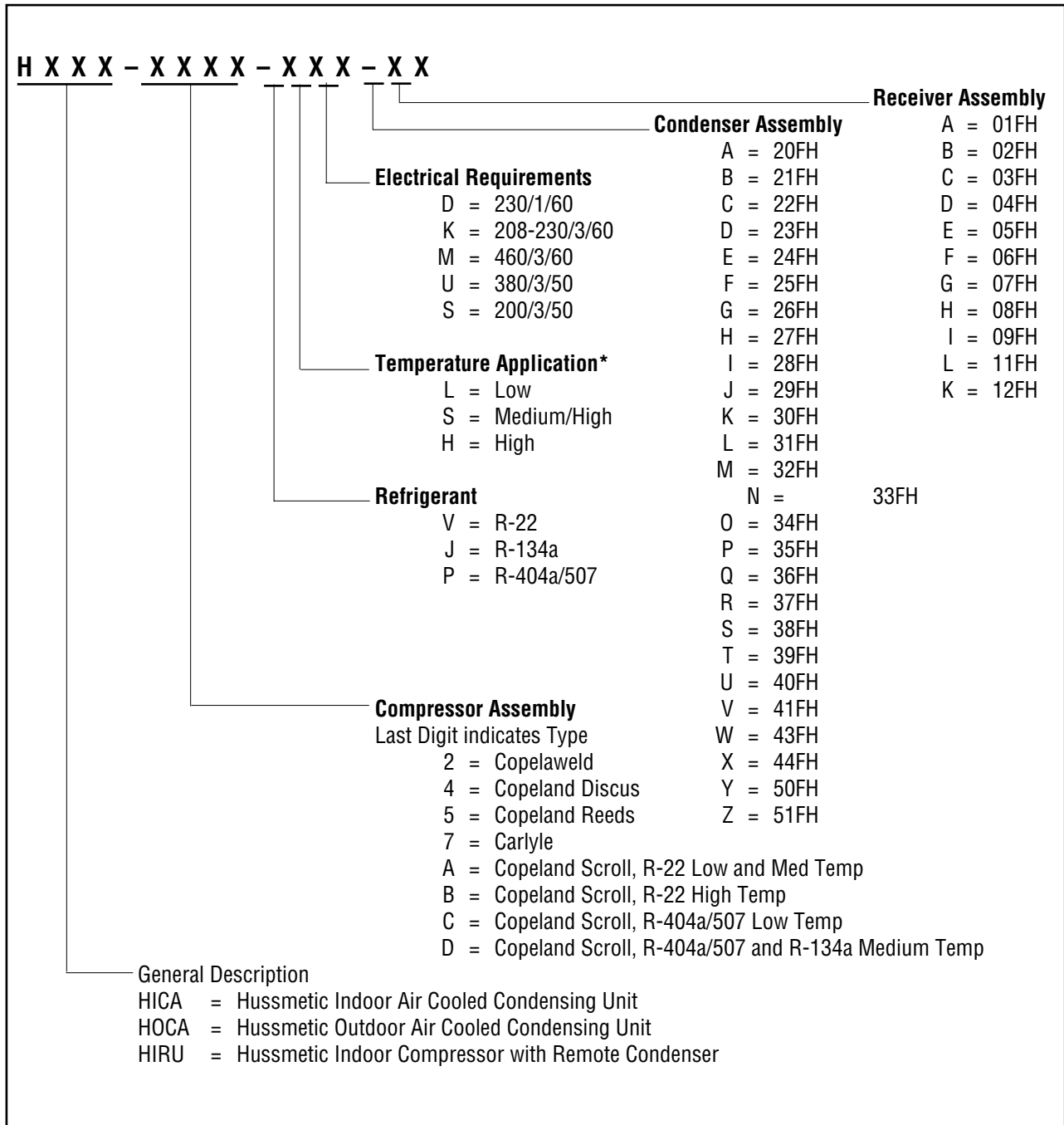
Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HICA AIR-COOLED CONDENSING UNITS – INDOOR CARLYLE COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE (Continued)

HICA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0767</b>	45	103.88	7.32	114	100.46	7.61	118	97.04	7.89	123	93.60	8.16	127	90.17	8.42	131	86.72	8.67	136
	40	94.78	6.95	111	91.64	7.21	115	88.48	7.47	120	85.32	7.71	124	82.16	7.95	129	78.99	8.18	133
	35	86.13	6.59	108	83.25	6.83	113	80.35	7.06	117	77.45	7.28	122	74.55	7.50	126	71.64	7.70	131
	30	77.94	6.24	106	75.30	6.46	111	72.65	6.67	115	70.00	6.87	120	67.34	7.06	124	64.67	7.24	129
<b>06DR-228</b>	25	70.23	5.90	104	67.81	6.09	108	65.39	6.28	113	62.96	6.46	117	60.53	6.63	122	58.10	6.78	126
	20	62.98	5.57	102	60.78	5.74	106	58.57	5.90	111	56.35	6.06	115	54.14	6.20	120	51.92	6.34	124
	15	56.22	5.24	99	54.20	5.39	104	52.19	5.54	109	50.17	5.67	113	48.15	5.79	118	46.12	5.91	122
	10	49.93	4.92	98	48.09	5.05	102	46.24	5.17	107	44.40	5.29	111	42.56	5.39	116	40.71	5.48	121
<b>H1107</b>	45	136.39	10.02	116	132.20	10.38	121	127.98	10.73	125	123.73	11.08	129	119.44	11.43	134	115.13	11.76	138
	40	124.91	9.49	113	121.06	9.82	118	117.18	10.16	122	113.26	10.48	127	109.32	10.80	131	105.34	11.11	136
	35	113.96	8.98	111	110.43	9.30	115	106.86	9.60	120	103.27	9.90	124	99.64	10.20	129	95.99	10.48	133
	30	103.55	8.50	108	100.32	8.79	113	97.05	9.07	117	93.76	9.35	122	90.43	9.62	126	87.08	9.87	131
<b>06DR-337</b>	25	93.69	8.04	106	90.74	8.30	110	87.75	8.56	115	84.73	8.81	119	81.69	9.05	124	78.62	9.28	129
	20	84.40	7.59	104	81.70	7.83	108	78.97	8.07	113	76.21	8.29	117	73.42	8.51	122	70.61	8.71	126
	15	75.68	7.16	101	73.21	7.38	106	70.71	7.59	111	68.18	7.79	115	65.63	7.98	120	63.05	8.15	124
	10	67.53	6.75	99	65.26	6.94	104	62.97	7.12	109	60.65	7.30	113	58.31	7.46	118	55.94	7.61	123

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## PRODUCT CODE



\*See capacity tables following for actual temperature range.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND SCROLL COMPRESSORS R22 LOW TEMPERATURE

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030A</b>	-15	12.35	1.91	92	12.07	2.00	97	11.79	2.09	102	11.51	2.19	107	11.22	2.29	112	10.93	2.40	117
	-20	11.04	1.85	91	10.79	1.94	96	10.54	2.03	101	10.29	2.13	106	10.04	2.23	111	9.79	2.34	116
	-25	9.83	1.80	90	9.61	1.89	95	9.39	1.98	100	9.17	2.08	105	8.94	2.18	110	8.72	2.28	115
<b>ZF09K4</b>	-30	8.72	1.76	89	8.52	1.84	94	8.32	1.93	99	8.13	2.03	105	7.93	2.12	110	7.74	2.23	115
	-35	7.70	1.71	89	7.52	1.80	94	7.34	1.89	99	7.16	1.98	104	6.99	2.07	109	6.82	2.17	114
<b>H035A</b>	-15	15.12	2.22	94	14.76	2.32	99	14.39	2.42	104	14.01	2.54	109	13.62	2.66	114	13.22	2.79	119
	-20	13.54	2.13	93	13.22	2.23	98	12.89	2.34	103	12.55	2.45	108	12.20	2.57	113	11.84	2.70	118
	-25	12.07	2.06	92	11.79	2.16	97	11.49	2.26	102	11.19	2.37	107	10.88	2.49	112	10.57	2.61	117
<b>ZF11K4</b>	-30	10.72	1.99	91	10.46	2.09	96	10.20	2.19	101	9.93	2.30	106	9.66	2.41	111	9.39	2.53	116
	-35	9.47	1.93	90	9.24	2.02	95	9.01	2.12	100	8.77	2.23	105	8.54	2.34	110	8.30	2.46	116
<b>H040A</b>	-15	17.74	2.62	91	17.35	2.73	96	16.95	2.84	101	16.54	2.96	106	16.11	3.07	111	15.68	3.19	116
	-20	15.82	2.53	90	15.48	2.64	95	15.13	2.75	100	14.77	2.86	105	14.39	2.97	110	14.01	3.09	115
	-25	14.07	2.44	89	13.77	2.55	94	13.46	2.66	99	13.14	2.77	105	12.81	2.88	110	12.47	2.99	115
<b>ZF13K4</b>	-30	12.47	2.36	89	12.20	2.46	94	11.93	2.57	99	11.65	2.68	104	11.36	2.79	109	11.06	2.91	114
	-35	11.01	2.28	88	10.78	2.38	93	10.54	2.49	98	10.29	2.60	103	10.04	2.71	108	9.77	2.82	113
<b>H050A</b>	-15	21.77	3.19	91	21.30	3.33	96	20.81	3.47	101	20.31	3.62	106	19.79	3.77	111	19.25	3.94	116
	-20	19.44	3.09	90	19.02	3.22	96	18.59	3.36	101	18.15	3.51	106	17.68	3.66	111	17.20	3.83	116
	-25	17.30	3.00	90	16.93	3.13	95	16.55	3.27	100	16.15	3.42	105	15.74	3.57	110	15.32	3.72	115
<b>ZF15K4</b>	-30	15.34	2.92	89	15.01	3.05	94	14.67	3.19	99	14.32	3.33	104	13.96	3.48	109	13.59	3.63	114
	-35	13.54	2.85	88	13.25	2.98	93	12.96	3.11	98	12.65	3.25	103	12.34	3.40	108	12.01	3.55	113

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND SCROLL COMPRESSORS  
R22 LOW TEMPERATURE (Continued)**

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H060A</b>	-15	25.61	3.84	93	25.03	4.02	98	24.43	4.19	103	23.83	4.38	108	23.22	4.57	113	22.58	4.76	118
	-20	22.84	3.73	92	22.32	3.90	97	21.80	4.07	102	21.27	4.25	107	20.72	4.44	112	20.16	4.63	117
	-25	20.29	3.63	91	19.83	3.80	96	19.37	3.97	101	18.91	4.14	106	18.43	4.32	111	17.94	4.51	116
<b>ZF18K4</b>	-30	17.96	3.55	90	17.56	3.71	95	17.15	3.88	100	16.74	4.05	105	16.32	4.23	110	15.89	4.41	115
	-35	15.84	3.49	89	15.48	3.65	94	15.12	3.81	99	14.76	3.98	104	14.39	4.15	109	14.01	4.33	114
<b>H075A</b>	-15	30.51	5.23	93	29.81	5.46	98	29.10	5.68	103	28.37	5.90	108	27.65	6.13	113	26.92	6.35	118
	-20	27.22	5.08	92	26.61	5.30	97	25.98	5.51	102	25.34	5.72	107	24.70	5.93	112	24.07	6.14	117
	-25	24.22	4.94	91	23.67	5.14	96	23.12	5.35	101	22.56	5.55	106	22.00	5.74	111	21.45	5.93	116
<b>ZF24K4</b>	-30	21.49	4.80	90	21.00	5.00	95	20.51	5.19	100	20.02	5.37	105	19.53	5.55	110	19.05	5.72	115
	-35	19.01	4.67	89	18.57	4.85	94	18.13	5.03	99	17.69	5.20	104	17.26	5.36	109	16.85	5.51	114
<b>H100A</b>	-15	42.94	6.81	94	42.04	7.08	99	41.12	7.36	104	40.16	7.65	109	39.14	7.95	114	38.03	8.27	119
	-20	38.34	6.53	93	37.54	6.80	98	36.74	7.07	103	35.92	7.34	108	35.05	7.63	113	34.11	7.94	118
	-25	34.08	6.27	92	33.39	6.53	97	32.72	6.78	102	32.05	7.05	107	31.34	7.33	112	30.58	7.62	117
<b>ZF33K4</b>	-30	30.16	6.02	91	29.59	6.27	96	29.06	6.51	101	28.54	6.77	106	28.01	7.03	111	27.44	7.31	116
	-35	26.58	5.78	90	26.15	6.01	95	25.76	6.25	100	25.40	6.49	105	25.06	6.74	110	24.70	7.00	115

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND SCROLL COMPRESSORS R22 MEDIUM TEMPERATURE

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030A</b>	25	27.09	2.55	103	26.45	2.65	107	25.78	2.74	112	25.11	2.84	117	24.43	2.95	122	23.73	3.07	127
	20	24.80	2.45	101	24.21	2.54	106	23.61	2.64	111	23.00	2.74	115	22.37	2.85	120	21.74	2.96	125
	15	22.64	2.35	99	22.11	2.44	104	21.56	2.54	109	21.01	2.64	114	20.44	2.75	119	19.87	2.86	124
	<b>ZF09K4</b>	10	20.62	2.26	98	20.13	2.35	103	19.64	2.45	108	19.14	2.55	113	18.63	2.66	117	18.11	2.77
<b>H035A</b>	25	32.58	3.19	107	31.79	3.30	112	30.98	3.42	117	30.14	3.54	122	29.27	3.67	126	28.40	3.81	131
	20	29.91	3.04	105	29.18	3.15	110	28.43	3.26	115	27.66	3.38	120	26.87	3.51	125	26.06	3.65	129
	15	27.38	2.89	103	26.71	3.00	108	26.03	3.11	113	25.32	3.24	118	24.60	3.37	123	23.86	3.50	128
	<b>ZF11K4</b>	10	24.99	2.76	102	24.39	2.86	107	23.76	2.98	111	23.12	3.10	116	22.45	3.23	121	21.78	3.36
<b>H040A</b>	25	39.23	3.48	101	38.31	3.63	106	37.38	3.79	111	36.42	3.94	116	35.45	4.09	121	34.46	4.24	126
	20	35.91	3.35	100	35.07	3.50	105	34.22	3.64	110	33.35	3.79	114	32.46	3.94	119	31.56	4.08	124
	15	32.78	3.23	98	32.02	3.37	103	31.24	3.51	108	30.45	3.65	113	29.64	3.79	118	28.82	3.93	123
	<b>ZF13K4</b>	10	29.83	3.11	97	29.14	3.25	102	28.44	3.38	107	27.72	3.52	112	26.99	3.65	117	26.24	3.78
<b>H050A</b>	25	47.63	4.43	102	46.57	4.57	107	45.48	4.71	111	44.36	4.87	116	43.20	5.04	121	42.01	5.21	126
	20	43.66	4.22	100	42.69	4.36	105	41.69	4.51	110	40.66	4.67	115	39.60	4.83	120	38.51	5.01	124
	15	39.90	4.04	99	39.02	4.18	104	38.11	4.32	108	37.17	4.48	113	36.20	4.65	118	35.20	4.82	123
	<b>ZF15K4</b>	10	36.36	3.86	97	35.56	4.00	102	34.73	4.15	107	33.88	4.31	112	32.99	4.47	117	32.08	4.64
<b>H060A</b>	25	56.75	5.23	104	55.38	5.44	109	53.98	5.66	114	52.57	5.89	118	51.13	6.12	123	49.66	6.36	128
	20	51.94	5.02	102	50.69	5.23	107	49.42	5.44	112	48.13	5.67	117	46.81	5.89	122	45.47	6.13	126
	15	47.41	4.82	101	46.27	5.03	105	45.11	5.23	110	43.94	5.45	115	42.75	5.67	120	41.52	5.90	125
	<b>ZF18K4</b>	10	43.13	4.63	99	42.10	4.83	104	41.06	5.03	109	40.00	5.24	114	38.92	5.45	119	37.81	5.68

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND SCROLL COMPRESSORS  
R22 MEDIUM TEMPERATURE (Continued)**

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H075A</b>	25	68.23	6.96	104	66.52	7.20	109	64.79	7.45	114	63.02	7.72	118	61.23	8.00	123	59.41	8.30	128
	20	62.33	6.69	102	60.79	6.93	107	59.21	7.18	112	57.61	7.44	117	55.98	7.72	122	54.33	8.02	126
	15	56.79	6.43	101	55.39	6.67	106	53.97	6.92	110	52.51	7.19	115	51.04	7.46	120	49.55	7.75	125
<b>ZF24K4</b>	10	51.58	6.19	99	50.33	6.43	104	49.04	6.68	109	47.74	6.94	114	46.41	7.21	119	45.07	7.49	124
<b>H100A</b>	25	92.29	9.82	106	90.77	10.13	111	89.08	10.46	116	87.21	10.81	121	85.13	11.18	126	82.83	11.58	131
	20	84.87	9.34	105	83.42	9.65	109	81.82	9.97	114	80.05	10.32	119	78.10	10.68	124	75.94	11.07	129
	15	77.81	8.90	103	76.43	9.20	108	74.92	9.52	113	73.26	9.86	118	71.43	10.21	122	69.42	10.59	127
<b>ZF33K4</b>	10	71.11	8.49	101	69.81	8.78	106	68.39	9.10	111	66.84	9.43	116	65.13	9.78	121	63.26	10.15	126

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND SCROLL COMPRESSORS R22 HIGH TEMPERATURE

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030B</b>	45	37.45	2.28	108	36.44	2.41	113	35.43	2.55	118	34.40	2.71	122	33.36	2.87	127	32.30	3.04	132
	40	34.36	2.24	106	33.45	2.37	111	32.52	2.51	116	31.58	2.66	121	30.63	2.82	125	29.67	2.99	130
	35	31.43	2.20	104	30.60	2.33	109	29.75	2.47	114	28.90	2.62	119	28.03	2.77	124	27.16	2.94	128
	30	28.66	2.16	103	27.90	2.29	107	27.13	2.43	112	26.35	2.57	117	25.56	2.73	122	24.77	2.89	127
<b>ZB21KA</b>	45	44.68	3.03	115	43.45	3.21	119	42.19	3.41	124	40.89	3.61	128	39.55	3.83	133	38.16	4.06	138
	40	41.13	2.96	112	39.99	3.14	117	38.81	3.33	122	37.60	3.53	126	36.35	3.75	131	35.05	3.97	136
	35	37.68	2.89	110	36.62	3.07	115	35.54	3.25	119	34.41	3.45	124	33.24	3.67	129	32.02	3.89	134
	30	34.36	2.82	108	33.38	3.00	112	32.37	3.18	117	31.32	3.38	122	30.23	3.59	127	29.09	3.81	132
<b>H035B</b>	45	54.84	3.24	107	53.36	3.44	112	51.85	3.65	117	50.30	3.88	122	48.71	4.14	126	47.07	4.41	131
	40	50.32	3.19	106	48.96	3.39	110	47.57	3.60	115	46.12	3.83	120	44.63	4.08	124	43.09	4.36	129
	35	46.01	3.14	104	44.76	3.34	108	43.47	3.56	113	42.12	3.79	118	40.72	4.04	123	39.26	4.31	128
	30	41.91	3.10	102	40.76	3.31	107	39.55	3.52	112	38.29	3.75	116	36.97	4.00	121	35.58	4.28	126
<b>ZB30KA</b>	45	67.43	4.01	108	65.72	4.25	113	63.96	4.51	118	62.12	4.78	122	60.18	5.08	127	58.12	5.40	132
	40	61.96	3.93	106	60.40	4.16	111	58.79	4.42	116	57.10	4.69	120	55.30	4.98	125	53.38	5.30	130
	35	56.71	3.84	104	55.28	4.08	109	53.80	4.33	114	52.24	4.60	119	50.58	4.90	123	48.79	5.21	128
	30	51.67	3.77	102	50.37	4.00	107	49.01	4.25	112	47.57	4.52	117	46.03	4.82	122	44.35	5.13	127
<b>H050B</b>	45	79.54	4.86	107	77.56	5.12	112	75.54	5.40	117	73.47	5.70	121	71.35	6.01	126	69.16	6.35	131
	40	73.18	4.72	105	71.36	4.98	110	69.50	5.25	115	67.60	5.55	120	65.63	5.86	124	63.59	6.20	129
	35	67.09	4.58	104	65.42	4.84	108	63.72	5.12	113	61.96	5.42	118	60.13	5.73	123	58.24	6.07	128
	30	61.28	4.47	102	59.75	4.73	107	58.19	5.00	111	56.56	5.30	116	54.88	5.61	121	53.12	5.94	126
<b>ZB45KA</b>	45	79.54	4.86	107	77.56	5.12	112	75.54	5.40	117	73.47	5.70	121	71.35	6.01	126	69.16	6.35	131
	40	73.18	4.72	105	71.36	4.98	110	69.50	5.25	115	67.60	5.55	120	65.63	5.86	124	63.59	6.20	129
	35	67.09	4.58	104	65.42	4.84	108	63.72	5.12	113	61.96	5.42	118	60.13	5.73	123	58.24	6.07	128
	30	61.28	4.47	102	59.75	4.73	107	58.19	5.00	111	56.56	5.30	116	54.88	5.61	121	53.12	5.94	126

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND SCROLL COMPRESSORS  
R22 HIGH TEMPERATURE (Continued)**

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Revision J  
November, 1997

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H075B</b>	45	98.75	6.09	106	96.27	6.42	111	93.75	6.77	116	91.16	7.15	120	88.44	7.55	125	85.56	7.96	130
	40	90.41	5.95	104	88.18	6.28	109	85.93	6.63	114	83.63	7.00	119	81.21	7.40	123	78.63	7.82	128
	35	82.60	5.82	102	80.60	6.15	107	78.60	6.50	112	76.56	6.87	117	74.42	7.26	122	72.13	7.68	127
	<b>ZB56KA</b>	30	75.31	5.70	101	73.51	6.02	106	71.74	6.37	111	69.93	6.74	115	68.05	7.14	120	66.03	7.55
<b>H090B</b>	45	117.20	7.61	110	114.18	8.02	115	111.06	8.46	119	107.83	8.93	124	104.48	9.41	129	100.97	9.91	133
	40	107.80	7.44	108	105.06	7.86	113	102.23	8.29	117	99.29	8.75	122	96.23	9.22	127	93.01	9.72	132
	35	98.76	7.29	106	96.27	7.70	111	93.71	8.13	115	91.04	8.58	120	88.25	9.04	125	85.32	9.53	130
	<b>ZB68KA</b>	30	90.08	7.14	104	87.84	7.54	109	85.53	7.96	114	83.12	8.41	118	80.59	8.87	123	77.92	9.35
<b>H100B</b>	45	137.50	8.51	108	133.92	8.98	113	130.34	9.49	117	126.67	10.02	122	122.91	10.58	127	119.04	11.17	131
	40	126.20	8.30	106	123.04	8.77	111	119.78	9.27	115	116.44	9.80	120	113.01	10.35	125	109.47	10.93	130
	35	115.50	8.11	104	112.62	8.58	109	109.67	9.08	114	106.64	9.60	118	103.52	10.15	123	100.30	10.72	128
	<b>ZB75KA</b>	30	105.30	7.95	102	102.69	8.41	107	100.02	8.90	112	97.28	9.42	117	94.46	9.96	122	91.53	10.52
<b>H130B</b>	45	170.40	10.76	108	166.10	11.28	112	161.73	11.84	117	157.19	12.43	122	152.44	13.05	126	147.41	13.7	131
	40	156.40	10.46	106	152.54	10.99	110	148.61	11.55	115	144.51	12.13	120	140.17	12.75	125	135.56	13.39	129
	35	143.00	10.20	104	139.61	10.73	109	136.09	11.28	113	132.38	11.87	118	128.43	12.47	123	124.19	13.11	128
	<b>ZB92KA</b>	30	130.30	9.97	102	127.32	10.50	107	124.17	11.04	112	120.82	11.62	116	117.21	12.22	121	113.28	12.83

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND SCROLL COMPRESSORS R404 LOW TEMPERATURE

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030C</b>	-15	13.96	1.99	95	13.48	2.07	100	12.98	2.17	105	12.47	2.27	110	11.93	2.38	114	11.37	2.49	119
	-20	12.55	1.91	94	12.12	2.00	99	11.68	2.09	104	11.23	2.19	108	10.75	2.30	113	10.26	2.42	118
	-25	11.23	1.84	93	10.86	1.93	98	10.47	2.02	102	10.06	2.12	107	9.64	2.23	112	9.21	2.35	117
<b>ZF09K4E</b>	-30	10.02	1.78	92	9.68	1.86	97	9.34	1.96	102	8.98	2.06	107	8.61	2.17	112	8.22	2.29	117
	-35	8.89	1.72	91	8.60	1.80	96	8.29	1.90	101	7.97	2.00	106	7.63	2.11	111	7.29	2.23	116
	-40	7.86	1.66	90	7.59	1.75	95	7.31	1.84	100	7.02	1.94	105	6.72	2.05	110	6.41	2.17	115
<b>H035C</b>	-15	17.14	2.49	96	16.53	2.61	100	15.90	2.73	105	15.24	2.85	110	14.57	2.99	115	13.88	3.13	120
	-20	15.40	2.40	94	14.86	2.51	99	14.30	2.63	104	13.72	2.75	109	13.13	2.89	114	12.51	3.02	119
	-25	13.80	2.31	93	13.31	2.42	98	12.82	2.54	103	12.30	2.66	108	11.78	2.79	113	11.23	2.92	118
<b>ZF11K4E</b>	-30	12.32	2.23	92	11.89	2.34	97	11.44	2.45	102	10.99	2.57	107	10.52	2.69	112	10.04	2.83	117
	-35	10.97	2.15	91	10.58	2.25	96	10.18	2.36	101	9.78	2.48	106	9.37	2.60	111	8.94	2.73	116
	-40	9.74	2.07	90	9.39	2.17	95	9.03	2.28	100	8.67	2.39	105	8.30	2.51	110	7.92	2.63	115
<b>H040C</b>	-15	20.95	2.82	92	20.10	2.94	97	19.19	3.07	102	18.26	3.22	107	17.31	3.37	112	16.37	3.53	117
	-20	18.74	2.72	91	17.96	2.85	96	17.14	2.98	101	16.30	3.12	106	15.45	3.26	111	14.62	3.42	116
	-25	16.66	2.63	90	15.94	2.75	95	15.20	2.88	100	14.45	3.02	105	13.71	3.17	110	13.00	3.32	115
<b>ZF13K4E</b>	-30	14.70	2.55	90	14.05	2.66	94	13.39	2.79	99	12.73	2.93	104	12.09	3.07	109	11.49	3.22	114
	-35	12.87	2.46	89	12.28	2.58	94	11.69	2.70	99	11.12	2.83	104	10.58	2.97	109	10.10	3.12	114
	-40	11.16	2.38	88	10.63	2.49	93	10.11	2.61	98	9.63	2.74	103	9.19	2.88	108	8.82	3.02	113
<b>H050C</b>	-15	24.80	3.42	95	23.90	3.57	100	22.97	3.73	104	22.01	3.89	109	21.01	4.07	114	19.99	4.25	119
	-20	22.27	3.30	94	21.47	3.44	98	20.64	3.60	103	19.78	3.76	108	18.90	3.93	113	18.00	4.10	118
	-25	19.92	3.18	92	19.20	3.32	97	18.46	3.47	102	17.70	3.63	107	16.92	3.79	112	16.13	3.96	117
<b>ZF15K4E</b>	-30	17.73	3.07	91	17.08	3.21	96	16.42	3.35	101	15.75	3.50	106	15.06	3.66	111	14.37	3.82	116
	-35	15.71	2.96	91	15.12	3.10	95	14.53	3.24	100	13.93	3.38	105	13.32	3.53	110	12.71	3.68	115
	-40	13.84	2.86	90	13.31	2.99	95	12.77	3.12	100	12.23	3.26	105	11.69	3.40	110	11.16	3.54	115

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND SCROLL COMPRESSORS  
R404 LOW TEMPERATURE (Continued)**

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H060C</b>	-15	28.78	4.30	98	27.77	4.48	102	26.74	4.67	107	25.68	4.86	112	24.59	5.06	117	23.46	5.27	122
	-20	25.84	4.13	96	24.96	4.31	101	24.05	4.49	106	23.13	4.68	111	22.19	4.87	116	21.21	5.08	121
	-25	23.10	3.97	95	22.32	4.14	100	21.53	4.32	105	20.74	4.50	110	19.92	4.69	115	19.08	4.89	120
<b>ZF18K4E</b>	-30	20.55	3.82	94	19.86	3.98	99	19.18	4.15	104	18.49	4.33	109	17.79	4.52	114	17.07	4.71	119
	-35	18.19	3.67	93	17.58	3.83	98	16.98	4.00	103	16.39	4.17	108	15.79	4.35	113	15.18	4.53	118
	-40	16.02	3.53	91	15.47	3.69	96	14.94	3.85	102	14.43	4.01	107	13.92	4.19	112	13.40	4.36	117
<b>H075C</b>	-15	34.27	5.61	98	33.08	5.80	103	31.86	6.00	108	30.61	6.21	113	29.32	6.43	117	28.00	6.65	122
	-20	30.80	5.38	97	29.75	5.57	102	28.68	5.76	106	27.59	5.96	111	26.46	6.16	116	25.30	6.37	121
	-25	27.57	5.16	95	26.64	5.34	100	25.70	5.53	105	24.73	5.71	110	23.75	5.90	115	22.74	6.10	120
<b>ZF24K4E</b>	-30	24.56	4.96	94	23.73	5.13	99	22.90	5.30	104	22.05	5.48	109	21.18	5.65	114	20.30	5.83	119
	-35	21.78	4.78	93	21.03	4.94	98	20.28	5.09	103	19.52	5.25	108	18.75	5.41	113	17.97	5.58	118
	-40	19.21	4.61	92	18.51	4.75	97	17.83	4.89	102	17.14	5.04	107	16.44	5.18	112	15.74	5.33	117
<b>H100C10</b>	-15	48.77	7.92	101	46.76	8.21	106	44.68	8.52	110	42.55	8.85	115	40.38	9.19	120	38.18	9.55	125
	-20	43.71	7.55	99	41.90	7.84	104	40.04	8.14	109	38.15	8.45	114	36.23	8.78	118	34.32	9.13	123
	-25	38.89	7.21	98	37.26	7.48	102	35.60	7.77	107	33.93	8.07	112	32.28	8.39	117	30.65	8.72	122
<b>ZF33K4E</b>	-30	34.30	6.88	96	32.84	7.15	101	31.38	7.42	106	29.93	7.71	111	28.52	8.01	116	27.17	8.33	121
	-35	29.97	6.57	95	28.66	6.82	100	27.39	7.08	104	26.16	7.35	109	24.99	7.64	114	23.91	7.94	119
	-40	25.90	6.27	93	24.75	6.51	98	23.65	6.76	103	22.62	7.01	108	21.69	7.28	113	20.88	7.57	118

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND SCROLL COMPRESSORS R404 MEDIUM/HIGH TEMPERATURE

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H030D</b>	35	34.73	2.86	107	33.37	2.95	111	31.99	3.04	116	30.58	3.14	120	29.16	3.24	124	27.71	3.35	129
	30	32.15	2.74	105	30.91	2.82	109	29.64	2.91	114	28.34	3.01	118	27.03	3.12	123	25.70	3.23	127
	25	29.67	2.62	103	28.54	2.70	108	27.37	2.80	112	26.19	2.90	117	24.99	3.00	121	23.76	3.11	126
<b>ZS21K4E</b>	20	27.30	2.50	102	26.26	2.59	106	25.21	2.69	111	24.13	2.79	115	23.03	2.89	120	21.91	3.00	125
	15	25.03	2.40	100	24.10	2.49	105	23.14	2.58	109	22.16	2.68	114	21.16	2.78	119	20.15	2.89	123
	10	22.88	2.30	99	22.04	2.38	103	21.17	2.48	108	20.29	2.58	113	19.38	2.68	117	18.47	2.79	122
<b>H035D</b>	35	44.65	3.49	103	43.01	3.57	107	41.34	3.67	112	39.62	3.78	116	37.86	3.89	121	36.05	4.02	125
	30	41.24	3.32	101	39.73	3.41	106	38.19	3.51	110	36.60	3.62	115	34.98	3.74	119	33.31	3.86	124
	25	37.97	3.16	100	36.59	3.25	104	35.17	3.36	109	33.72	3.47	113	32.23	3.59	118	30.69	3.72	122
<b>ZS26K4E</b>	20	34.85	3.01	98	33.59	3.11	103	32.30	3.22	107	30.97	3.33	112	29.60	3.45	117	28.20	3.58	121
	15	31.89	2.88	97	30.74	2.98	101	29.56	3.09	106	28.35	3.20	111	27.11	3.32	116	25.84	3.45	120
	10	29.08	2.75	95	28.04	2.85	100	26.97	2.96	105	25.88	3.08	110	24.76	3.20	114	23.61	3.33	119
<b>H040D</b>	35	50.51	4.05	106	48.80	4.16	110	46.92	4.28	115	44.91	4.41	119	42.75	4.56	123	40.48	4.71	128
	30	46.89	3.86	104	45.24	3.97	109	43.45	4.09	113	41.54	4.22	117	39.51	4.37	122	37.37	4.53	126
	25	43.37	3.67	102	41.79	3.79	107	40.09	3.91	111	38.29	4.05	116	36.38	4.20	120	34.39	4.36	125
<b>ZS30K4E</b>	20	39.95	3.50	101	38.44	3.62	105	36.84	3.75	110	35.15	3.88	114	33.38	4.03	119	31.54	4.20	124
	15	36.65	3.35	99	35.22	3.46	104	33.71	3.59	108	32.14	3.73	113	30.52	3.88	118	28.84	4.04	122
	10	33.46	3.20	98	32.11	3.32	102	30.71	3.45	107	29.27	3.59	112	27.80	3.74	116	26.30	3.90	121
<b>H050D</b>	35	61.78	5.13	106	59.37	5.27	111	56.89	5.44	115	54.35	5.63	120	51.74	5.84	124	49.08	6.07	128
	30	57.23	4.86	105	55.00	5.02	109	52.71	5.19	114	50.36	5.38	118	47.96	5.59	122	45.50	5.82	127
	25	52.84	4.62	103	50.79	4.78	107	48.69	4.95	112	46.53	5.15	116	44.31	5.36	121	42.05	5.60	126
<b>ZS38K4E</b>	20	48.62	4.40	101	46.75	4.56	106	44.82	4.74	110	42.84	4.93	115	40.82	5.15	120	38.74	5.38	124
	15	44.58	4.19	100	42.88	4.35	104	41.13	4.54	109	39.32	4.73	114	37.47	4.95	118	35.58	5.18	123
	10	40.74	4.00	98	39.20	4.17	103	37.61	4.35	108	35.97	4.55	112	34.29	4.76	117	32.58	4.99	122

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND SCROLL COMPRESSORS  
R404 MEDIUM/HIGH TEMPERATURE (Continued)**

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H060D</b>	35	74.21	6.04	106	71.34	6.22	110	68.43	6.41	115	65.47	6.62	119	62.47	6.84	124	59.40	7.08	128
	30	68.62	5.77	104	66.01	5.96	109	63.36	6.15	113	60.66	6.36	118	57.91	6.58	122	55.11	6.81	127
	25	63.26	5.52	102	60.90	5.70	107	58.49	5.90	112	56.04	6.10	116	53.54	6.32	121	50.99	6.56	125
<b>ZS45K4E</b>	20	58.15	5.27	101	56.01	5.46	105	53.84	5.65	110	51.63	5.86	115	49.36	6.08	119	47.04	6.31	124
	15	53.28	5.04	99	51.36	5.23	104	49.41	5.42	109	47.42	5.63	113	45.38	5.84	118	43.28	6.07	123
	10	48.66	4.82	98	46.95	5.01	103	45.21	5.20	107	43.42	5.40	112	41.59	5.61	117	39.69	5.83	121
<b>H075D</b>	35	90.30	7.73	105	86.82	7.93	109	83.27	8.15	113	79.65	8.38	118	75.95	8.62	122	72.18	8.87	127
	30	83.37	7.40	103	80.19	7.61	107	76.95	7.83	112	73.64	8.06	116	70.27	8.30	121	66.82	8.55	125
	25	76.73	7.10	101	73.85	7.31	106	70.90	7.53	110	67.90	7.76	115	64.84	8.00	120	61.70	8.24	124
<b>ZS56K4E</b>	20	70.42	6.81	100	67.81	7.02	104	65.15	7.24	109	62.43	7.47	114	59.66	7.70	118	56.82	7.95	123
	15	64.42	6.54	98	62.07	6.75	103	59.68	6.97	108	57.24	7.19	112	54.74	7.42	117	52.18	7.66	122
	10	58.75	6.29	97	56.64	6.49	102	54.50	6.71	106	52.31	6.93	111	50.08	7.15	116	47.78	7.37	121
<b>H100D</b>	35	123.55	11.47	106	119.66	11.79	111	115.39	12.13	115	110.80	12.47	120	105.93	12.83	124	100.84	13.20	129
	30	115.89	10.97	105	112.07	11.28	109	107.90	11.61	114	103.45	11.95	118	98.77	12.30	123	93.91	12.67	127
	25	108.08	10.47	103	104.35	10.78	108	100.31	11.10	112	96.03	11.44	117	91.57	11.78	121	86.96	12.14	126
<b>ZS75K4E</b>	20	100.20	9.99	102	96.57	10.29	106	92.69	10.61	111	88.61	10.94	115	84.38	11.28	120	80.06	11.63	124
	15	92.31	9.52	100	88.82	9.82	105	85.13	10.13	109	81.27	10.45	114	77.31	10.78	119	73.29	11.13	123
	10	84.50	9.07	99	81.18	9.36	103	77.68	9.66	108	74.08	9.97	113	70.41	10.30	117	66.74	10.64	122

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND SCROLL COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H040D</b>	45	38.46	2.40	99	37.50	2.46	104	36.52	2.52	109	35.53	2.59	113	34.51	2.67	118	33.49	2.76	123
	40	35.09	2.27	98	34.21	2.33	102	33.32	2.40	107	32.40	2.47	112	31.47	2.55	117	30.53	2.63	121
	35	31.92	2.15	96	31.12	2.21	101	30.30	2.28	106	29.46	2.35	111	28.62	2.43	115	27.75	2.52	120
	30	28.94	2.04	95	28.21	2.10	100	27.47	2.17	104	26.71	2.24	109	25.93	2.32	114	25.15	2.40	119
<b>ZS30K4E</b>	25	26.16	1.94	94	25.49	2.00	98	24.82	2.07	103	24.13	2.14	108	23.43	2.22	113	22.72	2.30	118
	20	23.56	1.85	92	22.96	1.91	97	22.35	1.97	102	21.73	2.04	107	21.09	2.12	112	20.45	2.20	117
	15	21.14	1.76	91	20.60	1.82	96	20.05	1.88	101	19.49	1.95	106	18.93	2.03	111	18.35	2.11	116
	10	18.91	1.68	90	18.42	1.74	95	17.93	1.80	100	17.43	1.87	105	16.92	1.94	110	16.41	2.02	115
<b>H050D</b>	45	47.51	3.03	100	46.29	3.09	105	45.05	3.16	109	43.80	3.24	114	42.53	3.33	119	41.25	3.43	123
	40	43.37	2.86	98	42.25	2.93	103	41.12	3.00	108	39.97	3.08	112	38.82	3.17	117	37.65	3.27	122
	35	39.46	2.70	97	38.45	2.77	102	37.42	2.85	106	36.37	2.93	111	35.32	3.02	116	34.26	3.12	121
	30	35.79	2.55	95	34.87	2.62	100	33.94	2.70	105	32.99	2.79	110	32.04	2.88	114	31.07	2.98	119
<b>ZS38K4E</b>	25	32.35	2.41	94	31.52	2.49	99	30.68	2.57	104	29.83	2.65	108	28.97	2.75	113	28.09	2.85	118
	20	29.14	2.28	93	28.39	2.36	98	27.64	2.44	102	26.87	2.53	107	26.10	2.62	112	25.32	2.72	117
	15	26.15	2.16	92	25.49	2.24	96	24.81	2.32	101	24.13	2.41	106	23.44	2.50	111	22.74	2.60	116
	10	23.39	2.05	90	22.80	2.13	95	22.20	2.21	100	21.59	2.30	105	20.97	2.39	110	20.35	2.48	115
<b>H060D</b>	45	57.28	3.50	100	55.82	3.60	104	54.34	3.72	109	52.84	3.84	114	51.33	3.97	118	49.79	4.11	123
	40	52.17	3.32	98	50.84	3.42	103	49.49	3.54	107	48.13	3.66	112	46.75	3.79	117	45.36	3.93	122
	35	47.38	3.15	96	46.18	3.26	101	44.96	3.37	106	43.72	3.49	111	42.48	3.63	116	41.21	3.76	120
	30	42.91	3.00	95	41.82	3.10	100	40.72	3.22	105	39.61	3.34	109	38.48	3.47	114	37.34	3.60	119
<b>ZS45K4E</b>	25	38.75	2.85	94	37.77	2.96	99	36.78	3.07	103	35.78	3.19	108	34.77	3.32	113	33.74	3.45	118
	20	34.88	2.72	92	34.00	2.82	97	33.12	2.94	102	32.22	3.06	107	31.31	3.18	112	30.4	3.31	117
	15	31.30	2.60	91	30.52	2.70	96	29.72	2.81	101	28.92	2.93	106	28.11	3.05	111	27.29	3.17	116
	10	27.99	2.49	90	27.29	2.59	95	26.58	2.70	100	25.87	2.81	105	25.15	2.93	110	24.42	3.05	115

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND SCROLL COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE (Continued)**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H100D</b>	45	93.81	6.91	100	91.83	7.07	104	89.74	7.25	109	87.56	7.44	114	85.29	7.66	119	82.96	7.89	123
	40	86.32	6.49	98	84.43	6.66	103	82.44	6.85	108	80.36	7.05	112	78.22	7.28	117	76.01	7.51	122
	35	79.10	6.12	97	77.30	6.30	101	75.42	6.49	106	73.45	6.70	111	71.43	6.93	116	69.35	7.16	121
	30	72.18	5.79	95	70.47	5.97	100	68.69	6.17	105	66.84	6.38	110	64.94	6.61	115	63.00	6.84	119
<b>ZS75K4E</b>	25	65.55	5.49	94	63.95	5.68	99	62.28	5.88	104	60.55	6.09	109	58.78	6.32	113	56.97	6.55	118
	20	59.25	5.22	93	57.75	5.41	98	56.19	5.61	103	54.59	5.82	107	52.95	6.04	112	51.29	6.27	117
	15	53.29	4.98	92	51.90	5.17	97	50.46	5.37	101	48.99	5.57	106	47.49	5.79	111	45.98	6.01	116
	10	47.69	4.76	91	46.41	4.94	96	45.09	5.14	100	43.75	5.34	105	42.40	5.54	110	41.05	5.75	115

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND REED COMPRESSORS R22 LOW TEMPERATURE

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0045</b>	-15	2.64	0.50	87	2.51	0.50	92	2.37	0.51	97	2.24	0.51	102	2.11	0.51	106	1.97	0.51	111
	-20	2.23	0.47	86	2.11	0.47	91	1.98	0.47	96	1.86	0.47	101	1.74	0.47	105	1.62	0.47	110
	-25	1.87	0.43	86	1.75	0.43	90	1.63	0.43	95	1.51	0.43	100	1.40	0.43	105	1.29	0.42	110
<b>KAN-005L</b>	-30	1.55	0.40	85	1.43	0.40	90	1.32	0.40	94	1.21	0.39	99	1.10	0.39	104	0.99	0.38	109
	-35	1.27	0.38	84	1.16	0.37	89	1.05	0.37	94	0.94	0.36	99	0.83	0.36	103	0.73	0.35	108
	-40	1.04	0.36	84	0.93	0.35	89	0.81	0.34	93	0.70	0.34	98	0.60	0.33	103	0.50	0.32	108
<b>H0075</b>	-15	4.20	0.67	91	4.01	0.68	95	3.82	0.69	100	3.63	0.69	105	3.45	0.70	110	3.27	0.70	114
	-20	3.63	0.63	89	3.46	0.63	94	3.29	0.64	99	3.12	0.64	104	2.95	0.64	108	2.79	0.64	113
	-25	3.12	0.59	88	2.96	0.59	93	2.80	0.59	98	2.65	0.59	103	2.49	0.59	107	2.34	0.59	112
<b>KAM-007L</b>	-30	2.65	0.54	87	2.51	0.54	92	2.36	0.54	97	2.22	0.54	102	2.07	0.54	106	1.93	0.53	111
	-35	2.23	0.50	86	2.09	0.50	91	1.96	0.50	96	1.82	0.49	101	1.69	0.49	106	1.55	0.48	110
	-40	1.85	0.46	86	1.72	0.46	90	1.59	0.45	95	1.46	0.45	100	1.33	0.44	105	1.21	0.43	109
<b>H0095</b>	-15	5.43	0.90	94	5.20	0.91	99	4.97	0.92	103	4.73	0.93	108	4.50	0.94	113	4.28	0.95	117
	-20	4.72	0.84	92	4.51	0.85	97	4.30	0.86	102	4.09	0.87	107	3.88	0.87	111	3.68	0.88	116
	-25	4.08	0.78	91	3.88	0.79	96	3.69	0.79	101	3.50	0.80	105	3.31	0.80	110	3.13	0.80	115
<b>KAJ-010L</b>	-30	3.49	0.73	90	3.32	0.73	95	3.14	0.73	99	2.97	0.74	104	2.80	0.74	109	2.64	0.74	113
	-35	2.98	0.67	89	2.81	0.67	93	2.65	0.68	98	2.50	0.67	103	2.35	0.67	108	2.20	0.67	112
	-40	2.53	0.62	88	2.38	0.62	92	2.23	0.62	97	2.09	0.62	102	1.95	0.61	107	1.82	0.61	111
<b>H0205</b>	-15	6.24	1.01	93	5.95	1.03	98	5.67	1.04	102	5.39	1.05	107	5.11	1.06	112	4.84	1.07	116
	-20	5.42	0.94	91	5.16	0.96	96	4.91	0.97	101	4.65	0.98	106	4.40	0.99	110	4.16	0.99	115
	-25	4.67	0.88	90	4.45	0.89	95	4.22	0.90	100	3.99	0.90	104	3.77	0.91	109	3.55	0.91	114
<b>KAK-020L</b>	-30	4.00	0.82	89	3.80	0.82	94	3.60	0.83	99	3.39	0.83	103	3.19	0.84	108	2.99	0.84	113
	-35	3.38	0.76	88	3.21	0.76	93	3.03	0.76	98	2.85	0.76	102	2.67	0.76	107	2.49	0.76	112
	-40	2.81	0.69	87	2.66	0.70	92	2.50	0.70	97	2.34	0.70	101	2.18	0.69	106	2.02	0.69	111

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND REED COMPRESSORS  
R22 LOW TEMPERATURE (Continued)**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0215</b>	-15	8.91	1.51	99	8.50	1.53	103	8.09	1.54	108	7.69	1.56	112	7.29	1.56	117	6.90	1.57	121
	-20	7.75	1.39	97	7.38	1.40	101	7.02	1.41	106	6.65	1.42	110	6.29	1.43	115	5.94	1.43	119
	-25	6.68	1.27	95	6.35	1.28	99	6.02	1.29	104	5.69	1.29	108	5.37	1.29	113	5.05	1.29	118
<b>EAD-020L</b>	-30	5.68	1.16	93	5.39	1.16	97	5.10	1.17	102	4.80	1.17	107	4.52	1.16	111	4.23	1.16	116
	-35	4.76	1.04	91	4.50	1.05	96	4.24	1.05	100	3.99	1.04	105	3.73	1.04	110	3.48	1.03	114
	-40	3.91	0.93	89	3.68	0.93	94	3.46	0.93	99	3.24	0.92	104	3.01	0.92	108	2.80	0.90	113
<b>H0225</b>	-15	10.46	1.77	97	10.05	1.80	101	9.63	1.83	106	9.20	1.86	111	8.74	1.88	115	8.25	1.89	120
	-20	8.92	1.65	95	8.56	1.68	100	8.19	1.71	104	7.81	1.74	109	7.41	1.76	114	6.97	1.77	118
	-25	7.53	1.53	93	7.21	1.56	98	6.89	1.59	103	6.56	1.62	107	6.21	1.64	112	5.82	1.65	117
<b>EAV-020L</b>	-30	6.32	1.43	91	6.05	1.46	96	5.77	1.49	101	5.49	1.52	106	5.18	1.54	111	4.84	1.55	115
	-35	5.33	1.35	90	5.10	1.38	95	4.87	1.41	100	4.63	1.44	105	4.36	1.46	110	4.06	1.47	114
	-40	4.61	1.29	89	4.42	1.33	94	4.23	1.36	99	4.02	1.38	104	3.79	1.40	109	3.52	1.42	114
<b>H0265</b>	-15	12.95	2.40	101	12.37	2.44	106	11.78	2.47	111	11.20	2.50	115	10.62	2.52	120	10.03	2.53	124
	-20	11.24	2.20	99	10.69	2.23	104	10.15	2.25	108	9.61	2.26	113	9.07	2.27	117	8.51	2.27	122
	-25	9.63	2.00	97	9.14	2.02	101	8.65	2.04	106	8.16	2.05	110	7.66	2.05	115	7.14	2.04	119
<b>3AJ-021L</b>	-30	8.13	1.81	95	7.71	1.83	99	7.27	1.84	104	6.83	1.84	108	6.38	1.83	113	5.91	1.81	117
	-35	6.73	1.63	92	6.37	1.64	97	6.01	1.65	102	5.63	1.64	106	5.23	1.63	111	4.81	1.61	116
	-40	5.42	1.45	91	5.14	1.46	95	4.85	1.47	100	4.54	1.46	105	4.20	1.45	109	3.84	1.42	114
<b>H0315</b>	-15	15.94	2.49	98	15.34	2.54	103	14.73	2.58	107	14.10	2.61	112	13.43	2.62	117	12.69	2.61	121
	-20	13.55	2.25	96	13.02	2.28	100	12.49	2.32	105	11.95	2.34	110	11.37	2.35	114	10.72	2.34	119
	-25	11.37	2.02	94	10.89	2.04	98	10.43	2.07	103	9.97	2.09	108	9.46	2.09	112	8.90	2.08	117
<b>LAH-031L</b>	-30	9.44	1.81	92	9.02	1.83	96	8.61	1.85	101	8.21	1.86	106	7.78	1.86	111	7.29	1.84	115
	-35	7.84	1.63	90	7.45	1.64	95	7.09	1.65	99	6.74	1.66	104	6.36	1.66	109	5.93	1.64	114
	-40	6.60	1.49	89	6.25	1.49	93	5.93	1.50	98	5.62	1.50	103	5.28	1.49	108	4.90	1.46	112

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND REED COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0055</b>	45	7.92	0.47	92	7.61	0.49	96	7.30	0.51	101	6.99	0.54	106	6.68	0.56	111	6.38	0.58	115
	40	7.15	0.46	91	6.87	0.48	96	6.59	0.50	100	6.30	0.52	105	6.02	0.54	110	5.75	0.56	115
	35	6.44	0.45	90	6.18	0.47	95	5.92	0.49	99	5.66	0.51	104	5.41	0.53	109	5.15	0.55	114
	30	5.76	0.45	89	5.53	0.46	94	5.30	0.48	99	5.06	0.50	103	4.83	0.51	108	4.60	0.53	113
<b>HAG-005L</b>	25	5.14	0.44	88	4.93	0.45	93	4.72	0.47	98	4.50	0.48	103	4.29	0.49	107	4.09	0.51	112
	20	4.57	0.42	87	4.37	0.44	92	4.18	0.45	97	3.99	0.46	102	3.80	0.48	107	3.61	0.49	112
	15	4.04	0.41	87	3.87	0.42	92	3.69	0.43	96	3.52	0.45	101	3.35	0.46	106	3.18	0.47	111
	10	3.56	0.40	86	3.40	0.41	91	3.25	0.42	96	3.09	0.43	101	2.93	0.44	106	2.78	0.45	110
<b>H0085</b>	45	11.68	0.67	97	11.29	0.70	102	10.90	0.74	107	10.51	0.77	111	10.12	0.80	116	9.73	0.84	121
	40	10.53	0.67	96	10.17	0.70	101	9.82	0.73	105	9.47	0.76	110	9.11	0.79	115	8.76	0.82	119
	35	9.47	0.66	95	9.13	0.69	99	8.81	0.72	104	8.49	0.74	109	8.17	0.77	113	7.85	0.80	118
	30	8.48	0.64	93	8.17	0.67	98	7.87	0.69	103	7.58	0.72	107	7.29	0.74	112	7.00	0.76	117
<b>KAN-007L</b>	25	7.57	0.62	92	7.28	0.65	97	7.00	0.67	101	6.73	0.69	106	6.46	0.71	111	6.20	0.73	116
	20	6.73	0.60	91	6.45	0.62	96	6.19	0.64	100	5.94	0.66	105	5.69	0.67	110	5.45	0.69	115
	15	5.96	0.58	90	5.69	0.59	95	5.44	0.61	99	5.20	0.62	104	4.98	0.64	109	4.75	0.65	114
	10	5.26	0.56	89	5.00	0.57	94	4.76	0.58	98	4.53	0.60	103	4.31	0.61	108	4.10	0.62	113
<b>H0115</b>	45	15.55	0.87	103	15.02	0.91	107	14.48	0.95	112	13.95	0.99	116	13.43	1.03	121	12.90	1.07	126
	40	14.23	0.82	101	13.74	0.86	106	13.25	0.90	110	12.76	0.94	115	12.28	0.97	119	11.79	1.00	124
	35	12.96	0.78	99	12.51	0.81	104	12.06	0.84	108	11.61	0.88	113	11.17	0.91	118	10.73	0.94	122
	30	11.75	0.73	98	11.34	0.76	102	10.93	0.79	107	10.52	0.82	111	10.11	0.84	116	9.70	0.87	121
<b>KAR-010L</b>	25	10.60	0.68	96	10.22	0.70	101	9.85	0.73	105	9.47	0.76	110	9.10	0.78	115	8.73	0.80	119
	20	9.51	0.63	94	9.17	0.65	99	8.83	0.67	104	8.49	0.70	108	8.15	0.72	113	7.81	0.74	118
	15	8.50	0.58	93	8.19	0.60	98	7.88	0.62	102	7.57	0.64	107	7.26	0.65	112	6.95	0.67	116
	10	7.56	0.53	92	7.28	0.54	96	7.00	0.56	101	6.71	0.58	106	6.43	0.59	110	6.15	0.61	115

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND REED COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0245</b> <b>ERC-020L</b>	25	19.56	1.96	106	18.81	2.01	111	18.06	2.06	115	17.31	2.12	120	16.56	2.17	124	15.81	2.22	129
	20	17.46	1.86	104	16.79	1.90	109	16.12	1.95	113	15.46	1.99	118	14.79	2.04	122	14.12	2.09	126
	15	15.51	1.76	102	14.91	1.80	106	14.32	1.83	111	13.72	1.87	115	13.13	1.91	120	12.53	1.95	124
	10	13.71	1.66	100	13.18	1.69	104	12.65	1.72	109	12.12	1.75	113	11.59	1.78	118	11.06	1.81	122
	5	12.06	1.57	98	11.58	1.59	102	11.11	1.61	107	10.64	1.64	111	10.16	1.66	116	9.69	1.68	121
<b>H0305</b> <b>EAD-032L</b>	45	37.25	2.92	115	36.03	3.03	119	34.81	3.13	124	33.61	3.23	128	32.42	3.32	132	31.26	3.41	137
	40	34.19	2.81	112	33.04	2.91	117	31.90	3.00	121	30.77	3.08	126	29.65	3.17	130	28.56	3.25	134
	35	31.25	2.70	110	30.18	2.78	114	29.11	2.86	119	28.05	2.94	123	27.00	3.01	128	25.98	3.08	132
	30	28.44	2.58	108	27.45	2.65	112	26.45	2.73	116	25.46	2.79	121	24.48	2.86	125	23.52	2.92	130
	25	25.77	2.46	105	24.85	2.53	110	23.92	2.59	114	23.00	2.65	119	22.09	2.71	123	21.19	2.76	128
<b>EAD-032L</b>	20	23.25	2.34	103	22.39	2.40	108	21.54	2.46	112	20.68	2.51	117	19.84	2.56	121	19.01	2.61	126
	15	20.88	2.23	101	20.09	2.28	106	19.30	2.34	110	18.52	2.38	115	17.73	2.42	119	16.97	2.46	124
	10	18.67	2.12	99	17.96	2.17	104	17.23	2.22	108	16.51	2.26	113	15.79	2.29	118	15.09	2.33	122
<b>H0335</b> <b>3RA-031L</b>	25	34.29	3.70	110	32.86	3.80	114	31.43	3.90	118	30.01	3.99	123	28.58	4.09	127	27.16	4.19	131
	20	30.95	3.47	107	29.64	3.56	111	28.32	3.64	116	27.00	3.73	120	25.68	3.81	124	24.36	3.89	129
	15	27.77	3.26	105	26.55	3.33	109	25.34	3.40	113	24.12	3.47	118	22.90	3.54	122	21.69	3.60	126
	10	24.74	3.07	102	23.62	3.12	107	22.50	3.17	111	21.38	3.23	115	20.26	3.28	120	19.13	3.33	124
	5	21.87	2.89	100	20.84	2.93	104	19.81	2.96	109	18.77	3.00	113	17.74	3.03	118	16.71	3.07	122

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
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R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0355</b>	45	39.49	3.66	113	38.18	3.77	117	36.93	3.88	122	35.75	3.98	126	34.63	4.09	131	33.58	4.18	135
	40	36.31	3.52	110	35.05	3.62	115	33.85	3.71	119	32.70	3.80	124	31.61	3.89	128	30.56	3.97	133
	35	33.22	3.38	108	32.04	3.47	113	30.90	3.55	117	29.80	3.63	122	28.74	3.70	126	27.72	3.77	131
	30	30.25	3.23	106	29.14	3.31	110	28.07	3.38	115	27.03	3.45	119	26.02	3.51	124	25.05	3.57	129
<b>ERF-031L</b>	25	27.38	3.07	104	26.36	3.15	108	25.37	3.21	113	24.39	3.27	117	23.44	3.33	122	22.52	3.38	126
	20	24.65	2.91	102	23.71	2.98	106	22.78	3.04	111	21.88	3.09	115	21.00	3.14	120	20.14	3.18	125
	15	22.05	2.74	100	21.18	2.80	104	20.33	2.85	109	19.50	2.90	114	18.69	2.94	118	17.90	2.98	123
	10	19.62	2.56	98	18.81	2.61	102	18.03	2.66	107	17.26	2.70	112	16.52	2.74	116	15.79	2.77	121
<b>H0475</b>	45	61.22	4.87	113	58.90	5.01	117	56.65	5.15	121	54.47	5.28	125	52.36	5.41	130	50.34	5.53	134
	40	55.91	4.68	110	53.77	4.80	114	51.68	4.92	119	49.67	5.04	123	47.73	5.16	127	45.86	5.28	132
	35	50.84	4.48	108	48.86	4.59	112	46.93	4.70	116	45.07	4.80	121	43.28	4.91	125	41.58	5.01	130
	30	46.01	4.27	105	44.17	4.37	110	42.39	4.47	114	40.67	4.56	119	39.03	4.65	123	37.47	4.75	127
<b>NRB-040L</b>	25	41.4	4.06	103	39.69	4.14	108	38.05	4.23	112	36.47	4.31	116	34.96	4.39	121	33.53	4.47	125
	20	37.02	3.84	101	35.44	3.91	105	33.91	3.99	110	32.46	4.06	114	31.07	4.13	119	29.75	4.20	123
	15	32.86	3.62	99	31.39	3.68	103	29.97	3.74	108	28.62	3.80	112	27.34	3.86	117	26.12	3.92	122
	10	28.91	3.39	97	27.54	3.44	101	26.22	3.49	106	24.96	3.54	111	23.76	3.58	115	22.64	3.63	120

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND REED COMPRESSORS R404a LOW TEMPERATURE

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0045</b>	-15	3.28	0.52	86	3.06	0.53	91	2.85	0.53	96	2.66	0.53	100	2.47	0.53	105	2.28	0.52	110
	-20	2.79	0.49	85	2.59	0.49	90	2.41	0.49	95	2.23	0.49	100	2.07	0.49	105	1.90	0.48	109
	-25	2.34	0.46	85	2.17	0.46	90	2.00	0.46	94	1.85	0.45	99	1.70	0.45	104	1.55	0.44	109
<b>KAN-005L</b>	-30	1.95	0.42	84	1.79	0.42	89	1.65	0.42	94	1.51	0.41	99	1.38	0.41	103	1.24	0.39	108
	-35	1.62	0.39	84	1.47	0.39	88	1.34	0.38	93	1.21	0.37	98	1.09	0.36	103	0.97	0.35	108
	-40	1.33	0.35	83	1.20	0.35	88	1.08	0.34	93	0.96	0.34	98	0.85	0.32	102	0.74	0.31	107
<b>H0075</b>	-15	4.97	0.77	89	4.68	0.78	94	4.41	0.79	99	4.14	0.79	103	3.88	0.80	108	3.62	0.80	113
	-20	4.31	0.72	88	4.05	0.73	93	3.81	0.74	98	3.57	0.74	102	3.33	0.74	107	3.09	0.73	112
	-25	3.70	0.68	87	3.47	0.68	92	3.25	0.68	97	3.03	0.68	101	2.82	0.68	106	2.61	0.67	111
<b>KAM-007L</b>	-30	3.15	0.63	86	2.95	0.63	91	2.75	0.63	96	2.55	0.62	101	2.36	0.62	105	2.16	0.61	110
	-35	2.66	0.58	86	2.47	0.58	90	2.29	0.57	95	2.11	0.57	100	1.94	0.56	105	1.76	0.55	109
	-40	2.24	0.53	85	2.06	0.53	90	1.89	0.52	94	1.73	0.51	99	1.57	0.50	104	1.40	0.49	109
<b>H0096</b>	-15	6.69	1.03	92	6.34	1.04	97	5.98	1.06	102	5.62	1.07	106	5.26	1.08	111	4.90	1.08	115
	-20	5.87	0.97	91	5.56	0.98	96	5.24	0.99	100	4.91	1.00	105	4.59	1.00	110	4.26	1.01	114
	-25	5.12	0.90	90	4.84	0.91	95	4.55	0.92	99	4.26	0.92	104	3.96	0.93	109	3.67	0.93	113
<b>KAJ-011L</b>	-30	4.43	0.84	89	4.17	0.85	94	3.91	0.85	98	3.65	0.86	103	3.39	0.86	108	3.13	0.86	112
	-35	3.79	0.79	88	3.56	0.79	93	3.33	0.79	97	3.10	0.79	102	2.86	0.79	107	2.63	0.78	111
	-40	3.21	0.73	87	3.01	0.73	92	2.80	0.73	96	2.59	0.73	101	2.38	0.72	106	2.18	0.71	111

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
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R404a LOW TEMPERATURE (Continued)**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0146</b>	-15	9.04	1.51	97	8.59	1.53	102	8.12	1.55	106	7.65	1.57	111	7.17	1.58	115	6.69	1.59	120
	-20	8.02	1.41	95	7.62	1.43	100	7.20	1.45	105	6.78	1.46	109	6.34	1.47	114	5.89	1.47	118
	-25	7.05	1.31	94	6.69	1.33	99	6.32	1.34	103	5.93	1.35	108	5.53	1.35	112	5.11	1.35	117
<b>KAL-016L</b>	-30	6.12	1.22	92	5.81	1.23	97	5.47	1.23	102	5.11	1.24	106	4.73	1.23	111	4.33	1.22	115
	-35	5.22	1.11	91	4.94	1.12	96	4.62	1.12	100	4.28	1.12	105	3.92	1.11	109	3.53	1.09	114
	-40	4.34	1.01	89	4.07	1.01	94	3.77	1.01	99	3.44	0.99	103	3.08	0.98	108	2.70	0.96	112
<b>H0215</b>	-15	10.41	1.73	97	9.85	1.74	102	9.30	1.75	106	8.75	1.76	111	8.20	1.76	115	7.65	1.76	120
	-20	9.15	1.60	96	8.65	1.61	100	8.15	1.62	105	7.66	1.62	109	7.16	1.61	114	6.66	1.61	118
	-25	7.99	1.48	94	7.54	1.49	98	7.09	1.48	103	6.64	1.48	108	6.19	1.47	112	5.74	1.46	117
<b>EAD-020L</b>	-30	6.92	1.36	92	6.51	1.36	97	6.09	1.36	101	5.68	1.34	106	5.27	1.33	111	4.86	1.31	115
	-35	5.93	1.25	91	5.54	1.24	95	5.16	1.23	100	4.78	1.21	105	4.40	1.19	109	4.02	1.16	114
	-40	4.99	1.13	89	4.62	1.11	94	4.26	1.09	99	3.90	1.07	103	3.55	1.04	108	3.19	1.01	112
<b>H0225</b>	-15	11.73	1.79	97	11.02	1.79	102	10.30	1.79	106	9.58	1.79	110	8.87	1.78	115	8.18	1.77	119
	-20	10.18	1.63	95	9.54	1.63	100	8.89	1.63	104	8.24	1.62	109	7.59	1.61	113	6.96	1.59	117
	-25	8.72	1.48	93	8.15	1.48	98	7.57	1.47	102	6.98	1.46	107	6.39	1.44	111	5.82	1.42	116
<b>EAV-021L</b>	-30	7.40	1.34	92	6.90	1.33	96	6.37	1.32	101	5.83	1.31	105	5.30	1.29	110	4.78	1.26	114
	-35	6.26	1.21	90	5.81	1.20	95	5.33	1.18	99	4.84	1.16	104	4.35	1.14	108	3.88	1.11	113
	-40	5.33	1.09	89	4.92	1.08	93	4.48	1.06	98	4.03	1.04	102	3.58	1.01	107	3.15	0.98	111
<b>H0316</b>	-15	18.80	2.97	101	17.72	2.98	105	16.64	2.97	109	15.55	2.96	113	14.45	2.94	118	13.32	2.91	122
	-20	16.42	2.72	98	15.43	2.72	103	14.45	2.71	107	13.45	2.69	111	12.45	2.66	116	11.42	2.63	120
	-25	14.15	2.47	96	13.26	2.46	101	12.37	2.45	105	11.48	2.43	109	10.56	2.40	114	9.63	2.36	118
<b>LAH-032L</b>	-30	12.02	2.24	94	11.23	2.23	99	10.43	2.21	103	9.63	2.18	107	8.81	2.15	112	7.97	2.10	116
	-35	10.04	2.01	92	9.34	2.00	97	8.64	1.98	101	7.93	1.95	106	7.20	1.92	110	6.45	1.87	114
	-40	8.21	1.80	90	7.61	1.79	95	7.00	1.77	99	6.39	1.74	104	5.75	1.71	108	5.09	1.66	113

**(Continued)**

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND REED COMPRESSORS R404a LOW TEMPERATURE (Continued)

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0326</b>	-15	20.48	3.59	104	19.37	3.63	108	18.25	3.66	112	17.13	3.68	116	16.00	3.70	121	14.85	3.70	125
	-20	18.02	3.29	101	17.02	3.33	105	16.02	3.35	110	15.01	3.36	114	13.99	3.37	118	12.95	3.37	123
	-25	15.68	3.01	99	14.80	3.04	103	13.92	3.05	108	13.02	3.06	112	12.11	3.06	116	11.17	3.05	121
<b>LAL-032L</b>	-30	13.51	2.74	96	12.74	2.76	101	11.97	2.78	105	11.19	2.78	110	10.38	2.78	114	9.56	2.76	119
	-35	11.52	2.49	94	10.87	2.51	99	10.21	2.52	104	9.54	2.52	108	8.85	2.51	113	8.13	2.50	117
	-40	9.76	2.27	93	9.23	2.28	97	8.68	2.29	102	8.12	2.29	107	7.53	2.28	111	6.92	2.26	116
<b>H0356</b>	-15	23.68	3.99	95	22.49	4.02	100	21.29	4.05	104	20.10	4.07	109	18.92	4.09	113	17.78	4.11	118
	-20	20.94	3.71	94	19.86	3.74	98	18.77	3.75	103	17.70	3.76	107	16.65	3.77	112	15.64	3.77	117
	-25	18.35	3.43	92	17.37	3.45	97	16.39	3.45	101	15.43	3.45	106	14.50	3.44	111	13.61	3.43	115
<b>NRD-032L</b>	-30	15.86	3.15	91	14.98	3.15	95	14.10	3.14	100	13.24	3.12	105	12.41	3.10	109	11.62	3.08	114
	-35	13.42	2.84	89	12.61	2.83	94	11.82	2.81	99	11.05	2.78	103	10.31	2.74	108	9.63	2.70	113
	-40	10.96	2.51	88	10.23	2.49	93	9.51	2.45	97	8.81	2.41	102	8.16	2.36	107	7.56	2.30	111
<b>H0366</b>	-15	23.27	4.15	95	22.04	4.19	100	20.79	4.22	104	19.55	4.25	109	18.31	4.27	113	17.10	4.29	118
	-20	20.43	3.85	94	19.32	3.89	98	18.21	3.91	103	17.09	3.92	107	15.97	3.93	112	14.88	3.93	117
	-25	17.73	3.57	92	16.75	3.59	97	15.76	3.60	101	14.75	3.61	106	13.76	3.60	111	12.78	3.59	115
<b>NRD-040L</b>	-30	15.19	3.28	91	14.33	3.30	95	13.45	3.30	100	12.56	3.30	105	11.67	3.28	109	10.79	3.26	114
	-35	12.81	3.00	89	12.06	3.01	94	11.28	3.00	99	10.50	2.99	104	9.71	2.97	108	8.94	2.94	113
	-40	10.60	2.72	88	9.94	2.72	93	9.27	2.71	98	8.58	2.69	102	7.89	2.66	107	7.21	2.62	112

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND REED COMPRESSORS  
R404a MEDIUM/HIGH TEMPERATURE**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0055</b>	25	5.96	0.54	89	5.69	0.55	94	5.41	0.57	99	5.13	0.59	104	4.85	0.60	108	4.58	0.62	113
	20	5.40	0.52	89	5.13	0.54	93	4.86	0.55	98	4.58	0.56	103	4.31	0.58	108	4.03	0.59	112
	15	4.84	0.51	88	4.58	0.52	93	4.31	0.53	97	4.05	0.54	102	3.78	0.55	107	3.52	0.56	112
	10	4.28	0.49	87	4.04	0.50	92	3.79	0.51	97	3.54	0.52	101	3.29	0.53	106	3.04	0.54	111
<b>H0065</b>	25	6.84	0.66	91	6.52	0.68	96	6.20	0.70	100	5.88	0.73	105	5.55	0.75	110	5.21	0.77	114
	20	6.19	0.64	90	5.90	0.66	95	5.61	0.68	99	5.31	0.71	104	5.02	0.73	109	4.71	0.74	114
	15	5.55	0.62	89	5.29	0.64	94	5.03	0.66	99	4.76	0.68	103	4.49	0.70	108	4.21	0.71	113
	10	4.94	0.60	88	4.70	0.62	93	4.46	0.63	98	4.22	0.65	103	3.97	0.66	108	3.72	0.68	112
<b>H0115</b>	25	11.54	1.21	99	11.04	1.24	103	10.52	1.26	108	9.99	1.29	112	9.45	1.31	117	8.91	1.33	121
	20	10.41	1.17	97	9.94	1.19	102	9.46	1.22	106	8.97	1.24	111	8.47	1.25	115	7.97	1.27	120
	15	9.43	1.12	96	8.99	1.14	100	8.54	1.16	105	8.09	1.18	110	7.63	1.19	114	7.16	1.21	119
	10	8.54	1.07	95	8.14	1.09	99	7.73	1.10	104	7.31	1.12	108	6.88	1.13	113	6.45	1.14	117
<b>H0135</b>	25	13.61	1.26	101	12.95	1.30	106	12.29	1.33	110	11.64	1.36	114	10.99	1.39	119	10.33	1.41	123
	20	12.32	1.21	100	11.72	1.24	104	11.12	1.27	108	10.52	1.29	113	9.92	1.32	117	9.32	1.34	122
	15	11.15	1.15	98	10.60	1.18	102	10.05	1.21	107	9.50	1.23	111	8.95	1.25	116	8.41	1.27	120
	10	10.07	1.10	97	9.57	1.13	101	9.07	1.15	106	8.57	1.17	110	8.07	1.19	115	7.58	1.20	119
<b>H0206</b>	25	17.94	1.76	103	17.05	1.80	107	16.15	1.83	112	15.26	1.87	116	14.36	1.90	120	13.47	1.94	125
	20	16.48	1.70	102	15.68	1.74	106	14.88	1.78	110	14.07	1.82	115	13.27	1.85	119	12.47	1.88	123
	15	14.94	1.62	100	14.23	1.66	104	13.51	1.70	109	12.79	1.73	113	12.07	1.77	118	11.35	1.80	122
	10	13.40	1.53	98	12.77	1.57	103	12.13	1.60	107	11.48	1.63	112	10.84	1.66	116	10.19	1.69	121

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND REED COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0246</b>	25	21.71	2.52	109	20.60	2.58	114	19.50	2.64	118	18.40	2.70	122	17.31	2.75	126	16.22	2.80	130
	20	19.84	2.40	107	18.81	2.46	111	17.79	2.51	116	16.77	2.56	120	15.77	2.61	124	14.77	2.65	128
	15	18.09	2.28	105	17.14	2.33	109	16.20	2.38	114	15.27	2.42	118	14.34	2.46	122	13.43	2.50	127
	10	16.44	2.15	103	15.57	2.19	107	14.70	2.24	112	13.85	2.28	116	13.01	2.31	120	12.17	2.34	125
<b>ERC-021L</b>	25	32.36	3.48	107	30.83	3.58	111	29.28	3.68	115	27.72	3.77	120	26.15	3.86	124	24.58	3.95	128
	20	29.51	3.31	105	28.11	3.40	109	26.69	3.49	113	25.27	3.58	118	23.83	3.66	122	22.40	3.74	126
	15	26.82	3.15	103	25.54	3.23	107	24.25	3.31	112	22.95	3.39	116	21.64	3.46	120	20.33	3.53	125
	10	24.28	2.98	101	23.12	3.06	105	21.94	3.13	110	20.75	3.20	114	19.55	3.26	119	18.36	3.33	123
<b>H0355</b>	25	37.00	4.44	112	34.96	4.54	116	32.93	4.64	120	30.91	4.73	124	28.91	4.81	128	26.91	4.89	132
	20	33.80	4.18	109	31.93	4.27	113	30.07	4.36	117	28.21	4.44	121	26.37	4.52	126	24.54	4.59	130
	15	30.71	3.93	107	28.99	4.01	111	27.29	4.09	115	25.59	4.16	119	23.91	4.23	123	22.24	4.29	128
	10	27.73	3.69	104	26.16	3.76	109	24.60	3.83	113	23.06	3.89	117	21.53	3.95	121	20.01	4.00	126
<b>H0335</b>	25	45.69	4.75	105	43.35	4.83	109	41.02	4.91	113	38.71	4.98	117	36.42	5.04	122	34.16	5.09	126
	20	41.43	4.52	103	39.29	4.60	107	37.16	4.67	111	35.06	4.73	116	32.97	4.78	120	30.91	4.83	124
	15	37.40	4.30	101	35.45	4.37	105	33.51	4.42	110	31.59	4.47	114	29.70	4.52	118	27.83	4.55	123
	10	33.59	4.08	99	31.81	4.13	104	30.04	4.18	108	28.30	4.22	112	26.58	4.25	117	24.88	4.28	121
<b>3RA-031L</b>	25	45.69	4.75	105	43.35	4.83	109	41.02	4.91	113	38.71	4.98	117	36.42	5.04	122	34.16	5.09	126
	20	41.43	4.52	103	39.29	4.60	107	37.16	4.67	111	35.06	4.73	116	32.97	4.78	120	30.91	4.83	124
	15	37.40	4.30	101	35.45	4.37	105	33.51	4.42	110	31.59	4.47	114	29.70	4.52	118	27.83	4.55	123
	10	33.59	4.08	99	31.81	4.13	104	30.04	4.18	108	28.30	4.22	112	26.58	4.25	117	24.88	4.28	121
<b>H0475</b>	25	45.69	4.75	105	43.35	4.83	109	41.02	4.91	113	38.71	4.98	117	36.42	5.04	122	34.16	5.09	126
	20	41.43	4.52	103	39.29	4.60	107	37.16	4.67	111	35.06	4.73	116	32.97	4.78	120	30.91	4.83	124
	15	37.40	4.30	101	35.45	4.37	105	33.51	4.42	110	31.59	4.47	114	29.70	4.52	118	27.83	4.55	123
	10	33.59	4.08	99	31.81	4.13	104	30.04	4.18	108	28.30	4.22	112	26.58	4.25	117	24.88	4.28	121
<b>NRB-040L</b>	25	45.69	4.75	105	43.35	4.83	109	41.02	4.91	113	38.71	4.98	117	36.42	5.04	122	34.16	5.09	126
	20	41.43	4.52	103	39.29	4.60	107	37.16	4.67	111	35.06	4.73	116	32.97	4.78	120	30.91	4.83	124
	15	37.40	4.30	101	35.45	4.37	105	33.51	4.42	110	31.59	4.47	114	29.70	4.52	118	27.83	4.55	123
	10	33.59	4.08	99	31.81	4.13	104	30.04	4.18	108	28.30	4.22	112	26.58	4.25	117	24.88	4.28	121

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND REED COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0225</b>	45	26.17	2.67	115	25.17	2.75	120	24.18	2.82	124	23.19	2.90	128	22.21	2.97	132	21.23	3.04	137
	40	23.87	2.55	113	22.94	2.62	117	22.02	2.70	121	21.11	2.76	126	20.20	2.83	130	19.29	2.89	134
	35	21.69	2.43	110	20.84	2.50	114	19.99	2.57	119	19.14	2.64	123	18.30	2.70	128	17.47	2.75	132
	30	19.63	2.32	108	18.84	2.39	112	18.06	2.45	117	17.29	2.51	121	16.52	2.57	125	15.75	2.62	130
<b>EAVA-021L</b>	25	17.69	2.21	105	16.96	2.27	110	16.25	2.33	114	15.54	2.38	119	14.83	2.44	123	14.13	2.49	128
	20	15.85	2.11	103	15.19	2.16	108	14.53	2.21	112	13.89	2.26	117	13.25	2.31	121	12.61	2.35	126
	15	14.12	2.00	101	13.51	2.05	106	12.92	2.10	110	12.33	2.14	115	11.75	2.18	119	11.17	2.22	124
	10	12.48	1.90	99	11.94	1.94	104	11.40	1.98	108	10.87	2.02	113	10.34	2.06	118	9.82	2.10	122
<b>H0315</b>	25	27.51	2.73	107	26.40	2.79	111	25.31	2.84	116	24.23	2.89	120	23.16	2.94	124	22.09	2.98	129
	20	24.71	2.57	105	23.70	2.62	109	22.70	2.67	113	21.71	2.71	118	20.73	2.75	122	19.76	2.78	127
	15	22.05	2.42	102	21.13	2.46	107	20.22	2.50	111	19.32	2.53	116	18.43	2.56	120	17.55	2.59	124
<b>LAHA-031L</b>	10	19.54	2.26	100	18.70	2.30	105	17.88	2.33	109	17.06	2.36	113	16.25	2.38	118	15.45	2.40	122
	5	17.16	2.11	98	16.40	2.14	102	15.65	2.16	107	14.91	2.18	111	14.18	2.20	116	13.46	2.21	121
	0	14.89	1.96	96	14.20	1.98	100	13.53	2.00	105	12.86	2.01	110	12.21	2.02	114	11.56	2.03	119

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R22 LOW TEMPERATURE DEMAND COOLING

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0304</b>	-15	21.94	3.04	94	20.97	3.11	98	19.99	3.18	103	19.00	3.23	108	18.02	3.28	112	17.05	3.32	117
	-20	18.97	2.83	92	18.12	2.90	97	17.25	2.95	101	16.36	3.00	106	15.47	3.04	111	14.58	3.06	116
	-25	16.32	2.65	91	15.57	2.69	95	14.79	2.74	100	13.99	2.77	105	13.18	2.79	110	12.36	2.80	114
<b>2DF-030L</b>	-30	13.94	2.46	89	13.28	2.49	94	12.58	2.52	99	11.85	2.53	104	11.10	2.54	108	10.33	2.53	113
	-35	11.79	2.27	88	11.19	2.28	93	10.55	2.28	98	9.88	2.28	102	9.17	2.26	107	8.44	2.23	112
	-40	9.79	2.06	87	9.25	2.05	92	8.65	2.03	97	8.01	1.99	101	7.33	1.95	106	6.62	1.90	111
<b>H0404</b>	-15	25.87	3.66	96	24.77	3.73	101	23.66	3.80	105	22.53	3.85	110	21.39	3.90	115	20.24	3.95	119
	-20	22.40	3.39	94	21.40	3.45	99	20.39	3.51	104	19.37	3.56	108	18.33	3.60	113	17.27	3.63	117
	-25	19.20	3.13	93	18.30	3.18	97	17.38	3.23	102	16.45	3.27	107	15.51	3.30	111	14.55	3.32	116
<b>2DL-040L</b>	-30	16.28	2.88	91	15.47	2.92	96	14.64	2.95	100	13.81	2.98	105	12.95	3.00	110	12.09	3.00	114
	-35	13.66	2.63	90	12.93	2.66	94	12.20	2.68	99	11.44	2.70	104	10.68	2.70	108	9.90	2.70	113
	-40	11.35	2.38	88	10.71	2.40	93	10.05	2.42	98	9.38	2.42	102	8.70	2.41	107	8.00	2.39	112
<b>H0504</b>	-15	29.43	4.30	99	28.15	4.38	103	26.85	4.46	108	25.52	4.53	112	24.17	4.59	117	22.78	4.64	121
	-20	25.56	4.01	96	24.40	4.08	101	23.22	4.14	106	22.01	4.20	110	20.78	4.25	115	19.52	4.29	119
	-25	21.98	3.72	95	20.93	3.78	99	19.86	3.83	104	18.78	3.88	108	17.67	3.92	113	16.54	3.95	118
<b>2DA-060L</b>	-30	18.67	3.43	93	17.73	3.48	97	16.79	3.52	102	15.82	3.56	107	14.85	3.59	111	13.85	3.60	116
	-35	15.64	3.14	91	14.82	3.18	96	13.99	3.21	101	13.15	3.24	105	12.30	3.26	110	11.44	3.26	115
	-40	12.89	2.84	90	12.19	2.88	94	11.48	2.90	99	10.76	2.92	104	10.04	2.92	108	9.31	2.92	113
<b>H0524</b>	-15	30.92	4.50	99	29.64	4.57	104	28.36	4.64	109	27.05	4.70	113	25.74	4.76	118	24.40	4.81	122
	-20	27.04	4.18	97	25.88	4.24	102	24.70	4.29	107	23.50	4.34	111	22.29	4.38	116	21.06	4.42	120
	-25	23.47	3.86	95	22.41	3.91	100	21.34	3.95	105	20.25	3.99	109	19.15	4.02	114	18.03	4.05	118
<b>2DB-060L</b>	-30	20.17	3.54	94	19.23	3.59	98	18.27	3.62	103	17.29	3.65	108	16.29	3.67	112	15.28	3.69	117
	-35	17.12	3.23	92	16.29	3.27	97	15.44	3.30	101	14.57	3.32	106	13.69	3.33	111	12.79	3.34	115
	-40	14.28	2.93	90	13.57	2.96	95	12.83	2.98	100	12.08	2.99	104	11.31	3.00	109	10.51	3.01	114

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND DISCUS COMPRESSORS  
R22 LOW TEMPERATURE (Continued)  
DEMAND COOLING**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0604</b>	-15	35.17	5.17	98	33.83	5.29	103	32.46	5.40	108	31.06	5.51	112	29.61	5.61	117	28.11	5.71	122
	-20	30.68	4.82	96	29.46	4.92	101	28.22	5.02	106	26.94	5.10	111	25.61	5.19	115	24.24	5.26	120
	-25	26.59	4.48	95	25.48	4.56	99	24.34	4.64	104	23.16	4.71	109	21.95	4.77	113	20.68	4.82	118
<b>3DA-060L</b>	-30	22.89	4.14	93	21.86	4.21	98	20.81	4.27	102	19.72	4.31	107	18.59	4.35	112	17.41	4.37	116
	-35	19.55	3.81	91	18.59	3.86	96	17.60	3.89	101	16.58	3.92	106	15.51	3.93	110	14.40	3.92	115
	-40	16.55	3.49	90	15.63	3.51	95	14.69	3.52	99	13.72	3.52	104	12.70	3.50	109	11.63	3.47	113
<b>H0734</b>	-15	42.42	6.27	101	40.66	6.40	105	38.91	6.52	110	37.17	6.64	114	35.46	6.75	119	33.81	6.85	124
	-20	37.46	5.82	99	35.82	5.93	103	34.18	6.04	108	32.54	6.14	112	30.92	6.23	117	29.34	6.31	122
	-25	32.88	5.38	97	31.37	5.48	101	29.83	5.57	106	28.28	5.65	110	26.75	5.73	115	25.24	5.79	120
<b>3DB-075L</b>	-30	28.66	4.96	95	27.26	5.04	99	25.82	5.12	104	24.36	5.18	109	22.90	5.24	113	21.45	5.29	118
	-35	24.72	4.54	93	23.43	4.61	98	22.08	4.67	102	20.71	4.72	107	19.31	4.76	112	17.93	4.79	116
	-40	21.03	4.14	91	19.84	4.19	96	18.58	4.24	101	17.27	4.27	105	15.95	4.30	110	14.61	4.31	115
<b>H0934</b>	-15	51.51	7.63	100	49.46	7.78	105	47.37	7.92	110	45.26	8.05	114	43.14	8.18	119	41.03	8.31	123
	-20	45.12	7.07	98	43.21	7.20	103	41.27	7.32	107	39.30	7.44	112	37.32	7.55	117	35.35	7.66	121
	-25	39.15	6.53	96	37.41	6.65	101	35.62	6.75	105	33.81	6.85	110	31.98	6.95	115	30.16	7.04	119
<b>3DF-090L</b>	-30	33.63	6.02	94	32.06	6.12	99	30.44	6.22	104	28.80	6.30	108	27.14	6.39	113	25.47	6.47	118
	-35	28.56	5.53	92	27.17	5.63	97	25.74	5.72	102	24.28	5.80	107	22.80	5.87	111	21.31	5.94	116
	-40	23.95	5.09	91	22.77	5.19	96	21.54	5.27	100	20.27	5.34	105	18.98	5.41	110	17.68	5.47	115
<b>H1064</b>	-15	56.29	8.30	99	54.19	8.48	103	52.06	8.65	108	49.89	8.82	113	47.64	8.98	117	45.31	9.14	122
	-20	49.31	7.72	97	47.37	7.88	101	45.42	8.04	106	43.44	8.18	111	41.40	8.33	115	39.29	8.46	120
	-25	42.84	7.17	95	41.05	7.31	100	39.27	7.45	104	37.47	7.58	109	35.64	7.71	114	33.76	7.83	118
<b>3DS-100L</b>	-30	36.83	6.64	93	35.19	6.77	98	33.58	6.89	103	31.97	7.01	107	30.34	7.12	112	28.67	7.23	117
	-35	31.26	6.12	92	29.77	6.24	96	28.32	6.35	101	26.90	6.46	106	25.47	6.56	111	24.02	6.66	115
	-40	26.09	5.60	90	24.74	5.72	95	23.46	5.83	100	22.22	5.94	104	20.99	6.03	109	19.75	6.13	114

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R22 LOW TEMPERATURE (Continued) DEMAND COOLING

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1314</b>  <b>4DA-100L</b>	-15	60.41	9.11	99	57.96	9.35	104	55.40	9.57	109	52.73	9.75	113	49.95	9.89	118	47.03	9.98	122
	-20	52.56	8.43	97	50.26	8.63	102	47.88	8.81	106	45.39	8.95	111	42.79	9.05	116	40.07	9.10	120
	-25	45.28	7.77	95	43.12	7.93	100	40.89	8.06	104	38.56	8.16	109	36.14	8.21	114	33.61	8.23	118
	-30	38.54	7.10	93	36.51	7.22	98	34.41	7.31	103	32.23	7.36	107	29.97	7.37	112	27.62	7.34	116
	-35	32.30	6.43	91	30.38	6.50	96	28.40	6.54	101	26.36	6.54	105	24.25	6.51	110	22.06	6.44	114
	-40	26.52	5.72	90	24.70	5.74	94	22.83	5.74	99	20.92	5.70	104	18.95	5.62	108	16.90	5.49	113
<b>H1514</b>  <b>4DL-150L</b>	-15	77.57	11.78	100	74.51	12.11	105	71.36	12.43	109	68.14	12.72	114	64.85	12.99	118	61.50	13.22	123
	-20	68.23	10.96	98	65.37	11.25	103	62.44	11.53	107	59.44	11.78	112	56.37	12.00	116	53.26	12.19	121
	-25	59.54	10.18	96	56.87	10.42	101	54.13	10.66	105	51.34	10.87	110	48.49	11.05	115	45.60	11.19	119
	-30	51.44	9.42	94	48.96	9.62	99	46.41	9.81	104	43.82	9.98	108	41.18	10.12	113	38.50	10.22	117
	-35	43.92	8.67	92	41.60	8.83	97	39.24	8.98	102	36.84	9.11	107	34.39	9.21	111	31.92	9.27	116
	-40	36.93	7.93	91	34.77	8.05	96	32.58	8.16	100	30.36	8.25	105	28.10	8.31	110	25.82	8.33	114
<b>H2204</b>  <b>4DT-220L</b>	-15	90.70	13.65	98	87.62	14.06	103	84.58	14.48	108	81.49	14.87	113	78.23	15.24	118	74.73	15.55	122
	-20	80.10	12.80	97	77.23	13.16	101	74.45	13.53	106	71.64	13.88	111	68.70	14.20	116	65.54	14.47	121
	-25	70.43	11.99	95	67.75	12.30	100	65.18	12.62	105	62.61	12.92	109	59.95	13.19	114	57.09	13.41	119
	-30	61.41	11.17	93	58.87	11.43	98	56.48	11.69	103	54.12	11.94	108	51.69	12.15	113	49.09	12.32	117
	-35	52.74	10.31	92	50.30	10.51	97	48.05	10.72	101	45.85	10.91	106	43.62	11.06	111	41.24	11.18	116
	-40	44.11	9.37	90	41.74	9.51	95	39.58	9.65	100	37.51	9.78	105	35.43	9.88	109	33.24	9.93	114
<b>H2704</b>  <b>6DL-270L</b>	-15	114.25	17.51	100	110.25	18.08	104	106.15	18.63	109	101.87	19.13	114	97.34	19.55	119	92.53	19.88	123
	-20	100.75	16.36	98	97.04	16.87	102	93.25	17.35	107	89.31	17.78	112	85.14	18.13	117	80.70	18.40	121
	-25	88.17	15.23	96	84.71	15.67	101	81.19	16.08	105	77.54	16.44	110	73.68	16.72	115	69.57	16.91	119
	-30	76.33	14.11	94	73.07	14.47	99	69.78	14.81	104	66.38	15.08	108	62.79	15.28	113	58.97	15.39	118
	-35	65.05	12.96	92	61.95	13.24	97	58.84	13.49	102	55.65	13.68	107	52.29	13.79	111	48.71	13.80	116
	-40	54.13	11.76	91	51.15	11.95	95	48.18	12.10	100	45.15	12.20	105	41.98	12.22	110	38.60	12.14	114

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
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R22 LOW TEMPERATURE (Continued)  
DEMAND COOLING**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H3014</b>	-15	132.48	21.41	102	127.78	22.04	107	122.98	22.65	112	117.93	23.21	116	112.48	23.70	121	106.53	24.12	125
	-20	116.96	19.89	100	112.76	20.46	105	108.51	21.00	110	104.06	21.49	114	99.26	21.92	119	93.99	22.27	123
	-25	102.64	18.42	98	98.85	18.92	103	95.08	19.39	107	91.16	19.82	112	86.93	20.17	117	82.27	20.45	122
<b>6DT-300L</b>	-30	89.19	16.99	96	85.75	17.42	101	82.38	17.82	106	78.91	18.17	110	75.18	18.45	115	71.06	18.64	120
	-35	76.27	15.57	94	73.10	15.93	99	70.06	16.25	104	66.97	16.52	108	63.66	16.72	113	60.01	16.83	118
	-40	63.52	14.16	92	60.55	14.44	97	57.75	14.68	102	54.96	14.87	106	52.01	14.99	111	48.75	15.02	116

**(Continued)**

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0484</b>	45	70.94	4.36	110	68.64	4.56	114	66.33	4.75	119	64.03	4.94	123	61.72	5.12	128	59.41	5.29	132
	40	64.80	4.21	107	62.66	4.39	112	60.53	4.57	116	58.39	4.74	121	56.25	4.90	125	54.12	5.05	130
	35	58.98	4.06	105	57.00	4.23	110	55.02	4.38	114	53.04	4.53	119	51.07	4.68	123	49.09	4.82	128
	30	53.48	3.90	103	51.65	4.05	108	49.82	4.19	112	47.99	4.33	117	46.16	4.45	121	44.33	4.57	126
<b>2DC-050L</b>	25	48.31	3.74	101	46.61	3.87	106	44.91	4.00	110	43.21	4.12	115	41.51	4.23	119	39.82	4.33	124
	20	43.44	3.58	99	41.86	3.69	104	40.29	3.80	109	38.71	3.90	113	37.13	3.99	118	35.56	4.08	122
	15	38.87	3.41	98	37.40	3.50	102	35.94	3.59	107	34.47	3.68	111	33.00	3.76	116	31.53	3.83	121
	10	34.59	3.23	96	33.22	3.31	101	31.85	3.39	105	30.48	3.45	110	29.10	3.52	114	27.73	3.57	119
<b>H0494</b>	45	80.84	5.16	112	78.23	5.40	116	75.62	5.62	121	73.00	5.84	125	70.39	6.06	129	67.78	6.26	134
	40	74.00	4.97	109	71.58	5.18	114	69.17	5.39	118	66.76	5.59	123	64.35	5.78	127	61.94	5.97	132
	35	67.51	4.77	107	65.27	4.97	111	63.04	5.16	116	60.81	5.34	120	58.59	5.51	125	56.37	5.68	129
	30	61.36	4.58	105	59.29	4.75	109	57.23	4.92	114	55.18	5.08	118	53.12	5.24	123	51.08	5.39	127
<b>2DD-050L</b>	25	55.55	4.38	103	53.64	4.53	107	51.74	4.68	112	49.84	4.83	116	47.94	4.96	121	46.05	5.09	125
	20	50.08	4.18	101	48.31	4.31	105	46.55	4.45	110	44.79	4.57	114	43.04	4.69	119	41.30	4.80	124
	15	44.93	3.97	99	43.29	4.09	103	41.66	4.21	108	40.03	4.31	113	38.40	4.41	117	36.79	4.51	122
	10	40.08	3.77	97	38.56	3.87	102	37.04	3.96	106	35.53	4.05	111	34.02	4.14	116	32.51	4.22	120
<b>H0654</b>	45	100.58	6.50	112	97.52	6.79	117	94.42	7.07	121	91.28	7.35	125	88.10	7.62	130	84.88	7.88	134
	40	92.19	6.26	110	89.36	6.53	114	86.51	6.80	119	83.62	7.05	123	80.70	7.30	128	77.74	7.53	132
	35	84.23	6.03	107	81.63	6.28	112	79.01	6.52	116	76.36	6.75	121	73.67	6.97	126	70.96	7.19	130
	30	76.69	5.79	105	74.31	6.01	110	71.90	6.23	114	69.47	6.44	119	67.01	6.65	123	64.53	6.84	128
<b>2DL-075L</b>	25	69.57	5.54	103	67.39	5.75	108	65.18	5.94	112	62.95	6.13	117	60.70	6.31	122	58.42	6.49	126
	20	62.84	5.29	101	60.84	5.47	106	58.82	5.65	110	56.78	5.82	115	54.72	5.98	120	52.63	6.13	124
	15	56.48	5.03	99	54.65	5.19	104	52.79	5.34	109	50.93	5.49	113	49.04	5.63	118	47.14	5.76	123
	10	50.46	4.75	97	48.78	4.89	102	47.08	5.03	107	45.37	5.15	112	43.65	5.27	116	41.91	5.38	121

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND DISCUS COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0704</b>	45	114.13	7.34	111	110.59	7.68	115	107.04	8.01	119	103.47	8.33	124	99.90	8.64	128	96.32	8.94	133
	40	104.80	7.09	108	101.56	7.40	113	98.31	7.71	117	95.05	8.01	122	91.78	8.29	126	88.49	8.57	131
	35	95.90	6.84	106	92.94	7.13	111	89.96	7.41	115	86.97	7.68	120	83.97	7.94	124	80.95	8.19	129
	30	87.43	6.58	104	84.72	6.84	109	82.00	7.10	113	79.25	7.34	118	76.48	7.58	123	73.69	7.80	127
<b>2DA-075L</b>	25	79.40	6.31	102	76.91	6.55	107	74.40	6.78	111	71.87	6.99	116	69.30	7.20	121	66.71	7.40	125
	20	71.79	6.04	100	69.50	6.25	105	67.17	6.45	110	64.81	6.63	114	62.41	6.81	119	59.98	6.98	123
	15	64.59	5.75	99	62.46	5.93	103	60.29	6.10	108	58.07	6.26	112	55.80	6.40	117	53.49	6.54	122
	10	57.77	5.45	97	55.77	5.60	101	53.72	5.73	106	51.60	5.86	111	49.43	5.97	115	47.20	6.08	120
<b>H0724</b>	45	133.53	9.19	115	129.52	9.59	119	125.51	9.98	123	121.51	10.35	128	117.53	10.71	132	113.56	11.06	137
	40	122.87	8.86	112	119.18	9.23	117	115.50	9.59	121	111.83	9.94	126	108.18	10.27	130	104.55	10.60	135
	35	112.71	8.53	110	109.32	8.87	114	105.95	9.20	119	102.59	9.53	123	99.25	9.84	128	95.92	10.13	132
	30	103.06	8.20	107	99.95	8.51	112	96.86	8.82	117	93.79	9.11	121	90.73	9.40	126	87.69	9.67	130
<b>3DA-075L</b>	25	93.93	7.87	105	91.08	8.16	110	88.24	8.44	115	85.43	8.70	119	82.63	8.96	124	79.86	9.21	128
	20	85.30	7.54	103	82.68	7.80	108	80.09	8.05	113	77.51	8.29	117	74.95	8.53	122	72.41	8.75	127
	15	77.16	7.20	101	74.76	7.44	106	72.38	7.66	111	70.01	7.88	115	67.66	8.09	120	65.33	8.29	125
	10	69.50	6.87	100	67.30	7.08	104	65.11	7.28	109	62.93	7.47	114	60.76	7.66	118	58.60	7.84	123
<b>H1024</b>	45	159.23	10.66	113	154.54	11.17	117	149.84	11.66	122	145.11	12.13	126	140.36	12.58	131	135.58	13.02	135
	40	146.57	10.30	110	142.27	10.77	115	137.95	11.23	120	133.61	11.67	124	129.25	12.09	129	124.87	12.50	133
	35	134.55	9.94	108	130.60	10.38	113	126.64	10.80	117	122.66	11.21	122	118.66	11.59	127	114.65	11.97	131
	30	123.15	9.58	106	119.53	9.98	111	115.90	10.37	115	112.25	10.74	120	108.59	11.10	125	104.91	11.44	129
<b>3DB-100L</b>	25	112.39	9.21	104	109.07	9.58	109	105.74	9.93	113	102.40	10.27	118	99.04	10.60	123	95.66	10.91	127
	20	102.26	8.85	102	99.22	9.18	107	96.16	9.50	112	93.09	9.80	116	90.00	10.10	121	86.90	10.37	126
	15	92.75	8.48	100	89.96	8.78	105	87.15	9.06	110	84.32	9.34	115	81.48	9.60	119	78.62	9.85	124
	10	83.85	8.11	99	81.28	8.38	103	78.69	8.63	108	76.08	8.87	113	73.45	9.10	118	70.79	9.32	122

**(Continued)**

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1204</b>	45	185.64	13.44	114	179.99	13.99	119	174.34	14.52	123	168.69	15.05	127	163.06	15.56	132	157.44	16.06	136
	40	171.04	12.92	112	165.82	13.43	116	160.61	13.93	121	155.40	14.41	125	150.20	14.89	130	145.01	15.35	134
	35	157.02	12.39	109	152.23	12.86	114	147.44	13.32	118	142.65	13.77	123	137.86	14.20	128	133.09	14.63	132
	30	143.61	11.85	107	139.23	12.29	112	134.84	12.71	116	130.46	13.12	121	126.08	13.52	125	121.71	13.91	130
<b>3DF-120L</b>	25	130.83	11.31	105	126.85	11.71	110	122.85	12.10	114	118.86	12.48	119	114.87	12.85	123	110.89	13.20	128
	20	118.72	10.77	103	115.11	11.14	108	111.49	11.49	112	107.87	11.84	117	104.25	12.18	122	100.64	12.50	126
	15	107.29	10.23	101	104.04	10.57	106	100.77	10.90	110	97.51	11.22	115	94.24	11.52	120	90.98	11.82	124
	10	96.57	9.71	99	93.65	10.02	104	90.73	10.32	109	87.80	10.61	113	84.87	10.89	118	81.94	11.16	123
<b>H1464</b>	45	208.36	14.98	115	202.04	15.61	119	195.80	16.23	124	189.63	16.82	128	183.54	17.40	133	177.52	17.96	137
	40	192.06	14.42	112	186.28	15.02	117	180.58	15.60	121	174.96	16.16	126	169.43	16.70	130	163.98	17.23	135
	35	176.51	13.86	110	171.23	14.42	115	166.04	14.96	119	160.94	15.48	124	155.92	16.00	128	151.00	16.50	133
	30	161.71	13.29	108	156.90	13.81	112	152.18	14.31	117	147.55	14.81	122	143.01	15.29	126	138.57	15.76	131
<b>3DS-150L</b>	25	147.65	12.72	106	143.27	13.19	110	138.98	13.66	115	134.79	14.12	120	130.69	14.57	124	126.68	15.01	129
	20	134.31	12.14	104	130.33	12.57	108	126.44	13.01	113	122.64	13.43	118	118.93	13.85	122	115.32	14.26	127
	15	121.68	11.55	102	118.05	11.95	106	114.51	12.34	111	111.06	12.74	116	107.71	13.12	120	104.44	13.51	125
	10	109.70	10.96	100	106.40	11.32	104	103.17	11.68	109	100.03	12.04	114	96.98	12.40	119	94.01	12.76	123
<b>H1964</b>	45	233.60	15.79	111	227.07	16.60	115	220.52	17.40	120	213.97	18.21	125	207.41	19.01	129	200.84	19.82	134
	40	214.27	15.09	109	208.26	15.84	113	202.25	16.60	118	196.22	17.35	122	190.19	18.10	127	184.15	18.85	132
	35	195.88	14.41	106	190.37	15.10	111	184.85	15.79	116	179.33	16.48	120	173.79	17.18	125	168.25	17.87	130
	30	178.42	13.74	104	173.37	14.38	109	168.32	15.01	114	163.26	15.64	118	158.20	16.27	123	153.13	16.91	128
<b>4DA-200L</b>	25	161.85	13.11	102	157.25	13.69	107	152.64	14.26	112	148.02	14.83	116	143.40	15.40	121	138.78	15.97	126
	20	146.19	12.52	100	142.00	13.03	105	137.80	13.54	110	133.60	14.05	115	129.39	14.56	119	125.18	15.07	124
	15	131.41	11.98	99	127.60	12.42	103	123.79	12.87	108	119.98	13.32	113	116.16	13.77	118	112.34	14.22	122
	10	117.49	11.47	97	114.05	11.86	102	110.60	12.25	106	107.15	12.64	111	103.69	13.03	116	100.23	13.41	121

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H2214</b>	45	251.66	20.44	123	243.37	21.20	127	235.09	21.95	132	226.83	22.68	136	218.57	23.40	140	210.32	24.10	144
	40	232.18	19.49	120	224.48	20.19	124	216.79	20.88	129	209.12	21.55	133	201.46	22.20	137	193.80	22.84	141
	35	212.98	18.54	117	205.85	19.18	121	198.74	19.81	126	191.65	20.42	130	184.57	21.02	134	177.49	21.60	139
	30	194.22	17.59	114	187.65	18.18	118	181.11	18.76	123	174.58	19.31	127	168.06	19.85	132	161.55	20.37	136
<b>4DB-220L</b>	25	176.04	16.67	111	170.03	17.20	116	164.03	17.73	120	158.06	18.23	125	152.09	18.72	129	146.14	19.18	133
	20	158.62	15.76	108	153.15	16.25	113	147.70	16.73	117	142.27	17.18	122	136.85	17.62	126	131.44	18.03	131
	15	142.14	14.89	106	137.21	15.34	110	132.29	15.76	115	127.39	16.17	120	122.50	16.56	124	117.63	16.93	129
	10	126.79	14.06	103	122.37	14.46	108	117.98	14.85	113	113.61	15.22	117	109.25	15.56	122	104.90	15.89	126
<b>H2504</b>	45	308.11	20.92	110	298.98	21.88	114	289.84	22.84	119	280.69	23.79	124	271.53	24.75	128	262.36	25.71	133
	40	281.23	19.99	108	272.86	20.88	112	264.47	21.77	117	256.08	22.66	121	247.68	23.54	126	239.27	24.43	131
	35	255.72	19.07	105	248.07	19.88	110	240.41	20.70	115	232.74	21.52	119	225.07	22.34	124	217.39	23.15	128
	30	231.54	18.18	103	224.57	18.92	108	217.61	19.66	112	210.63	20.41	117	203.65	21.15	122	196.66	21.89	126
<b>4DH-250L</b>	25	208.65	17.34	101	202.34	18.00	106	196.03	18.67	111	189.71	19.33	115	183.39	20.00	120	177.06	20.66	125
	20	187.02	16.55	99	181.34	17.13	104	175.65	17.72	109	169.95	18.31	113	164.25	18.90	118	158.54	19.49	123
	15	166.64	15.81	97	161.54	16.32	102	156.43	16.83	107	151.32	17.35	112	146.21	17.86	116	141.09	18.37	121
	10	147.46	15.14	96	142.92	15.57	101	138.36	16.01	105	133.81	16.44	110	129.25	16.88	115	124.68	17.31	120
<b>H2824</b>	45	339.43	26.10	114	329.56	27.14	118	319.68	28.18	123	309.78	29.22	127	299.87	30.26	132	289.94	31.30	136
	40	312.21	24.86	111	303.02	25.83	116	293.81	26.80	120	284.59	27.77	125	275.36	28.74	130	266.11	29.71	134
	35	286.43	23.61	109	277.88	24.51	114	269.32	25.41	118	260.75	26.31	123	252.17	27.20	127	243.57	28.10	132
	30	262.05	22.40	107	254.10	23.22	111	246.16	24.04	116	238.20	24.86	121	230.24	25.68	125	222.26	26.50	130
<b>4DJ-300L</b>	25	239.00	21.23	105	231.64	21.97	109	224.27	22.71	114	216.90	23.45	118	209.52	24.20	123	202.13	24.94	128
	20	217.27	20.11	103	210.45	20.78	107	203.64	21.44	112	196.82	22.10	117	189.99	22.76	121	183.15	23.43	126
	15	196.80	19.07	101	190.51	19.65	105	184.21	20.23	110	177.91	20.82	115	171.60	21.40	119	165.29	21.98	124
	10	177.58	18.10	99	171.78	18.60	104	165.96	19.10	108	160.15	19.61	113	154.33	20.11	118	148.50	20.61	122

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H3024</b>	45	379.10	28.35	118	366.44	29.40	122	353.99	30.44	126	341.76	31.48	130	329.73	32.53	135	317.89	33.59	139
	40	350.51	27.22	115	339.07	28.19	119	327.79	29.16	124	316.66	30.13	128	305.66	31.10	133	294.79	32.06	137
	35	323.27	26.10	113	312.97	27.01	117	302.76	27.91	121	292.63	28.80	126	282.56	29.68	130	272.54	30.56	135
	30	297.33	25.01	110	288.08	25.85	115	278.84	26.67	119	269.60	27.48	124	260.34	28.28	128	251.05	29.08	133
<b>6DB-300L</b>	25	272.65	23.92	108	264.35	24.69	113	255.97	25.45	117	247.49	26.18	122	238.92	26.90	126	230.23	27.61	131
	20	249.17	22.84	106	241.68	23.55	110	234.03	24.23	115	226.20	24.89	120	218.17	25.53	124	209.94	26.15	129
	15	226.78	21.77	104	219.98	22.41	108	212.93	23.02	113	205.59	23.60	118	197.97	24.17	122	190.06	24.71	127
	10	205.37	20.69	102	199.12	21.27	106	192.51	21.81	111	185.53	22.32	116	178.17	22.81	120	170.43	23.27	125

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND DISCUS COMPRESSORS  
R404a LOW TEMPERATURE**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0304</b>	-15	26.70	3.74	96	25.43	3.80	101	24.18	3.86	105	22.95	3.91	110	21.73	3.95	114	20.51	3.98	119
	-20	23.52	3.50	94	22.39	3.56	99	21.28	3.60	104	20.18	3.64	108	19.08	3.67	113	17.97	3.68	117
	-25	20.60	3.26	93	19.58	3.31	98	18.58	3.34	102	17.58	3.37	107	16.59	3.38	111	15.58	3.38	116
<b>2DF-030L</b>	-30	17.92	3.02	91	16.99	3.05	96	16.08	3.08	101	15.17	3.09	105	14.25	3.09	110	13.32	3.07	115
	-35	15.49	2.77	90	14.64	2.79	95	13.80	2.80	100	12.95	2.80	104	12.08	2.78	109	11.19	2.74	113
	-40	13.32	2.51	89	12.52	2.52	94	11.71	2.51	98	10.90	2.49	103	10.06	2.45	108	9.19	2.40	112
<b>H0404</b>	-15	31.29	4.30	99	29.84	4.37	103	28.40	4.43	108	26.95	4.48	112	25.50	4.52	117	24.05	4.55	121
	-20	27.75	4.00	97	26.44	4.06	101	25.14	4.11	106	23.83	4.15	110	22.53	4.18	115	21.22	4.20	119
	-25	24.43	3.72	95	23.25	3.76	100	22.08	3.80	104	20.90	3.83	109	19.73	3.85	113	18.55	3.86	118
<b>2DL-040L</b>	-30	21.34	3.43	93	20.28	3.47	98	19.22	3.49	103	18.16	3.51	107	17.09	3.51	112	16.02	3.51	116
	-35	18.49	3.15	92	17.52	3.17	97	16.56	3.19	101	15.59	3.19	106	14.62	3.19	110	13.64	3.17	115
	-40	15.86	2.88	90	14.97	2.88	95	14.08	2.88	100	13.19	2.87	104	12.30	2.86	109	11.40	2.83	114
<b>H0504</b>	-15	34.93	4.98	101	33.35	5.06	105	31.77	5.13	110	30.19	5.19	114	28.63	5.24	119	27.06	5.29	123
	-20	31.17	4.65	99	29.75	4.71	104	28.32	4.77	108	26.90	4.82	113	25.48	4.86	117	24.07	4.89	122
	-25	27.64	4.32	97	26.35	4.37	102	25.06	4.42	106	23.78	4.45	111	22.49	4.48	115	21.20	4.49	120
<b>2DA-060L</b>	-30	24.31	3.99	95	23.15	4.03	100	21.98	4.06	105	20.81	4.08	109	19.63	4.09	114	18.45	4.09	118
	-35	21.20	3.67	94	20.13	3.69	98	19.06	3.71	103	17.99	3.71	108	16.90	3.71	112	15.81	3.70	117
	-40	18.28	3.33	92	17.29	3.35	97	16.30	3.35	101	15.30	3.34	106	14.28	3.32	110	13.26	3.29	115
<b>H0524</b>	-15	37.02	5.26	102	35.36	5.34	107	33.70	5.42	111	32.05	5.49	116	30.39	5.55	120	28.72	5.60	124
	-20	32.96	4.90	100	31.46	4.96	105	29.97	5.03	109	28.49	5.09	114	27.02	5.14	118	25.53	5.18	123
	-25	29.13	4.54	98	27.76	4.59	103	26.42	4.64	107	25.10	4.69	112	23.78	4.73	116	22.46	4.76	121
<b>2DB-060L</b>	-30	25.52	4.19	96	24.28	4.22	101	23.06	4.26	105	21.86	4.29	110	20.68	4.31	114	19.51	4.34	119
	-35	22.16	3.83	94	21.00	3.85	99	19.89	3.87	103	18.80	3.88	108	17.74	3.89	113	16.69	3.90	117
	-40	19.03	3.47	93	17.95	3.47	97	16.91	3.47	102	15.91	3.47	106	14.93	3.47	111	13.98	3.46	116

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R404a LOW TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0604</b>	-15	41.77	5.95	101	40.06	6.08	105	38.34	6.20	110	36.60	6.30	115	34.82	6.39	119	32.98	6.45	124
	-20	37.18	5.55	99	35.66	5.66	104	34.13	5.76	108	32.56	5.85	113	30.95	5.91	117	29.28	5.95	122
	-25	32.90	5.17	97	31.54	5.26	102	30.17	5.34	106	28.76	5.41	111	27.29	5.45	116	25.75	5.47	120
<b>3DA-060L</b>	-30	28.94	4.79	95	27.72	4.87	100	26.48	4.93	105	25.19	4.97	109	23.84	5.00	114	22.42	4.99	118
	-35	25.32	4.43	94	24.21	4.48	98	23.07	4.52	103	21.88	4.55	108	20.62	4.54	112	19.28	4.52	117
	-40	22.06	4.07	92	21.03	4.10	97	19.96	4.12	102	18.84	4.12	106	17.64	4.10	111	16.35	4.04	115
<b>H0734</b>	-15	48.53	7.13	103	46.56	7.28	107	44.60	7.42	112	42.64	7.55	116	40.69	7.67	121	38.74	7.78	126
	-20	43.35	6.64	101	41.61	6.77	105	39.86	6.89	110	38.10	7.00	114	36.34	7.10	119	34.57	7.18	124
	-25	38.49	6.17	99	36.94	6.28	103	35.37	6.38	108	33.78	6.46	113	32.18	6.53	117	30.56	6.59	122
<b>3DB-075L</b>	-30	33.95	5.71	97	32.55	5.80	101	31.13	5.87	106	29.68	5.93	111	28.20	5.97	115	26.69	6.00	120
	-35	29.72	5.25	95	28.45	5.31	100	27.14	5.36	104	25.79	5.40	109	24.39	5.42	114	22.96	5.41	118
	-40	25.81	4.78	93	24.62	4.83	98	23.38	4.85	103	22.09	4.86	107	20.74	4.85	112	19.35	4.82	116
<b>H0934</b>	-15	59.48	8.63	103	57.09	8.81	107	54.70	8.97	112	52.32	9.13	116	49.92	9.28	121	47.51	9.41	125
	-20	53.03	8.00	100	50.90	8.16	105	48.77	8.30	110	46.63	8.43	114	44.48	8.55	119	42.32	8.66	123
	-25	46.99	7.40	98	45.08	7.52	103	43.17	7.64	108	41.25	7.75	112	39.32	7.85	117	37.37	7.93	121
<b>3DF-090L</b>	-30	41.37	6.81	96	39.65	6.91	101	37.93	7.01	106	36.19	7.09	110	34.45	7.16	115	32.67	7.22	120
	-35	36.18	6.25	95	34.61	6.33	99	33.04	6.40	104	31.46	6.45	109	29.86	6.50	113	28.22	6.53	118
	-40	31.43	5.72	93	29.98	5.77	98	28.53	5.81	102	27.06	5.84	107	25.56	5.86	112	24.03	5.86	116
<b>H1064</b>	-15	67.73	9.72	101	64.96	9.91	106	62.16	10.09	111	59.34	10.25	115	56.53	10.41	120	53.75	10.54	124
	-20	60.57	9.03	99	58.10	9.20	104	55.58	9.35	109	53.03	9.49	113	50.48	9.61	118	47.95	9.72	122
	-25	53.81	8.35	98	51.60	8.49	102	49.33	8.62	107	47.02	8.73	111	44.70	8.83	116	42.39	8.90	121
<b>3DS-100L</b>	-30	47.46	7.69	96	45.48	7.81	100	43.43	7.91	105	41.33	7.99	110	39.21	8.06	114	37.09	8.10	119
	-35	41.56	7.05	94	39.78	7.15	99	37.91	7.22	103	35.99	7.27	108	34.03	7.30	113	32.06	7.32	117
	-40	36.14	6.44	92	34.51	6.51	97	32.79	6.55	102	31.00	6.57	106	29.17	6.57	111	27.32	6.55	116

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND DISCUS COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

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HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1314</b>	-15	69.95	9.90	101	67.09	10.14	106	64.23	10.37	110	61.33	10.56	115	58.36	10.72	119	55.28	10.83	124
	-20	62.66	9.25	99	60.09	9.46	104	57.50	9.65	108	54.87	9.80	113	52.14	9.91	118	49.30	9.98	122
	-25	55.82	8.62	97	53.47	8.79	102	51.10	8.93	107	48.66	9.03	111	46.13	9.09	116	43.46	9.10	120
<b>4DA-101L</b>	-30	49.34	7.98	96	47.15	8.10	100	44.92	8.19	105	42.62	8.24	109	40.21	8.25	114	37.66	8.20	118
	-35	43.11	7.32	94	41.01	7.40	99	38.87	7.43	103	36.64	7.43	108	34.29	7.37	112	31.78	7.26	117
	-40	37.03	6.65	92	34.96	6.66	97	32.83	6.64	101	30.61	6.57	106	28.26	6.46	110	25.75	6.28	115
<b>H1514</b>	-15	91.33	13.26	102	87.68	13.58	107	84.09	13.88	111	80.44	14.16	116	76.65	14.39	121	72.62	14.58	125
	-20	82.28	12.42	100	78.99	12.70	105	75.76	12.96	110	72.49	13.19	114	69.07	13.38	119	65.41	13.52	123
	-25	73.67	11.60	98	70.71	11.83	103	67.81	12.05	108	64.88	12.24	112	61.80	12.38	117	58.47	12.47	122
<b>4DL-150L</b>	-30	65.38	10.76	97	62.71	10.96	101	60.11	11.14	106	57.48	11.28	111	54.71	11.37	115	51.69	11.41	120
	-35	57.25	9.91	95	54.84	10.07	100	52.51	10.20	104	50.16	10.29	109	47.65	10.34	114	44.90	10.33	118
	-40	49.15	9.01	93	46.96	9.13	98	44.87	9.22	103	42.74	9.27	107	40.48	9.27	112	37.97	9.21	116
<b>H2204</b>	-15	111.74	15.69	101	106.63	16.00	106	101.65	16.29	110	96.78	16.56	115	92.01	16.80	119	87.32	17.01	124
	-20	100.58	14.65	100	95.96	14.92	104	91.41	15.16	109	86.92	15.38	113	82.48	15.56	118	78.07	15.70	122
	-25	89.83	13.63	98	85.65	13.85	102	81.50	14.04	107	77.36	14.19	111	73.21	14.31	116	69.05	14.38	120
<b>4DT-220L</b>	-30	79.44	12.60	96	75.68	12.77	101	71.89	12.90	105	68.05	12.99	110	64.16	13.04	114	60.20	13.03	119
	-35	69.37	11.56	94	65.99	11.67	99	62.52	11.73	103	58.96	11.76	108	55.28	11.73	112	51.49	11.65	117
	-40	59.57	10.49	92	56.53	10.53	97	53.35	10.53	102	50.01	10.48	106	46.51	10.38	111	42.84	10.22	115
<b>H2704</b>	-15	138.38	19.82	102	132.61	20.23	107	126.87	20.59	112	121.07	20.91	116	115.13	21.18	121	108.99	21.38	125
	-20	123.49	18.39	100	118.27	18.74	105	113.08	19.04	109	107.83	19.29	114	102.43	19.48	119	96.80	19.61	123
	-25	109.32	17.00	98	104.59	17.28	103	99.89	17.52	107	95.11	17.70	112	90.18	17.81	117	85.02	17.85	121
<b>6DL-270L</b>	-30	96.02	15.65	96	91.72	15.87	101	87.43	16.03	106	83.07	16.13	110	78.53	16.16	115	73.76	16.12	119
	-35	83.73	14.34	94	79.79	14.48	99	75.85	14.57	104	71.82	14.59	108	67.62	14.53	113	63.15	14.39	117
	-40	72.61	13.06	93	68.95	13.13	97	65.29	13.13	102	61.52	13.07	107	57.56	12.92	111	53.33	12.69	116

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R404a LOW TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H3014</b>	-15	151.96	24.07	104	145.09	24.51	109	138.25	24.91	113	131.45	25.26	118	124.74	25.56	122	118.13	25.80	127
	-20	136.21	22.25	102	130.04	22.63	107	123.86	22.97	111	117.71	23.26	116	111.60	23.50	120	105.57	23.67	125
	-25	121.23	20.50	100	115.68	20.82	105	110.09	21.10	109	104.49	21.32	114	98.91	21.49	118	93.37	21.59	123
<b>6DT-300L</b>	-30	107.11	18.83	98	102.08	19.08	103	96.99	19.28	107	91.85	19.43	112	86.70	19.52	116	81.57	19.55	121
	-35	93.91	17.22	96	89.31	17.39	101	84.61	17.52	105	79.84	17.59	110	75.02	17.60	114	70.20	17.54	119
	-40	81.67	15.66	94	77.40	15.75	99	72.99	15.80	103	68.48	15.79	108	63.90	15.71	112	59.28	15.58	117

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
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R404a MEDIUM/HIGH TEMPERATURE**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0484</b>	35	63.24	4.55	106	60.27	4.70	110	57.33	4.84	115	54.42	4.97	119	51.53	5.10	123	48.67	5.22	127
	30	57.88	4.39	104	55.17	4.52	109	52.48	4.65	113	49.81	4.77	117	47.17	4.88	121	44.55	4.99	126
	25	52.73	4.21	102	50.26	4.33	107	47.80	4.45	111	45.38	4.56	115	42.97	4.66	120	40.59	4.76	124
	20	47.80	4.03	101	45.55	4.14	105	43.33	4.25	109	41.13	4.35	114	38.96	4.44	118	36.80	4.52	123
<b>2DC-050L</b>	15	43.10	3.85	99	41.08	3.95	103	39.08	4.04	108	37.10	4.13	112	35.14	4.21	117	33.19	4.28	121
	10	38.67	3.66	97	36.86	3.75	102	35.07	3.83	106	33.29	3.91	111	31.53	3.98	115	29.79	4.05	120
	5	34.52	3.47	95	32.91	3.55	100	31.31	3.63	105	29.72	3.70	109	28.15	3.76	114	26.59	3.81	118
	0	30.67	3.28	94	29.24	3.36	99	27.82	3.42	103	26.41	3.48	108	25.01	3.54	112	23.63	3.59	117
<b>H0494</b>	35	73.82	5.46	108	70.48	5.64	113	67.13	5.80	117	63.77	5.96	121	60.40	6.11	125	57.01	6.25	129
	30	67.78	5.24	106	64.72	5.41	111	61.66	5.56	115	58.59	5.70	119	55.51	5.84	123	52.41	5.96	128
	25	61.93	5.02	104	59.14	5.17	109	56.35	5.31	113	53.56	5.44	117	50.76	5.56	122	47.95	5.67	126
	20	56.29	4.79	102	53.76	4.92	107	51.23	5.05	111	48.70	5.17	116	46.17	5.28	120	43.63	5.38	124
<b>2DD-050L</b>	15	50.90	4.56	101	48.61	4.68	105	46.33	4.79	109	44.06	4.90	114	41.78	5.00	118	39.50	5.10	123
	10	45.79	4.32	99	43.73	4.43	103	41.69	4.54	108	39.65	4.64	112	37.62	4.73	117	35.58	4.81	121
	5	41.01	4.09	97	39.16	4.19	102	37.33	4.29	106	35.51	4.38	111	33.71	4.46	115	31.91	4.54	120
	0	36.58	3.87	95	34.93	3.96	100	33.30	4.05	105	31.69	4.13	109	30.09	4.21	114	28.50	4.28	118
<b>H0654</b>	35	90.07	6.78	108	86.08	7.00	113	82.09	7.21	117	78.11	7.41	121	74.14	7.61	125	70.18	7.79	129
	30	82.73	6.51	106	79.08	6.71	111	75.45	6.90	115	71.82	7.09	119	68.20	7.27	123	64.58	7.44	128
	25	75.66	6.23	104	72.35	6.42	109	69.04	6.59	113	65.75	6.76	117	62.46	6.93	122	59.18	7.08	126
	20	68.89	5.95	102	65.89	6.12	107	62.91	6.28	111	59.93	6.44	116	56.96	6.59	120	54.00	6.72	124
<b>2DL-075L</b>	15	62.45	5.67	101	59.75	5.83	105	57.06	5.97	109	54.38	6.11	114	51.71	6.25	118	49.04	6.37	123
	10	56.37	5.39	99	53.94	5.53	103	51.53	5.67	108	49.12	5.79	112	46.73	5.91	117	44.34	6.02	121
	5	50.68	5.11	97	48.50	5.24	102	46.34	5.37	106	44.19	5.48	111	42.04	5.59	115	39.90	5.69	120
	0	45.40	4.84	96	43.45	4.96	100	41.51	5.07	105	39.58	5.17	109	37.67	5.27	114	35.75	5.36	119

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0704</b>	35	104.22	7.73	107	99.63	7.98	112	95.05	8.23	116	90.47	8.46	120	85.91	8.69	124	81.36	8.90	129
	30	95.85	7.43	105	91.67	7.66	110	87.49	7.88	114	83.32	8.10	118	79.15	8.30	123	75.00	8.50	127
	25	87.86	7.13	104	84.07	7.34	108	80.27	7.55	112	76.48	7.74	117	72.68	7.93	121	68.90	8.11	125
	20	80.25	6.83	102	76.83	7.03	106	73.39	7.21	111	69.95	7.39	115	66.51	7.56	120	63.08	7.72	124
<b>2DA-075L</b>	15	73.04	6.53	100	69.96	6.71	105	66.86	6.88	109	63.75	7.04	114	60.64	7.19	118	57.54	7.33	123
	10	66.25	6.24	98	63.48	6.40	103	60.69	6.55	108	57.88	6.69	112	55.07	6.82	117	52.26	6.95	121
	5	59.87	5.94	97	57.39	6.09	102	54.88	6.22	106	52.34	6.35	111	49.80	6.46	115	47.25	6.57	120
	0	53.92	5.65	95	51.69	5.78	100	49.42	5.90	105	47.13	6.01	109	44.82	6.11	114	42.50	6.20	119
<b>H0724</b>	35	118.53	9.28	110	113.31	9.59	114	108.21	9.90	119	103.20	10.19	123	98.24	10.48	127	93.29	10.76	131
	30	109.29	8.93	108	104.53	9.22	112	99.89	9.51	117	95.35	9.79	121	90.85	10.06	125	86.36	10.31	130
	25	100.36	8.58	106	96.04	8.85	110	91.85	9.12	115	87.75	9.38	119	83.70	9.63	124	79.65	9.87	128
	20	91.77	8.22	104	87.87	8.47	109	84.11	8.72	113	80.43	8.96	117	76.80	9.19	122	73.17	9.41	126
<b>3DA-075L</b>	15	83.55	7.85	102	80.05	8.09	107	76.69	8.32	111	73.42	8.54	116	70.18	8.75	120	66.93	8.96	125
	10	75.73	7.49	100	72.61	7.70	105	69.63	7.91	110	66.72	8.11	114	63.85	8.31	119	60.96	8.50	123
	5	68.34	7.12	99	65.57	7.31	103	62.93	7.50	108	60.37	7.69	113	57.83	7.86	117	55.27	8.03	122
	0	61.41	6.75	97	58.96	6.92	102	56.63	7.09	106	54.38	7.26	111	52.14	7.42	116	49.86	7.57	120
<b>H1024</b>	35	142.26	11.18	109	136.13	11.56	113	130.02	11.93	117	123.92	12.30	122	117.83	12.65	126	111.74	13.00	130
	30	131.15	10.75	107	125.57	11.11	111	120.01	11.46	116	114.46	11.80	120	108.91	12.14	124	103.36	12.46	129
	25	120.51	10.33	105	115.45	10.66	109	110.42	10.99	114	105.39	11.30	118	100.36	11.61	123	95.33	11.91	127
	20	110.34	9.90	103	105.78	10.21	108	101.24	10.51	112	96.70	10.80	117	92.16	11.09	121	87.62	11.37	125
<b>3DB-100L</b>	15	100.66	9.46	101	96.56	9.75	106	92.48	10.03	110	88.41	10.30	115	84.32	10.56	120	80.23	10.81	124
	10	91.47	9.03	100	87.81	9.29	104	84.15	9.55	109	80.50	9.79	113	76.84	10.03	118	73.16	10.26	123
	5	82.79	8.59	98	79.51	8.83	103	76.24	9.06	107	72.97	9.28	112	69.69	9.50	117	66.39	9.70	121
	0	74.60	8.15	97	71.67	8.37	101	68.75	8.57	106	65.82	8.77	111	62.87	8.96	115	59.90	9.14	120

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND DISCUS COMPRESSORS  
R404a MEDIUM/HIGH TEMPERATURE (Continued)**

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1204</b>	35	172.21	14.52	111	164.58	14.96	116	156.99	15.40	120	149.43	15.82	124	141.91	16.24	128	134.41	16.65	132
	30	159.08	13.87	109	152.12	14.28	113	145.20	14.69	118	138.32	15.09	122	131.46	15.47	126	124.63	15.85	130
	25	146.42	13.24	107	140.10	13.62	111	133.82	14.00	116	127.58	14.37	120	121.36	14.72	124	115.17	15.07	129
	20	134.27	12.63	105	128.56	12.98	109	122.88	13.33	114	117.25	13.66	118	111.63	13.99	123	106.05	14.31	127
<b>3DF-120L</b>	15	122.65	12.02	103	117.51	12.35	108	112.41	12.67	112	107.34	12.98	117	102.30	13.28	121	97.27	13.57	125
	10	111.60	11.43	101	106.99	11.73	106	102.42	12.02	110	97.88	12.31	115	93.36	12.58	119	88.86	12.85	124
	5	101.16	10.85	100	97.03	11.12	104	92.94	11.39	109	88.88	11.65	113	84.84	11.90	118	80.81	12.14	122
	0	91.33	10.28	98	87.64	10.53	103	83.99	10.77	107	80.35	11.00	112	76.74	11.22	116	73.13	11.44	121
<b>H1464</b>	35	190.43	16.09	111	181.99	16.58	116	173.59	17.07	120	165.23	17.54	124	156.91	18.00	128	148.61	18.45	132
	30	175.94	15.37	109	168.24	15.83	114	160.58	16.28	118	152.96	16.72	122	145.37	17.14	126	137.82	17.56	131
	25	161.95	14.67	107	154.96	15.10	112	148.01	15.52	116	141.10	15.92	120	134.22	16.31	125	127.37	16.70	129
	20	148.52	13.99	105	142.20	14.39	110	135.93	14.77	114	129.69	15.14	118	123.48	15.50	123	117.29	15.86	127
<b>3DS-150L</b>	15	135.68	13.32	103	130.00	13.69	108	124.35	14.04	112	118.75	14.38	117	113.16	14.71	121	107.60	15.03	126
	10	123.48	12.67	101	118.38	13.00	106	113.32	13.32	110	108.29	13.63	115	103.29	13.94	120	98.31	14.23	124
	5	111.93	12.02	100	107.37	12.33	104	102.84	12.62	109	98.34	12.90	113	93.87	13.18	118	89.41	13.45	123
	0	101.06	11.39	98	96.98	11.66	103	92.94	11.93	107	88.91	12.19	112	84.91	12.43	117	80.92	12.68	121
<b>H1964</b>	35	212.06	15.93	107	202.02	16.42	112	192.02	16.88	116	182.07	17.32	120	172.17	17.75	124	162.34	18.16	128
	30	195.70	15.35	106	186.39	15.79	110	177.11	16.21	114	167.88	16.61	118	158.70	16.99	122	149.60	17.36	127
	25	179.73	14.77	104	171.13	15.18	108	162.56	15.56	112	154.03	15.91	117	145.55	16.25	121	137.16	16.57	125
	20	164.24	14.19	102	156.33	14.56	106	148.44	14.90	111	140.59	15.22	115	132.80	15.51	119	125.09	15.79	124
<b>4DA-200L</b>	15	149.33	13.61	100	142.08	13.94	105	134.85	14.24	109	127.66	14.52	113	120.52	14.77	118	113.47	15.00	122
	10	135.08	13.02	99	128.46	13.31	103	121.86	13.58	107	115.31	13.81	112	108.81	14.02	116	102.38	14.21	121
	5	121.58	12.41	97	115.57	12.67	101	109.58	12.89	106	103.62	13.09	110	97.73	13.25	115	91.91	13.40	119
	0	108.93	11.77	95	103.50	12.00	100	98.08	12.18	104	92.70	12.34	109	87.37	12.47	114	82.13	12.58	118

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H2504</b>	35	271.37	20.62	106	259.30	21.31	110	247.49	21.98	114	235.91	22.62	119	224.51	23.23	123	213.27	23.82	127
	30	251.14	19.82	104	239.93	20.46	108	228.97	21.08	113	218.23	21.67	117	207.67	22.24	122	197.23	22.78	126
	25	231.05	19.01	102	220.68	19.60	107	210.57	20.17	111	200.67	20.72	116	190.92	21.24	120	181.29	21.74	124
	20	211.29	18.20	101	201.77	18.75	105	192.49	19.27	110	183.41	19.77	114	174.47	20.25	119	165.63	20.71	123
<b>4DH-250L</b>	15	192.09	17.40	99	183.41	17.89	104	174.95	18.37	108	166.67	18.83	113	158.53	19.26	117	150.46	19.69	122
	10	173.67	16.60	97	165.81	17.05	102	158.17	17.48	107	150.69	17.89	111	143.32	18.29	116	136.01	18.67	120
	5	156.27	15.81	96	149.23	16.22	101	142.38	16.60	105	135.68	16.98	110	129.07	17.34	114	122.50	17.68	119
	0	140.15	15.04	95	133.90	15.40	99	127.84	15.74	104	121.90	16.08	108	116.04	16.40	113	110.18	16.71	118
<b>H2824</b>	35	313.58	26.45	111	299.50	27.20	115	285.44	27.93	119	271.38	28.64	123	257.28	29.33	127	243.13	30.00	131
	30	289.64	25.26	108	276.66	25.96	113	263.72	26.64	117	250.80	27.30	121	237.85	27.94	125	224.85	28.56	130
	25	266.40	24.07	106	254.49	24.72	111	242.65	25.35	115	230.83	25.96	119	219.00	26.54	124	207.12	27.11	128
	20	243.93	22.88	104	233.06	23.48	109	222.27	24.05	113	211.52	24.61	117	200.77	25.15	122	189.99	25.67	126
<b>4DJ-300L</b>	15	222.30	21.69	102	212.43	22.24	107	202.66	22.77	111	192.94	23.27	116	183.24	23.76	120	173.52	24.23	125
	10	201.61	20.52	101	192.69	21.02	105	183.89	21.49	110	175.16	21.95	114	166.46	22.39	119	157.75	22.81	123
	5	181.92	19.36	99	173.90	19.81	103	166.02	20.24	108	158.23	20.65	112	150.49	21.04	117	142.75	21.41	122
	0	163.30	18.23	97	156.14	18.63	102	149.13	19.01	106	142.23	19.37	111	135.39	19.71	115	128.57	20.04	120

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND DISCUS COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE**

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0304</b>	45	58.57	3.81	110	56.57	3.95	114	54.59	4.09	119	52.63	4.22	123	50.70	4.35	127	48.78	4.48	132
	40	53.49	3.64	108	51.65	3.77	112	49.83	3.89	116	48.03	4.02	121	46.25	4.13	125	44.49	4.25	130
	35	48.66	3.47	105	46.99	3.59	110	45.32	3.70	114	43.68	3.81	119	42.04	3.92	123	40.43	4.02	128
	30	44.10	3.31	103	42.57	3.42	108	41.06	3.52	112	39.56	3.62	117	38.07	3.72	121	36.59	3.81	126
<b>2DF-030L</b>	25	39.78	3.15	101	38.41	3.25	106	37.04	3.34	110	35.68	3.43	115	34.33	3.52	119	32.98	3.60	124
	20	35.72	2.99	99	34.49	3.08	104	33.26	3.16	108	32.04	3.24	113	30.82	3.32	118	29.59	3.39	122
	15	31.90	2.83	97	30.81	2.91	102	29.71	2.99	107	28.62	3.06	111	27.52	3.13	116	26.41	3.19	121
	10	28.33	2.68	96	27.36	2.75	100	26.39	2.82	105	25.41	2.88	110	24.43	2.94	114	23.43	3.00	119
<b>H0504</b>	45	69.94	5.05	116	67.54	5.22	121	65.16	5.38	125	62.80	5.53	129	60.45	5.68	133	58.12	5.82	138
	40	64.07	4.80	114	61.86	4.95	118	59.67	5.09	122	57.48	5.23	127	55.32	5.37	131	53.16	5.50	135
	35	58.46	4.55	111	56.44	4.69	115	54.42	4.82	120	52.42	4.95	124	50.42	5.07	128	48.43	5.19	133
	30	53.12	4.31	108	51.27	4.44	113	49.43	4.56	117	47.60	4.68	122	45.77	4.79	126	43.95	4.89	130
<b>2DA-060L</b>	25	48.04	4.09	106	46.37	4.20	110	44.70	4.31	115	43.03	4.42	119	41.36	4.52	124	39.70	4.61	128
	20	43.23	3.87	104	41.73	3.97	108	40.22	4.07	113	38.71	4.16	117	37.20	4.25	122	35.69	4.34	126
	15	38.70	3.65	101	37.35	3.74	106	36.01	3.83	111	34.65	3.92	115	33.29	4.00	120	31.91	4.07	124
	10	34.44	3.44	99	33.24	3.52	104	32.04	3.60	109	30.83	3.68	113	29.61	3.75	118	28.36	3.81	122
<b>H0524</b>	45	72.40	5.36	118	69.91	5.52	122	67.43	5.69	126	64.97	5.84	131	62.53	5.99	135	60.10	6.14	139
	40	66.39	5.08	115	64.09	5.23	119	61.80	5.38	124	59.53	5.53	128	57.27	5.66	132	55.02	5.80	136
	35	60.63	4.81	112	58.52	4.95	117	56.42	5.09	121	54.33	5.22	125	52.25	5.35	130	50.17	5.47	134
	30	55.14	4.56	110	53.21	4.69	114	51.29	4.81	118	49.38	4.93	123	47.47	5.05	127	45.57	5.15	131
<b>2DB-060L</b>	25	49.91	4.31	107	48.17	4.43	111	46.42	4.55	116	44.68	4.65	120	42.94	4.76	125	41.20	4.85	129
	20	44.96	4.08	105	43.39	4.19	109	41.81	4.29	114	40.24	4.39	118	38.66	4.48	123	37.07	4.56	127
	15	40.28	3.85	102	38.87	3.94	107	37.46	4.04	111	36.04	4.12	116	34.62	4.21	121	33.18	4.28	125
	10	35.88	3.62	100	34.63	3.71	105	33.37	3.79	109	32.10	3.87	114	30.82	3.94	119	29.51	4.01	123

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0604</b>	45	83.59	6.22	116	80.79	6.43	121	78.03	6.65	125	75.30	6.86	129	72.61	7.07	134	69.94	7.27	138
	40	76.61	5.92	114	74.04	6.12	118	71.51	6.32	122	69.00	6.51	127	66.52	6.70	131	64.07	6.89	136
	35	69.96	5.64	111	67.61	5.82	115	65.29	6.00	120	62.99	6.18	124	60.72	6.35	129	58.47	6.51	133
	30	63.64	5.36	108	61.49	5.53	113	59.37	5.69	117	57.27	5.85	122	55.19	6.00	126	53.13	6.14	131
<b>3DA-060L</b>	25	57.63	5.08	106	55.68	5.23	111	53.75	5.38	115	51.84	5.52	120	49.94	5.65	124	48.05	5.78	129
	20	51.96	4.81	104	50.19	4.95	108	48.44	5.08	113	46.69	5.20	117	44.96	5.32	122	43.22	5.43	127
	15	46.60	4.55	102	45.00	4.66	106	43.41	4.78	111	41.82	4.88	115	40.23	4.98	120	38.64	5.07	125
	10	41.56	4.28	100	40.11	4.38	104	38.66	4.48	109	37.21	4.56	113	35.75	4.65	118	34.28	4.72	123
<b>H0734</b>	45	96.00	7.49	119	92.72	7.73	123	89.47	7.98	128	86.24	8.22	132	83.03	8.46	136	79.84	8.70	140
	40	88.10	7.12	116	85.09	7.35	121	82.11	7.57	125	79.15	7.80	129	76.21	8.01	133	73.29	8.22	138
	35	80.54	6.76	113	77.80	6.97	118	75.08	7.18	122	72.37	7.38	126	69.68	7.58	131	67.01	7.77	135
	30	73.34	6.42	111	70.85	6.61	115	68.37	6.80	120	65.91	6.98	124	63.45	7.15	128	61.01	7.32	133
<b>3DB-075L</b>	25	66.50	6.08	108	64.23	6.25	113	61.98	6.42	117	59.74	6.58	122	57.51	6.73	126	55.28	6.88	130
	20	60.01	5.75	106	57.96	5.90	110	55.92	6.05	115	53.89	6.19	119	51.85	6.32	124	49.82	6.45	128
	15	53.88	5.42	103	52.02	5.56	108	50.17	5.68	112	48.32	5.80	117	46.47	5.91	122	44.60	6.02	126
	10	48.09	5.10	101	46.41	5.21	106	44.72	5.32	110	43.03	5.42	115	41.33	5.51	119	39.62	5.59	124
<b>H0934</b>	45	114.01	9.08	118	110.17	9.37	122	106.39	9.66	126	102.70	9.95	131	99.11	10.25	135	95.64	10.55	140
	40	104.58	8.61	115	101.01	8.88	119	97.51	9.15	124	94.08	9.41	128	90.74	9.68	132	87.52	9.95	137
	35	95.65	8.17	112	92.36	8.42	117	89.11	8.66	121	85.93	8.90	125	82.85	9.14	130	79.87	9.38	134
	30	87.20	7.76	110	84.17	7.98	114	81.18	8.20	119	78.25	8.41	123	75.40	8.62	127	72.65	8.83	132
<b>3DF-090L</b>	25	79.20	7.36	107	76.43	7.55	112	73.68	7.75	116	70.99	7.93	121	68.37	8.12	125	65.84	8.30	130
	20	71.63	6.96	105	69.10	7.14	109	66.59	7.30	114	64.12	7.46	118	61.71	7.62	123	59.38	7.77	128
	15	64.44	6.56	103	62.14	6.72	107	59.85	6.86	112	57.59	7.00	116	55.38	7.12	121	53.25	7.24	125
	10	57.60	6.16	101	55.52	6.30	105	53.43	6.41	110	51.36	6.52	114	49.33	6.62	119	47.37	6.71	123

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAND DISCUS COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE (Continued)**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1064</b>	45	128.80	9.85	116	124.51	10.17	120	120.26	10.50	124	116.07	10.82	129	111.95	11.15	133	107.92	11.48	137
	40	117.86	9.37	113	113.89	9.67	117	109.96	9.97	122	106.08	10.26	126	102.28	10.56	130	98.55	10.86	135
	35	107.52	8.91	110	103.87	9.19	115	100.25	9.46	119	96.68	9.72	124	93.17	9.99	128	89.74	10.26	132
	30	97.78	8.47	108	94.43	8.72	112	91.11	8.96	117	87.83	9.20	121	84.61	9.44	126	81.46	9.67	130
<b>3DS-100L</b>	25	88.59	8.04	106	85.54	8.26	110	82.50	8.48	115	79.50	8.69	119	76.56	8.89	124	73.68	9.10	128
	20	79.93	7.61	103	77.16	7.81	108	74.39	8.00	112	71.66	8.18	117	68.96	8.36	121	66.34	8.52	126
	15	71.76	7.19	101	69.25	7.36	106	66.73	7.52	110	64.24	7.67	115	61.79	7.82	119	59.40	7.95	124
	10	64.04	6.76	99	61.76	6.91	104	59.48	7.04	108	57.22	7.16	113	54.99	7.27	118	52.81	7.37	122
<b>H1414</b>	45	182.66	14.10	119	175.64	14.54	123	168.38	14.95	127	160.88	15.34	131	153.11	15.70	135	145.06	16.04	139
	40	168.87	13.31	116	162.60	13.72	120	156.12	14.11	124	149.39	14.47	128	142.41	14.81	132	135.14	15.12	136
	35	154.68	12.54	113	149.13	12.92	117	143.38	13.29	122	137.41	13.62	126	131.18	13.93	130	124.69	14.22	134
	30	140.34	11.80	110	135.46	12.15	115	130.41	12.49	119	125.15	12.80	123	119.66	13.08	128	113.90	13.34	132
<b>4DH-150L</b>	25	126.18	11.08	108	121.90	11.41	112	117.48	11.71	116	112.89	12.00	121	108.08	12.26	125	103.04	12.49	130
	20	112.50	10.39	105	108.76	10.69	109	104.91	10.97	114	100.92	11.23	118	96.75	11.47	123	92.36	11.68	127
	15	99.67	9.74	102	96.37	10.01	107	93.02	10.26	112	89.57	10.50	116	85.97	10.71	121	82.17	10.89	125
	10	88.01	9.12	100	85.09	9.36	105	82.16	9.59	109	79.17	9.80	114	76.06	9.98	119	72.80	10.15	123

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAND DISCUS COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1914</b>	45	214.89	17.02	120	206.49	17.53	124	197.81	18.01	128	188.84	18.46	132	179.56	18.88	136	169.95	19.26	140
	40	198.97	16.06	117	191.46	16.53	122	183.70	16.98	126	175.64	17.40	130	167.28	17.79	134	158.60	18.14	138
	35	182.50	15.11	115	175.85	15.56	119	168.96	15.98	123	161.80	16.37	127	154.35	16.73	131	146.57	17.05	135
	30	165.80	14.20	112	159.95	14.62	116	153.89	15.01	120	147.59	15.37	125	141.00	15.70	129	134.10	15.99	133
<b>4DJ-200L</b>	25	149.23	13.33	109	144.11	13.71	113	138.82	14.07	118	133.31	14.40	122	127.55	14.70	126	121.49	14.97	131
	20	133.19	12.49	106	128.71	12.84	110	124.11	13.17	115	119.33	13.47	119	114.33	13.74	124	109.05	13.98	128
	15	118.09	11.69	103	114.16	12.01	108	110.16	12.31	112	106.03	12.58	117	101.71	12.82	122	97.15	13.04	126
	10	104.35	10.94	101	100.88	11.22	106	97.38	11.49	110	93.81	11.73	115	90.09	11.95	119	86.17	12.14	124
<b>H2314</b>	45	273.58	21.17	119	263.04	21.83	123	252.16	22.45	127	240.90	23.03	131	229.25	23.57	135	217.18	24.07	139
	40	252.97	19.99	116	243.57	20.60	120	233.84	21.19	124	223.74	21.73	129	213.26	22.23	133	202.36	22.69	137
	35	231.74	18.83	113	223.41	19.40	118	214.79	19.95	122	205.83	20.45	126	196.49	20.92	130	186.74	21.34	134
	30	210.30	17.71	110	202.97	18.24	115	195.39	18.74	119	187.50	19.21	123	179.25	19.64	128	170.62	20.02	132
<b>6DH-200L</b>	25	189.09	16.63	108	182.67	17.12	112	176.04	17.58	117	169.15	18.01	121	161.94	18.40	125	154.36	18.75	130
	20	168.62	15.60	105	163.00	16.05	110	157.22	16.47	114	151.24	16.86	119	144.98	17.21	123	138.39	17.52	127
	15	149.39	14.62	102	144.45	15.02	107	139.42	15.40	112	134.24	15.75	116	128.84	16.07	121	123.14	16.35	125
	10	131.93	13.69	100	127.55	14.05	105	123.15	14.39	109	118.67	14.70	114	114.01	14.98	119	109.11	15.22	123
<b>H2814</b>	45	342.24	24.19	113	329.80	25.05	118	316.95	25.87	122	303.65	26.64	126	289.84	27.37	130	275.51	28.05	134
	40	314.91	22.92	111	303.82	23.72	115	292.37	24.48	120	280.48	25.20	124	268.12	25.87	128	255.25	26.49	132
	35	287.17	21.68	108	277.35	22.41	113	267.20	23.12	117	256.68	23.78	122	245.70	24.40	126	234.24	24.97	130
	30	259.52	20.46	106	250.85	21.14	111	241.93	21.79	115	232.67	22.40	119	223.00	22.96	124	212.88	23.48	128
<b>6DJ-300L</b>	25	232.49	19.29	104	224.86	19.91	108	217.04	20.50	113	208.95	21.05	117	200.50	21.57	122	191.64	22.03	126
	20	206.66	18.16	101	199.93	18.72	106	193.09	19.26	110	186.05	19.76	115	178.71	20.22	120	171.01	20.64	124
	15	182.61	17.08	99	176.65	17.58	104	170.66	18.06	108	164.53	18.51	113	158.18	18.92	118	151.52	19.29	122
	10	160.93	16.04	97	155.60	16.49	102	150.31	16.92	106	144.98	17.31	111	139.49	17.68	116	133.75	18.00	120

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
COPELAWELD HERMETIC COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0152</b>	45	21.10	1.62	113	20.22	1.67	117	19.34	1.71	121	18.47	1.75	125	17.59	1.78	129	16.72	1.81	133
	40	19.01	1.55	110	18.19	1.59	114	17.36	1.62	118	16.54	1.65	123	15.72	1.68	127	14.90	1.70	131
	35	17.01	1.47	107	16.23	1.50	111	15.46	1.53	116	14.69	1.56	120	13.93	1.58	124	13.17	1.60	128
	<b>CRA-0150</b>	30	15.10	1.39	105	14.37	1.42	109	13.65	1.44	113	12.94	1.46	117	12.23	1.48	121	11.53	1.49
<b>H0202</b>	45	27.30	2.19	115	26.19	2.25	119	25.08	2.30	123	23.97	2.34	127	22.88	2.38	131	21.79	2.42	135
	40	24.72	2.09	112	23.68	2.14	116	22.65	2.18	120	21.62	2.22	124	20.61	2.26	129	19.60	2.29	133
	35	22.25	1.98	109	21.28	2.03	113	20.33	2.07	118	19.38	2.10	122	18.44	2.13	126	17.51	2.16	130
	<b>CRD-0200</b>	30	19.90	1.88	107	19.00	1.92	111	18.12	1.95	115	17.25	1.99	119	16.38	2.01	123	15.53	2.03
<b>H0312</b>	45	43.49	3.44	115	41.65	3.52	119	39.81	3.61	123	37.99	3.69	127	36.17	3.77	131	34.36	3.84	135
	40	39.21	3.25	112	37.49	3.33	116	35.79	3.41	120	34.10	3.48	124	32.42	3.55	128	30.76	3.62	132
	35	35.14	3.08	109	33.54	3.15	113	31.97	3.22	117	30.41	3.28	121	28.88	3.35	125	27.36	3.40	130
	<b>CRJ-0300</b>	30	31.31	2.92	106	29.83	2.98	110	28.38	3.04	114	26.95	3.10	119	25.55	3.15	123	24.17	3.20
<b>H0352</b>	45	56.58	4.21	110	54.34	4.32	114	52.08	4.42	118	49.79	4.50	122	47.48	4.57	126	45.16	4.64	131
	40	51.17	3.99	107	49.07	4.09	111	46.95	4.17	116	44.81	4.25	120	42.66	4.31	124	40.50	4.36	128
	35	45.90	3.76	105	43.94	3.85	109	41.96	3.92	113	39.98	3.99	117	37.98	4.05	122	35.98	4.09	126
	<b>CRL-0350</b>	30	40.81	3.53	102	38.99	3.61	106	37.16	3.68	111	35.33	3.74	115	33.50	3.79	119	31.67	3.83
<b>H0402</b>	45	60.48	4.83	112	58.30	4.96	116	56.10	5.07	121	53.87	5.18	125	51.62	5.27	129	49.33	5.35	133
	40	55.13	4.61	110	53.11	4.72	114	51.06	4.83	118	48.99	4.92	123	46.89	5.00	127	44.76	5.07	131
	35	49.94	4.38	107	48.07	4.48	112	46.17	4.58	116	44.24	4.66	120	42.29	4.73	124	40.30	4.78	129
	<b>CRM-0400</b>	30	44.94	4.15	105	43.20	4.24	109	41.44	4.32	114	39.64	4.39	118	37.82	4.44	122	35.96	4.49

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR COPELAWELD HERMETIC COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0502</b>	45	68.38	5.82	117	65.92	5.99	121	63.47	6.15	125	61.02	6.30	130	58.57	6.43	134	56.13	6.56	138
	40	62.47	5.55	114	60.21	5.70	118	57.94	5.84	123	55.67	5.97	127	53.41	6.09	131	51.15	6.21	135
	35	56.84	5.28	111	54.74	5.41	116	52.65	5.54	120	50.56	5.65	124	48.47	5.75	129	46.39	5.85	133
	<b>CRN-0500</b>	30	51.47	5.01	109	49.54	5.12	113	47.60	5.23	117	45.67	5.33	122	43.74	5.42	126	41.81	5.50
<b>H0752</b>	45	101.30	9.14	123	97.25	9.31	127	93.21	9.47	131	89.19	9.61	134	85.19	9.73	138	81.21	9.84	142
	40	92.36	8.59	119	88.57	8.75	123	84.80	8.89	127	81.06	9.01	131	77.34	9.12	135	73.64	9.22	139
	35	83.77	8.07	116	80.22	8.21	120	76.70	8.33	124	73.21	8.44	128	69.75	8.53	132	66.32	8.61	136
	<b>BRE-0750</b>	30	75.56	7.57	113	72.23	7.68	117	68.94	7.79	121	65.68	7.88	125	62.45	7.95	129	59.26	8.02
<b>H0902</b>	45	123.31	9.87	114	118.64	10.11	119	114.00	10.34	123	109.39	10.55	127	104.80	10.75	131	100.24	10.93	135
	40	112.21	9.35	112	107.90	9.57	116	103.62	9.78	120	99.35	9.98	124	95.11	10.15	129	90.89	10.32	133
	35	101.65	8.85	109	97.67	9.06	113	93.72	9.24	118	89.78	9.42	122	85.85	9.57	126	81.94	9.71	130
	<b>BRG-0900</b>	30	91.62	8.37	106	87.96	8.55	111	84.31	8.72	115	80.66	8.87	119	77.02	9.01	124	73.39	9.13

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
CARLYLE COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0317</b>	45	43.33	2.78	113	41.94	2.93	118	40.55	3.08	122	39.16	3.21	126	37.76	3.34	131	36.35	3.47	135
	40	39.66	2.71	111	38.38	2.85	115	37.08	2.98	120	35.79	3.10	124	34.48	3.22	129	33.17	3.32	133
	35	36.13	2.64	108	34.94	2.76	113	33.74	2.88	117	32.53	2.99	122	31.32	3.09	126	30.10	3.18	131
	30	32.75	2.57	106	31.65	2.68	111	30.54	2.78	115	29.42	2.88	120	28.29	2.96	124	27.16	3.04	129
<b>06DM-808</b>	25	29.53	2.50	104	28.51	2.59	108	27.48	2.68	113	26.44	2.76	118	25.40	2.83	122	24.35	2.90	127
	20	26.49	2.42	102	25.54	2.50	106	24.58	2.58	111	23.62	2.64	116	22.66	2.70	120	21.69	2.75	125
	15	23.62	2.34	100	22.74	2.41	104	21.85	2.47	109	20.96	2.52	114	20.07	2.57	118	19.17	2.60	123
	10	20.95	2.25	98	20.12	2.30	103	19.30	2.35	107	18.48	2.39	112	17.65	2.42	116	16.82	2.45	121
<b>H0457</b>	45	60.04	5.14	129	57.84	5.29	133	55.65	5.43	137	53.46	5.56	141	51.28	5.69	145	49.11	5.80	148
	40	55.19	4.89	125	53.15	5.03	129	51.10	5.15	133	49.07	5.27	137	47.04	5.38	141	45.01	5.47	145
	35	50.45	4.66	122	48.54	4.78	126	46.64	4.89	130	44.75	4.99	134	42.86	5.08	138	40.98	5.16	142
	30	45.84	4.44	118	44.06	4.54	122	42.30	4.64	127	40.54	4.72	131	38.79	4.80	135	37.05	4.87	139
<b>06DM-313</b>	25	41.39	4.23	115	39.74	4.32	119	38.10	4.40	123	36.48	4.47	128	34.86	4.53	132	33.25	4.58	136
	20	37.13	4.02	112	35.61	4.10	116	34.09	4.16	120	32.58	4.22	125	31.08	4.26	129	29.60	4.30	133
	15	33.10	3.82	109	31.68	3.88	113	30.28	3.93	118	28.89	3.97	122	27.51	4.00	126	26.14	4.02	130
	10	29.32	3.61	106	28.01	3.66	111	26.71	3.70	115	25.42	3.72	119	24.15	3.74	123	22.89	3.75	128
<b>H0527</b>	45	82.43	6.29	116	79.52	6.57	120	76.62	6.85	125	73.71	7.11	129	70.81	7.37	133	67.91	7.63	138
	40	75.66	5.97	113	72.98	6.23	118	70.30	6.48	122	67.63	6.72	127	64.96	6.95	131	62.30	7.18	135
	35	69.08	5.67	111	66.61	5.90	115	64.15	6.13	120	61.69	6.34	124	59.25	6.55	128	56.81	6.76	133
	30	62.73	5.38	108	60.46	5.59	113	58.20	5.79	117	55.94	5.99	122	53.70	6.17	126	51.47	6.35	131
<b>06DM-316</b>	25	56.65	5.10	106	54.56	5.29	110	52.48	5.47	115	50.42	5.64	119	48.36	5.80	124	46.32	5.96	128
	20	50.86	4.83	103	48.94	5.00	108	47.04	5.15	113	45.14	5.30	117	43.27	5.45	122	41.40	5.58	126
	15	45.41	4.56	101	43.64	4.71	106	41.89	4.85	110	40.16	4.98	115	38.44	5.10	119	36.74	5.21	124
	10	40.31	4.29	99	38.69	4.42	104	37.09	4.54	108	35.50	4.65	113	33.93	4.75	118	32.38	4.84	122

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR CARLYLE COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0667</b>	45	109.21	7.88	116	105.93	8.25	120	102.66	8.61	125	99.42	8.96	129	96.19	9.31	134	92.98	9.66	138
	40	100.54	7.57	113	97.53	7.91	118	94.53	8.24	122	91.54	8.58	127	88.57	8.90	131	85.62	9.23	136
	35	92.17	7.27	111	89.40	7.59	115	86.65	7.90	120	83.91	8.21	124	81.19	8.52	129	78.49	8.82	133
	30	84.12	6.98	108	81.59	7.28	113	79.07	7.57	117	76.57	7.86	122	74.09	8.14	127	71.62	8.42	131
<b>06DR-820</b>	25	76.43	6.71	106	74.12	6.98	111	71.83	7.25	115	69.55	7.52	120	67.28	7.78	125	65.04	8.04	129
	20	69.14	6.44	104	67.04	6.69	109	64.95	6.94	113	62.88	7.19	118	60.82	7.43	123	58.78	7.67	127
	15	62.27	6.18	102	60.36	6.41	107	58.47	6.64	111	56.59	6.87	116	54.73	7.09	121	52.88	7.31	125
	10	55.85	5.92	100	54.12	6.13	105	52.41	6.34	109	50.72	6.55	114	49.04	6.75	119	47.37	6.95	124
<b>H0687</b>	45	125.51	9.84	122	121.29	10.22	126	117.09	10.60	130	112.91	10.97	134	108.74	11.34	139	104.58	11.70	143
	40	115.40	9.38	119	111.51	9.74	123	107.64	10.09	127	103.78	10.44	132	99.94	10.78	136	96.12	11.12	140
	35	105.57	8.94	116	101.98	9.27	120	98.41	9.60	124	94.87	9.92	129	91.34	10.24	133	87.84	10.55	137
	30	96.08	8.52	113	92.77	8.83	117	89.49	9.13	122	86.23	9.43	126	83.00	9.72	130	79.79	10.01	135
<b>06DR-724</b>	25	86.99	8.11	110	83.94	8.40	115	80.93	8.68	119	77.93	8.95	123	74.97	9.22	128	72.03	9.48	132
	20	78.34	7.72	107	75.55	7.98	112	72.78	8.24	116	70.04	8.48	121	67.32	8.72	125	64.64	8.96	130
	15	70.21	7.34	105	67.64	7.58	110	65.10	7.81	114	62.59	8.03	119	60.11	8.24	123	57.65	8.45	128
	10	62.63	6.97	103	60.27	7.18	107	57.95	7.39	112	55.65	7.58	116	53.38	7.77	121	51.14	7.95	126
<b>H0767</b>	45	157.33	10.56	112	152.24	11.04	117	147.18	11.51	121	142.16	11.97	126	137.18	12.42	130	132.24	12.85	135
	40	144.06	10.13	110	139.38	10.58	114	134.74	11.01	119	130.14	11.44	123	125.59	11.86	128	121.08	12.26	132
	35	131.30	9.72	108	127.00	10.13	112	122.75	10.54	117	118.55	10.93	121	114.39	11.32	126	110.28	11.69	130
	30	119.10	9.33	105	115.17	9.71	110	111.28	10.08	114	107.45	10.44	119	103.66	10.79	124	99.92	11.14	128
<b>06DR-228</b>	25	107.53	8.95	103	103.93	9.29	108	100.39	9.63	112	96.89	9.96	117	93.45	10.29	122	90.05	10.60	126
	20	96.63	8.57	101	93.35	8.89	106	90.12	9.20	110	86.94	9.50	115	83.81	9.79	120	80.73	10.07	124
	15	86.46	8.20	99	83.48	8.48	104	80.54	8.76	109	77.66	9.03	113	74.82	9.29	118	72.03	9.55	123
	10	77.07	7.82	97	74.36	8.08	102	71.70	8.33	107	69.09	8.57	112	66.52	8.80	116	63.99	9.03	121

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
CARLYLE COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE (Continued)**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1027</b>	45	189.96	15.88	121	183.69	16.55	125	177.48	17.21	130	171.32	17.84	134	165.21	18.46	138	159.16	19.05	143
	40	175.07	15.04	118	169.27	15.66	122	163.53	16.27	127	157.83	16.86	131	152.18	17.42	136	146.58	17.97	140
	35	160.58	14.25	115	155.23	14.83	120	149.93	15.39	124	144.68	15.93	128	139.48	16.45	133	134.32	16.95	137
	30	146.55	13.52	112	141.64	14.05	117	136.77	14.56	121	131.95	15.05	126	127.17	15.52	130	122.44	15.98	135
<b>06DM-337</b>	25	133.07	12.82	110	128.57	13.30	114	124.12	13.77	119	119.71	14.21	123	115.34	14.64	128	111.01	15.05	132
	20	120.21	12.15	107	116.10	12.59	112	112.04	13.01	116	108.02	13.41	121	104.04	13.79	125	100.10	14.16	130
	15	108.04	11.50	105	104.31	11.90	109	100.61	12.27	114	96.96	12.63	119	93.35	12.97	123	89.77	13.29	128
	10	96.64	10.87	102	93.25	11.21	107	89.90	11.55	112	86.59	11.86	116	83.32	12.16	121	80.10	12.45	126

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR CARLYLE COMPRESSORS R404a LOW TEMPERATURE

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0227</b>	-15	15.39	2.14	96	14.72	2.16	101	14.05	2.18	105	13.38	2.20	110	12.71	2.22	115	12.04	2.23	119
	-20	13.53	1.98	95	12.93	2.00	99	12.34	2.02	104	11.75	2.03	108	11.16	2.05	113	10.57	2.06	118
	-25	11.81	1.83	93	11.28	1.85	98	10.76	1.86	102	10.24	1.87	107	9.72	1.88	112	9.20	1.89	116
<b>06DR-109</b>	-30	10.23	1.69	91	9.77	1.70	96	9.31	1.71	101	8.85	1.72	106	8.40	1.72	110	7.94	1.72	115
	-35	8.80	1.55	90	8.39	1.56	95	7.99	1.56	100	7.59	1.57	104	7.19	1.57	109	6.79	1.57	114
	-40	7.50	1.42	89	7.14	1.43	94	6.79	1.43	98	6.44	1.43	103	6.09	1.43	108	5.74	1.43	113
<b>H0337</b>	-15	19.30	2.89	101	18.21	2.91	105	17.15	2.92	109	16.09	2.92	114	15.06	2.92	118	14.03	2.92	122
	-20	16.76	2.62	98	15.79	2.63	103	14.83	2.63	107	13.90	2.63	111	12.97	2.62	116	12.07	2.60	120
	-25	14.39	2.36	96	13.53	2.36	100	12.69	2.35	105	11.86	2.34	109	11.04	2.32	114	10.24	2.30	118
<b>06DR-013</b>	-30	12.22	2.11	94	11.46	2.10	98	10.71	2.09	103	9.97	2.07	107	9.26	2.05	112	8.55	2.02	116
	-35	10.24	1.87	92	9.56	1.85	96	8.90	1.83	101	8.25	1.81	105	7.62	1.78	110	7.00	1.75	114
	-40	8.45	1.64	90	7.85	1.62	95	7.26	1.59	99	6.69	1.56	104	6.14	1.53	108	5.60	1.49	113
<b>H0477</b>	-15	28.44	3.90	97	27.13	3.97	101	25.81	4.05	106	24.49	4.11	111	23.15	4.17	115	21.80	4.22	120
	-20	24.93	3.62	95	23.75	3.68	100	22.56	3.74	104	21.37	3.79	109	20.17	3.83	114	18.95	3.87	118
	-25	21.66	3.34	93	20.59	3.39	98	19.53	3.43	103	18.46	3.47	107	17.38	3.50	112	16.29	3.52	117
<b>06DR-316</b>	-30	18.63	3.07	92	17.67	3.11	96	16.71	3.13	101	15.75	3.16	106	14.79	3.17	110	13.81	3.17	115
	-35	15.85	2.80	90	14.98	2.83	95	14.12	2.84	100	13.25	2.85	104	12.39	2.85	109	11.52	2.84	114
	-40	13.30	2.54	89	12.51	2.55	94	11.73	2.55	98	10.95	2.55	103	10.18	2.53	108	9.40	2.50	112
<b>H0537</b>	-15	33.34	4.76	100	31.96	4.84	105	30.55	4.92	109	29.12	5.00	114	27.66	5.06	118	26.18	5.12	123
	-20	29.54	4.41	98	28.28	4.48	103	27.01	4.54	107	25.72	4.60	112	24.40	4.65	116	23.06	4.69	121
	-25	25.96	4.06	96	24.83	4.12	101	23.68	4.17	105	22.51	4.21	110	21.33	4.24	115	20.12	4.27	119
<b>06DR-718</b>	-30	22.62	3.73	94	21.59	3.77	99	20.56	3.81	104	19.50	3.83	108	18.44	3.85	113	17.35	3.86	117
	-35	19.51	3.41	93	18.58	3.43	97	17.64	3.45	102	16.69	3.46	107	15.73	3.46	111	14.76	3.46	116
	-40	16.63	3.09	91	15.78	3.10	96	14.93	3.11	100	14.07	3.10	105	13.20	3.09	110	12.32	3.07	114

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
CARLYLE COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

HOCA Model  Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0677</b>	-15	36.60	5.22	102	34.94	5.30	106	33.26	5.38	111	31.57	5.45	115	29.86	5.52	120	28.14	5.57	124
	-20	32.31	4.82	100	30.81	4.89	104	29.30	4.96	109	27.78	5.01	113	26.25	5.06	118	24.70	5.09	122
	-25	28.28	4.44	98	26.93	4.50	102	25.58	4.54	107	24.21	4.58	111	22.84	4.61	116	21.45	4.63	120
<b>06DR-820</b>	-30	24.52	4.07	96	23.30	4.11	100	22.09	4.14	105	20.86	4.16	109	19.63	4.18	114	18.39	4.18	118
	-35	21.03	3.72	94	19.93	3.74	98	18.84	3.75	103	17.74	3.76	107	16.64	3.76	112	15.53	3.74	117
	-40	17.80	3.38	92	16.81	3.39	97	15.82	3.38	101	14.84	3.37	106	13.86	3.35	110	12.87	3.32	115
<b>H0687</b>	-15	40.50	5.71	100	38.57	5.78	105	36.62	5.83	109	34.66	5.87	113	32.69	5.90	118	30.71	5.92	122
	-20	35.55	5.25	98	33.80	5.29	102	32.03	5.32	107	30.26	5.35	111	28.48	5.36	116	26.68	5.36	120
	-25	30.91	4.79	96	29.32	4.82	100	27.72	4.84	105	26.12	4.84	109	24.51	4.83	114	22.89	4.82	118
<b>06DR-724</b>	-30	26.57	4.35	94	25.13	4.36	99	23.68	4.36	103	22.23	4.35	108	20.78	4.32	112	19.32	4.29	117
	-35	22.55	3.93	92	21.24	3.92	97	19.93	3.90	101	18.62	3.87	106	17.31	3.83	110	15.99	3.77	115
	-40	18.85	3.52	90	17.65	3.49	95	16.45	3.46	100	15.26	3.41	104	14.08	3.35	109	12.90	3.27	113
<b>H0767</b>	-15	49.94	7.26	103	47.76	7.37	108	45.55	7.47	112	43.29	7.55	117	40.99	7.61	121	38.64	7.65	125
	-20	44.28	6.69	101	42.30	6.78	105	40.28	6.84	110	38.22	6.89	114	36.12	6.92	119	33.97	6.93	123
	-25	38.92	6.14	99	37.10	6.19	103	35.25	6.23	108	33.37	6.24	112	31.45	6.24	117	29.49	6.22	121
<b>06DR228</b>	-30	33.84	5.59	97	32.17	5.61	101	30.47	5.62	106	28.75	5.61	110	26.99	5.57	114	25.19	5.52	119
	-35	29.06	5.04	94	27.51	5.04	99	25.95	5.02	104	24.36	4.98	108	22.73	4.92	112	21.08	4.84	117
	-40	24.57	4.51	93	23.13	4.48	97	21.68	4.43	102	20.20	4.36	106	18.69	4.27	110	17.16	4.17	115
<b>H1107</b>	-15	66.84	9.65	101	63.72	9.81	106	60.63	9.95	110	57.57	10.09	115	54.52	10.22	119	51.50	10.34	124
	-20	59.69	8.90	99	56.91	9.03	104	54.15	9.15	108	51.42	9.27	113	48.70	9.38	117	46.01	9.48	122
	-25	53.03	8.17	97	50.56	8.29	102	48.10	8.39	106	45.67	8.49	111	43.26	8.58	116	40.87	8.66	120
<b>06DR-337</b>	-30	46.86	7.49	95	44.66	7.58	100	42.48	7.67	105	40.33	7.75	109	38.19	7.82	114	36.07	7.89	119
	-35	41.17	6.84	94	39.22	6.92	98	37.29	6.99	103	35.38	7.06	108	33.49	7.11	112	31.61	7.17	117
	-40	35.96	6.24	92	34.22	6.30	97	32.51	6.36	102	30.81	6.41	106	29.13	6.45	111	27.47	6.49	116

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR CARLYLE COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE

HOCA Model	Compressor Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
			Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0317</b>		40	43.75	3.58	114	41.70	3.68	118	39.64	3.77	122	37.57	3.85	126	35.50	3.93	130	33.42	4.00	134
		35	40.19	3.43	111	38.29	3.51	115	36.40	3.59	119	34.49	3.67	123	32.59	3.74	127	30.67	3.80	131
		30	36.75	3.28	109	35.01	3.35	113	33.27	3.42	117	31.52	3.49	121	29.77	3.55	125	28.02	3.61	129
		25	33.45	3.13	107	31.86	3.20	111	30.26	3.26	115	28.67	3.32	119	27.07	3.37	123	25.47	3.42	128
<b>06DM-808</b>		20	30.29	2.99	104	28.84	3.05	109	27.38	3.10	113	25.93	3.15	117	24.48	3.19	121	23.02	3.23	126
		15	27.28	2.84	102	25.96	2.90	107	24.64	2.94	111	23.32	2.98	115	22.00	3.02	120	20.68	3.04	124
		10	24.43	2.70	100	23.23	2.75	105	22.03	2.78	109	20.84	2.81	113	19.64	2.84	118	18.45	2.86	122
<b>H0457</b>		40	68.62	5.25	115	65.29	5.38	118	61.95	5.51	122	58.58	5.63	126	55.19	5.75	130	51.79	5.86	134
		35	63.02	4.98	112	59.93	5.10	116	56.82	5.22	120	53.70	5.33	124	50.56	5.43	128	47.40	5.53	132
		30	57.59	4.71	109	54.73	4.83	114	51.85	4.93	118	48.96	5.03	122	46.05	5.12	126	43.13	5.20	130
		25	52.34	4.46	107	49.69	4.56	111	47.03	4.65	115	44.36	4.73	119	41.68	4.81	123	38.99	4.88	127
<b>06DM-313</b>		20	47.28	4.21	105	44.84	4.29	109	42.39	4.37	113	39.93	4.44	117	37.47	4.51	121	34.99	4.56	125
		15	42.43	3.96	102	40.18	4.03	107	37.92	4.10	111	35.66	4.15	115	33.40	4.20	119	31.13	4.24	123
		10	37.80	3.71	100	35.72	3.77	105	33.65	3.82	109	31.57	3.87	113	29.49	3.90	117	27.42	3.92	122
<b>H0527</b>		40	88.91	6.65	114	84.52	6.81	118	80.15	6.96	122	75.80	7.10	126	71.46	7.22	130	67.12	7.34	134
		35	81.46	6.41	112	77.41	6.56	116	73.38	6.71	120	69.36	6.84	124	65.35	6.95	128	61.36	7.06	132
		30	74.30	6.15	109	70.57	6.30	113	66.87	6.43	117	63.18	6.55	122	59.50	6.66	126	55.84	6.75	130
		25	67.44	5.88	107	64.02	6.02	111	60.63	6.14	115	57.26	6.25	119	53.91	6.34	123	50.57	6.42	128
<b>06DM-316</b>		20	60.89	5.61	105	57.77	5.73	109	54.68	5.83	113	51.62	5.93	117	48.57	6.01	121	45.54	6.07	126
		15	54.66	5.32	103	51.83	5.43	107	49.03	5.52	111	46.25	5.60	115	43.49	5.66	120	40.74	5.71	124
		10	48.77	5.03	100	46.20	5.12	105	43.66	5.19	109	41.15	5.25	113	38.66	5.30	118	36.19	5.33	122

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.





**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0677</b>	40	120.42	8.75	112	115.56	9.11	116	110.62	9.45	120	105.60	9.80	124	100.49	10.13	129	95.29	10.46	133
	35	111.23	8.41	109	106.77	8.74	114	102.24	9.07	118	97.63	9.39	122	92.94	9.70	127	88.17	10.00	131
	30	102.38	8.08	107	98.31	8.38	112	94.17	8.69	116	89.96	8.98	120	85.67	9.27	125	81.30	9.55	129
	25	93.89	7.74	105	90.18	8.03	110	86.41	8.31	114	82.58	8.58	119	78.67	8.84	123	74.68	9.09	127
<b>06DR-820</b>	20	85.77	7.41	103	82.40	7.68	108	78.98	7.93	112	75.50	8.18	117	71.95	8.41	121	68.33	8.63	126
	15	78.03	7.09	102	74.98	7.33	106	71.88	7.55	111	68.72	7.77	115	65.51	7.98	120	62.23	8.18	124
	10	70.68	6.76	100	67.91	6.97	104	65.11	7.18	109	62.26	7.37	114	59.35	7.55	118	56.39	7.71	123
<b>H0687</b>	40	136.19	10.53	115	130.17	10.90	119	124.10	11.25	123	117.99	11.60	127	111.82	11.93	131	105.60	12.25	135
	35	125.60	10.12	112	120.07	10.46	116	114.49	10.79	120	108.87	11.12	125	103.20	11.42	129	97.47	11.72	133
	30	115.41	9.69	110	110.33	10.01	114	105.23	10.32	118	100.08	10.61	122	94.89	10.89	127	89.64	11.16	131
	25	105.61	9.25	108	100.98	9.54	112	96.32	9.82	116	91.63	10.09	120	86.90	10.34	125	82.12	10.58	129
<b>06DR-724</b>	20	96.23	8.80	105	92.02	9.07	110	87.79	9.32	114	83.53	9.56	118	79.24	9.78	123	74.90	9.98	127
	15	87.28	8.35	103	83.47	8.59	108	79.64	8.81	112	75.79	9.02	117	71.91	9.20	121	67.99	9.37	125
	10	78.78	7.90	101	75.33	8.11	106	71.87	8.30	110	68.40	8.47	115	64.90	8.62	119	61.37	8.76	124
<b>H0767</b>	40	164.65	12.72	113	157.72	13.19	118	150.72	13.66	122	143.62	14.11	126	136.44	14.54	130	129.15	14.97	134
	35	152.10	12.20	111	145.75	12.64	115	139.32	13.07	120	132.82	13.49	124	126.22	13.90	128	119.53	14.29	132
	30	140.00	11.68	109	134.20	12.09	113	128.34	12.49	118	122.39	12.88	122	116.36	13.25	126	110.24	13.60	130
	25	128.38	11.17	107	123.11	11.54	111	117.77	11.91	116	112.36	12.26	120	106.88	12.59	124	101.30	12.91	129
<b>06DR-228</b>	20	117.26	10.65	105	112.48	10.99	109	107.64	11.32	114	102.74	11.63	118	97.77	11.93	122	92.71	12.21	127
	15	106.66	10.14	103	102.33	10.45	107	97.96	10.74	112	93.53	11.01	116	89.04	11.27	121	84.47	11.51	125
	10	96.58	9.63	101	92.67	9.90	105	88.72	10.15	110	84.73	10.39	114	80.68	10.61	119	76.57	10.81	123

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR CARLYLE COMPRESSORS R404a MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H1027</b>	40	202.56	17.79	117	193.52	18.32	121	184.48	18.82	125	175.44	19.26	129	166.40	19.65	133	157.35	19.98	137
	35	186.97	16.94	115	178.62	17.46	119	170.27	17.93	123	161.91	18.36	127	153.55	18.73	131	145.18	19.04	135
	30	171.97	16.10	112	164.29	16.59	116	156.61	17.04	120	148.92	17.45	125	141.23	17.80	129	133.53	18.09	133
	25	157.57	15.25	110	150.54	15.72	114	143.51	16.15	118	136.48	16.52	122	129.43	16.85	127	122.38	17.12	131
<b>06DM-337</b>	20	143.79	14.42	107	137.38	14.85	112	130.98	15.25	116	124.57	15.60	120	118.15	15.90	125	111.72	16.13	129
	15	130.65	13.59	105	124.83	14.00	110	119.02	14.36	114	113.21	14.68	118	107.39	14.95	123	101.55	15.15	127
	10	118.14	12.79	103	112.88	13.16	107	107.63	13.48	112	102.38	13.77	116	97.12	14.00	121	91.85	14.17	125

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
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R134a MEDIUM/HIGH TEMPERATURE**

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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0227</b>	45	33.43	2.22	110	32.19	2.30	114	30.97	2.37	119	29.76	2.45	123	28.55	2.52	127	27.36	2.58	132
	40	30.30	2.11	107	29.16	2.19	112	28.04	2.26	116	26.93	2.32	121	25.82	2.38	125	24.73	2.44	129
	35	27.34	2.01	105	26.30	2.08	109	25.27	2.14	114	24.26	2.20	118	23.25	2.25	123	22.25	2.31	127
	30	24.55	1.92	103	23.61	1.97	107	22.67	2.03	112	21.75	2.08	116	20.83	2.13	121	19.92	2.17	125
<b>06DR-109</b>	25	21.95	1.82	101	21.09	1.87	105	20.24	1.92	110	19.40	1.96	114	18.57	2.00	119	17.75	2.04	123
	20	19.52	1.72	99	18.74	1.76	103	17.98	1.80	108	17.22	1.84	112	16.46	1.88	117	15.72	1.91	121
	15	17.27	1.63	97	16.57	1.66	101	15.88	1.70	106	15.19	1.73	111	14.51	1.76	115	13.85	1.78	120
	10	15.20	1.53	95	14.57	1.56	100	13.94	1.59	104	13.33	1.61	109	12.72	1.64	113	12.11	1.66	118
<b>H0337</b>	45	49.66	2.91	105	47.71	3.05	109	45.77	3.18	113	43.85	3.31	118	41.95	3.43	122	40.06	3.54	127
	40	44.75	2.79	102	42.96	2.92	107	41.17	3.04	111	39.41	3.15	116	37.65	3.25	120	35.92	3.35	125
	35	40.14	2.68	100	38.49	2.79	105	36.85	2.89	109	35.23	2.99	114	33.63	3.08	118	32.04	3.16	123
	30	35.82	2.55	98	34.31	2.65	103	32.81	2.74	107	31.33	2.83	112	29.86	2.90	117	28.41	2.98	121
<b>06DR-013</b>	25	31.79	2.43	97	30.42	2.51	101	29.05	2.59	106	27.70	2.66	110	26.36	2.73	115	25.04	2.79	119
	20	28.06	2.30	95	26.81	2.38	99	25.56	2.44	104	24.33	2.50	109	23.12	2.55	113	21.91	2.60	118
	15	24.61	2.18	93	23.48	2.23	98	22.35	2.29	103	21.23	2.33	107	20.12	2.37	112	19.03	2.41	116
	10	21.45	2.04	92	20.42	2.09	96	19.39	2.13	101	18.38	2.17	106	17.37	2.20	110	16.38	2.22	115
<b>H0477</b>	45	60.28	4.11	111	58.10	4.27	115	55.93	4.44	119	53.79	4.60	124	51.66	4.76	128	49.55	4.91	133
	40	54.72	3.90	108	52.72	4.05	113	50.74	4.20	117	48.78	4.35	121	46.83	4.50	126	44.90	4.65	130
	35	49.47	3.70	106	47.64	3.84	110	45.84	3.98	115	44.05	4.12	119	42.27	4.25	124	40.52	4.39	128
	30	44.52	3.50	103	42.86	3.63	108	41.22	3.76	112	39.60	3.89	117	37.99	4.01	121	36.40	4.14	126
<b>06DR-316</b>	25	39.89	3.31	101	38.39	3.43	106	36.91	3.55	110	35.44	3.67	115	33.99	3.78	120	32.56	3.89	124
	20	35.58	3.13	99	34.22	3.24	104	32.89	3.35	108	31.57	3.45	113	30.26	3.56	118	28.98	3.65	122
	15	31.58	2.95	97	30.36	3.05	102	29.17	3.15	107	27.98	3.24	111	26.81	3.34	116	25.66	3.42	121
	10	27.90	2.78	96	26.81	2.87	100	25.73	2.96	105	24.67	3.04	110	23.63	3.12	114	22.59	3.20	119

**(Continued)**

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR CARLYLE COMPRESSORS R134a MEDIUM/HIGH TEMPERATURE (Continued)

HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0537</b>	45	68.93	4.90	115	66.31	5.06	120	63.78	5.22	124	61.35	5.37	128	59.01	5.52	132	56.77	5.67	137
	40	62.55	4.63	112	60.19	4.78	117	57.91	4.92	121	55.73	5.06	125	53.62	5.20	130	51.61	5.34	134
	35	56.53	4.37	110	54.41	4.50	114	52.38	4.64	118	50.42	4.76	123	48.55	4.89	127	46.74	5.01	132
	30	50.87	4.11	107	49.00	4.24	111	47.19	4.35	116	45.45	4.47	120	43.77	4.58	125	42.16	4.68	129
<b>06DR-718</b>	25	45.59	3.87	104	43.93	3.97	109	42.33	4.08	113	40.79	4.18	118	39.30	4.27	122	37.86	4.37	127
	20	40.68	3.62	102	39.22	3.72	107	37.81	3.81	111	36.44	3.90	116	35.11	3.98	120	33.82	4.06	125
	15	36.14	3.39	100	34.86	3.47	104	33.61	3.55	109	32.39	3.62	114	31.19	3.69	118	30.01	3.75	123
	10	31.96	3.16	98	30.83	3.23	102	29.72	3.29	107	28.62	3.35	112	27.52	3.41	116	26.42	3.46	121
<b>H0677</b>	45	73.64	5.42	118	71.09	5.60	122	68.54	5.77	127	66.01	5.94	131	63.47	6.11	135	60.95	6.27	139
	40	67.28	5.12	115	64.93	5.29	119	62.58	5.45	124	60.24	5.60	128	57.91	5.75	132	55.59	5.90	136
	35	61.20	4.84	112	59.04	4.99	117	56.89	5.14	121	54.74	5.28	125	52.60	5.41	130	50.47	5.54	134
	30	55.42	4.56	109	53.45	4.70	114	51.48	4.83	118	49.51	4.96	123	47.55	5.08	127	45.60	5.19	131
<b>06DR-820</b>	25	49.95	4.30	107	48.15	4.43	111	46.35	4.54	116	44.56	4.66	120	42.77	4.76	125	40.99	4.86	129
	20	44.81	4.05	104	43.16	4.16	109	41.53	4.26	113	39.90	4.36	118	38.27	4.45	122	36.65	4.54	127
	15	39.98	3.80	102	38.49	3.90	107	37.00	3.99	111	35.52	4.07	116	34.05	4.15	120	32.58	4.22	125
	10	35.49	3.57	100	34.13	3.65	104	32.78	3.73	109	31.44	3.80	113	30.10	3.86	118	28.77	3.92	123
<b>H0687</b>	45	88.15	6.59	118	84.75	6.77	122	81.37	6.94	126	78.02	7.10	130	74.68	7.26	134	71.37	7.41	138
	40	80.26	6.15	115	77.11	6.31	119	73.98	6.47	123	70.87	6.62	127	67.78	6.77	131	64.71	6.90	136
	35	72.72	5.74	112	69.80	5.89	116	66.91	6.03	120	64.04	6.17	124	61.19	6.29	129	58.36	6.42	133
	30	65.53	5.35	109	62.85	5.48	113	60.18	5.61	117	57.54	5.73	122	54.92	5.84	126	52.32	5.95	130
<b>06DR-724</b>	25	58.72	4.97	106	56.26	5.09	110	53.82	5.21	115	51.39	5.31	119	48.99	5.41	123	46.61	5.50	128
	20	52.31	4.62	104	50.06	4.72	108	47.82	4.82	112	45.61	4.91	117	43.41	5.00	121	41.24	5.07	125
	15	46.31	4.28	101	44.25	4.37	105	42.21	4.45	110	40.19	4.53	114	38.18	4.60	119	36.20	4.66	123
	10	40.73	3.95	99	38.85	4.03	103	36.98	4.10	108	35.14	4.16	112	33.32	4.22	117	31.51	4.26	121

(Continued)

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



**HOCA AIR-COOLED CONDENSING UNITS – OUTDOOR  
CARLYLE COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE (Continued)**

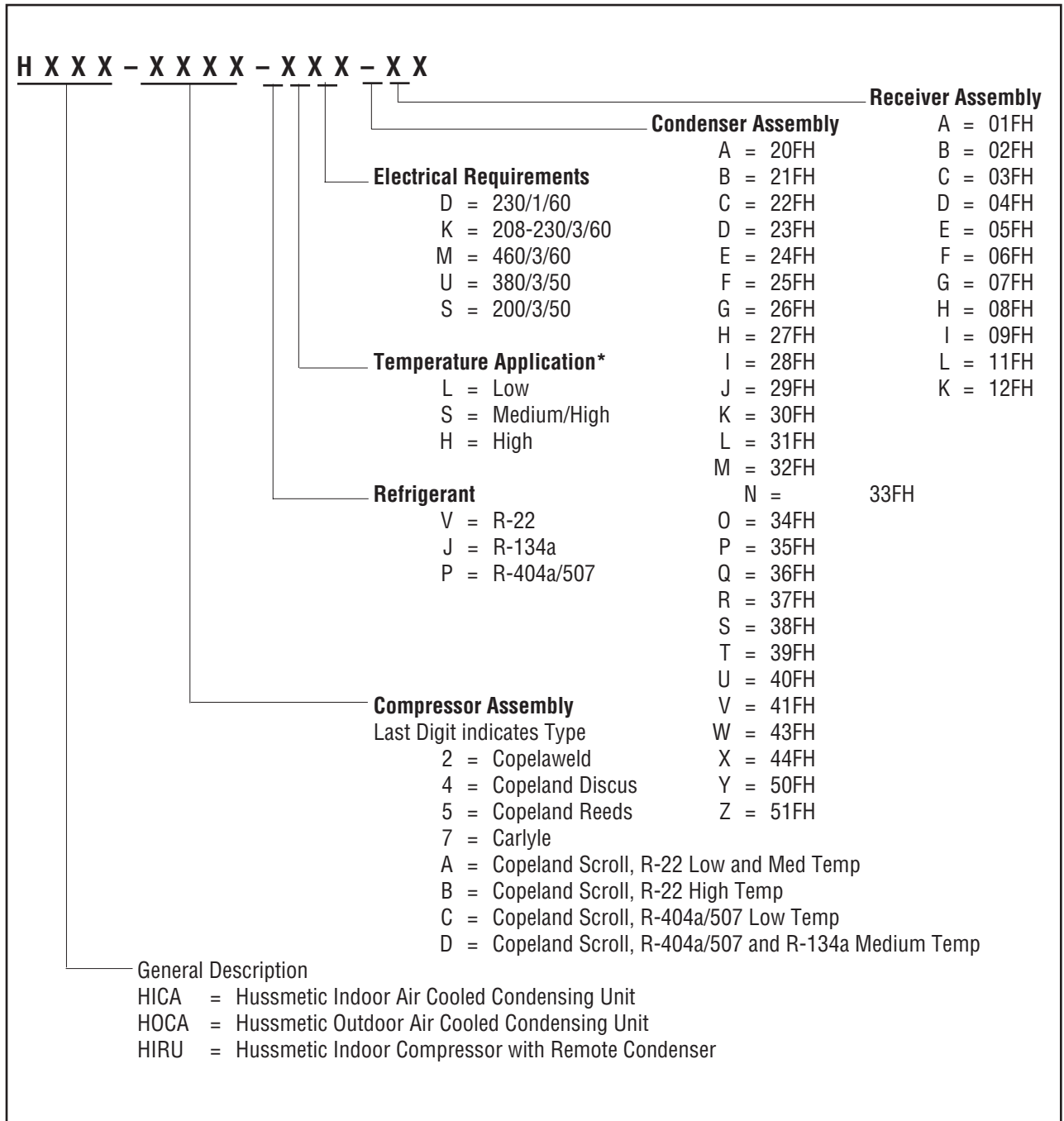
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HOCA Model	Sat. Suct. Temp. (°F)	80° Ambient			85° Ambient			90° Ambient			95° Ambient			100° Ambient			105° Ambient		
		Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)	Capacity (MBtu/Hr)	Comp. Power (kW)	Sat. Cond. Temp. (°F)
<b>H0767</b>	45	98.95	7.73	120	95.61	8.00	124	92.27	8.26	129	88.93	8.51	133	85.58	8.75	137	82.23	8.98	141
	40	90.60	7.30	117	87.52	7.54	121	84.44	7.78	126	81.36	8.01	130	78.27	8.23	134	75.18	8.44	138
	35	82.60	6.88	114	79.78	7.11	118	76.94	7.32	123	74.11	7.53	127	71.27	7.73	131	68.43	7.92	136
	30	74.99	6.48	111	72.39	6.69	115	69.80	6.88	120	67.19	7.07	124	64.59	7.24	129	61.99	7.41	133
<b>06DR-228</b>	25	67.76	6.10	108	65.39	6.28	113	63.01	6.45	117	60.63	6.62	122	58.25	6.78	126	55.87	6.92	131
	20	60.94	5.73	106	58.77	5.89	110	56.59	6.04	115	54.42	6.19	119	52.24	6.32	124	50.07	6.45	128
	15	54.53	5.37	103	52.54	5.51	108	50.56	5.64	112	48.57	5.77	117	46.59	5.88	121	44.60	5.99	126
	10	48.53	5.02	101	46.72	5.14	106	44.91	5.26	110	43.09	5.36	115	41.28	5.45	119	39.47	5.54	124
<b>H1107</b>	45	129.88	10.57	123	125.75	10.92	127	121.60	11.25	132	117.42	11.59	136	113.21	11.91	140	108.98	12.23	144
	40	119.38	9.97	120	115.58	10.29	124	111.75	10.60	128	107.89	10.91	133	104.01	11.21	137	100.10	11.51	141
	35	109.28	9.40	117	105.79	9.69	121	102.27	9.99	125	98.72	10.27	130	95.15	10.55	134	91.54	10.81	138
	30	99.62	8.85	114	96.41	9.13	118	93.18	9.39	123	89.93	9.66	127	86.64	9.91	131	83.33	10.15	136
<b>06DR-337</b>	25	90.40	8.33	111	87.47	8.59	115	84.51	8.83	120	81.52	9.07	124	78.51	9.29	129	75.47	9.51	133
	20	81.66	7.84	108	78.97	8.07	113	76.26	8.29	117	73.53	8.50	122	70.77	8.70	126	67.98	8.89	131
	15	73.40	7.37	106	70.94	7.57	110	68.46	7.77	115	65.95	7.95	119	63.42	8.13	124	60.87	8.29	128
	10	65.63	6.91	103	63.38	7.09	108	61.10	7.26	112	58.80	7.43	117	56.48	7.57	121	54.13	7.71	126

Capacity data is based on 65° suction gas temperature and 10°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



## PRODUCT CODE



\*See capacity tables following for actual temperature range.

**HIRU REMOTE CONDENSING UNITS  
COPELAND SCROLL COMPRESSORS  
R22 LOW TEMPERATURE**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H030A</b>	-15	11.44	2.05	11.17	2.15	10.90	2.25	10.63	2.35	10.35	2.46		
	-20	10.19	2.01	9.95	2.11	9.71	2.21	9.47	2.31	9.23	2.42		
	-25	9.04	1.98	8.83	2.07	8.62	2.17	8.41	2.27	8.20	2.38		
	-30	7.98	1.94	7.80	2.03	7.61	2.13	7.43	2.23	7.26	2.34		
	-35	7.01	1.91	6.85	2.00	6.69	2.09	6.53	2.19	6.38	2.30		
<b>ZF09K4</b>	-15	14.15	2.33	13.79	2.44	13.42	2.55	13.04	2.68	12.66	2.80		
	-20	12.60	2.27	12.27	2.38	11.95	2.49	11.61	2.61	11.28	2.74		
	-25	11.17	2.21	10.89	2.32	10.60	2.43	10.30	2.55	10.01	2.68		
	-30	9.87	2.16	9.62	2.27	9.36	2.38	9.11	2.50	8.85	2.62		
	-35	8.68	2.12	8.45	2.22	8.23	2.33	8.01	2.45	7.80	2.57		
<b>H040A</b>	-15	16.39	2.81	16.00	2.93	15.59	3.04	15.18	3.16	14.75	3.28		
	-20	14.57	2.74	14.22	2.85	13.86	2.97	13.49	3.08	13.11	3.20		
	-25	12.91	2.67	12.60	2.78	12.29	2.89	11.96	3.00	11.62	3.12		
	-30	11.40	2.60	11.13	2.71	10.86	2.82	10.57	2.93	10.27	3.05		
	-35	10.04	2.53	9.80	2.64	9.56	2.75	9.31	2.87	9.04	2.98		
<b>ZF13K4</b>	-15	20.14	3.43	19.67	3.57	19.17	3.73	18.66	3.89	18.13	4.06		
	-20	17.92	3.35	17.49	3.49	17.06	3.65	16.60	3.81	16.13	3.97		
	-25	15.89	3.28	15.51	3.42	15.12	3.57	14.72	3.73	14.30	3.89		
	-30	14.04	3.22	13.71	3.36	13.36	3.51	13.01	3.66	12.63	3.82		
	-35	12.36	3.16	12.07	3.30	11.76	3.44	11.45	3.59	11.13	3.75		
<b>H050A</b>	-15	23.79	4.10	23.21	4.28	22.63	4.47	22.03	4.66	21.42	4.86		
	-20	21.12	4.02	20.61	4.19	20.10	4.37	19.57	4.56	19.03	4.76		
	-25	18.69	3.94	18.24	4.11	17.79	4.29	17.33	4.48	16.85	4.67		
	-30	16.48	3.88	16.09	4.05	15.69	4.23	15.28	4.41	14.86	4.59		
	-35	14.48	3.84	14.14	4.01	13.79	4.18	13.43	4.35	13.05	4.54		
<b>ZF18K4</b>	-15	28.36	5.56	27.67	5.78	26.98	6.00	26.28	6.23	25.58	6.45		
	-20	25.20	5.43	24.59	5.64	23.98	5.85	23.37	6.06	22.77	6.27		
	-25	22.33	5.31	21.79	5.51	21.26	5.70	20.73	5.89	20.21	6.08		
	-30	19.73	5.18	19.26	5.37	18.79	5.54	18.34	5.72	17.89	5.88		
	-35	17.38	5.05	16.96	5.22	16.55	5.38	16.16	5.53	15.77	5.67		
<b>H075A</b>	-15	40.24	7.14	39.36	7.42	38.42	7.71	37.43	8.01	36.34	8.33		
	-20	35.77	6.91	35.00	7.18	34.19	7.46	33.34	7.76	32.41	8.07		
	-25	31.70	6.69	31.06	6.95	30.40	7.22	29.70	7.50	28.94	7.80		
	-30	28.03	6.47	27.53	6.72	27.03	6.98	26.51	7.25	25.94	7.53		
	-35	24.77	6.25	24.43	6.48	24.11	6.73	23.77	6.98	23.40	7.25		
<b>ZF33K4</b>	-15	40.24	7.14	39.36	7.42	38.42	7.71	37.43	8.01	36.34	8.33		
	-20	35.77	6.91	35.00	7.18	34.19	7.46	33.34	7.76	32.41	8.07		
	-25	31.70	6.69	31.06	6.95	30.40	7.22	29.70	7.50	28.94	7.80		
	-30	28.03	6.47	27.53	6.72	27.03	6.98	26.51	7.25	25.94	7.53		
	-35	24.77	6.25	24.43	6.48	24.11	6.73	23.77	6.98	23.40	7.25		

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (Btu/hr)	Power (kW)	Capacity (Btu/hr)	Power (kW)	Capacity (Btu/hr)	Power (kW)	Capacity (Btu/hr)	Power (kW)	Capacity (Btu/hr)	Power (kW)	Capacity (Btu/hr)	Power (kW)
<b>H030A</b>	25	26.37	2.51	25.73	2.60	25.08	2.70	24.41	2.80	23.73	2.91	23.04	3.03
	20	23.95	2.43	23.36	2.53	22.77	2.63	22.16	2.73	21.54	2.84	20.92	2.96
	15	21.70	2.37	21.17	2.46	20.63	2.56	20.08	2.67	19.52	2.78	18.96	2.89
	10	19.62	2.30	19.14	2.40	18.65	2.50	18.16	2.60	17.66	2.72	17.15	2.83
<b>ZF09K4</b>	25	32.46	3.04	31.70	3.14	30.91	3.25	30.09	3.37	29.25	3.50	28.39	3.63
	20	29.51	2.93	28.81	3.03	28.08	3.14	27.33	3.26	26.55	3.39	25.76	3.53
	15	26.76	2.82	26.12	2.93	25.45	3.04	24.76	3.16	24.05	3.29	23.32	3.43
	10	24.22	2.72	23.63	2.83	23.02	2.94	22.39	3.07	21.74	3.20	21.07	3.33
<b>H040A</b>	25	37.97	3.43	37.06	3.59	36.13	3.75	35.19	3.91	34.23	4.07	33.24	4.22
	20	34.50	3.35	33.67	3.51	32.82	3.66	31.96	3.81	31.08	3.96	30.18	4.10
	15	31.27	3.27	30.52	3.42	29.75	3.56	28.96	3.71	28.16	3.85	27.33	3.99
	10	28.27	3.20	27.59	3.34	26.89	3.47	26.18	3.61	25.44	3.74	24.69	3.88
<b>ZF13K4</b>	25	46.17	4.38	45.13	4.52	44.05	4.67	42.93	4.83	41.79	5.00	40.60	5.18
	20	42.02	4.22	41.06	4.36	40.07	4.52	39.04	4.68	37.99	4.85	36.89	5.03
	15	38.14	4.07	37.26	4.22	36.35	4.37	35.42	4.54	34.45	4.71	33.45	4.89
	10	34.53	3.94	33.73	4.09	32.90	4.24	32.05	4.41	31.16	4.58	30.25	4.76
<b>H050A</b>	25	55.67	5.06	54.31	5.27	52.93	5.50	51.53	5.73	50.11	5.96	48.66	6.21
	20	50.51	4.93	49.27	5.14	48.02	5.36	46.74	5.58	45.44	5.81	44.12	6.05
	15	45.72	4.80	44.60	5.01	43.46	5.22	42.30	5.44	41.12	5.66	39.92	5.90
	10	41.28	4.67	40.26	4.87	39.24	5.08	38.19	5.30	37.12	5.52	36.03	5.74
<b>ZF18K4</b>	25	66.98	6.77	65.30	7.00	63.58	7.26	61.82	7.53	60.04	7.81	58.23	8.11
	20	60.64	6.57	59.11	6.82	57.56	7.07	55.97	7.34	54.35	7.63	52.72	7.93
	15	54.78	6.40	53.40	6.65	51.99	6.09	50.56	7.17	49.11	7.45	47.64	7.75
	10	49.37	6.24	48.13	6.48	46.87	6.74	45.58	7.01	44.28	7.28	42.96	7.57
<b>H075A</b>	25	90.42	9.45	89.14	9.74	87.70	10.10	86.09	10.38	84.28	10.70	82.26	11.10
	20	82.76	9.08	81.48	9.37	80.05	9.68	78.46	10.02	76.70	10.40	74.73	10.80
	15	75.50	8.74	74.23	9.04	72.83	9.35	71.28	9.68	69.57	10.00	67.67	10.40
	10	68.63	8.42	67.38	8.72	66.03	9.04	64.53	9.37	62.89	9.72	61.07	10.10
<b>ZF33K4</b>	25	90.42	9.45	89.14	9.74	87.70	10.10	86.09	10.38	84.28	10.70	82.26	11.10
	20	82.76	9.08	81.48	9.37	80.05	9.68	78.46	10.02	76.70	10.40	74.73	10.80
	15	75.50	8.74	74.23	9.04	72.83	9.35	71.28	9.68	69.57	10.00	67.67	10.40
	10	68.63	8.42	67.38	8.72	66.03	9.04	64.53	9.37	62.89	9.72	61.07	10.10

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HIRU REMOTE CONDENSING UNITS COPELAND SCROLL COMPRESSORS R22 HIGH TEMPERATURE

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H030B</b>	45	37.69	2.05	36.69	2.20	35.67	2.32	34.63	2.47	33.60	2.63	32.53	2.79
	40	34.20	2.07	33.29	2.20	32.36	2.34	31.42	2.49	30.50	2.64	29.51	2.81
	35	30.96	2.08	30.13	2.20	29.29	2.35	28.44	2.50	27.60	2.65	26.71	2.82
	30	27.95	2.09	27.19	2.20	26.43	2.36	25.66	2.51	24.90	2.66	24.10	2.83
<b>ZB21KA</b>	45	46.54	2.53	45.32	2.70	44.10	2.86	42.84	3.05	41.60	3.25	40.25	3.46
	40	42.29	2.54	41.17	2.70	40.04	2.88	38.88	3.07	37.70	3.27	36.46	3.48
	35	38.26	2.55	37.24	2.70	36.20	2.90	35.13	3.08	34.00	3.28	32.87	3.50
	30	34.48	2.56	33.54	2.70	32.58	2.91	31.58	3.10	30.50	3.30	29.46	3.51
<b>H040B</b>	45	54.96	2.95	53.48	3.10	51.97	3.35	50.43	3.57	48.90	3.81	47.24	4.07
	40	49.88	2.97	48.53	3.20	47.15	3.38	45.74	3.60	44.30	3.85	42.76	4.11
	35	45.14	3.00	43.91	3.20	42.64	3.41	41.32	3.64	40.00	3.89	38.52	4.16
	30	40.72	3.03	39.60	3.20	38.41	3.45	37.17	3.68	35.90	3.94	34.50	4.22
<b>ZB30KA</b>	45	67.63	3.64	65.92	3.90	64.19	4.10	62.43	4.37	60.60	4.65	58.66	4.95
	40	61.49	3.65	59.94	3.90	58.37	4.11	56.75	4.38	55.10	4.66	53.24	4.97
	35	55.72	3.65	54.31	3.90	52.88	4.13	51.38	4.39	49.80	4.68	48.08	5.00
	30	50.30	3.66	49.02	3.90	47.70	4.14	46.31	4.41	44.80	4.71	43.19	5.02
<b>H060B</b>	45	79.42	4.49	77.43	4.70	75.41	5.01	73.37	5.29	71.30	5.60	69.13	5.93
	40	72.33	4.44	70.52	4.70	68.68	4.97	66.80	5.26	64.90	5.57	62.87	5.90
	35	65.68	4.40	64.03	4.70	62.35	4.94	60.62	5.23	58.80	5.55	56.98	5.89
	30	59.46	4.37	57.95	4.60	56.41	4.92	54.81	5.22	53.20	5.54	51.42	5.87
<b>ZB45KA</b>	45	98.14	5.68	95.57	6.00	93.03	6.35	90.48	6.72	87.90	7.12	85.09	7.54
	40	88.90	5.67	86.61	6.00	84.36	6.34	82.10	6.72	79.80	7.12	77.27	7.54
	35	80.44	5.66	78.42	6.00	76.43	6.34	74.43	6.71	72.40	7.11	70.13	7.53
	30	72.70	5.64	70.92	6.00	69.17	6.33	67.40	6.71	65.60	7.11	63.58	7.53
<b>H075B</b>	45	118.74	6.79	115.73	7.20	112.68	7.61	109.57	8.06	106.00	8.53	103.01	9.03
	40	107.98	6.80	105.26	7.20	102.50	7.62	99.67	8.07	96.70	8.54	93.67	9.04
	35	97.86	6.81	95.41	7.20	92.92	7.64	90.35	8.08	87.70	8.55	84.87	9.04
	30	88.37	6.82	86.17	7.20	83.93	7.64	81.60	8.08	79.20	8.55	76.60	9.04
<b>ZB68KA</b>	45	137.76	7.76	134.22	8.20	130.65	8.72	127.01	9.24	123.00	9.79	119.50	10.40
	40	125.16	7.74	121.97	8.20	118.73	8.70	115.44	9.23	112.00	9.78	108.60	10.40
	35	113.38	7.74	110.51	8.20	107.59	8.70	104.61	9.23	102.00	9.78	98.40	10.40
	30	102.39	7.74	99.81	8.20	97.19	8.71	94.50	9.23	91.70	9.78	88.86	10.40
<b>H100B</b>	45	170.48	9.97	166.14	10.00	161.78	11.02	157.35	11.60	153.00	12.21	147.95	12.90
	40	154.66	9.88	150.85	10.00	146.99	10.94	143.02	11.53	139.00	12.15	134.42	12.80
	35	140.03	9.81	136.68	10.00	133.25	10.89	129.66	11.48	126.00	12.10	121.74	12.80
	30	126.49	9.77	123.53	10.00	120.46	10.85	117.20	11.44	114.00	12.05	109.81	12.70
<b>ZB92KA</b>	45	170.48	9.97	166.14	10.00	161.78	11.02	157.35	11.60	153.00	12.21	147.95	12.90
	40	154.66	9.88	150.85	10.00	146.99	10.94	143.02	11.53	139.00	12.15	134.42	12.80
	35	140.03	9.81	136.68	10.00	133.25	10.89	129.66	11.48	126.00	12.10	121.74	12.80
	30	126.49	9.77	123.53	10.00	120.46	10.85	117.20	11.44	114.00	12.05	109.81	12.70

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H030C</b>	-10	13.67	2.14	13.15	2.23	12.61	2.33	12.05	2.44	11.47	2.56	10.86	2.69
	-15	12.23	2.08	11.77	2.17	11.29	2.28	10.79	2.39	10.27	2.51	9.74	2.64
	-20	10.91	2.03	10.50	2.12	10.07	2.23	9.63	2.34	9.17	2.46	8.70	2.59
	-25	9.70	1.97	9.33	2.07	8.96	2.18	8.57	2.29	8.16	2.41	7.74	2.55
<b>ZF09K4E</b>	-30	8.59	1.93	8.27	2.03	7.93	2.13	7.59	2.25	7.23	2.37	6.85	2.50
	-35	7.57	1.88	7.28	1.98	6.99	2.09	6.68	2.21	6.36	2.33	6.03	2.47
	-40	6.64	1.84	6.38	1.94	6.11	2.05	5.83	2.17	5.55	2.30	5.25	2.43
<b>H035C</b>	-10	16.88	2.66	16.22	2.78	15.54	2.91	14.84	3.05	14.00	3.20	13.36	3.35
	-15	15.08	2.59	14.50	2.72	13.89	2.84	13.27	2.98	12.63	3.12	11.96	3.27
	-20	13.44	2.53	12.92	2.65	12.38	2.78	11.83	2.91	11.26	3.05	10.67	3.20
	-25	11.94	2.46	11.48	2.58	11.01	2.71	10.52	2.84	10.02	2.98	9.50	3.12
<b>ZF11K4E</b>	-30	10.58	2.40	10.17	2.52	9.75	2.64	9.32	2.77	8.88	2.90	8.42	3.04
	-35	9.35	2.33	8.98	2.45	8.61	2.57	8.23	2.69	7.84	2.83	7.44	2.96
	-40	8.23	2.27	7.90	2.38	7.57	2.50	7.24	2.62	6.89	2.75	6.53	2.88
<b>H040C</b>	-10	20.01	3.09	19.06	3.23	18.07	3.39	17.07	3.55	16.08	3.72	15.10	3.91
	-15	17.80	3.02	16.93	3.16	16.05	3.31	15.16	3.47	14.29	3.65	13.46	3.83
	-20	15.75	2.95	14.97	3.09	14.18	3.24	13.41	3.40	12.67	3.57	11.98	3.75
	-25	13.84	2.88	13.15	3.02	12.47	3.16	11.81	3.32	11.21	3.49	10.67	3.67
<b>ZF13K4E</b>	-30	12.09	2.81	11.48	2.95	10.90	3.09	10.37	3.25	9.90	3.41	9.50	3.58
	-35	10.48	2.74	9.96	2.87	9.48	3.02	9.07	3.17	8.73	3.33	8.49	3.50
	-40	9.00	2.67	8.57	2.80	8.20	2.94	7.91	3.09	7.71	3.24	7.61	3.40
<b>H050C</b>	-10	24.25	3.68	23.27	3.84	22.26	4.02	21.21	4.20	20.13	4.39	19.02	4.60
	-15	21.66	3.58	20.79	3.74	19.88	3.91	18.95	4.09	18.00	4.28	17.02	4.48
	-20	19.28	3.49	18.50	3.65	17.70	3.82	16.88	3.99	16.04	4.17	15.19	4.37
	-25	17.10	3.40	16.41	3.56	15.70	3.72	14.97	3.89	14.24	4.06	13.50	4.25
<b>ZF15K4E</b>	-30	15.10	3.31	14.48	3.46	13.85	3.62	13.22	3.78	12.58	3.95	11.95	4.12
	-35	13.26	3.22	12.71	3.37	12.15	3.52	11.60	3.67	11.05	3.83	10.51	3.99
	-40	11.57	3.14	11.08	3.27	10.59	3.41	10.11	3.56	9.64	3.70	9.18	3.86
<b>H060C</b>	-10	28.82	4.52	27.74	4.71	26.62	4.91	25.47	5.12	24.28	5.33	23.04	5.56
	-15	25.72	4.39	24.76	4.58	23.79	4.77	22.78	4.98	21.74	5.19	20.66	5.41
	-20	22.87	4.27	22.04	4.45	21.19	4.64	20.32	4.84	19.42	5.05	18.48	5.26
	-25	20.27	4.15	19.54	4.32	18.81	4.51	18.06	4.70	17.29	4.90	16.48	5.12
<b>ZF18K4E</b>	-30	17.89	4.03	17.26	4.20	16.63	4.38	15.99	4.57	15.33	4.76	14.65	4.97
	-35	15.71	3.91	15.17	4.08	14.64	4.26	14.09	4.44	13.53	4.63	12.95	4.82
	-40	13.73	3.80	13.26	3.96	12.80	4.13	12.34	4.30	11.87	4.49	11.38	4.68

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND SCROLL COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H075C</b>	-10	34.40	5.87	33.11	6.08	31.80	6.30	30.44	6.53	29.04	6.77	27.60	7.02
	-15	30.72	5.69	29.59	5.89	28.43	6.10	27.24	6.32	26.02	6.55	24.75	6.78
	-20	27.35	5.51	26.35	5.70	25.34	5.90	24.30	6.11	23.23	6.33	22.12	6.55
	-25	24.26	5.34	23.39	5.52	22.50	5.71	21.58	5.90	20.65	6.10	19.68	6.31
<b>ZF24K4E</b>	-30	21.43	5.17	20.65	5.34	19.87	5.52	19.07	5.69	18.24	5.88	17.39	6.07
	-35	18.83	5.00	18.13	5.16	17.43	5.32	16.72	5.49	15.99	5.65	15.25	5.83
	-40	16.43	4.84	15.80	4.99	15.17	5.13	14.52	5.28	13.87	5.43	13.21	5.58
<b>H100C</b>	-5	56.14	8.41	53.90	8.73	51.52	9.06	49.02	9.42	46.42	9.80	43.74	10.20
	-10	50.25	8.13	48.17	8.44	45.99	8.77	43.72	9.12	41.39	9.49	39.00	9.88
	-15	44.70	7.86	42.79	8.17	40.82	8.49	38.78	8.83	36.71	9.19	34.62	9.57
	-20	39.49	7.60	37.76	7.90	36.00	8.21	34.20	8.54	32.40	8.89	30.61	9.26
<b>ZF33K4</b>	-25	34.63	7.34	33.08	7.63	31.52	7.94	29.97	8.25	28.44	8.59	26.96	8.94
	-30	30.11	7.09	28.75	7.37	27.41	7.66	26.10	7.97	24.85	8.29	23.67	8.62
	-35	25.94	6.85	24.77	7.11	23.64	7.39	22.58	7.68	21.61	7.98	20.75	8.30
	-40	22.12	6.60	21.13	6.85	20.23	7.12	19.43	7.39	18.74	7.68	18.19	7.98

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H030D</b>	35	33.43	2.74	32.06	2.83	30.67	2.92	29.24	3.03	27.79	3.14	26.31	3.26
	30	30.46	2.65	29.22	2.74	27.95	2.83	26.65	2.94	25.33	3.05	23.98	3.17
	25	27.71	2.56	26.58	2.65	25.43	2.75	24.25	2.86	23.05	2.97	21.82	3.09
<b>ZS21K4</b>	20	25.14	2.47	24.12	2.57	23.08	2.67	22.02	2.78	20.93	2.89	19.82	3.01
	15	22.77	2.40	21.85	2.49	20.91	2.59	19.95	2.70	18.97	2.81	17.97	2.93
	10	20.57	2.32	19.74	2.42	18.90	2.52	18.03	2.63	17.15	2.74	16.25	2.86
<b>H035D</b>	35	41.43	3.44	39.80	3.53	38.12	3.63	36.40	3.75	34.61	3.88	32.78	4.02
	30	37.79	3.30	36.29	3.40	34.75	3.51	33.17	3.63	31.53	3.76	29.85	3.90
	25	34.39	3.17	33.02	3.27	31.61	3.39	30.16	3.51	28.66	3.65	27.13	3.79
<b>ZS26K4</b>	20	31.21	3.05	29.97	3.16	28.68	3.28	27.36	3.41	26.00	3.55	24.61	3.69
	15	28.26	2.95	27.13	3.06	25.97	3.18	24.77	3.31	23.54	3.45	22.28	3.59
	10	25.53	2.85	24.50	2.96	23.46	3.09	22.38	3.22	21.27	3.35	20.14	3.50
<b>H040D</b>	35	47.68	3.93	46.16	4.03	44.44	4.15	42.53	4.29	40.42	4.44	38.14	4.61
	30	43.84	3.76	42.32	3.88	40.62	4.01	38.75	4.15	36.73	4.31	34.56	4.48
	25	40.13	3.62	38.61	3.74	36.95	3.87	35.16	4.02	33.24	4.18	31.21	4.36
<b>ZS30K4</b>	20	36.55	3.49	35.07	3.61	33.47	3.75	31.77	3.90	29.98	4.07	28.11	4.25
	15	33.11	3.36	31.69	3.49	30.18	3.64	28.61	3.79	26.97	3.96	25.28	4.15
	10	29.85	3.25	28.50	3.39	27.11	3.53	25.67	3.69	24.21	3.86	22.73	4.05
<b>H050D</b>	35	59.26	4.95	56.86	5.09	54.38	5.24	51.82	5.43	49.19	5.65	46.50	5.89
	30	54.05	4.73	51.85	4.88	49.57	5.05	47.22	5.25	44.81	5.47	42.34	5.72
	25	49.18	4.53	47.17	4.69	45.08	4.88	42.94	5.08	40.73	5.31	38.48	5.57
<b>ZS38K4</b>	20	44.64	4.36	42.80	4.53	40.91	4.72	38.95	4.93	36.95	5.17	34.89	5.42
	15	40.42	4.20	38.75	4.38	37.02	4.58	35.25	4.80	33.43	5.03	31.58	5.29
	10	36.50	4.06	34.99	4.25	33.43	4.45	31.82	4.67	30.19	4.90	28.51	5.15
<b>H060D</b>	35	70.90	5.83	67.99	6.01	65.03	6.21	62.04	6.43	58.99	6.66	55.88	6.92
	30	64.55	5.62	61.92	5.81	59.27	6.01	56.56	6.24	53.81	6.47	50.99	6.73
	25	58.66	5.42	56.31	5.62	53.92	5.83	51.49	6.05	49.00	6.29	46.46	6.55
<b>ZS45K4</b>	20	53.21	5.24	51.11	5.44	48.97	5.65	46.79	5.88	44.55	6.11	42.25	6.37
	15	48.17	5.07	46.30	5.27	44.40	5.48	42.44	5.70	40.43	5.94	38.36	6.18
	10	43.53	4.91	41.87	5.10	40.17	5.31	38.43	5.53	36.62	5.76	34.75	6.00
<b>H075D</b>	35	85.30	7.53	81.79	7.75	78.20	7.98	74.54	8.22	70.80	8.49	66.96	8.77
	30	77.61	7.28	74.44	7.50	71.20	7.73	67.88	7.99	64.49	8.25	61.01	8.53
	25	70.49	7.04	67.63	7.27	64.70	7.51	61.71	7.76	58.65	8.02	55.50	8.30
<b>ZS56K4</b>	20	63.89	6.82	61.32	7.05	58.70	7.29	56.01	7.54	53.26	7.80	50.42	8.06
	15	57.80	6.62	55.50	6.84	53.15	7.08	50.75	7.32	48.28	7.57	45.73	7.83
	10	52.18	6.42	50.13	6.64	48.03	6.87	45.89	7.11	43.68	7.35	41.41	7.59

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND SCROLL COMPRESSORS  
R404a MEDIUM/HIGH TEMPERATURE  
(Continued)**

HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H100D</b>	35	116.37	11.06	113.18	11.39	109.42	11.74	105.18	12.10	100.52	12.49	95.52	12.89
	30	108.50	10.66	105.15	10.99	101.31	11.33	97.07	11.70	92.48	12.08	87.63	12.48
	25	100.40	10.27	96.96	10.59	93.11	10.94	88.93	11.30	84.49	11.68	79.85	12.07
<b>ZS75K4</b>	20	92.20	9.88	88.73	10.21	84.94	10.55	80.89	10.91	76.65	11.28	72.31	11.67
	15	84.01	9.51	80.59	9.83	76.91	10.17	73.06	10.52	69.11	10.89	65.11	11.28
	10	75.96	9.15	72.64	9.47	69.16	9.80	65.57	10.15	61.96	10.51	58.39	10.89

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H040D</b>	45	36.49	2.41	35.52	2.47	34.52	2.54	33.51	2.62	32.48	2.71	31.40	2.80
	40	33.02	2.30	32.13	2.36	31.22	2.44	30.29	2.52	29.35	2.61	28.40	2.71
	35	29.80	2.20	28.99	2.27	28.15	2.34	27.31	2.42	26.45	2.51	25.60	2.61
	30	26.82	2.11	26.08	2.18	25.32	2.25	24.55	2.34	23.77	2.43	23.00	2.52
	25	24.07	2.02	23.40	2.09	22.71	2.17	22.01	2.25	21.31	2.34	20.60	2.44
<b>ZS30K4</b>	20	21.53	1.94	20.93	2.01	20.31	2.09	19.68	2.17	19.05	2.26	18.40	2.36
	15	19.21	1.87	18.66	1.94	18.11	2.02	17.55	2.10	16.98	2.19	16.40	2.28
	10	17.08	1.80	16.59	1.87	16.10	1.95	15.60	2.03	15.10	2.12	14.60	2.21
<b>H050D</b>	45	45.23	3.03	43.98	3.10	42.71	3.17	41.43	3.26	40.14	3.36	38.80	3.46
	40	40.92	2.88	39.78	2.96	38.63	3.04	37.47	3.13	36.29	3.23	35.10	3.34
	35	36.93	2.75	35.90	2.82	34.85	2.91	33.80	3.01	32.73	3.11	31.70	3.22
	30	33.23	2.62	32.30	2.70	31.36	2.79	30.41	2.89	29.45	3.00	28.50	3.11
	25	29.82	2.51	28.99	2.59	28.14	2.68	27.29	2.78	26.42	2.89	25.60	3.00
<b>ZS38K4</b>	20	26.68	2.40	25.94	2.48	25.18	2.58	24.42	2.68	23.64	2.78	22.90	2.89
	15	23.81	2.30	23.14	2.39	22.47	2.48	21.79	2.58	21.10	2.68	20.40	2.79
	10	21.17	2.21	20.58	2.29	19.99	2.39	19.38	2.48	18.77	2.58	18.20	2.69
<b>H060D</b>	45	54.42	3.51	52.93	3.62	51.43	3.74	49.91	3.88	48.38	4.02	46.80	4.17
	40	49.13	3.37	47.79	3.48	46.43	3.60	45.05	3.74	43.66	3.88	42.30	4.04
	35	44.27	3.23	43.05	3.35	41.83	3.47	40.58	3.61	39.33	3.75	38.10	3.91
	30	39.79	3.11	38.70	3.23	37.60	3.35	36.48	3.49	35.35	3.63	34.20	3.78
	25	35.69	2.99	34.71	3.11	33.72	3.24	32.72	3.37	31.71	3.51	30.70	3.66
<b>ZS45K4</b>	20	31.93	2.88	31.05	3.00	30.17	3.13	29.28	3.26	28.37	3.40	27.50	3.54
	15	28.48	2.79	27.71	2.90	26.92	3.03	26.13	3.15	25.32	3.28	24.50	3.42
	10	25.34	2.69	24.65	2.81	23.95	2.93	23.25	3.05	22.53	3.17	21.80	3.30
<b>H100D</b>	45	89.17	6.92	87.17	7.09	85.07	7.28	82.86	7.50	80.58	7.73	78.20	7.98
	40	81.49	6.56	79.56	6.74	77.54	6.95	75.44	7.17	73.26	7.41	71.00	7.67
	35	74.15	6.24	72.30	6.44	70.38	6.65	68.38	6.89	66.32	7.13	64.20	7.39
	30	67.16	5.96	65.41	6.17	63.58	6.39	61.70	6.63	59.78	6.87	57.80	7.13
	25	60.54	5.72	58.89	5.93	57.17	6.16	55.42	6.39	53.64	6.63	51.80	6.88
<b>ZS75K4</b>	20	54.31	5.50	52.76	5.72	51.17	5.94	49.56	6.17	47.92	6.40	46.30	6.64
	15	48.48	5.30	47.05	5.51	45.59	5.73	44.12	5.95	42.65	6.18	41.20	6.41
	10	43.06	5.12	41.76	5.32	40.45	5.53	39.13	5.74	37.83	5.95	36.60	6.16

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 5% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND REED COMPRESSORS  
R22 LOW TEMPERATURE**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp		
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	
<b>H0045</b>	-15	2.20	0.51	2.06	0.51	1.93	0.51	1.80	0.51	1.67	0.51	1.55	0.50	
	-20	1.80	0.47	1.68	0.47	1.56	0.47	1.44	0.46	1.33	0.46	1.22	0.45	
	-25	1.45	0.43	1.34	0.43	1.23	0.42	1.12	0.42	1.02	0.41	0.93	0.41	
	<b>KAN-005L</b>	-30	1.14	0.39	1.03	0.39	0.93	0.38	0.83	0.38	0.74	0.37	0.66	0.36
		-35	0.87	0.36	0.77	0.35	0.67	0.35	0.58	0.34	0.49	0.33	0.42	0.32
		-40	0.64	0.33	0.53	0.33	0.44	0.32	0.35	0.31	0.27	0.30	0.20	0.29
<b>H0075</b>	-15	3.68	0.69	3.49	0.69	3.30	0.70	3.12	0.70	2.94	0.70	2.76	0.70	
	-20	3.13	0.64	2.96	0.64	2.79	0.64	2.62	0.64	2.46	0.64	2.29	0.64	
	-25	2.63	0.59	2.47	0.59	2.32	0.59	2.16	0.59	2.01	0.58	1.86	0.58	
	<b>KAM-007L</b>	-30	2.18	0.54	2.03	0.54	1.89	0.54	1.75	0.53	1.61	0.52	1.47	0.51
		-35	1.77	0.49	1.64	0.49	1.50	0.48	1.37	0.47	1.24	0.46	1.10	0.45
		-40	1.40	0.44	1.27	0.44	1.14	0.43	1.02	0.42	0.89	0.41	0.77	0.39
<b>H0095</b>	-15	4.93	0.92	4.69	0.93	4.46	0.94	4.22	0.95	3.99	0.95	3.76	0.96	
	-20	4.21	0.85	4.00	0.86	3.79	0.87	3.58	0.87	3.37	0.88	3.17	0.88	
	-25	3.57	0.79	3.38	0.80	3.19	0.80	3.00	0.80	2.81	0.80	2.63	0.80	
	<b>KAJ-010L</b>	-30	2.99	0.73	2.82	0.74	2.65	0.74	2.48	0.73	2.32	0.73	2.16	0.73
		-35	2.49	0.68	2.34	0.67	2.18	0.67	2.04	0.67	1.89	0.66	1.75	0.66
		-40	2.06	0.62	1.92	0.61	1.79	0.61	1.65	0.60	1.53	0.60	1.41	0.59
<b>H0205</b>	-15	5.58	1.03	5.29	1.05	5.00	1.06	4.73	1.07	4.45	1.08	4.19	1.09	
	-20	4.76	0.96	4.50	0.98	4.25	0.98	4.00	0.99	3.76	1.00	3.52	1.00	
	-25	4.04	0.90	3.81	0.91	3.58	0.91	3.36	0.91	3.14	0.92	2.93	0.91	
	<b>KAK-020L</b>	-30	3.40	0.83	3.19	0.84	2.99	0.84	2.79	0.84	2.59	0.83	2.40	0.83
		-35	2.82	0.76	2.64	0.76	2.46	0.76	2.28	0.76	2.10	0.75	1.93	0.75
		-40	2.29	0.70	2.13	0.69	1.97	0.69	1.80	0.68	1.64	0.67	1.49	0.66
<b>H0215</b>	-15	8.45	1.52	8.02	1.53	7.59	1.55	7.16	1.56	6.74	1.57	6.33	1.57	
	-20	7.19	1.40	6.81	1.41	6.42	1.42	6.04	1.43	5.66	1.42	5.29	1.42	
	-25	6.05	1.28	5.71	1.29	5.37	1.29	5.03	1.29	4.70	1.28	4.37	1.27	
	<b>EAD-020L</b>	-30	5.03	1.16	4.72	1.17	4.42	1.16	4.12	1.16	3.83	1.15	3.54	1.13
		-35	4.10	1.05	3.84	1.04	3.57	1.04	3.31	1.03	3.06	1.01	2.81	0.99
		-40	3.27	0.93	3.04	0.92	2.82	0.91	2.59	0.90	2.37	0.88	2.16	0.85
<b>H0225</b>	-15	9.78	1.79	9.36	1.83	8.92	1.86	8.44	1.88	7.93	1.89	7.36	1.89	
	-20	8.19	1.68	7.82	1.72	7.43	1.74	7.00	1.76	6.53	1.77	6.00	1.76	
	-25	6.79	1.58	6.47	1.61	6.12	1.63	5.74	1.65	5.31	1.65	4.81	1.64	
	<b>EAV-021L</b>	-30	5.61	1.49	5.33	1.51	5.02	1.54	4.68	1.55	4.28	1.55	3.82	1.54
		-35	4.68	1.41	4.44	1.44	4.17	1.46	3.85	1.47	3.48	1.47	3.05	1.45
		-40	4.03	1.36	3.82	1.39	3.58	1.41	3.29	1.42	2.95	1.42	2.53	1.40

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0265</b>	-15	12.64	2.39	12.01	2.43	11.39	2.47	10.77	2.50	10.15	2.52	9.52	2.53
	-20	10.69	2.21	10.12	2.23	9.55	2.26	8.97	2.27	8.38	2.28	7.77	2.27
	-25	8.93	2.02	8.41	2.04	7.89	2.05	7.35	2.05	6.79	2.03	6.21	2.01
<b>3AJ-021L</b>	-30	7.34	1.83	6.88	1.84	6.41	1.84	5.92	1.82	5.40	1.80	4.85	1.76
	-35	5.92	1.65	5.53	1.65	5.11	1.63	4.67	1.61	4.19	1.57	3.68	1.51
	-40	4.67	1.47	4.34	1.46	3.99	1.44	3.60	1.41	3.17	1.36	2.69	1.29
<b>H0315</b>	-15	15.10	2.51	14.48	2.56	13.84	2.60	13.15	2.62	12.38	2.61	11.48	2.57
	-20	12.57	2.28	12.03	2.32	11.47	2.34	10.85	2.35	10.14	2.33	9.30	2.27
	-25	10.31	2.05	9.85	2.08	9.35	2.09	8.80	2.09	8.14	2.05	7.35	1.98
<b>LAH-031L</b>	-30	8.37	1.84	7.97	1.86	7.53	1.86	7.02	1.84	6.41	1.80	5.66	1.71
	-35	6.79	1.66	6.43	1.66	6.03	1.65	5.56	1.62	4.98	1.56	4.26	1.47
	-40	5.59	1.50	5.27	1.50	4.91	1.48	4.47	1.44	3.91	1.37	3.20	1.26

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND REED COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0055</b>	45	7.10	0.51	6.78	0.53	6.47	0.56	6.16	0.58	5.85	0.60	5.56	0.62
	40	6.35	0.50	6.06	0.52	5.78	0.54	5.50	0.56	5.23	0.58	4.96	0.60
	35	5.66	0.49	5.40	0.51	5.14	0.53	4.89	0.55	4.65	0.57	4.41	0.58
	30	5.03	0.48	4.79	0.50	4.56	0.52	4.33	0.53	4.11	0.55	3.90	0.56
<b>HAG-005L</b>	25	4.44	0.47	4.23	0.49	4.02	0.50	3.82	0.51	3.62	0.53	3.44	0.54
	20	3.91	0.46	3.72	0.47	3.53	0.48	3.35	0.50	3.18	0.51	3.01	0.52
	15	3.43	0.44	3.25	0.45	3.09	0.47	2.93	0.47	2.77	0.48	2.63	0.49
	10	2.99	0.43	2.84	0.44	2.69	0.45	2.54	0.45	2.41	0.46	2.29	0.47
<b>H0065</b> <b>HAJ-005L</b>	25	5.01	0.53	4.80	0.55	4.60	0.57	4.40	0.58	4.19	0.60	3.98	0.61
	20	4.45	0.51	4.26	0.53	4.08	0.54	3.89	0.56	3.70	0.57	3.52	0.58
	15	3.93	0.49	3.76	0.51	3.60	0.52	3.43	0.53	3.26	0.54	3.09	0.55
	10	3.46	0.47	3.31	0.48	3.16	0.49	3.01	0.50	2.86	0.51	2.70	0.52
<b>H0085</b> <b>KAN-007L</b>	5	3.03	0.45	2.90	0.46	2.76	0.47	2.63	0.47	2.49	0.48	2.35	0.48
	45	11.01	0.69	10.61	0.73	10.21	0.76	9.81	0.80	9.40	0.83	8.98	0.87
	40	9.82	0.70	9.46	0.73	9.10	0.76	8.74	0.79	8.37	0.82	8.00	0.85
	35	8.73	0.69	8.40	0.72	8.07	0.75	7.75	0.78	7.42	0.81	7.09	0.83
<b>H0105</b> <b>KAE-007L</b>	30	7.73	0.68	7.43	0.71	7.13	0.73	6.84	0.75	6.55	0.78	6.25	0.80
	25	6.81	0.66	6.54	0.68	6.27	0.70	6.00	0.72	5.74	0.74	5.47	0.76
	20	5.97	0.64	5.72	0.66	5.47	0.67	5.23	0.69	4.99	0.71	4.74	0.72
	15	5.20	0.61	4.96	0.63	4.73	0.64	4.51	0.66	4.29	0.67	4.07	0.68
<b>H0115</b> <b>KAR-010L</b>	10	4.50	0.59	4.27	0.60	4.06	0.61	3.85	0.62	3.64	0.63	3.44	0.64
	25	8.14	0.88	7.81	0.91	7.48	0.93	7.16	0.95	6.84	0.98	6.52	1.00
	20	7.25	0.85	6.95	0.87	6.66	0.89	6.37	0.91	6.08	0.93	5.80	0.95
	15	6.42	0.81	6.15	0.83	5.89	0.85	5.63	0.86	5.37	0.88	5.12	0.90
<b>H0115</b> <b>KAR-010L</b>	10	5.66	0.77	5.42	0.79	5.18	0.80	4.95	0.82	4.72	0.83	4.49	0.85
	5	4.96	0.73	4.75	0.75	4.53	0.76	4.32	0.77	4.12	0.78	3.91	0.80
	45	15.28	0.84	14.71	0.89	14.14	0.94	13.58	0.98	13.02	1.02	12.46	1.07
	40	13.79	0.82	13.27	0.86	12.76	0.90	12.24	0.94	11.73	0.98	11.22	1.01
<b>H0115</b> <b>KAR-010L</b>	35	12.40	0.78	11.92	0.82	11.45	0.85	10.99	0.89	10.52	0.92	10.06	0.96
	30	11.09	0.74	10.66	0.78	10.24	0.81	9.81	0.84	9.39	0.87	8.97	0.89
	25	9.88	0.70	9.49	0.73	9.10	0.76	8.72	0.78	8.33	0.81	7.95	0.83
	20	8.76	0.65	8.41	0.68	8.05	0.70	7.70	0.72	7.36	0.74	7.01	0.76
<b>H0115</b> <b>KAR-010L</b>	15	7.73	0.61	7.41	0.63	7.09	0.65	6.77	0.66	6.46	0.68	6.14	0.70
	10	6.79	0.56	6.50	0.57	6.21	0.59	5.92	0.61	5.63	0.62	5.35	0.63

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0125</b>	45	17.61	1.14	16.97	1.20	16.33	1.25	15.68	1.31	15.05	1.36	14.43	1.41
	40	15.86	1.13	15.27	1.18	14.67	1.23	14.08	1.28	13.49	1.33	12.91	1.38
	35	14.23	1.12	13.68	1.17	13.13	1.21	12.58	1.25	12.04	1.29	11.52	1.33
	30	12.72	1.10	12.22	1.14	11.71	1.18	11.21	1.22	10.71	1.25	10.23	1.29
<b>KAM-010L</b>	25	11.32	1.08	10.86	1.11	10.39	1.14	9.93	1.17	9.48	1.21	9.04	1.23
	20	10.02	1.04	9.60	1.07	9.18	1.10	8.76	1.13	8.35	1.15	7.95	1.18
	15	8.81	1.00	8.43	1.03	8.05	1.05	7.67	1.07	7.30	1.09	6.94	1.11
	10	7.70	0.96	7.36	0.98	7.02	1.00	6.68	1.01	6.34	1.03	6.03	1.05
<b>H0155</b>	45	19.09	1.23	18.46	1.30	17.84	1.36	17.22	1.42	16.59	1.48	15.96	1.54
	40	17.20	1.22	16.62	1.28	16.05	1.34	15.47	1.39	14.89	1.44	14.31	1.50
	35	15.45	1.21	14.91	1.26	14.38	1.31	13.85	1.36	13.31	1.40	12.78	1.45
	30	13.82	1.19	13.33	1.23	12.83	1.28	12.34	1.32	11.85	1.36	11.36	1.40
<b>KAG-015L</b>	25	12.30	1.16	11.85	1.20	11.40	1.23	10.95	1.27	10.50	1.31	10.06	1.34
	20	10.90	1.12	10.48	1.16	10.07	1.19	9.66	1.22	9.26	1.25	8.86	1.28
	15	9.59	1.08	9.22	1.11	8.84	1.14	8.48	1.16	8.11	1.19	7.75	1.21
	10	8.38	1.03	8.04	1.06	7.71	1.08	7.38	1.10	7.05	1.12	6.73	1.13
<b>H0205</b>	45	25.92	1.70	25.10	1.79	24.29	1.88	23.48	1.97	22.68	2.06	21.87	2.15
	40	23.30	1.69	22.56	1.77	21.83	1.85	21.10	1.93	20.37	2.01	19.64	2.08
	35	20.93	1.66	20.25	1.73	19.59	1.80	18.93	1.87	18.27	1.94	17.61	2.01
	30	18.76	1.63	18.15	1.69	17.54	1.75	16.95	1.81	16.35	1.87	15.75	1.93
<b>KAK-020L</b>	25	16.76	1.58	16.20	1.64	15.66	1.70	15.11	1.75	14.57	1.80	14.02	1.85
	20	14.91	1.54	14.40	1.58	13.90	1.63	13.40	1.68	12.90	1.72	12.40	1.77
	15	13.17	1.48	12.69	1.52	12.23	1.56	11.77	1.60	11.31	1.64	10.85	1.68
	10	11.50	1.42	11.06	1.46	10.63	1.49	10.20	1.53	9.77	1.56	9.34	1.59
<b>H0245</b>	25	19.86	1.88	19.05	1.94	18.24	2.00	17.42	2.06	16.61	2.12	15.80	2.18
	20	17.36	1.82	16.65	1.87	15.93	1.92	15.22	1.97	14.50	2.02	13.79	2.07
	15	15.13	1.75	14.50	1.79	13.87	1.83	13.24	1.87	12.61	1.91	11.98	1.95
	10	13.14	1.67	12.58	1.70	12.02	1.73	11.46	1.76	10.91	1.80	10.35	1.83
<b>ERC-020L</b>	5	11.36	1.58	10.86	1.61	10.37	1.63	9.87	1.65	9.38	1.68	8.88	1.70
	45	39.77	2.55	38.46	2.68	37.12	2.81	35.78	2.93	34.44	3.05	33.10	3.16
	40	35.93	2.53	34.70	2.65	33.46	2.76	32.21	2.87	30.96	2.97	29.72	3.07
	35	32.32	2.49	31.18	2.60	30.02	2.70	28.86	2.79	27.70	2.88	26.55	2.97
<b>EAD-032L</b>	30	28.94	2.44	27.89	2.53	26.82	2.62	25.74	2.70	24.67	2.78	23.61	2.85
	25	25.81	2.37	24.83	2.46	23.84	2.53	22.85	2.60	21.86	2.67	20.89	2.73
	20	22.91	2.30	22.01	2.37	21.10	2.43	20.19	2.49	19.29	2.55	18.40	2.60
	15	20.25	2.22	19.43	2.28	18.60	2.33	17.76	2.38	16.93	2.43	16.13	2.47
10	17.83	2.13	17.08	2.18	16.32	2.23	15.56	2.27	14.81	2.31	14.08	2.35	

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND REED COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE  
(Continued)**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0355</b>	45	41.99	3.33	40.34	3.46	38.78	3.59	37.31	3.72	35.93	3.84	34.64	3.96
	40	37.94	3.27	36.45	3.40	35.02	3.51	33.66	3.62	32.38	3.73	31.16	3.83
	35	34.13	3.20	32.77	3.31	31.47	3.41	30.22	3.51	29.02	3.60	27.88	3.68
	30	30.54	3.11	29.32	3.21	28.13	3.30	26.99	3.38	25.88	3.46	24.81	3.53
	25	27.19	3.01	26.08	3.09	25.00	3.17	23.95	3.24	22.93	3.30	21.95	3.36
<b>ERF-031L</b>	20	24.06	2.88	23.06	2.96	22.08	3.02	21.13	3.08	20.20	3.14	19.29	3.18
	15	21.17	2.74	20.26	2.81	19.37	2.86	18.50	2.91	17.66	2.96	16.84	3.00
	10	18.50	2.59	17.68	2.64	16.87	2.68	16.09	2.73	15.33	2.76	14.59	2.80
	5	16.09	2.59	15.33	2.64	14.59	2.68	13.85	2.73	13.11	2.76	12.37	2.80
<b>H0335</b> <b>3RA-031L</b>	25	35.99	3.48	34.40	3.59	32.82	3.71	31.24	3.82	29.65	3.94	28.07	4.05
	20	31.79	3.34	30.33	3.44	28.88	3.53	27.43	3.63	25.98	3.73	24.52	3.82
	15	27.91	3.19	26.57	3.27	25.24	3.35	23.91	3.43	22.58	3.50	21.25	3.58
	10	24.33	3.04	23.11	3.10	21.89	3.16	20.67	3.22	19.44	3.28	18.22	3.34
	5	21.04	2.89	19.92	2.93	18.80	2.97	17.68	3.01	16.56	3.05	15.44	3.09
<b>H0475</b> <b>NRB-040L</b>	45	65.81	4.43	62.97	4.62	60.22	4.79	57.56	4.96	54.99	5.11	52.53	5.27
	40	58.84	4.36	56.27	4.52	53.78	4.68	51.39	4.82	49.09	4.96	46.89	5.10
	35	52.41	4.26	50.09	4.40	47.84	4.54	45.69	4.66	43.63	4.79	41.68	4.91
	30	46.48	4.14	44.37	4.26	42.36	4.37	40.42	4.48	38.59	4.59	36.85	4.69
	25	41.00	3.99	39.10	4.09	37.28	4.19	35.55	4.28	33.91	4.38	32.38	4.47
	20	35.94	3.82	34.22	3.91	32.58	3.99	31.03	4.07	29.57	4.14	28.21	4.22
	15	31.25	3.63	29.69	3.70	28.21	3.77	26.82	3.83	25.51	3.90	24.31	3.96
	10	26.90	3.42	25.48	3.48	24.14	3.53	22.88	3.58	21.71	3.63	20.63	3.69

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0045</b>	-15	2.43	0.53	2.25	0.53	2.07	0.52	1.89	0.51	1.70	0.50	1.50	0.49
	-20	2.02	0.49	1.86	0.49	1.71	0.48	1.54	0.47	1.38	0.45	1.20	0.43
	-25	1.66	0.45	1.52	0.44	1.38	0.43	1.23	0.42	1.08	0.40	0.91	0.38
<b>KAN-005L</b>	-30	1.34	0.41	1.21	0.40	1.08	0.39	0.95	0.37	0.81	0.35	0.65	0.32
	-35	1.06	0.37	0.94	0.36	0.83	0.34	0.70	0.32	0.57	0.30	0.42	0.27
	-40	0.82	0.33	0.72	0.31	0.61	0.30	0.49	0.27	0.36	0.24	0.21	0.21
<b>H0075</b>	-15	3.93	0.79	3.68	0.79	3.42	0.80	3.17	0.80	2.92	0.79	2.66	0.79
	-20	3.35	0.74	3.12	0.74	2.89	0.74	2.67	0.73	2.44	0.73	2.21	0.72
	-25	2.82	0.68	2.61	0.68	2.41	0.67	2.21	0.67	2.00	0.66	1.79	0.65
<b>KAM-007L</b>	-30	2.34	0.63	2.16	0.62	1.97	0.61	1.79	0.60	1.60	0.59	1.41	0.58
	-35	1.92	0.57	1.75	0.56	1.58	0.55	1.41	0.54	1.24	0.53	1.06	0.51
	-40	1.55	0.51	1.39	0.50	1.24	0.49	1.08	0.48	0.91	0.46	0.74	0.44
<b>H0096</b>	-15	5.55	1.05	5.20	1.07	4.84	1.08	4.48	1.08	4.12	1.09	3.76	1.09
	-20	4.78	0.99	4.47	1.00	4.15	1.00	3.83	1.01	3.51	1.01	3.19	1.00
	-25	4.09	0.92	3.81	0.93	3.53	0.93	3.24	0.93	2.96	0.92	2.67	0.91
<b>KAJ-011L</b>	-30	3.47	0.85	3.22	0.86	2.96	0.86	2.71	0.85	2.46	0.84	2.22	0.83
	-35	2.91	0.79	2.68	0.79	2.46	0.79	2.24	0.78	2.02	0.76	1.81	0.74
	-40	2.40	0.73	2.20	0.72	2.01	0.71	1.82	0.70	1.63	0.69	1.45	0.66
<b>H0146</b>	-15	7.95	1.53	7.50	1.55	7.03	1.57	6.54	1.58	6.05	1.59	5.55	1.60
	-20	6.93	1.43	6.52	1.45	6.10	1.46	5.65	1.47	5.19	1.47	4.72	1.47
	-25	5.98	1.34	5.61	1.35	5.22	1.35	4.80	1.35	4.37	1.35	3.91	1.33
<b>KAL-016L</b>	-30	5.09	1.23	4.74	1.24	4.36	1.23	3.96	1.23	3.54	1.21	3.09	1.19
	-35	4.22	1.12	3.88	1.12	3.51	1.11	3.11	1.09	2.69	1.06	2.24	1.03
	-40	3.35	1.00	3.01	0.99	2.64	0.97	2.23	0.94	1.79	0.90	1.32	0.86
<b>H0215</b>	-15	9.16	1.74	8.60	1.75	8.04	1.76	7.48	1.76	6.91	1.76	6.34	1.76
	-20	7.87	1.61	7.37	1.62	6.87	1.62	6.36	1.61	5.85	1.60	5.34	1.59
	-25	6.71	1.49	6.26	1.48	5.81	1.47	5.35	1.46	4.89	1.44	4.42	1.42
<b>EAD-020L</b>	-30	5.66	1.36	5.25	1.35	4.84	1.33	4.42	1.31	4.00	1.28	3.57	1.25
	-35	4.69	1.23	4.31	1.21	3.93	1.18	3.54	1.15	3.15	1.12	2.76	1.08
	-40	3.77	1.09	3.42	1.06	3.06	1.03	2.69	0.99	2.33	0.95	1.95	0.90

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND REED COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0225</b>  <b>EAV-021L</b>	-15	10.29	1.79	9.53	1.79	8.77	1.79	8.02	1.78	7.29	1.76	6.61	1.74
	-20	8.65	1.63	7.97	1.63	7.29	1.62	6.62	1.60	5.98	1.58	5.39	1.54
	-25	7.17	1.47	6.56	1.46	5.95	1.45	5.35	1.42	4.79	1.39	4.28	1.35
	-30	5.86	1.32	5.31	1.31	4.77	1.28	4.24	1.25	3.75	1.22	3.32	1.17
	-35	4.76	1.18	4.27	1.16	3.77	1.13	3.30	1.09	2.88	1.05	2.51	1.00
	-40	3.89	1.05	3.43	1.02	2.99	0.99	2.57	0.95	2.20	0.90	1.89	0.85
<b>H0316</b>  <b>LAH-032L</b>	-15	17.26	2.97	16.11	2.98	14.95	2.97	13.77	2.95	12.56	2.93	11.30	2.88
	-20	14.60	2.72	13.56	2.71	12.51	2.69	11.43	2.67	10.32	2.62	9.16	2.57
	-25	12.17	2.47	11.24	2.45	10.29	2.42	9.31	2.38	8.30	2.33	7.22	2.26
	-30	9.97	2.22	9.14	2.20	8.30	2.16	7.42	2.11	6.49	2.05	5.51	1.98
	-35	8.01	1.99	7.29	1.96	6.54	1.92	5.75	1.86	4.91	1.79	4.01	1.71
	-40	6.30	1.77	5.67	1.73	5.02	1.69	4.32	1.63	3.56	1.56	2.74	1.47
<b>H0326</b>  <b>LAL-032L</b>	-15	19.44	3.56	18.27	3.60	17.10	3.65	15.92	3.68	14.71	3.70	13.47	3.70
	-20	16.59	3.29	15.56	3.32	14.52	3.35	13.46	3.37	12.37	3.37	11.25	3.36
	-25	14.02	3.02	13.12	3.04	12.20	3.06	11.26	3.06	10.29	3.06	9.27	3.03
	-30	11.74	2.76	10.96	2.77	10.16	2.78	9.34	2.78	8.48	2.76	7.56	2.72
	-35	9.76	2.51	9.10	2.52	8.42	2.52	7.70	2.51	6.94	2.48	6.13	2.43
	-40	8.10	2.29	7.56	2.29	6.98	2.28	6.37	2.26	5.71	2.23	4.99	2.17
<b>H0356</b>  <b>NRD-032L</b>	-15	20.38	4.02	19.19	4.05	18.00	4.08	16.84	4.09	15.72	4.11	14.66	4.14
	-20	17.68	3.74	16.61	3.76	15.56	3.77	14.55	3.77	13.58	3.77	12.69	3.78
	-25	15.19	3.45	14.24	3.45	13.32	3.44	12.43	3.43	11.61	3.42	10.87	3.41
	-30	12.84	3.14	11.99	3.12	11.19	3.10	10.43	3.07	9.75	3.04	9.16	3.02
	-35	10.56	2.80	9.81	2.77	9.11	2.72	8.48	2.68	7.92	2.64	7.46	2.60
	-40	8.28	2.43	7.62	2.38	7.02	2.32	6.50	2.25	6.06	2.19	5.73	2.14
<b>H0366</b>  <b>NRD-040L</b>	-15	19.98	4.19	18.74	4.23	17.50	4.26	16.27	4.28	15.06	4.29	13.90	4.30
	-20	17.19	3.89	16.08	3.92	14.97	3.93	13.88	3.93	12.80	3.93	11.77	3.92
	-25	14.61	3.60	13.63	3.61	12.64	3.60	11.67	3.59	10.72	3.57	9.82	3.54
	-30	12.24	3.30	11.37	3.30	10.50	3.28	9.65	3.25	8.82	3.22	8.04	3.17
	-35	10.08	3.00	9.31	2.98	8.55	2.96	7.80	2.92	7.09	2.87	6.41	2.81
	-40	8.11	2.70	7.44	2.67	6.77	2.63	6.13	2.58	5.51	2.52	4.94	2.45

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0055</b>	25	4.85	0.57	4.59	0.59	4.32	0.61	4.05	0.62	3.79	0.64	3.52	0.65
	20	4.31	0.56	4.05	0.57	3.79	0.58	3.52	0.59	3.26	0.60	2.99	0.61
	15	3.78	0.54	3.53	0.55	3.28	0.56	3.02	0.57	2.76	0.58	2.51	0.58
	<b>HAG-005L</b>	10	3.29	0.52	3.05	0.53	2.81	0.54	2.57	0.54	2.33	0.55	2.09
<b>H0065</b>	25	5.65	0.70	5.34	0.73	5.02	0.75	4.70	0.77	4.38	0.80	4.05	0.82
	20	5.07	0.69	4.79	0.71	4.50	0.73	4.21	0.75	3.92	0.77	3.62	0.79
	15	4.50	0.67	4.25	0.68	3.99	0.70	3.72	0.72	3.46	0.74	3.20	0.75
	<b>HAJ-005L</b>	10	3.96	0.64	3.73	0.66	3.49	0.67	3.26	0.69	3.02	0.70	2.78
<b>H0115</b>	25	10.36	1.22	9.85	1.25	9.32	1.27	8.78	1.30	8.23	1.32	7.67	1.34
	20	9.21	1.19	8.73	1.21	8.24	1.23	7.73	1.25	7.22	1.27	6.71	1.29
	15	8.21	1.14	7.77	1.16	7.31	1.18	6.85	1.20	6.38	1.21	5.90	1.23
	<b>KAR-010L</b>	10	7.33	1.09	6.92	1.11	6.50	1.12	6.08	1.13	5.65	1.15	5.22
<b>H0135</b>	25	12.55	1.25	11.87	1.29	11.18	1.33	10.50	1.36	9.82	1.40	9.15	1.42
	20	11.15	1.21	10.53	1.24	9.91	1.28	9.29	1.31	8.68	1.33	8.06	1.36
	15	9.91	1.17	9.35	1.20	8.79	1.22	8.23	1.25	7.68	1.27	7.12	1.29
	<b>KAG-010L</b>	10	8.81	1.12	8.30	1.15	7.80	1.17	7.29	1.19	6.79	1.21	6.29
<b>H0206</b>	25	16.90	1.72	15.97	1.77	15.02	1.82	14.07	1.86	13.11	1.90	12.16	1.94
	20	15.24	1.69	14.42	1.74	13.59	1.78	12.75	1.82	11.91	1.86	11.07	1.90
	15	13.56	1.62	12.84	1.67	12.11	1.71	11.37	1.75	10.63	1.78	9.89	1.82
	<b>KAK-021L</b>	10	11.94	1.54	11.30	1.59	10.65	1.62	10.00	1.66	9.35	1.69	8.70
<b>H0246</b>	25	22.04	2.36	20.82	2.45	19.60	2.53	18.39	2.60	17.19	2.67	16.00	2.74
	20	19.65	2.29	18.53	2.37	17.42	2.44	16.32	2.50	15.23	2.56	14.15	2.62
	15	17.49	2.21	16.47	2.27	15.47	2.33	14.47	2.39	13.49	2.44	12.51	2.48
	<b>ERC-021L</b>	10	15.52	2.11	14.60	2.17	13.69	2.22	12.80	2.27	11.91	2.31	11.03
<b>H0335</b>	25	39.02	4.12	36.70	4.26	34.38	4.39	32.07	4.52	29.78	4.64	27.49	4.76
	20	34.55	3.96	32.46	4.08	30.38	4.20	28.30	4.31	26.24	4.41	24.19	4.51
	15	30.47	3.79	28.58	3.90	26.71	4.00	24.85	4.09	23.00	4.17	21.16	4.25
	<b>3RA-031L</b>	10	26.73	3.61	25.04	3.70	23.36	3.78	21.69	3.86	20.03	3.93	18.40
<b>H0355</b>	25	31.54	3.32	29.98	3.44	28.37	3.56	26.74	3.67	25.08	3.78	23.42	3.88
	20	28.16	3.21	26.74	3.32	25.29	3.42	23.80	3.52	22.31	3.62	20.80	3.71
	15	25.09	3.09	23.79	3.19	22.47	3.28	21.13	3.37	19.78	3.45	18.42	3.53
	<b>ERF-031L</b>	10	22.28	2.97	21.10	3.05	19.90	3.13	18.69	3.21	17.46	3.28	16.24
<b>H0475</b>	25	44.03	4.64	41.47	4.75	38.94	4.85	36.43	4.94	33.94	5.02	31.47	5.08
	20	38.99	4.47	36.70	4.56	34.42	4.65	32.18	4.72	29.95	4.78	27.75	4.83
	15	34.40	4.28	32.35	4.36	30.31	4.43	28.30	4.49	26.32	4.53	24.36	4.57
	<b>NRB-040L</b>	10	30.22	4.09	28.38	4.15	26.55	4.20	24.75	4.24	22.98	4.27	21.24

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND REED COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE**

HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0225</b>	45	28.41	2.36	27.26	2.46	26.12	2.56	25.00	2.66	23.89	2.75	22.79	2.84
	40	25.36	2.32	24.31	2.41	23.28	2.50	22.26	2.59	21.25	2.67	20.24	2.75
	35	22.57	2.27	21.62	2.35	20.68	2.43	19.75	2.51	18.83	2.59	17.92	2.66
	30	20.02	2.21	19.15	2.28	18.30	2.36	17.46	2.43	16.63	2.50	15.80	2.56
	25	17.68	2.14	16.90	2.21	16.13	2.27	15.37	2.34	14.62	2.40	13.88	2.45
<b>EAVA-021L</b>	20	15.54	2.07	14.84	2.13	14.15	2.19	13.46	2.24	12.79	2.30	12.12	2.35
	15	13.58	1.99	12.95	2.04	12.33	2.09	11.72	2.14	11.12	2.19	10.51	2.23
	10	11.78	1.90	11.22	1.95	10.67	2.00	10.12	2.04	9.58	2.08	9.04	2.12
<b>H0315</b>	25	27.94	2.64	26.70	2.71	25.48	2.77	24.28	2.84	23.10	2.89	21.92	2.95
	20	24.55	2.52	23.44	2.58	22.35	2.63	21.27	2.69	20.20	2.73	19.14	2.77
	15	21.46	2.40	20.46	2.44	19.48	2.49	18.52	2.53	17.56	2.56	16.61	2.59
<b>LAHA-031L</b>	10	18.62	2.26	17.73	2.30	16.85	2.33	15.99	2.36	15.13	2.39	14.28	2.41
	5	16.01	2.12	15.21	2.15	14.43	2.18	13.66	2.20	12.90	2.21	12.14	2.23
	0	13.59	1.98	12.88	2.00	12.19	2.01	11.50	2.02	10.82	2.03	10.15	2.04

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp		
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	
<b>H0304</b>	-15	19.81	3.14	18.80	3.20	17.79	3.26	16.78	3.30	15.78	3.34	14.81	3.36	
	-20	16.85	2.94	15.95	2.99	15.04	3.03	14.12	3.06	13.21	3.08	12.32	3.09	
	-25	14.25	2.73	13.43	2.77	12.60	2.79	11.76	2.81	10.92	2.80	10.08	2.79	
	<b>2DF-300L</b>	-30	11.94	2.52	11.19	2.53	10.41	2.53	9.62	2.52	8.82	2.50	8.02	2.46
		-35	9.84	2.28	9.13	2.27	8.38	2.24	7.62	2.20	6.84	2.15	6.05	2.08
		-40	7.87	2.00	7.18	1.96	6.45	1.91	5.68	1.84	4.90	1.75	4.10	1.65
<b>H0404</b>	-15	23.99	3.72	22.84	3.79	21.67	3.85	20.48	3.91	19.26	3.95	18.02	3.98	
	-20	20.36	3.47	19.31	3.53	18.25	3.58	17.16	3.61	16.05	3.64	14.92	3.65	
	-25	17.08	3.21	16.13	3.26	15.16	3.29	14.17	3.31	13.16	3.32	12.13	3.32	
	<b>2DL-400L</b>	-30	14.15	2.95	13.29	2.98	12.42	3.00	11.52	3.00	10.60	3.00	9.66	2.97
		-35	11.57	2.69	10.80	2.70	10.01	2.70	9.20	2.69	8.38	2.66	7.53	2.62
		-40	9.35	2.42	8.67	2.41	7.96	2.40	7.23	2.37	6.49	2.32	5.72	2.26
<b>H0504</b>	-15	27.90	4.33	26.56	4.42	25.17	4.50	23.75	4.57	22.28	4.63	20.76	4.67	
	-20	23.73	4.06	22.50	4.13	21.24	4.20	19.94	4.25	18.60	4.29	17.22	4.32	
	-25	19.95	3.79	18.84	3.85	17.71	3.89	16.54	3.93	15.34	3.96	14.10	3.97	
	<b>2DA-060L</b>	-30	16.56	3.50	15.57	3.55	14.57	3.58	13.53	3.60	12.47	3.61	11.38	3.61
		-35	13.54	3.21	12.68	3.24	11.81	3.26	10.91	3.26	9.99	3.26	9.05	3.24
		-40	10.89	2.91	10.17	2.92	9.43	2.92	8.67	2.91	7.90	2.89	7.11	2.86
<b>H0524</b>	-15	29.58	4.51	28.24	4.59	26.87	4.66	25.49	4.72	24.08	4.78	22.66	4.84	
	-20	25.36	4.21	24.13	4.27	22.88	4.33	21.61	4.38	20.31	4.42	19.00	4.46	
	-25	21.56	3.91	20.44	3.96	19.31	4.00	18.15	4.03	16.96	4.06	15.76	4.09	
	<b>2DB-060L</b>	-30	18.14	3.60	17.14	3.63	16.12	3.66	15.07	3.69	14.00	3.70	12.91	3.72
		-35	15.06	3.29	14.18	3.31	13.27	3.33	12.34	3.34	11.38	3.35	10.40	3.36
		-40	12.29	2.98	11.52	2.99	10.73	3.00	9.91	3.01	9.06	3.01	8.20	3.00
<b>H0604</b>	-15	33.40	5.21	32.01	5.34	30.58	5.45	29.10	5.57	27.56	5.67	25.96	5.77	
	-20	28.62	4.90	27.36	5.00	26.04	5.09	24.68	5.18	23.25	5.26	21.75	5.34	
	-25	24.35	4.57	23.18	4.65	21.96	4.72	20.69	4.78	19.35	4.84	17.93	4.88	
	<b>3DA-060L</b>	-30	20.53	4.24	19.43	4.29	18.28	4.34	17.08	4.37	15.80	4.39	14.45	4.39
		-35	17.10	3.89	16.05	3.91	14.95	3.93	13.79	3.92	12.56	3.91	11.24	3.88
		-40	14.00	3.52	12.99	3.51	11.92	3.49	10.78	3.45	9.57	3.40	8.27	3.34
<b>H0734</b>	-15	41.03	6.25	39.19	6.39	37.34	6.52	35.52	6.65	33.74	6.77	32.02	6.88	
	-20	35.53	5.85	33.82	5.97	32.09	6.09	30.38	6.19	28.71	6.29	27.10	6.37	
	-25	30.56	5.45	28.96	5.55	27.34	5.65	25.73	5.73	24.15	5.80	22.63	5.86	
	<b>3DB-075L</b>	-30	26.04	5.05	24.53	5.13	23.01	5.20	21.49	5.26	19.99	5.31	18.54	5.35
		-35	21.90	4.64	20.48	4.70	19.03	4.75	17.57	4.79	16.14	4.81	14.75	4.83
		-40	18.06	4.23	16.71	4.27	15.32	4.30	13.92	4.31	12.54	4.31	11.19	4.30

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND DISCUS COMPRESSORS  
R22 LOW TEMPERATURE (Continued)  
DEMAND COOLING**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0934</b>  <b>3DF-090L</b>	-15	49.69	7.62	47.55	7.78	45.36	7.93	43.14	8.07	40.91	8.22	38.70	8.36
	-20	42.68	7.12	40.68	7.26	38.63	7.39	36.56	7.51	34.49	7.63	32.43	7.75
	-25	36.27	6.63	34.42	6.74	32.54	6.85	30.64	6.96	28.73	7.06	26.84	7.16
	-30	30.48	6.14	28.81	6.24	27.10	6.33	25.37	6.42	23.65	6.51	21.95	6.59
	-35	25.33	5.68	23.84	5.77	22.32	5.85	20.79	5.92	19.26	6.00	17.76	6.07
	-40	20.82	5.26	19.54	5.34	18.22	5.41	16.90	5.47	15.58	5.54	14.29	5.60
<b>H1064</b>  <b>3DS-100L</b>	-15	53.56	8.35	51.39	8.54	49.18	8.72	46.90	8.90	44.52	9.07	42.00	9.24
	-20	46.11	7.83	44.11	8.00	42.09	8.16	40.00	8.31	37.82	8.46	35.53	8.60
	-25	39.32	7.33	37.51	7.47	35.67	7.61	33.78	7.74	31.82	7.87	29.75	7.98
	-30	33.15	6.82	31.52	6.95	29.88	7.07	28.20	7.19	26.45	7.30	24.61	7.40
	-35	27.55	6.33	26.11	6.44	24.67	6.55	23.21	6.66	21.68	6.75	20.08	6.84
	-40	22.46	5.84	21.22	5.95	20.00	6.05	18.75	6.15	17.46	6.24	16.10	6.32
<b>H1314</b>  <b>4DA-100L</b>	-15	57.73	9.14	55.18	9.40	52.49	9.63	49.63	9.81	46.59	9.94	43.34	10.01
	-20	49.20	8.55	46.77	8.75	44.19	8.92	41.47	9.04	38.56	9.10	35.46	9.10
	-25	41.38	7.93	39.05	8.07	36.59	8.17	33.99	8.22	31.22	8.22	28.27	8.14
	-30	34.20	7.26	31.98	7.34	29.63	7.37	27.15	7.36	24.51	7.27	21.70	7.12
	-35	27.61	6.53	25.49	6.55	23.25	6.51	20.89	6.42	18.38	6.26	15.70	6.03
	-40	21.55	5.73	19.52	5.67	17.39	5.57	15.14	5.40	12.76	5.16	10.22	4.84
<b>H1514</b>  <b>4DL-150L</b>	-15	74.50	11.79	71.35	12.14	68.10	12.48	64.74	12.79	61.29	13.07	57.73	13.30
	-20	64.35	11.10	61.37	11.40	58.30	11.68	55.15	11.94	51.91	12.15	48.58	12.32
	-25	55.02	10.39	52.22	10.64	49.34	10.87	46.38	11.06	43.35	11.21	40.25	11.31
	-30	46.47	9.67	43.84	9.87	41.15	10.04	38.39	10.17	35.56	10.26	32.68	10.29
	-35	38.62	8.93	36.17	9.07	33.66	9.19	31.10	9.26	28.48	9.28	25.81	9.25
	-40	31.44	8.16	29.15	8.25	26.82	8.31	24.45	8.33	22.04	8.28	19.59	8.18
<b>H2204</b>  <b>4DT-220L</b>	-15	86.25	13.78	83.18	14.22	80.12	14.64	76.94	15.05	73.51	15.41	69.69	15.71
	-20	75.08	13.05	72.28	13.44	69.48	13.81	66.55	14.15	63.37	14.45	59.79	14.68
	-25	65.03	12.32	62.46	12.64	59.89	12.96	57.18	13.23	54.20	13.46	50.83	13.61
	-30	55.73	11.53	53.36	11.80	50.98	12.04	48.45	12.25	45.65	12.40	42.45	12.47
	-35	46.83	10.66	44.62	10.86	42.40	11.03	40.02	11.16	37.36	11.23	34.30	11.22
	-40	37.97	9.66	35.89	9.79	33.79	9.89	31.53	9.94	28.98	9.92	26.01	9.82
<b>H2704</b>  <b>6DL-270L</b>	-15	109.59	17.55	105.56	18.15	101.38	18.72	96.97	19.23	92.21	19.66	87.02	19.98
	-20	95.17	16.60	91.41	17.12	87.49	17.60	83.33	18.02	78.81	18.34	73.85	18.53
	-25	81.90	15.62	78.36	16.05	74.66	16.43	70.71	16.73	66.39	16.92	61.62	16.99
	-30	69.52	14.56	66.17	14.89	62.65	15.16	58.86	15.34	54.70	15.40	50.08	15.31
	-35	57.78	13.39	54.57	13.62	51.19	13.77	47.53	13.81	43.49	13.72	38.97	13.48
	-40	46.42	12.10	43.32	12.20	40.03	12.22	36.46	12.11	32.49	11.87	28.04	11.45

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H3014</b>	-15	129.50	21.11	124.74	21.78	119.92	22.44	114.83	23.05	109.28	23.61	103.07	24.08
	-20	112.45	19.89	108.21	20.49	103.90	21.05	99.31	21.57	94.25	22.02	88.50	22.37
	-25	97.09	18.64	93.31	19.15	89.45	19.63	85.29	20.04	80.63	20.37	75.29	20.60
<b>6DT-300L</b>	-30	82.95	17.35	79.57	17.78	76.08	18.15	72.29	18.45	67.98	18.65	62.96	18.75
	-35	69.57	16.01	66.51	16.33	63.34	16.60	59.84	16.78	55.82	16.85	51.07	16.81
	-40	56.48	14.60	53.69	14.82	50.76	14.96	47.49	15.02	43.69	14.96	39.14	14.77

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

## HIRU REMOTE CONDENSING UNITS COPELAND DISCUS COMPRESSORS R22 MEDIUM/HIGH TEMPERATURE

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0484</b>	45	73.06	3.89	70.59	4.13	68.11	4.37	65.62	4.59	63.12	4.81	60.62	5.02
	40	65.72	3.89	63.44	4.11	61.16	4.31	58.87	4.51	56.57	4.70	54.27	4.89
	35	58.94	3.86	56.84	4.05	54.73	4.23	52.62	4.41	50.51	4.57	48.40	4.73
	30	52.67	3.80	50.73	3.96	48.80	4.12	46.85	4.27	44.91	4.42	42.96	4.55
	25	46.89	3.71	45.10	3.85	43.32	3.99	41.52	4.12	39.73	4.24	37.94	4.35
<b>2DC-050L</b>	20	41.56	3.59	39.91	3.72	38.25	3.83	36.60	3.94	34.94	4.04	33.28	4.13
	15	36.63	3.46	35.10	3.56	33.57	3.65	32.03	3.74	30.49	3.82	28.95	3.89
	10	32.08	3.30	30.66	3.38	29.23	3.46	27.79	3.53	26.35	3.59	24.91	3.64
<b>H0494</b>	45	84.31	4.52	81.49	4.80	78.67	5.07	75.85	5.34	73.01	5.60	70.17	5.85
	40	75.96	4.50	73.37	4.76	70.77	5.00	68.18	5.24	65.58	5.47	62.97	5.69
	35	68.23	4.46	65.85	4.68	63.47	4.90	61.09	5.12	58.70	5.32	56.32	5.51
	30	61.09	4.38	58.91	4.58	56.72	4.78	54.53	4.96	52.35	5.14	50.17	5.31
	25	54.51	4.28	52.49	4.46	50.48	4.62	48.48	4.78	46.48	4.94	44.48	5.08
<b>2DD-050L</b>	20	48.42	4.15	46.57	4.30	44.73	4.45	42.88	4.58	41.04	4.71	39.21	4.83
	15	42.81	4.00	41.10	4.13	39.40	4.25	37.70	4.37	36.00	4.47	34.31	4.57
	10	37.62	3.83	36.04	3.94	34.46	4.04	32.89	4.13	31.32	4.21	29.75	4.29
<b>H0654</b>	45	104.44	5.68	101.28	6.02	98.06	6.36	94.79	6.69	91.46	7.01	88.06	7.32
	40	94.32	5.66	91.41	5.98	88.45	6.28	85.44	6.58	82.38	6.87	79.26	7.15
	35	84.96	5.61	82.28	5.89	79.56	6.17	76.80	6.44	73.99	6.70	71.14	6.95
	30	76.31	5.52	73.85	5.78	71.36	6.02	68.82	6.26	66.25	6.49	63.65	6.71
	25	68.31	5.40	66.06	5.63	63.77	5.84	61.45	6.05	59.10	6.25	56.72	6.45
<b>2DL-075L</b>	20	60.91	5.24	58.84	5.44	56.75	5.63	54.63	5.81	52.48	5.99	50.30	6.15
	15	54.04	5.05	52.14	5.22	50.23	5.39	48.29	5.54	46.33	5.69	44.34	5.83
	10	47.65	4.83	45.91	4.98	44.16	5.11	42.39	5.24	40.59	5.36	38.78	5.48
<b>H0704</b>	45	117.68	6.52	113.92	6.92	110.15	7.30	106.35	7.68	102.54	8.05	98.70	8.40
	40	106.42	6.50	103.02	6.86	99.60	7.21	96.16	7.55	92.70	7.88	89.22	8.21
	35	96.01	6.43	92.93	6.76	89.83	7.08	86.70	7.39	83.55	7.68	80.37	7.97
	30	86.38	6.34	83.58	6.63	80.75	6.91	77.89	7.19	75.00	7.45	72.08	7.70
	25	77.45	6.20	74.89	6.46	72.30	6.71	69.66	6.95	66.99	7.17	64.28	7.39
<b>2DA-075L</b>	20	69.17	6.03	66.81	6.25	64.40	6.46	61.94	6.66	59.44	6.85	56.88	7.03
	15	61.46	5.81	59.25	6.00	56.98	6.17	54.65	6.34	52.26	6.49	49.80	6.63
	10	54.24	5.55	52.13	5.70	49.96	5.84	47.70	5.97	45.37	6.08	42.96	6.18
<b>H0724</b>	45	141.01	7.80	136.67	8.29	132.33	8.77	128.00	9.23	123.67	9.67	119.35	10.11
	40	127.70	7.80	123.74	8.25	119.78	8.68	115.84	9.10	111.91	9.50	107.99	9.89
	35	115.38	7.76	111.77	8.16	108.18	8.55	104.60	8.93	101.03	9.29	97.48	9.64
	30	104.00	7.66	100.72	8.02	97.45	8.37	94.20	8.71	90.97	9.04	87.75	9.35
	25	93.49	7.52	90.51	7.85	87.55	8.16	84.60	8.46	81.67	8.75	78.75	9.03
<b>3DA-075L</b>	20	83.80	7.35	81.09	7.63	78.40	7.91	75.72	8.18	73.06	8.43	70.42	8.68
	15	74.86	7.13	72.39	7.39	69.94	7.63	67.50	7.87	65.08	8.09	62.67	8.31
	10	66.61	6.89	64.36	7.11	62.11	7.32	59.88	7.53	57.66	7.73	55.45	7.92

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H1024</b>  <b>3DB-100L</b>	45	165.66	9.15	160.78	9.76	155.86	10.34	150.90	10.91	145.90	11.46	140.85	11.99
	40	150.32	9.17	145.86	9.72	141.36	10.25	136.83	10.77	132.26	11.27	127.66	11.75
	35	136.12	9.13	132.04	9.63	127.94	10.11	123.80	10.58	119.63	11.03	115.44	11.46
	30	122.99	9.03	119.27	9.48	115.52	9.91	111.75	10.33	107.95	10.74	104.12	11.12
	25	110.88	8.88	107.48	9.28	104.06	9.67	100.61	10.05	97.14	10.41	93.64	10.75
	20	99.71	8.68	96.60	9.04	93.47	9.39	90.32	9.72	87.14	10.04	83.93	10.34
	15	89.43	8.45	86.59	8.77	83.71	9.07	80.81	9.36	77.89	9.64	74.94	9.90
	10	79.97	8.18	77.35	8.46	74.70	8.72	72.02	8.98	69.32	9.22	66.58	9.45
<b>H1204</b>  <b>3DF-120L</b>	45	195.60	11.65	189.56	12.29	183.49	12.93	177.40	13.55	171.31	14.16	165.20	14.76
	40	177.42	11.56	171.90	12.15	166.35	12.73	160.78	13.29	155.21	13.85	149.63	14.39
	35	160.44	11.40	155.40	11.93	150.35	12.46	145.28	12.97	140.20	13.47	135.12	13.96
	30	144.61	11.16	140.04	11.65	135.46	12.12	130.85	12.59	126.25	13.04	121.64	13.48
	25	129.92	10.87	125.79	11.31	121.65	11.74	117.49	12.16	113.32	12.57	109.16	12.97
	20	116.33	10.54	112.62	10.93	108.89	11.32	105.15	11.70	101.40	12.07	97.66	12.42
	15	103.82	10.16	100.49	10.52	97.15	10.87	93.80	11.21	90.45	11.54	87.10	11.86
	10	92.35	9.76	89.39	10.09	86.41	10.40	83.43	10.71	80.44	11.00	77.46	11.29
<b>H1464</b>  <b>3DS-150L</b>	45	220.83	12.79	213.78	13.55	206.82	14.30	199.93	15.03	193.13	15.73	186.42	16.41
	40	200.16	12.74	193.79	13.44	187.50	14.12	181.31	14.78	175.21	15.43	169.21	16.06
	35	181.06	12.61	175.31	13.24	169.66	13.87	164.10	14.47	158.65	15.07	153.31	15.64
	30	163.43	12.40	158.25	12.98	153.18	13.55	148.21	14.10	143.35	14.64	138.61	15.17
	25	147.14	12.13	142.50	12.66	137.96	13.17	133.53	13.67	129.20	14.17	124.99	14.65
	20	132.10	11.80	127.94	12.27	123.88	12.74	119.93	13.20	116.08	13.64	112.35	14.08
	15	118.19	11.41	114.46	11.84	110.83	12.26	107.30	12.68	103.88	13.09	100.57	13.49
	10	105.29	10.98	101.94	11.36	98.68	11.74	95.52	12.12	92.46	12.50	89.51	12.87
<b>H1964</b>  <b>4DA-200L</b>	45	239.40	13.89	232.60	14.76	225.80	15.64	218.98	16.51	212.16	17.39	205.32	18.26
	40	216.65	13.71	210.44	14.52	204.22	15.33	198.00	16.14	191.77	16.95	185.52	17.75
	35	195.52	13.47	189.85	14.21	184.18	14.95	178.51	15.69	172.82	16.43	167.13	17.17
	30	175.90	13.18	170.74	13.85	165.58	14.52	160.41	15.19	155.24	15.87	150.06	16.54
	25	157.70	12.85	153.02	13.45	148.33	14.06	143.63	14.66	138.93	15.26	134.22	15.87
	20	140.84	12.49	136.59	13.03	132.34	13.56	128.08	14.10	123.82	14.64	119.55	15.17
	15	125.23	12.11	121.38	12.58	117.54	13.06	113.69	13.53	109.83	14.00	105.97	14.47
	10	110.80	11.73	107.33	12.13	103.86	12.54	100.38	12.95	96.90	13.35	93.42	13.76
<b>H2214</b>  <b>4DB-220L</b>	45	285.31	16.08	275.84	17.06	266.41	18.02	257.00	18.96	247.62	19.89	238.26	20.79
	40	257.80	16.05	249.11	16.94	240.45	17.81	231.82	18.66	223.21	19.49	214.62	20.31
	35	231.66	15.89	223.72	16.69	215.80	17.47	207.92	18.24	200.05	18.98	192.19	19.71
	30	206.99	15.62	199.76	16.34	192.56	17.04	185.39	17.72	178.23	18.39	171.08	19.03
	25	183.89	15.25	177.35	15.89	170.83	16.52	164.34	17.13	157.87	17.71	151.40	18.28
	20	162.46	14.80	156.58	15.38	150.73	15.93	144.90	16.47	139.08	16.98	133.27	17.48
	15	142.82	14.30	137.59	14.81	132.37	15.30	127.17	15.77	121.99	16.22	116.81	16.64
	10	125.09	13.75	120.47	14.20	115.87	14.63	111.29	15.04	106.71	15.43	102.14	15.79

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND DISCUS COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE  
(Continued)**

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H2504</b>	45	315.38	18.83	305.75	19.89	296.11	20.94	286.46	21.99	276.81	23.04	267.14	24.09
	40	283.66	18.52	274.90	19.49	266.13	20.46	257.36	21.43	248.57	22.40	239.78	23.37
	35	254.31	18.13	246.37	19.01	238.42	19.90	230.47	20.78	222.50	21.66	214.52	22.54
	30	227.18	17.68	220.00	18.47	212.82	19.27	205.62	20.06	198.43	20.86	191.22	21.66
	25	202.10	17.18	195.63	17.88	189.17	18.59	182.69	19.30	176.21	20.01	169.72	20.72
<b>4DH-250L</b>	20	178.94	16.64	173.14	17.27	167.34	17.89	161.54	18.51	155.72	19.13	149.90	19.76
	15	157.57	16.09	152.40	16.63	147.22	17.17	142.04	17.70	136.85	18.24	131.65	18.78
	10	137.89	15.53	133.29	15.98	128.69	16.44	124.09	16.90	119.48	17.35	114.87	17.81
<b>H2824</b>	45	355.35	22.93	344.87	24.08	334.38	25.23	323.88	26.38	313.37	27.53	302.83	28.68
	40	322.20	22.44	312.50	23.50	302.80	24.57	293.08	25.64	283.35	26.71	273.61	27.77
	35	291.51	21.85	282.54	22.83	273.57	23.81	264.59	24.79	255.60	25.77	246.59	26.76
	30	263.10	21.20	254.83	22.09	246.54	22.98	238.25	23.87	229.94	24.76	221.63	25.65
	25	236.83	20.49	229.19	21.29	221.55	22.09	213.90	22.89	206.24	23.70	198.57	24.50
<b>4DJ-300L</b>	20	212.55	19.75	205.51	20.46	198.47	21.17	191.42	21.88	184.36	22.59	177.29	23.31
	15	190.14	18.98	183.66	19.61	177.17	20.23	170.68	20.85	164.18	21.48	157.68	22.10
	10	169.47	18.21	163.51	18.75	157.54	19.29	151.57	19.82	145.60	20.36	139.61	20.90
<b>H3024</b>	45	417.25	24.02	401.69	25.27	386.57	26.51	371.85	27.74	357.52	28.95	343.55	30.16
	40	376.30	23.79	362.91	24.95	349.82	26.10	337.00	27.22	324.44	28.33	312.12	29.44
	35	339.41	23.46	327.90	24.53	316.55	25.58	305.35	26.61	294.29	27.62	283.33	28.62
	30	306.11	23.04	296.19	24.02	286.31	24.97	276.45	25.90	266.59	26.81	256.72	27.71
	25	275.94	22.52	267.33	23.41	258.64	24.27	249.85	25.10	240.93	25.92	231.87	26.72
<b>6DB-300L</b>	20	248.44	21.91	240.88	22.71	233.10	23.48	225.10	24.22	216.85	24.94	208.34	25.65
	15	223.17	21.22	216.38	21.94	209.26	22.62	201.79	23.27	193.94	23.90	185.70	24.50
	10	199.69	20.46	193.42	21.09	186.69	21.68	179.47	22.25	171.76	22.78	163.54	23.29

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp		
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	
<b>H0304</b>	-15	23.25	3.79	22.02	3.86	20.80	3.91	19.59	3.95	18.37	3.98	17.13	3.99	
	-20	20.13	3.57	19.05	3.62	17.96	3.65	16.88	3.68	15.78	3.69	14.64	3.68	
	-25	17.31	3.33	16.34	3.36	15.37	3.38	14.38	3.38	13.36	3.37	12.30	3.34	
	<b>2DF-030L</b>	-30	14.77	3.07	13.88	3.09	12.98	3.09	12.05	3.07	11.09	3.03	10.07	2.97
		-35	12.46	2.80	11.63	2.79	10.78	2.77	9.88	2.73	8.94	2.67	7.93	2.58
		-40	10.38	2.50	9.57	2.48	8.73	2.43	7.84	2.36	6.88	2.27	5.86	2.15
<b>H0404</b>	-15	28.03	4.32	26.58	4.39	25.12	4.45	23.66	4.51	22.19	4.55	20.72	4.57	
	-20	24.38	4.04	23.08	4.10	21.78	4.15	20.47	4.18	19.16	4.21	17.84	4.22	
	-25	21.06	3.76	19.89	3.80	18.72	3.83	17.55	3.85	16.37	3.86	15.18	3.85	
	<b>2DL-040L</b>	-30	18.03	3.48	16.98	3.50	15.93	3.51	14.87	3.51	13.80	3.51	12.73	3.48
		-35	15.27	3.18	14.32	3.19	13.37	3.19	12.40	3.17	11.43	3.15	10.45	3.11
		-40	12.76	2.88	11.89	2.87	11.01	2.85	10.12	2.82	9.23	2.78	8.32	2.72
<b>H0504</b>	-15	32.08	4.96	30.47	5.05	28.87	5.13	27.27	5.20	25.68	5.25	24.09	5.30	
	-20	28.07	4.66	26.64	4.73	25.21	4.79	23.77	4.84	22.34	4.88	20.91	4.90	
	-25	24.40	4.35	23.12	4.41	21.83	4.45	20.54	4.47	19.25	4.49	17.95	4.49	
	<b>2DA-060L</b>	-30	21.04	4.03	19.88	4.07	18.72	4.09	17.54	4.10	16.36	4.09	15.17	4.07
		-35	17.95	3.70	16.89	3.71	15.81	3.71	14.73	3.70	13.63	3.68	12.52	3.64
		-40	15.08	3.35	14.09	3.34	13.08	3.32	12.06	3.29	11.02	3.25	9.97	3.18
<b>H0524</b>	-15	34.41	5.21	32.72	5.31	31.03	5.40	29.34	5.48	27.65	5.55	25.94	5.61	
	-20	30.00	4.89	28.49	4.97	26.99	5.04	25.50	5.10	24.00	5.16	22.49	5.20	
	-25	25.95	4.56	24.60	4.62	23.27	4.67	21.95	4.72	20.63	4.76	19.31	4.79	
	<b>2DB-060L</b>	-30	22.25	4.22	21.03	4.25	19.84	4.29	18.67	4.32	17.51	4.34	16.35	4.36
		-35	18.84	3.86	17.75	3.87	16.68	3.89	15.64	3.90	14.61	3.91	13.58	3.91
		-40	15.72	3.47	14.72	3.47	13.75	3.47	12.82	3.46	11.90	3.45	10.99	3.44
<b>H0604</b>	-15	38.27	5.92	36.58	6.06	34.88	6.19	33.14	6.31	31.34	6.40	29.46	6.46	
	-20	33.48	5.58	31.98	5.70	30.47	5.80	28.90	5.88	27.25	5.94	25.49	5.97	
	-25	29.13	5.23	27.80	5.32	26.42	5.40	24.98	5.45	23.44	5.47	21.78	5.46	
	<b>3DA-060L</b>	-30	25.20	4.87	23.99	4.93	22.72	4.98	21.36	5.00	19.90	4.98	18.30	4.93
		-35	21.66	4.50	20.53	4.54	19.33	4.55	18.03	4.53	16.60	4.48	15.02	4.38
		-40	18.48	4.12	17.39	4.12	16.22	4.10	14.94	4.05	13.51	3.95	11.91	3.81
<b>H0734</b>	-15	45.18	7.03	43.23	7.20	41.28	7.36	39.33	7.51	37.38	7.65	35.42	7.77	
	-20	39.62	6.62	37.91	6.77	36.19	6.90	34.45	7.01	32.69	7.12	30.92	7.20	
	-25	34.57	6.21	33.05	6.32	31.51	6.42	29.93	6.50	28.33	6.57	26.70	6.62	
	<b>3DB-075L</b>	-30	29.98	5.77	28.60	5.86	27.18	5.92	25.72	5.97	24.22	6.00	22.68	6.01
		-35	25.77	5.32	24.48	5.37	23.15	5.40	21.75	5.42	20.31	5.41	18.81	5.37
		-40	21.88	4.84	20.64	4.86	19.33	4.86	17.96	4.83	16.52	4.78	15.01	4.71

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND DISCUS COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0934</b>  <b>3DF-090L</b>	-15	55.28	8.54	52.90	8.73	50.52	8.91	48.15	9.09	45.76	9.25	43.34	9.40
	-20	48.37	7.99	46.26	8.16	44.16	8.31	42.05	8.45	39.92	8.58	37.75	8.70
	-25	42.09	7.44	40.22	7.58	38.35	7.70	36.46	7.81	34.54	7.91	32.58	7.99
	-30	36.41	6.89	34.73	6.99	33.04	7.08	31.33	7.16	29.58	7.22	27.78	7.27
	-35	31.26	6.34	29.73	6.41	28.18	6.47	26.60	6.51	24.98	6.54	23.30	6.54
	-40	26.60	5.79	25.18	5.83	23.72	5.85	22.23	5.86	20.69	5.85	19.09	5.82
<b>H1064</b>  <b>3DS-100L</b>	-15	62.36	9.66	59.63	9.87	56.84	10.07	54.03	10.25	51.21	10.42	48.43	10.56
	-20	54.80	9.05	52.36	9.23	49.86	9.39	47.32	9.54	44.79	9.66	42.29	9.77
	-25	47.86	8.43	45.66	8.57	43.40	8.70	41.11	8.81	38.81	8.89	36.55	8.96
	-30	41.50	7.80	39.51	7.91	37.44	8.00	35.35	8.06	33.26	8.11	31.19	8.13
	-35	35.70	7.17	33.86	7.24	31.96	7.29	30.02	7.31	28.08	7.32	26.17	7.29
	-40	30.43	6.54	28.70	6.57	26.91	6.58	25.09	6.56	23.27	6.52	21.47	6.45
<b>H1314</b>  <b>4DA-101L</b>	-15	64.19	9.84	61.37	10.11	58.54	10.36	55.66	10.57	52.67	10.74	49.51	10.85
	-20	56.54	9.29	54.02	9.51	51.46	9.70	48.81	9.85	46.02	9.95	43.03	9.99
	-25	49.53	8.72	47.22	8.88	44.84	9.01	42.34	9.08	39.65	9.10	36.73	9.05
	-30	42.97	8.10	40.78	8.19	38.49	8.25	36.05	8.24	33.38	8.17	30.45	8.02
	-35	36.67	7.41	34.52	7.44	32.23	7.41	29.74	7.31	27.01	7.13	23.97	6.87
	-40	30.43	6.65	28.23	6.59	25.85	6.47	23.24	6.27	20.35	5.98	17.11	5.60
<b>H1514</b>  <b>4DL-150L</b>	-15	84.66	13.11	81.00	13.45	77.45	13.79	73.87	14.10	70.12	14.37	66.05	14.58
	-20	74.99	12.40	71.76	12.70	68.60	12.98	65.36	13.23	61.91	13.43	58.10	13.56
	-25	66.06	11.68	63.21	11.93	60.39	12.15	57.44	12.33	54.24	12.45	50.63	12.50
	-30	57.68	10.91	55.17	11.10	52.62	11.26	49.92	11.37	46.91	11.41	43.45	11.38
	-35	49.66	10.08	47.42	10.22	45.11	10.31	42.59	10.34	39.72	10.31	36.36	10.18
	-40	41.79	9.18	39.77	9.25	37.64	9.28	35.26	9.23	32.48	9.11	29.17	8.89
<b>H2204</b>  <b>4DT-220L</b>	-15	103.05	15.59	97.86	15.93	92.83	16.26	87.92	16.56	83.12	16.83	78.41	17.05
	-20	90.99	14.68	86.37	14.97	81.84	15.23	77.36	15.46	72.91	15.64	68.47	15.77
	-25	79.74	13.74	75.60	13.97	71.47	14.15	67.32	14.29	63.13	14.37	58.88	14.40
	-30	69.17	12.75	65.42	12.90	61.60	13.00	57.69	13.04	53.66	13.02	49.50	12.94
	-35	59.16	11.69	55.69	11.75	52.09	11.75	48.32	11.69	44.36	11.56	40.20	11.35
	-40	49.55	10.54	46.28	10.50	42.80	10.40	39.08	10.23	35.10	9.98	30.84	9.64
<b>H2704</b>  <b>6DL-270L</b>	-15	128.64	19.60	122.83	20.06	117.08	20.47	111.28	20.84	105.29	21.15	99.00	21.38
	-20	112.57	18.37	107.40	18.75	102.23	19.07	96.95	19.34	91.43	19.53	85.55	19.64
	-25	97.74	17.11	93.10	17.40	88.41	17.63	83.55	17.78	78.39	17.85	72.82	17.82
	-30	84.17	15.83	79.95	16.01	75.63	16.13	71.09	16.16	66.19	16.10	60.81	15.92
	-35	71.87	14.50	67.98	14.58	63.92	14.58	59.58	14.48	54.83	14.27	49.55	13.94
	-40	60.86	13.14	57.18	13.10	53.29	12.97	49.05	12.73	44.35	12.37	39.06	11.88

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 10% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H3014</b>	-15	144.29	23.60	137.33	24.13	130.35	24.61	123.39	25.05	116.47	25.42	109.64	25.72
	-20	126.47	22.05	120.29	22.50	114.06	22.89	107.83	23.22	101.62	23.49	95.48	23.69
	-25	110.18	20.51	104.64	20.85	99.04	21.15	93.40	21.38	87.77	21.54	82.18	21.62
<b>6DT-300L</b>	-30	95.31	18.95	90.28	19.19	85.16	19.38	79.98	19.50	74.79	19.55	69.62	19.51
	-35	81.72	17.37	77.06	17.51	72.29	17.59	67.44	17.59	62.56	17.52	57.67	17.35
	-40	69.29	15.77	64.86	15.80	60.30	15.76	55.65	15.64	50.93	15.44	46.20	15.14

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND DISCUS COMPRESSORS  
R404a MEDIUM TEMPERATURE**

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp		
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	
<b>H0484</b>	35	61.49	4.32	58.25	4.51	55.04	4.68	51.87	4.85	48.73	5.01	45.63	5.16	
	30	55.08	4.24	52.18	4.41	49.30	4.57	46.45	4.71	43.64	4.85	40.85	4.98	
	25	49.15	4.14	46.56	4.29	43.98	4.42	41.44	4.55	38.92	4.67	36.43	4.78	
	20	43.69	4.02	41.37	4.14	39.08	4.26	36.82	4.37	34.58	4.47	32.36	4.57	
	<b>2DC-050L</b>	15	38.67	3.87	36.62	3.98	34.59	4.09	32.58	4.18	30.59	4.27	28.63	4.35
		10	34.09	3.72	32.28	3.81	30.49	3.90	28.72	3.98	26.96	4.05	25.22	4.12
		5	29.94	3.55	28.35	3.63	26.77	3.71	25.21	3.77	23.66	3.83	22.13	3.89
		0	26.20	3.38	24.81	3.45	23.42	3.51	22.05	3.57	20.69	3.61	19.34	3.66
<b>H0494</b>	35	73.21	5.08	69.62	5.31	66.01	5.52	62.38	5.73	58.72	5.92	55.03	6.10	
	30	65.79	4.99	62.54	5.19	59.28	5.38	56.01	5.56	52.71	5.73	49.38	5.89	
	25	58.86	4.86	55.94	5.04	53.01	5.21	50.07	5.37	47.11	5.52	44.13	5.65	
	20	52.44	4.71	49.82	4.87	47.20	5.02	44.57	5.16	41.94	5.28	39.28	5.40	
	<b>2DD-050L</b>	15	46.52	4.54	44.18	4.68	41.85	4.81	39.52	4.93	37.18	5.04	34.83	5.14
		10	41.10	4.35	39.03	4.48	36.96	4.59	34.90	4.69	32.84	4.79	30.78	4.88
		5	36.18	4.16	34.35	4.27	32.54	4.37	30.73	4.46	28.93	4.54	27.13	4.62
		0	31.77	3.96	30.16	4.06	28.57	4.14	27.00	4.23	25.43	4.30	23.87	4.36
<b>H0654</b>	35	89.07	6.32	84.75	6.60	80.44	6.87	76.14	7.12	71.85	7.37	67.56	7.60	
	30	80.07	6.20	76.20	6.44	72.33	6.68	68.48	6.91	64.63	7.13	60.78	7.33	
	25	71.75	6.04	68.29	6.26	64.84	6.47	61.39	6.67	57.95	6.86	54.51	7.04	
	20	64.09	5.86	61.01	6.05	57.93	6.24	54.86	6.42	51.80	6.58	48.74	6.74	
	<b>2DL-075L</b>	15	57.07	5.65	54.33	5.83	51.60	5.99	48.87	6.15	46.15	6.29	43.44	6.43
		10	50.65	5.43	48.23	5.58	45.81	5.73	43.40	5.86	40.99	5.99	38.58	6.11
		5	44.83	5.20	42.68	5.33	40.54	5.46	38.41	5.58	36.28	5.69	34.15	5.79
		0	39.58	4.96	37.68	5.07	35.78	5.19	33.90	5.29	32.01	5.38	30.13	5.47
<b>H0704</b>	35	102.01	7.26	97.13	7.58	92.23	7.88	87.32	8.17	82.41	8.45	77.51	8.72	
	30	91.93	7.12	87.56	7.40	83.16	7.67	78.75	7.93	74.34	8.17	69.95	8.41	
	25	82.68	6.94	78.77	7.20	74.84	7.44	70.89	7.66	66.94	7.88	63.00	8.09	
	20	74.21	6.75	70.72	6.97	67.20	7.18	63.67	7.38	60.14	7.57	56.61	7.75	
	<b>2DA-075L</b>	15	66.46	6.53	63.35	6.73	60.21	6.91	57.05	7.09	53.89	7.25	50.73	7.40
		10	59.38	6.29	56.60	6.47	53.80	6.63	50.98	6.78	48.15	6.92	45.32	7.05
		5	52.92	6.04	50.44	6.19	47.93	6.33	45.40	6.46	42.86	6.58	40.32	6.68
		0	47.04	5.78	44.81	5.90	42.55	6.02	40.26	6.13	37.97	6.23	35.67	6.32

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0724</b>	35	120.00	8.49	113.80	8.89	107.92	9.27	102.29	9.64	96.83	10.00	91.48	10.34
	30	108.03	8.36	102.57	8.71	97.39	9.06	92.42	9.40	87.60	9.73	82.85	10.04
	25	97.00	8.18	92.21	8.51	87.67	8.82	83.31	9.13	79.07	9.42	74.88	9.71
	20	86.87	7.97	82.69	8.27	78.73	8.55	74.93	8.83	71.21	9.10	67.51	9.35
<b>3DA-075L</b>	15	77.58	7.74	73.96	8.00	70.53	8.26	67.22	8.50	63.96	8.74	60.69	8.97
	10	69.11	7.47	65.98	7.71	63.02	7.93	60.14	8.15	57.29	8.36	54.40	8.56
	5	61.39	7.18	58.71	7.39	56.15	7.59	53.66	7.78	51.15	7.97	48.57	8.14
	0	54.39	6.86	52.09	7.04	49.89	7.22	47.71	7.39	45.50	7.55	43.18	7.71
<b>H1024</b>	35	141.13	10.35	134.54	10.81	127.99	11.27	121.46	11.71	114.94	12.15	108.43	12.57
	30	127.44	10.16	121.55	10.59	115.69	11.00	109.85	11.41	104.03	11.80	98.19	12.19
	25	114.84	9.93	109.61	10.32	104.39	10.70	99.19	11.07	93.99	11.43	88.78	11.78
	20	103.28	9.67	98.64	10.02	94.01	10.37	89.38	10.70	84.75	11.02	80.11	11.34
<b>3DB-100L</b>	15	92.68	9.37	88.56	9.69	84.46	10.00	80.36	10.30	76.25	10.59	72.11	10.87
	10	82.95	9.05	79.32	9.33	75.69	9.61	72.05	9.87	68.39	10.13	64.71	10.38
	5	74.03	8.69	70.82	8.95	67.60	9.19	64.37	9.43	61.12	9.65	57.83	9.86
	0	65.85	8.31	63.00	8.54	60.14	8.75	57.26	8.96	54.35	9.15	51.40	9.33
<b>H1204</b>	35	175.60	13.26	167.15	13.82	158.77	14.37	150.45	14.91	142.19	15.43	133.97	15.94
	30	158.43	12.94	150.88	13.45	143.39	13.95	135.97	14.43	128.59	14.91	121.25	15.36
	25	142.64	12.59	135.92	13.05	129.26	13.50	122.65	13.94	116.09	14.36	109.56	14.77
	20	128.14	12.20	122.18	12.62	116.28	13.02	110.42	13.41	104.60	13.79	98.81	14.16
<b>3DF-120L</b>	15	114.86	11.79	109.59	12.16	104.37	12.52	99.20	12.87	94.05	13.21	88.92	13.54
	10	102.72	11.34	98.07	11.68	93.47	12.00	88.90	12.31	84.35	12.61	79.82	12.91
	5	91.64	10.88	87.54	11.17	83.48	11.46	79.45	11.74	75.44	12.01	71.43	12.27
	0	81.54	10.39	77.92	10.65	74.34	10.91	70.77	11.16	67.22	11.39	63.67	11.62
<b>H1464</b>	35	194.47	14.68	185.10	15.31	175.82	15.92	166.61	16.51	157.46	17.09	148.36	17.65
	30	175.45	14.33	167.09	14.90	158.80	15.45	150.57	15.99	142.40	16.51	134.28	17.01
	25	157.96	13.94	150.52	14.45	143.14	14.95	135.83	15.43	128.56	15.90	121.33	16.36
	20	141.90	13.51	135.31	13.97	128.77	14.42	122.28	14.85	115.84	15.27	109.42	15.68
<b>3DS-150L</b>	15	127.20	13.05	121.37	13.46	115.59	13.87	109.85	14.25	104.15	14.63	98.47	14.99
	10	113.75	12.56	108.61	12.93	103.51	13.29	98.45	13.63	93.42	13.97	88.40	14.29
	5	101.48	12.04	96.95	12.37	92.45	12.69	87.99	13.00	83.54	13.30	79.11	13.58
	0	90.30	11.50	86.29	11.80	82.33	12.08	78.38	12.35	74.44	12.62	70.51	12.87

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND DISCUS COMPRESSORS  
R404a MEDIUM TEMPERATURE (Continued)**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H1964</b>  <b>4DA-200L</b>	35	208.91	15.00	198.01	15.64	187.08	16.24	176.17	16.80	165.29	17.33	154.50	17.84
	30	188.93	14.72	178.95	15.29	168.95	15.82	158.98	16.31	149.05	16.78	139.21	17.22
	25	170.12	14.39	161.01	14.90	151.90	15.36	142.81	15.79	133.78	16.19	124.85	16.57
	20	152.48	14.02	144.20	14.46	135.93	14.86	127.68	15.22	119.50	15.56	111.43	15.88
	15	136.05	13.60	128.55	13.97	121.05	14.31	113.61	14.61	106.23	14.89	98.97	15.15
	10	120.82	13.12	114.05	13.44	107.30	13.72	100.60	13.96	93.98	14.18	87.48	14.38
	5	106.81	12.59	100.73	12.85	94.68	13.07	88.68	13.26	82.77	13.42	76.99	13.57
	0	94.05	12.00	88.61	12.20	83.20	12.37	77.86	12.51	72.61	12.62	67.50	12.72
<b>H2504</b>  <b>4DH-250L</b>	35	262.05	19.64	248.79	20.49	235.98	21.30	223.55	22.07	211.42	22.80	199.51	23.50
	30	238.17	19.20	226.14	19.96	214.51	20.69	203.20	21.38	192.15	22.04	181.29	22.67
	25	215.25	18.68	204.38	19.37	193.87	20.02	183.64	20.65	173.61	21.24	163.73	21.81
	20	193.45	18.12	183.69	18.73	174.23	19.31	165.02	19.87	155.96	20.40	147.00	20.91
	15	172.93	17.51	164.22	18.05	155.77	18.57	147.51	19.06	139.37	19.54	131.28	19.99
	10	153.86	16.85	146.14	17.33	138.64	17.79	131.29	18.23	124.00	18.65	116.72	19.06
	5	136.41	16.17	129.63	16.59	123.02	17.00	116.51	17.38	110.03	17.76	103.50	18.12
	0	120.75	15.46	114.85	15.83	109.08	16.18	103.36	16.53	97.62	16.86	91.78	17.17
<b>H2824</b>  <b>4DJ-300L</b>	35	317.80	24.43	302.21	25.41	286.76	26.35	271.38	27.25	256.03	28.13	240.64	28.97
	30	287.09	23.79	272.96	24.67	258.97	25.52	245.06	26.34	231.17	27.13	217.23	27.89
	25	258.46	23.06	245.71	23.85	233.10	24.62	220.57	25.35	208.06	26.05	195.50	26.74
	20	231.83	22.25	220.39	22.96	209.08	23.64	197.86	24.30	186.65	24.92	175.40	25.53
	15	207.16	21.38	196.95	22.01	186.87	22.61	176.88	23.19	166.90	23.74	156.87	24.28
	10	184.40	20.45	175.34	21.01	166.41	21.54	157.57	22.04	148.74	22.53	139.86	22.99
	5	163.49	19.48	155.50	19.97	147.65	20.43	139.88	20.87	132.12	21.29	124.31	21.69
	0	144.38	18.48	137.38	18.90	130.53	19.30	123.75	19.68	116.98	20.03	110.17	20.38

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0304</b>	45	60.75	3.48	58.49	3.65	56.26	3.82	54.06	3.98	51.90	4.13	49.76	4.28
	40	54.48	3.41	52.44	3.57	50.44	3.71	48.45	3.86	46.50	3.99	44.57	4.13
	35	48.72	3.33	46.89	3.47	45.09	3.60	43.30	3.72	41.54	3.85	39.79	3.96
	30	43.42	3.23	41.79	3.35	40.18	3.47	38.58	3.58	37.00	3.69	35.42	3.79
<b>2DF-030L</b>	25	38.57	3.13	37.13	3.23	35.69	3.34	34.26	3.43	32.84	3.53	31.42	3.62
	20	34.14	3.01	32.86	3.10	31.58	3.19	30.31	3.28	29.03	3.36	27.75	3.44
	15	30.09	2.88	28.96	2.96	27.82	3.04	26.69	3.12	25.54	3.19	24.39	3.25
	10	26.39	2.74	25.39	2.82	24.39	2.88	23.38	2.95	22.35	3.01	21.31	3.07
<b>H0504</b>	45	76.35	4.37	73.54	4.59	70.76	4.80	68.01	5.00	65.29	5.19	62.60	5.38
	40	68.43	4.28	65.90	4.48	63.39	4.67	60.91	4.85	58.45	5.02	56.01	5.18
	35	61.14	4.18	58.87	4.35	56.62	4.52	54.39	4.68	52.17	4.83	49.95	4.98
	30	54.45	4.06	52.42	4.22	50.41	4.36	48.40	4.50	46.40	4.64	44.41	4.76
<b>2DA-060L</b>	25	48.32	3.93	46.52	4.06	44.72	4.19	42.93	4.32	41.13	4.43	39.33	4.54
	20	42.72	3.78	41.12	3.90	39.52	4.01	37.92	4.12	36.31	4.22	34.69	4.32
	15	37.60	3.62	36.19	3.72	34.78	3.82	33.35	3.92	31.91	4.00	30.45	4.08
	10	32.94	3.45	31.70	3.54	30.45	3.62	29.18	3.71	27.89	3.78	26.57	3.85
<b>H0524</b>	45	80.02	4.58	77.07	4.80	74.15	5.02	71.26	5.24	68.40	5.44	65.57	5.64
	40	71.72	4.49	69.06	4.69	66.43	4.89	63.82	5.08	61.23	5.26	58.66	5.43
	35	64.09	4.38	61.70	4.56	59.33	4.74	56.98	4.90	54.65	5.06	52.33	5.22
	30	57.07	4.26	54.94	4.42	52.82	4.57	50.72	4.72	48.62	4.86	46.52	4.99
<b>2DB-060L</b>	25	50.65	4.12	48.76	4.26	46.87	4.39	44.98	4.52	43.10	4.65	41.21	4.76
	20	44.78	3.96	43.10	4.09	41.42	4.21	39.74	4.32	38.05	4.42	36.35	4.52
	15	39.42	3.80	37.95	3.90	36.46	4.01	34.96	4.11	33.44	4.20	31.91	4.28
	10	34.55	3.62	33.25	3.71	31.93	3.80	30.59	3.89	29.24	3.96	27.86	4.04
<b>H0604</b>	45	91.08	5.36	87.74	5.63	84.47	5.89	81.27	6.15	78.13	6.40	75.05	6.65
	40	81.69	5.28	78.70	5.52	75.77	5.75	72.90	5.99	70.08	6.21	67.31	6.44
	35	73.08	5.16	70.41	5.38	67.80	5.59	65.23	5.80	62.70	6.01	60.21	6.20
	30	65.19	5.03	62.82	5.22	60.49	5.42	58.19	5.60	55.92	5.78	53.68	5.95
<b>3DA-060L</b>	25	57.98	4.87	55.87	5.05	53.79	5.22	51.73	5.38	49.69	5.53	47.67	5.68
	20	51.39	4.70	49.51	4.85	47.65	5.00	45.80	5.13	43.96	5.27	42.13	5.39
	15	45.36	4.50	43.68	4.63	42.01	4.76	40.34	4.87	38.67	4.98	36.99	5.08
	10	39.83	4.29	38.32	4.40	36.81	4.50	35.29	4.59	33.76	4.68	32.21	4.76

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAND DISCUS COMPRESSORS  
R134a HIGH TEMPERATURE (Continued)**

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp		
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	
<b>H0734</b>	45	107.02	6.32	103.10	6.63	99.24	6.93	95.44	7.24	91.68	7.54	87.96	7.83	
	40	95.88	6.22	92.39	6.50	88.94	6.78	85.53	7.05	82.17	7.32	78.83	7.58	
	35	85.71	6.09	82.59	6.35	79.52	6.60	76.47	6.84	73.46	7.08	70.47	7.31	
	30	76.41	5.94	73.64	6.16	70.90	6.39	68.19	6.60	65.49	6.81	62.81	7.02	
	<b>3DB-075L</b>	25	67.93	5.75	65.47	5.96	63.03	6.15	60.60	6.34	58.19	6.52	55.78	6.70
		20	60.19	5.55	58.00	5.73	55.82	5.90	53.65	6.06	51.48	6.21	49.31	6.36
		15	53.12	5.32	51.16	5.47	49.21	5.62	47.25	5.75	45.29	5.88	43.31	5.99
		10	46.64	5.07	44.88	5.19	43.12	5.31	41.34	5.42	39.55	5.52	37.73	5.61
<b>H0934</b>	45	125.60	7.86	121.12	8.20	116.64	8.54	112.20	8.88	107.82	9.22	103.54	9.56	
	40	112.76	7.67	108.69	7.99	104.63	8.30	100.60	8.61	96.63	8.92	92.77	9.22	
	35	101.03	7.47	97.36	7.76	93.68	8.04	90.03	8.32	86.45	8.60	82.96	8.87	
	30	90.33	7.25	87.01	7.51	83.68	7.77	80.39	8.02	77.16	8.26	74.02	8.50	
	<b>3DF-090L</b>	25	80.53	7.01	77.54	7.25	74.55	7.48	71.58	7.69	68.67	7.90	65.85	8.11
		20	71.56	6.75	68.87	6.96	66.16	7.15	63.49	7.34	60.87	7.52	58.35	7.68
		15	63.30	6.47	60.87	6.64	58.44	6.80	56.03	6.96	53.67	7.10	51.41	7.23
		10	55.65	6.15	53.47	6.29	51.27	6.42	49.09	6.54	46.97	6.64	44.94	6.74
<b>H1064</b>	45	139.06	8.68	134.20	9.06	129.33	9.43	124.49	9.80	119.70	10.18	114.98	10.55	
	40	124.72	8.48	120.31	8.83	115.89	9.17	111.49	9.51	107.15	9.85	102.87	10.19	
	35	111.63	8.26	107.63	8.58	103.63	8.89	99.65	9.20	95.72	9.51	91.87	9.81	
	30	99.69	8.02	96.07	8.31	92.46	8.59	88.86	8.87	85.32	9.14	81.85	9.40	
	<b>3DS-100L</b>	25	88.77	7.75	85.51	8.01	82.26	8.26	79.02	8.50	75.83	8.73	72.71	8.96
		20	78.79	7.46	75.86	7.69	72.92	7.90	70.01	8.11	67.15	8.30	64.35	8.49
		15	69.63	7.14	66.99	7.33	64.35	7.51	61.73	7.68	59.16	7.83	56.66	7.98
		10	61.18	6.78	58.81	6.94	56.43	7.08	54.08	7.21	51.77	7.33	49.53	7.43
<b>H1414</b>	45	203.60	11.91	196.48	12.52	189.15	13.11	181.53	13.69	173.55	14.24	165.13	14.77	
	40	183.41	11.62	177.06	12.17	170.51	12.70	163.71	13.21	156.58	13.71	149.04	14.17	
	35	163.95	11.28	158.30	11.78	152.49	12.25	146.45	12.71	140.11	13.14	133.39	13.55	
	30	145.42	10.91	140.41	11.35	135.28	11.77	129.94	12.17	124.32	12.55	118.36	12.91	
	<b>4DH-150L</b>	25	128.02	10.50	123.60	10.89	119.08	11.26	114.38	11.61	109.44	11.94	104.17	12.25
		20	111.96	10.06	108.06	10.40	104.10	10.73	99.98	11.03	95.64	11.32	91.02	11.57
		15	97.43	9.60	94.01	9.90	90.53	10.18	86.94	10.44	83.15	10.68	79.10	10.89
		10	84.65	9.12	81.63	9.38	78.59	9.62	75.46	9.84	72.16	10.04	68.63	10.21

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H1914</b>	45	242.96	14.21	234.46	14.94	225.71	15.65	216.62	16.33	207.09	16.99	197.05	17.62
	40	218.87	13.87	211.28	14.52	203.48	15.16	195.36	15.77	186.85	16.36	177.86	16.91
	35	195.64	13.47	188.90	14.05	181.97	14.62	174.76	15.17	167.19	15.68	159.17	16.17
	30	173.53	13.02	167.56	13.54	161.43	14.04	155.06	14.53	148.36	14.98	141.24	15.40
<b>4DJ-200L</b>	25	152.77	12.53	147.49	12.99	142.10	13.44	136.49	13.86	130.59	14.25	124.31	14.61
	20	133.60	12.01	128.95	12.41	124.22	12.80	119.31	13.17	114.13	13.50	108.61	13.81
	15	116.26	11.46	112.18	11.81	108.03	12.15	103.74	12.46	99.23	12.74	94.39	13.00
	10	101.01	10.88	97.41	11.19	93.78	11.48	90.04	11.74	86.11	11.98	81.90	12.18
<b>H2314</b>	45	305.39	17.87	294.71	18.78	283.70	19.67	272.27	20.53	260.30	21.36	247.68	22.15
	40	275.10	17.43	265.57	18.25	255.76	19.05	245.56	19.82	234.86	20.56	223.56	21.26
	35	245.91	16.93	237.44	17.66	228.73	18.38	219.67	19.06	210.15	19.72	200.07	20.33
	30	218.12	16.36	210.61	17.02	202.91	17.65	194.90	18.26	186.48	18.83	177.54	19.36
<b>6DH-200L</b>	25	192.02	15.75	185.40	16.33	178.61	16.89	171.57	17.42	164.15	17.92	156.25	18.37
	20	167.93	15.09	162.09	15.61	156.14	16.09	149.97	16.55	143.47	16.98	136.52	17.36
	15	146.15	14.40	141.01	14.85	135.80	15.27	130.41	15.66	124.73	16.02	118.65	16.34
	10	126.97	13.68	122.44	14.07	117.88	14.43	113.19	14.76	108.24	15.06	102.95	15.31
<b>H2814</b>	45	364.44	21.32	351.70	22.41	338.57	23.47	324.93	24.50	310.64	25.49	295.59	26.43
	40	328.30	20.80	316.93	21.78	305.22	22.73	293.04	23.65	280.28	24.54	266.79	25.37
	35	293.46	20.20	283.35	21.08	272.95	21.93	262.14	22.75	250.79	23.53	238.76	24.26
	30	260.29	19.53	251.34	20.31	242.14	21.07	232.59	21.79	222.54	22.47	211.86	23.11
<b>6DJ-300L</b>	25	229.15	18.80	221.24	19.49	213.15	20.16	204.74	20.79	195.89	21.38	186.46	21.92
	20	200.40	18.01	193.43	18.62	186.33	19.20	178.96	19.75	171.20	20.26	162.92	20.71
	15	174.40	17.19	168.27	17.72	162.05	18.22	155.62	18.69	148.84	19.12	141.59	19.49
	10	151.51	16.33	146.11	16.79	140.67	17.22	135.07	17.61	129.17	17.97	122.85	18.27

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
COPELAWELD HERMETIC COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE**

HIRU Model Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0152</b>	45	22.94	1.46	21.93	1.53	20.90	1.59	19.88	1.65	18.85	1.70	17.81	1.75
	40	20.21	1.44	19.25	1.50	18.30	1.55	17.34	1.59	16.38	1.63	15.42	1.67
	35	17.65	1.41	16.76	1.45	15.87	1.49	14.98	1.53	14.10	1.56	13.22	1.58
	<b>CRA-0150</b> 30	15.28	1.36	14.45	1.39	13.62	1.42	12.81	1.45	12.00	1.47	11.19	1.49
<b>H0202</b>	45	30.25	1.95	28.92	2.04	27.59	2.12	26.27	2.19	24.95	2.26	23.64	2.32
	40	26.71	1.92	25.49	1.99	24.27	2.06	23.06	2.12	21.86	2.18	20.66	2.23
	35	23.46	1.87	22.34	1.94	21.23	1.99	20.12	2.04	19.03	2.09	17.94	2.13
	<b>CRD-0200</b> 30	20.47	1.82	19.45	1.87	18.43	1.91	17.43	1.95	16.44	1.99	15.46	2.02
<b>H0252</b>	45	41.53	2.68	39.62	2.78	37.72	2.87	35.83	2.96	33.96	3.05	32.09	3.13
	40	36.48	2.61	34.72	2.70	32.97	2.78	31.24	2.86	29.52	2.93	27.83	3.00
	35	31.86	2.54	30.24	2.61	28.63	2.68	27.05	2.75	25.49	2.81	23.96	2.86
	<b>CRG-0250</b> 30	27.66	2.45	26.17	2.52	24.70	2.57	23.27	2.63	21.86	2.67	20.49	2.72
<b>H0312</b>	45	48.35	3.11	46.12	3.23	43.90	3.34	41.69	3.45	39.49	3.55	37.31	3.65
	40	42.45	3.02	40.39	3.12	38.35	3.22	36.34	3.32	34.34	3.41	32.37	3.50
	35	37.05	2.92	35.16	3.02	33.31	3.10	31.48	3.19	29.67	3.27	27.90	3.34
	<b>CRJ-0300</b> 30	32.14	2.82	30.43	2.90	28.74	2.98	27.09	3.05	25.48	3.12	23.90	3.18
<b>H0352</b>	45	59.10	3.93	56.69	4.08	54.21	4.22	51.67	4.35	49.06	4.46	46.40	4.55
	40	52.44	3.81	50.16	3.94	47.82	4.06	45.43	4.16	42.99	4.25	40.53	4.32
	35	46.08	3.66	43.94	3.77	41.75	3.87	39.53	3.95	37.28	4.03	35.02	4.08
	<b>CRL-0350</b> 30	40.07	3.49	38.08	3.59	36.06	3.67	34.03	3.73	31.98	3.79	29.94	3.84
<b>H0402</b>	45	63.90	4.41	61.57	4.59	59.19	4.76	56.77	4.91	54.29	5.06	51.77	5.18
	40	57.18	4.31	55.03	4.47	52.83	4.62	50.59	4.75	48.29	4.87	45.93	4.97
	35	50.88	4.19	48.88	4.33	46.85	4.45	44.76	4.56	42.62	4.65	40.42	4.73
	<b>CRM-0400</b> 30	44.96	4.04	43.11	4.15	41.21	4.26	39.26	4.34	37.26	4.42	35.20	4.47
<b>H0502</b>	45	75.12	5.06	72.36	5.30	69.59	5.53	66.81	5.75	64.02	5.95	61.22	6.14
	40	67.17	4.99	64.65	5.20	62.12	5.40	59.58	5.58	57.03	5.76	54.48	5.92
	35	59.86	4.88	57.56	5.07	55.25	5.23	52.93	5.39	50.60	5.54	48.27	5.67
	<b>CRN-0500</b> 30	53.15	4.75	51.04	4.90	48.93	5.04	46.80	5.17	44.67	5.29	42.53	5.40
<b>H0752</b>	45	120.22	7.87	115.19	8.19	110.20	8.49	105.14	8.76	100.10	9.01	95.13	9.24
	40	106.67	7.65	102.00	7.92	97.35	8.18	92.72	8.41	88.11	8.62	83.52	8.81
	35	94.23	7.40	89.90	7.63	85.59	7.84	81.32	8.04	77.08	8.21	72.87	8.36
	<b>BRE-0750</b> 30	82.81	7.12	78.78	7.31	74.80	7.48	70.85	7.63	66.95	7.77	63.08	7.88
<b>H0902</b>	45	134.28	8.92	128.83	9.27	123.40	9.59	118.01	9.90	112.60	10.19	107.29	10.46
	40	119.36	8.65	114.43	8.96	109.50	9.26	104.63	9.53	99.76	9.78	94.90	10.01
	35	105.74	8.37	101.28	8.65	96.82	8.90	92.38	9.13	87.94	9.35	83.52	9.54
	<b>BRG-0900</b> 30	93.29	8.07	89.25	8.31	85.20	8.52	81.15	8.72	77.09	8.89	73.03	9.04

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0317</b>	40	41.02	2.35	39.68	2.52	38.32	2.69	36.95	2.84	35.57	2.99	34.17	3.12
	35	36.82	2.39	35.58	2.54	34.33	2.69	33.05	2.82	31.77	2.94	30.47	3.06
	30	32.90	2.41	31.75	2.54	30.58	2.66	29.40	2.78	28.21	2.88	27.00	2.98
<b>06DM-808</b>	25	29.23	2.41	28.17	2.52	27.09	2.62	25.99	2.72	24.89	2.80	23.77	2.88
	20	25.83	2.39	24.84	2.48	23.84	2.56	22.83	2.64	21.80	2.70	20.77	2.76
	15	22.69	2.34	21.77	2.41	20.84	2.48	19.90	2.53	18.95	2.58	18.00	2.62
	10	19.80	2.27	18.94	2.33	18.08	2.38	17.21	2.41	16.33	2.44	15.45	2.46
<b>H0457</b>	40	65.40	3.87	62.95	4.10	60.51	4.32	58.07	4.52	55.62	4.71	53.17	4.89
	35	58.30	3.89	56.05	4.09	53.79	4.27	51.54	4.45	49.29	4.61	47.04	4.76
	30	51.69	3.87	49.62	4.05	47.54	4.20	45.47	4.35	43.40	4.48	41.34	4.60
<b>06DM-313</b>	25	45.57	3.83	43.66	3.98	41.75	4.11	39.85	4.23	37.95	4.33	36.06	4.42
	20	39.93	3.76	38.17	3.88	36.41	3.98	34.67	4.08	32.93	4.16	31.20	4.22
	15	34.75	3.66	33.13	3.75	31.53	3.83	29.93	3.90	28.34	3.95	26.76	3.99
	10	30.05	3.53	28.56	3.60	27.09	3.66	25.62	3.70	24.17	3.73	22.73	3.74
<b>H0527</b>	40	80.62	5.15	77.68	5.46	74.74	5.77	71.80	6.07	68.87	6.36	65.93	6.63
	35	72.20	5.07	69.51	5.35	66.82	5.63	64.15	5.89	61.47	6.15	58.80	6.39
	30	64.35	4.97	61.89	5.22	59.44	5.46	57.00	5.70	54.57	5.92	52.15	6.13
<b>06DM-316</b>	25	57.05	4.84	54.81	5.07	52.58	5.28	50.37	5.48	48.16	5.67	45.97	5.85
	20	50.31	4.69	48.27	4.89	46.24	5.07	44.23	5.24	42.23	5.40	40.25	5.55
	15	44.12	4.52	42.26	4.68	40.42	4.84	38.59	4.98	36.78	5.11	34.99	5.23
	10	38.47	4.32	36.78	4.45	35.11	4.58	33.45	4.70	31.81	4.80	30.19	4.89
<b>H0677</b>	40	105.12	6.56	101.87	6.95	98.64	7.34	95.42	7.72	92.23	8.09	89.05	8.46
	35	94.85	6.51	91.90	6.87	88.97	7.23	86.06	7.57	83.17	7.92	80.30	8.26
	30	85.28	6.44	82.61	6.77	79.96	7.09	77.33	7.41	74.72	7.73	72.12	8.04
<b>06DR-820</b>	25	76.38	6.35	73.97	6.65	71.58	6.94	69.21	7.24	66.85	7.52	64.52	7.80
	20	68.15	6.23	65.98	6.50	63.83	6.77	61.70	7.04	59.58	7.30	57.48	7.55
	15	60.59	6.09	58.64	6.34	56.71	6.58	54.79	6.82	52.89	7.06	51.01	7.29
	10	53.68	5.92	51.93	6.15	50.20	6.37	48.49	6.58	46.79	6.80	45.10	7.00
<b>H0687</b>	40	127.24	7.77	122.82	8.21	118.43	8.65	114.06	9.08	109.72	9.50	105.39	9.91
	35	113.99	7.70	109.97	8.10	105.97	8.50	101.99	8.89	98.05	9.27	94.13	9.65
	30	101.69	7.59	98.02	7.96	94.38	8.32	90.77	8.67	87.20	9.02	83.65	9.36
<b>06DR-724</b>	25	90.30	7.45	86.96	7.78	83.66	8.11	80.39	8.43	77.15	8.74	73.95	9.04
	20	79.82	7.28	76.79	7.58	73.80	7.87	70.83	8.16	67.91	8.43	65.01	8.70
	15	70.23	7.08	67.49	7.34	64.78	7.60	62.10	7.85	59.46	8.10	56.85	8.33
	10	61.54	6.84	59.06	7.08	56.61	7.31	54.19	7.52	51.80	7.73	49.44	7.93

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
CARLYLE COMPRESSORS  
R22 MEDIUM/HIGH TEMPERATURE  
(Continued)**

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0767</b>	40	148.67	9.11	143.55	9.63	138.47	10.14	133.46	10.63	128.49	11.12	123.58	11.59
	35	133.27	9.01	128.63	9.48	124.04	9.94	119.51	10.39	115.04	10.83	110.62	11.26
	30	118.99	8.87	114.79	9.30	110.65	9.72	106.57	10.12	102.55	10.52	98.58	10.90
<b>06DR-228</b>	25	105.80	8.70	102.02	9.08	98.29	9.46	94.62	9.82	91.01	10.17	87.46	10.52
	20	93.69	8.49	90.29	8.83	86.94	9.17	83.65	9.49	80.41	9.80	77.24	10.11
	15	82.66	8.25	79.60	8.55	76.60	8.85	73.65	9.13	70.76	9.41	67.92	9.67
	10	72.68	7.96	69.94	8.23	67.25	8.49	64.62	8.74	62.03	8.98	59.50	9.21
	40	191.58	12.27	185.06	13.07	178.58	13.85	172.17	14.60	165.81	15.32	159.51	16.02
<b>H1027</b>	35	172.18	12.15	166.26	12.87	160.38	13.56	154.56	14.24	148.79	14.89	143.07	15.51
	30	154.11	11.97	148.74	12.61	143.42	13.23	138.14	13.83	132.92	14.41	127.74	14.96
	25	137.34	11.73	132.48	12.30	127.68	12.85	122.92	13.38	118.20	13.89	113.53	14.38
<b>06DM-337</b>	20	121.85	11.43	117.48	11.94	113.15	12.42	108.86	12.89	104.62	13.33	100.42	13.75
	15	107.64	11.08	103.70	11.52	99.81	11.95	95.96	12.35	92.16	12.73	88.40	13.10
	10	94.69	10.67	91.16	11.06	87.67	11.42	84.22	11.77	80.82	12.10	77.47	12.41

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by 4% for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0227</b>	-15	13.49	2.16	12.83	2.18	12.16	2.20	11.50	2.22	10.84	2.24	10.16	2.25
	-20	11.66	2.00	11.08	2.02	10.50	2.04	9.92	2.05	9.33	2.06	8.74	2.07
	-25	10.01	1.85	9.51	1.87	9.00	1.88	8.49	1.88	7.98	1.89	7.47	1.89
<b>06DR-109</b>	-30	8.54	1.71	8.10	1.72	7.66	1.72	7.22	1.72	6.78	1.73	6.33	1.72
	-35	7.23	1.57	6.85	1.57	6.46	1.57	6.08	1.57	5.70	1.57	5.31	1.56
	-40	6.06	1.43	5.73	1.43	5.40	1.43	5.07	1.43	4.73	1.42	4.40	1.42
<b>H0337</b>	-15	17.74	2.89	16.59	2.91	15.46	2.92	14.35	2.92	13.25	2.92	12.17	2.91
	-20	14.91	2.62	13.90	2.63	12.92	2.63	11.95	2.62	10.99	2.60	10.05	2.58
	-25	12.39	2.36	11.51	2.35	10.66	2.34	9.82	2.32	8.99	2.29	8.18	2.26
<b>06DR-013</b>	-30	10.17	2.09	9.41	2.08	8.67	2.06	7.94	2.03	7.23	1.99	6.53	1.95
	-35	8.21	1.84	7.56	1.81	6.92	1.78	6.29	1.74	5.68	1.70	5.08	1.65
	-40	6.51	1.59	5.94	1.55	5.39	1.51	4.85	1.47	4.32	1.41	3.80	1.36
<b>H0477</b>	-15	25.04	3.95	23.74	4.03	22.43	4.10	21.10	4.17	19.75	4.22	18.38	4.27
	-20	21.52	3.68	20.35	3.74	19.17	3.80	17.98	3.84	16.77	3.88	15.54	3.91
	-25	18.32	3.41	17.27	3.45	16.21	3.49	15.14	3.51	14.06	3.53	12.97	3.53
<b>06DR-316</b>	-30	15.41	3.13	14.47	3.15	13.53	3.17	12.57	3.17	11.61	3.17	10.63	3.16
	-35	12.78	2.84	11.94	2.85	11.10	2.85	10.25	2.83	9.39	2.81	8.51	2.78
	-40	10.41	2.55	9.66	2.54	8.90	2.52	8.14	2.49	7.38	2.44	6.60	2.39
<b>H0537</b>	-15	30.33	4.76	28.95	4.85	27.54	4.94	26.11	5.01	24.63	5.08	23.12	5.15
	-20	26.37	4.44	25.12	4.51	23.85	4.58	22.55	4.63	21.22	4.68	19.85	4.72
	-25	22.75	4.11	21.62	4.16	20.47	4.21	19.29	4.25	18.09	4.27	16.85	4.29
<b>06DR-718</b>	-30	19.43	3.78	18.41	3.81	17.37	3.84	16.31	3.85	15.22	3.86	14.11	3.86
	-35	16.40	3.44	15.48	3.46	14.54	3.46	13.58	3.46	12.60	3.45	11.60	3.42
	-40	13.64	3.11	12.80	3.10	11.95	3.09	11.09	3.07	10.20	3.03	9.30	2.98
<b>H0677</b>	-15	33.94	5.17	32.26	5.28	30.56	5.37	28.83	5.45	27.08	5.52	25.30	5.58
	-20	29.30	4.83	27.79	4.90	26.26	4.97	24.71	5.03	23.14	5.08	21.54	5.11
	-25	25.07	4.47	23.71	4.53	22.35	4.57	20.96	4.61	19.56	4.63	18.13	4.64
<b>06DR-820</b>	-30	21.23	4.11	20.02	4.14	18.79	4.17	17.56	4.18	16.30	4.18	15.03	4.17
	-35	17.75	3.75	16.67	3.76	15.57	3.76	14.47	3.75	13.36	3.73	12.23	3.69
	-40	14.61	3.38	13.64	3.37	12.66	3.35	11.68	3.32	10.69	3.28	9.69	3.22
<b>H0687</b>	-15	36.89	5.71	34.92	5.78	32.92	5.84	30.89	5.88	28.85	5.91	26.77	5.92
	-20	31.61	5.27	29.83	5.31	28.02	5.34	26.20	5.36	24.35	5.36	22.48	5.34
	-25	26.80	4.82	25.18	4.84	23.56	4.84	21.92	4.83	20.26	4.80	18.58	4.76
<b>06DR-724</b>	-30	22.42	4.36	20.96	4.36	19.50	4.34	18.02	4.30	16.54	4.25	15.04	4.18
	-35	18.45	3.91	17.14	3.88	15.82	3.83	14.50	3.77	13.16	3.69	11.82	3.60
	-40	14.86	3.45	13.67	3.40	12.49	3.33	11.30	3.24	10.11	3.14	8.91	3.01

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
CARLYLE COMPRESSORS  
R404a LOW TEMPERATURE (Continued)**

HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0767</b>	-15	46.83	7.17	44.66	7.30	42.42	7.42	40.12	7.52	37.75	7.60	35.29	7.65
	-20	40.64	6.67	38.64	6.77	36.59	6.84	34.47	6.90	32.28	6.92	30.02	6.93
	-25	34.91	6.15	33.07	6.21	31.17	6.24	29.22	6.24	27.20	6.23	25.11	6.18
<b>06DR-228</b>	-30	29.61	5.61	27.90	5.62	26.15	5.61	24.34	5.57	22.47	5.51	20.54	5.42
	-35	24.71	5.04	23.12	5.01	21.48	4.95	19.80	4.87	18.07	4.77	16.28	4.63
	-40	20.17	4.45	18.68	4.38	17.15	4.28	15.57	4.16	13.95	4.01	12.28	3.84
<b>H1107</b>	-15	61.54	9.61	58.37	9.78	55.23	9.95	52.12	10.10	49.03	10.24	45.96	10.38
	-20	53.80	8.92	51.01	9.06	48.25	9.20	45.51	9.32	42.80	9.44	40.10	9.55
	-25	46.85	8.24	44.41	8.36	41.98	8.47	39.58	8.57	37.20	8.66	34.84	8.75
<b>06DR-337</b>	-30	40.63	7.58	38.48	7.68	36.36	7.76	34.26	7.84	32.18	7.91	30.12	7.98
	-35	35.06	6.95	33.18	7.02	31.32	7.08	29.49	7.14	27.67	7.20	25.87	7.25
	-40	30.09	6.34	28.44	6.39	26.80	6.44	25.19	6.49	23.60	6.53	22.02	6.56

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0317</b>	45	51.40	3.29	48.86	3.44	46.30	3.58	43.74	3.72	41.17	3.85	38.57	3.97
	40	46.13	3.24	43.82	3.37	41.49	3.49	39.16	3.61	36.82	3.73	34.46	3.84
	35	41.27	3.17	39.17	3.29	37.06	3.40	34.95	3.51	32.82	3.60	30.68	3.70
	30	36.80	3.10	34.89	3.20	32.99	3.30	31.07	3.39	29.15	3.47	27.22	3.55
<b>06DM-808</b>	25	32.68	3.01	30.96	3.10	29.25	3.18	27.52	3.26	25.79	3.33	24.05	3.39
	20	28.91	2.92	27.36	2.99	25.82	3.06	24.27	3.12	22.71	3.18	21.15	3.22
	15	25.46	2.81	24.07	2.88	22.68	2.93	21.29	2.98	19.90	3.02	18.49	3.05
	10	22.30	2.70	21.05	2.75	19.81	2.79	18.57	2.82	17.32	2.85	16.07	2.86
<b>H0457</b>	45	81.98	4.83	77.87	5.03	73.71	5.24	69.51	5.43	65.27	5.63	60.97	5.81
	40	73.52	4.71	69.74	4.90	65.92	5.08	62.07	5.26	58.17	5.43	54.23	5.59
	35	65.67	4.58	62.20	4.75	58.70	4.91	55.17	5.07	51.60	5.22	48.00	5.36
	30	58.40	4.43	55.23	4.58	52.03	4.73	48.80	4.86	45.54	4.99	42.24	5.11
<b>06DM-313</b>	25	51.68	4.27	48.78	4.41	45.85	4.53	42.91	4.64	39.94	4.75	36.93	4.84
	20	45.47	4.10	42.82	4.21	40.16	4.31	37.47	4.41	34.77	4.49	32.03	4.55
	15	39.75	3.91	37.33	4.00	34.90	4.08	32.46	4.15	30.00	4.21	27.52	4.25
	10	34.48	3.71	32.27	3.78	30.06	3.84	27.83	3.88	25.60	3.91	23.35	3.93
<b>H0527</b>	45	107.40	6.02	101.61	6.29	95.84	6.54	90.11	6.78	84.39	7.01	78.68	7.22
	40	95.84	5.97	90.59	6.22	85.38	6.46	80.20	6.68	75.03	6.88	69.88	7.07
	35	85.23	5.89	80.50	6.12	75.81	6.33	71.14	6.53	66.48	6.71	61.84	6.88
	30	75.52	5.78	71.27	5.98	67.05	6.17	62.86	6.35	58.69	6.51	54.53	6.65
<b>06DM-316</b>	25	66.66	5.63	62.85	5.81	59.08	5.98	55.32	6.13	51.59	6.26	47.87	6.37
	20	58.59	5.46	55.18	5.61	51.81	5.75	48.46	5.88	45.14	5.98	41.82	6.07
	15	51.24	5.25	48.21	5.38	45.20	5.50	42.23	5.59	39.27	5.67	36.32	5.72
	10	44.58	5.02	41.87	5.12	39.20	5.21	36.56	5.27	33.93	5.31	31.31	5.34
<b>H0677</b>	45	133.28	7.87	127.88	8.31	122.37	8.76	116.75	9.21	110.99	9.65	105.09	10.09
	40	121.02	7.79	116.09	8.21	111.06	8.62	105.92	9.04	100.65	9.45	95.25	9.85
	35	109.64	7.68	105.15	8.07	100.56	8.46	95.87	8.84	91.07	9.21	86.14	9.58
	30	99.08	7.55	94.99	7.91	90.83	8.26	86.56	8.61	82.19	8.95	77.70	9.28
<b>06DM-820</b>	25	89.29	7.40	85.59	7.72	81.81	8.04	77.94	8.36	73.97	8.66	69.90	8.95
	20	80.24	7.21	76.89	7.51	73.47	7.80	69.96	8.08	66.37	8.34	62.67	8.60
	15	71.87	7.01	68.84	7.27	65.74	7.52	62.58	7.77	59.33	8.00	55.99	8.21
	10	64.14	6.77	61.39	7.00	58.60	7.22	55.74	7.43	52.81	7.62	49.79	7.80
<b>H0687</b>	45	158.33	9.26	151.18	9.75	143.96	10.25	136.68	10.74	129.30	11.22	121.83	11.69
	40	142.91	9.20	136.39	9.66	129.83	10.12	123.19	10.58	116.48	11.02	109.67	11.45
	35	128.64	9.09	122.73	9.52	116.77	9.94	110.75	10.35	104.65	10.76	98.47	11.15
	30	115.47	8.92	110.13	9.32	104.73	9.70	99.29	10.08	93.77	10.44	88.17	10.78
<b>06DM-724</b>	25	103.34	8.71	98.51	9.07	93.65	9.41	88.74	9.75	83.76	10.06	78.70	10.36
	20	92.18	8.46	87.84	8.78	83.46	9.08	79.04	9.37	74.56	9.64	70.01	9.88
	15	81.93	8.16	78.03	8.44	74.10	8.70	70.14	8.95	66.12	9.17	62.04	9.36
	10	72.53	7.84	69.03	8.07	65.51	8.29	61.96	8.48	58.36	8.65	54.71	8.80

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
CARLYLE COMPRESSORS  
R404a MEDIUM/HIGH TEMPERATURE  
(Continued)**

HIRU Model  Compressor Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0767</b>	45	186.84	11.28	178.92	11.91	170.89	12.53	162.74	13.15	154.43	13.76	145.97	14.36
	40	169.25	11.17	162.05	11.76	154.74	12.33	147.30	12.90	139.73	13.46	132.01	14.01
	35	152.97	11.02	146.42	11.55	139.78	12.08	133.03	12.60	126.15	13.11	119.12	13.60
	30	137.91	10.81	131.98	11.31	125.97	11.79	119.85	12.26	113.61	12.71	107.24	13.15
<b>06DM-228</b>	25	124.00	10.57	118.65	11.01	113.21	11.44	107.69	11.86	102.05	12.26	96.28	12.65
	20	111.17	10.28	106.35	10.67	101.45	11.06	96.47	11.42	91.39	11.77	86.18	12.10
	15	99.36	9.95	95.01	10.29	90.61	10.63	86.13	10.94	81.56	11.23	76.87	11.50
	10	88.48	9.58	84.58	9.88	80.62	10.16	76.59	10.42	72.48	10.66	68.27	10.87
<b>H1027</b>	45	243.07	15.40	231.98	16.26	220.88	17.09	209.75	17.88	198.57	18.63	187.33	19.33
	40	218.97	15.17	208.88	15.97	198.78	16.74	188.65	17.48	178.48	18.16	168.23	18.79
	35	196.78	14.87	187.63	15.61	178.47	16.32	169.28	16.99	160.05	17.61	150.75	18.17
	30	176.39	14.51	168.12	15.19	159.84	15.83	151.53	16.44	143.18	16.99	134.76	17.48
<b>06DM-337</b>	25	157.69	14.08	150.24	14.70	142.77	15.29	135.29	15.83	127.75	16.31	120.16	16.73
	20	140.56	13.61	133.86	14.17	127.16	14.69	120.43	15.16	113.66	15.58	106.83	15.92
	15	124.89	13.09	118.90	13.58	112.89	14.04	106.87	14.45	100.79	14.79	94.66	15.07
	10	110.58	12.53	105.22	12.96	99.86	13.35	94.47	13.69	89.04	13.97	83.54	14.17

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **10%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp	
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)
<b>H0227</b>	45	34.59	2.02	33.21	2.12	31.83	2.22	30.47	2.31	29.12	2.40	27.79	2.48
	40	30.72	1.98	29.47	2.07	28.22	2.16	27.00	2.24	25.78	2.31	24.57	2.39
	35	27.18	1.94	26.05	2.01	24.93	2.09	23.82	2.16	22.73	2.22	21.65	2.28
	30	23.95	1.88	22.94	1.94	21.93	2.01	20.94	2.07	19.96	2.12	18.99	2.17
<b>06DR-109</b>	25	21.02	1.81	20.11	1.87	19.21	1.92	18.33	1.97	17.45	2.01	16.58	2.05
	20	18.37	1.73	17.56	1.78	16.76	1.82	15.96	1.86	15.18	1.90	14.41	1.93
	15	15.98	1.65	15.25	1.69	14.54	1.72	13.83	1.75	13.14	1.78	12.45	1.81
	10	13.83	1.56	13.18	1.59	12.55	1.62	11.92	1.64	11.30	1.66	10.69	1.68
<b>H0337</b>	45	49.27	2.76	47.15	2.92	45.04	3.08	42.95	3.23	40.87	3.37	38.82	3.50
	40	43.58	2.72	41.65	2.87	39.73	3.00	37.83	3.13	35.95	3.25	34.08	3.36
	35	38.37	2.67	36.62	2.79	34.88	2.90	33.16	3.01	31.46	3.11	29.77	3.20
	30	33.62	2.59	32.04	2.69	30.47	2.79	28.91	2.88	27.37	2.96	25.85	3.03
<b>06DR-013</b>	25	29.30	2.49	27.88	2.58	26.46	2.66	25.06	2.73	23.67	2.79	22.30	2.85
	20	25.40	2.38	24.11	2.45	22.84	2.51	21.57	2.57	20.33	2.62	19.09	2.65
	15	21.87	2.26	20.71	2.31	19.56	2.36	18.43	2.40	17.31	2.43	16.20	2.45
	10	18.70	2.12	17.65	2.16	16.62	2.19	15.60	2.22	14.59	2.23	13.59	2.24
<b>H0477</b>	45	62.64	3.69	60.20	3.88	57.78	4.08	55.39	4.27	53.02	4.46	50.68	4.64
	40	55.71	3.60	53.51	3.78	51.33	3.96	49.18	4.14	47.05	4.31	44.95	4.47
	35	49.37	3.51	47.40	3.67	45.45	3.83	43.52	3.99	41.62	4.14	39.74	4.30
	30	43.61	3.40	41.85	3.55	40.10	3.69	38.39	3.83	36.69	3.97	35.01	4.11
<b>06DR-316</b>	25	38.38	3.28	36.81	3.41	35.26	3.54	33.73	3.67	32.22	3.79	30.73	3.91
	20	33.66	3.15	32.26	3.27	30.89	3.38	29.53	3.50	28.20	3.61	26.87	3.71
	15	29.40	3.01	28.17	3.12	26.95	3.22	25.75	3.32	24.57	3.41	23.40	3.51
	10	25.58	2.87	24.49	2.96	23.41	3.05	22.35	3.13	21.31	3.22	20.27	3.30
<b>H0537</b>	45	75.95	4.25	72.45	4.47	69.11	4.68	65.95	4.88	62.94	5.08	60.10	5.26
	40	66.80	4.16	63.79	4.36	60.93	4.54	58.22	4.72	55.65	4.89	53.22	5.05
	35	58.65	4.05	56.09	4.22	53.66	4.38	51.35	4.54	49.16	4.69	47.08	4.83
	30	51.43	3.91	49.26	4.06	47.19	4.20	45.23	4.33	43.36	4.46	41.58	4.58
<b>06DR-718</b>	25	45.03	3.75	43.20	3.88	41.45	4.00	39.78	4.12	38.18	4.22	36.64	4.33
	20	39.38	3.58	37.83	3.69	36.34	3.79	34.90	3.88	33.51	3.97	32.16	4.06
	15	34.37	3.39	33.05	3.48	31.76	3.56	30.50	3.64	29.27	3.71	28.06	3.78
	10	29.92	3.19	28.77	3.27	27.63	3.33	26.50	3.39	25.37	3.45	24.24	3.50

(Continued)

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.

**HIRU REMOTE CONDENSING UNITS  
CARLYLE COMPRESSORS  
R134a MEDIUM/HIGH TEMPERATURE  
(Continued)**

HIRU Model	Suction Gas Sat. Temp. (°F)	100°F Cond. Temp		105°F Cond. Temp		110°F Cond. Temp		115°F Cond. Temp		120°F Cond. Temp		125°F Cond. Temp		
		Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	Capacity (MBtu/Hr)	Power (kW)	
<b>H0677</b>	45	80.59	4.57	77.72	4.81	74.84	5.05	71.96	5.27	69.08	5.49	66.21	5.71	
	40	71.99	4.49	69.37	4.70	66.76	4.91	64.14	5.12	61.53	5.31	58.92	5.50	
	35	64.08	4.38	61.71	4.57	59.34	4.76	56.97	4.94	54.60	5.11	52.24	5.27	
	30	56.84	4.25	54.69	4.42	52.55	4.58	50.41	4.74	48.27	4.89	46.13	5.03	
	<b>06DR-820</b>	25	50.22	4.10	48.28	4.25	46.35	4.39	44.42	4.53	42.49	4.65	40.56	4.77
		20	44.18	3.94	42.44	4.06	40.70	4.19	38.96	4.30	37.23	4.41	35.50	4.50
		15	38.71	3.76	37.14	3.87	35.57	3.97	34.01	4.06	32.45	4.15	30.89	4.23
		10	33.74	3.57	32.33	3.66	30.92	3.74	29.51	3.82	28.11	3.89	26.72	3.95
<b>H0687</b>	45	98.71	5.75	94.61	5.99	90.54	6.22	86.50	6.45	82.49	6.67	78.51	6.88	
	40	87.48	5.53	83.76	5.74	80.06	5.95	76.40	6.16	72.75	6.35	69.14	6.54	
	35	77.21	5.29	73.84	5.48	70.49	5.67	67.16	5.85	63.87	6.02	60.60	6.18	
	30	67.83	5.05	64.78	5.22	61.76	5.38	58.75	5.54	55.78	5.68	52.83	5.82	
	<b>06DR-724</b>	25	59.30	4.79	56.55	4.94	53.82	5.08	51.12	5.21	48.44	5.34	45.79	5.45
		20	51.57	4.53	49.09	4.65	46.63	4.77	44.20	4.88	41.79	4.98	39.41	5.07
		15	44.58	4.26	42.35	4.36	40.14	4.46	37.95	4.54	35.79	4.62	33.66	4.68
		10	38.29	3.98	36.28	4.06	34.29	4.14	32.33	4.20	30.39	4.25	28.47	4.29
<b>H0767</b>	45	109.05	6.38	105.39	6.73	101.71	7.07	98.01	7.40	94.29	7.73	90.55	8.04	
	40	97.67	6.26	94.33	6.58	90.98	6.89	87.60	7.18	84.20	7.47	80.79	7.75	
	35	87.20	6.12	84.15	6.40	81.09	6.67	78.02	6.94	74.92	7.19	71.82	7.44	
	30	77.57	5.94	74.80	6.19	72.02	6.43	69.22	6.66	66.41	6.89	63.58	7.10	
	<b>06DR-228</b>	25	68.74	5.73	66.23	5.96	63.70	6.17	61.16	6.37	58.60	6.56	56.04	6.74
		20	60.68	5.51	58.39	5.70	56.09	5.88	53.79	6.05	51.47	6.21	49.15	6.36
		15	53.31	5.26	51.24	5.42	49.15	5.57	47.06	5.72	44.96	5.85	42.86	5.97
		10	46.62	4.99	44.73	5.13	42.83	5.25	40.93	5.37	39.03	5.47	37.12	5.56
<b>H1107</b>	45	144.35	8.67	139.97	9.08	135.54	9.50	131.06	9.91	126.52	10.32	121.94	10.73	
	40	129.85	8.45	125.85	8.84	121.81	9.22	117.71	9.60	113.56	9.98	109.37	10.35	
	35	116.46	8.22	112.81	8.57	109.12	8.93	105.38	9.28	101.59	9.62	97.76	9.95	
	30	104.11	7.96	100.79	8.29	97.42	8.61	94.01	8.93	90.55	9.24	87.05	9.54	
	<b>06DR-337</b>	25	92.75	7.69	89.72	7.99	86.65	8.28	83.54	8.56	80.38	8.84	77.18	9.10
		20	82.32	7.41	79.55	7.67	76.75	7.93	73.91	8.18	71.02	8.42	68.10	8.65
		15	72.75	7.10	70.23	7.34	67.66	7.56	65.06	7.78	62.42	7.98	59.74	8.17
		10	64.00	6.78	61.68	6.98	59.33	7.18	56.94	7.36	54.51	7.53	52.05	7.68

Capacity data is based on 65° suction gas temperature and 0°F liquid sub-cooling at the refrigerator's tubing entrance. Net capacity will be increased by **5%** for each additional 10° of liquid sub-cooling. Use of a liquid suction heat exchanger installed at the refrigerator's tubing outlet is recommended.



# Section 4

## ACCESSORIES

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## CUSTOM CONVENTIONAL ORDERING NOMENCLATURE

Custom Conventional Units feature the opportunity for the customer to direct the factory to build units specific to the conditions and requirements for each

installation. Below is a comparison of previous and Custom Conventional nomenclature selection for HOCA, HICA, and HIRU Units.

PREVIOUS	CUSTOM CONVENTIONAL	NOMENCLATURE FOR ORDERING		
		PREVIOUS	CUSTOM CONVENTIONAL	
<b>Basic Unit</b>			<b>Customer Ready</b>	<b>Customer Designed</b>
Unit Nomenclature		HOCA0495RLK HICA0495RLK HIRU0495RLK		<b>See Page</b>
	Compressor Assembly		H0495K	—
	Refrigerant Type		46FH	—
	Condenser & Base (HICA/HOCA) or Base Only (HIRU)		25FH	—
	Outdoor Housing (HOCA only)		(51FH)	4-11
	Receiver		62FH	4-11
	Crankcase Heater		03FH	4-11
			99EC	4-11
<b>Accessories</b>			<b>Customer Specified from Page</b>	
Vibration Eliminator	(Compressor Code "E") Vibration Eliminator*	56DA	56DA	4-15
Suction Filter	Suction Filter, Hermetic*	67DM	67DM	4-15
Dryer and Sightglass	Dryer and Sightglass**	44EG	98EC	4-15
Winter Control	Winter Control***	58ES	52FH	4-15
Liquid Line Solenoid	Liquid Line Solenoid*	48DV	48DV	4-15
	*Field, **Factory, ***Sporlan			
<b>Control Panels</b>				
Panel Nomenclature		HICA/HIRU IK64 or HOCA OK39		
	Control Panel Housing		CP2	5-2
	Rain Shield (HOCA only)		93FL	5-2
	Circuit Breaker		40FK	5-6
	Compressor Contactor		02FK	5-7
	Defrost Contactor		39FL	5-9
	Defrost Timer (HICA/HIRU) or HOCA		74FL	5-10
			(80FL)	5-10

## BASIC UNIT SELECTION

### Procedure

The procedure for selecting unit components consists of three steps:

1. Select a compressor assembly from the relevant performance section.
2. Select the required and optional accessories from this section.
3. Select a control panel and electrical components from Section 5, Control Panels.

Items required for a basic unit include:

- Compressor Assembly
- Basic Accessories
  - Refrigerant Kit
  - Condenser Kit for air cooled compressors (includes base)
  - Receiver Kit
  - Base Kit (HIRU only)
  - Demand Cooling Kit (R22 low temp)
  - Head Cooling Fan – required on:
    - All HIRUs using air cooled compressors
    - All low temp HIRUs
    - Single fan HICA/HOCAs:
      - Low Temp refrigerant cooled compressors with fan cycling
      - Any air cooled compressor with fan cycling
    - Demand Cooling units (R22 low temp Copeland Discus)
  - Fan Cycling Control (when Heat Reclaim is ordered).
- Control Panel (including selection of circuit breakers and contactors for compressor and defrost (if used), and a Defrost Timer kit.

### Examples

Three examples of basic unit selection follow, one for each of the unit types: Indoor Air-Cooled (HICA), Outdoor Air-Cooled (HOCA), and Indoor Remote Unit (HIRU). The HICA selection is given in detail, but the HOCA and HIRU examples cover only what is different from the HICA.

#### EXAMPLE 1

##### SELECTION OF A BASIC INDOOR UNIT (HICA)

1. Select a Compressor Assembly. In Section 1, HICA Performance Data, find the page that has the type of compressor, temperature range, and refrigerant to fit the application. For example, a low temp R22 application might require an H0604 unit.
2. In Section 4, Accessories, locate the *Basic Unit Accessories* table.

Move down the left column to locate H0604. This compressor assembly includes the following: the compressor (a Copeland 3DA-0600), mounting hardware, discharge vibration eliminator, and standard control package. The standard control package consists of an auto-reset cartridge type high pressure, mechanical type low pressure, and a Copeland Sentronic oil failure control, if needed. (The Sentronic is supplied for all Reeds larger than 3 hp, and all Discus compressors. Because the H0604 is a Discus, the Sentronic would be supplied.)

Follow the H0604 row across the page to determine other required components.

- A. First, voltage must be applied to the compressor assembly. For this example, use 208-230V which makes the compressor assembly H0604K which is now the model number. The voltage code is also explained on the first page of Sections 1, 2 and 3.
- B. Continue on the H0604 row to select other components. Notice the FOOTNOTE NUMBERS on top of the columns. Read each footnote as you go. The Refrigerant/Range column guides the selection of VL as the desired refrigerant. **The refrigerant type is no longer included in the model number. It must be specified.** Read footnote 1. For this example, specify the refrigerant R22 by selecting 45FH.
- C. Continue on the H0604 row to *Accessory Code*. This column gives a letter code for each model to use is selecting optional accessories from the *Additional Accessories* table. The code for the H0604K is **F**.
- D. Continue on the H0604 row to *Demand Cooling*. Since this unit is an R22 low temp unit, select the **14FH** Demand Cooling kit.
- E. Continue on the H0604 row to *Current Sensing Relay*. For this example, **25DD** could be ordered if desired. Current Sensing Relays are recommended for Copelametic compressors equipped with oil pumps and inherent motor protection.
- F. Continue to *Head Cooling Fan*. Since this example requires Demand Cooling, a Head Cooling fan must be selected. Choose **91FH**.
- G. Next is *Condenser* since a condenser must be selected for HICA units. The condenser kit for the example H0604K is **26FH**. The condenser kit includes the base required.

- H. A *Receiver* must be selected. The standard receiver for the example H0604K is **04FH**.
- I. Although this is an indoor unit, a *Crankcase Heater*, **23DB**, could be ordered for our example H0604K if the ambient temperature will go below 40F.

Once the required components are selected, optional accessories may be chosen. Descriptions of accessories are given immediately following these examples. Read the descriptions before going to the *Additional Accessories* table. For the H0604K example, use the accessory code **F** and follow that column to select items such as winter control valves, suction vibration eliminators, etc.

Selection tables for other options are:

- Pressure Controls
- Oversized Receivers
- Condenser Corrosion Protection
- Two-Tier Kits and Shipping Crates
- Unloaders
- Reverse Cycle Gas Defrost

3. Select the Control Panel and Electrical Components from tables in Section 5.
- A. Standard control panels are shown in one table; a separate table shows special applications requiring multiple sub-breakers. Find the compressor assembly range in the left column and follow across to the desired voltage. For the example H0604K, the standard panel would be a **CP2**, the 208V model. For this example, neither multiple defrost sub-breakers nor rain shield is needed.

- B. In addition to the panel, Circuit Breakers and Contactors must be selected for the compressor and for electric defrost (when applied).

Determine the size of the circuit breakers and contactors from the *Size Reference* tables in Section 5. (Note that the table is divided by voltage and that each voltage gives circuit breaker selections as well as Definite Purpose and NEMA contactor choices.) Locate the example compressor assembly H0604 in the left column. The circuit breaker and contactor sizes for the example H0604K are under the 208V heading:

HICA Circuit Breaker—**50 amp** required

Contactor—**40 amp** Definite Purpose  
(a NEMA 1 may be substituted  
at customer request)

Select a Circuit Breaker kit from the *Compressor/Main Circuit Breaker Selection* table. For this example 40 amp circuit breaker, the ANY brand kit is **40FK**.

- C. Use the *Compressor Contactor Selection* table to determine the Contactor kit. Find the example 30 amp value in the left column, follow across to select ANY brand kit **02FK** (unless a brand is customer-specified). If a NEMA contactor is desired instead of a Definite Purpose contactor, use the same procedure on the *Optional NEMA Contactor Selection* table, following NEMA2 over the the ANY brand kit 25FK.
- D. For units with Electric Defrost, go to the *Defrost Circuit Breaker Selection* tables. Find the maximum defrost amp value in the left column that is equal to or greater than that required for the application and follow across to the breaker selection under the proper voltage section.

For this example of the H0604, suppose the defrost amp load is 43 amps. This is above 40 amps so the next higher value—48 amp—would be used. Follow across to the 208V section and select the ANY brand kit **09FM** (unless a brand is customer-specified).

Since this circuit breaker is larger than the one specified for the compressor, this will actually be the main breaker in the panel. The smaller of the breakers will be wired as a “sub-breaker”. If the defrost breaker selected is the same size as the compressor breaker, do not select a separate defrost breaker. The compressor breaker will serve a dual purpose.

- E. Locate the *Defrost Contactor Selection* table. In the left column find the amp value equal to or greater than the defrost load, and follow across to the brand of Contactor desired. For a defrost load of 43 amps, use the 50 amp value and follow across to find the ANY brand kit **39FL**. If a NEMA contactor is desired instead of a Definite Purpose contactor, use the same selection procedure in the *NEMA Defrost Contactor Selection* table to select **66FL**.
- F. The last required selection is the Defrost Timer kit. The *Defrost Timer Specification* table contains information on the timers available, and is used to select the appropriate kit. For this example, a time/temp terminated defrost would most likely be selected; since H0604K is an indoor unit, the ANY brand kit would be **74FL**. *NOTE: A KIT MUST BE SPECIFIED EVEN IF NO TIMER IS REQUIRED, SUCH AS OFF CYCLE DEFROST.*

- G. To power the cooler fan from the condensing unit for a unit cooler application, a separate circuit breaker and contactor may be selected from Section 5, Page 12.

If this option is selected, the condensing unit minimum Circuit Ampacity (MCA) must be recalculated and the main circuit breaker resized as necessary to account for the added amp load. This procedure is given on page 5-12.

Unit cooler fans can be powered directly from the time clock contacts if the amp draw is 7.5A or less when the condensing unit has one fan. If the condensing unit has two or three fans, the unit cooler fans can still be powered from the time clock if the amp draw is 5.7A or less.

**FOR THIS EXAMPLE, THE BASIC HICA UNIT WOULD BE:**

H0604K	Compressor Assembly
45FH	Refrigerant R22
14FH	Demand Cooling
91FH	Head Cooling Fan
26FH	Condenser
04FH	Receiver
CP2	Control Panel
40FK	Compressor Circuit Breaker
02FK	Compressor Contactor
09FM	Defrost Circuit Breaker
39FL	Defrost Contactor
74FL	Defrost Timer

**EXAMPLE 2**

**SELECTION OF A BASIC OUTDOOR UNIT (HOCA)**

The procedure for selecting a standard outdoor unit (HOCA) is the same as an indoor unit (HICA) with only a few additional accessories. An outdoor unit also needs an Outdoor Housing kit, Rain Shield kit for the control panel and possibly Winter Control Valves and a Crankcase Heater—depending on the lowest ambient temperature expected.

- A. Using the same compressor unit as the HICA example, H0604, go to the *Basic Unit Accessories* table. Following across from H0604, the Outdoor Housing kit is **62FH**.
- B. The next column in the *Basic Unit Accessories* table gives the Crankcase Heater kit **23DB**.
- C. Winter Control Valves are selected from the *Additional Accessories* table. Go down the left column to either Sporlan or Alco Winter Control. Follow to the right to the **F** column (accessory codes are listed in the *Basic Unit Accessories* table). The Sporlan kit is 53FH which is a two-valve system; the Alco kit is 56FH which is a single valve system. Choose the one desired.

- D. When Winter Controls are selected, it is recommended that an Oversize Receiver be selected also. Use the *Oversize Receiver Selection* table. The standard receiver for this example is 04FH. From the table, select **07FH** as the next size. A receiver with even greater capacity can be selected if required. However, care must be taken that the Receiver selected is not too long to fit under the unit's base. Base sizes can be found in the *Additional Condenser Information* tables.
- E. Rain Shield selection is determined by Control Panel from the *Control Panel Selection* table in Section 5.

**FOR THIS EXAMPLE, THE COMPONENT LIST FOR THE SAME UNIT USED OUTDOORS (HOCA) WOULD BE:**

H0604K	Compressor Assembly
45FH	Refrigerant R22
14FH	Demand Cooling
91FH	Head Cooling Fan
26FH	Condenser
04FH	Receiver
CP2	Control Panel
40FK	Compressor Circuit Breaker
02FK	Compressor Contactor
09FM	Defrost Circuit Breaker
39FL	Defrost Contactor
74FL	Defrost Timer

**PLUS**

62FH	Outdoor Housing
23DB	Crankcase Heater
53FH	Sporlan Winter Control
<b>or</b>	<b>or</b>
56FH	Alco Winter Control
07FH	Oversize Receiver
93FL	Rain Shield

**EXAMPLE 3**

**SELECTION OF BASIC REMOTE UNIT (HIRU)**

There are two differences in selecting a HIRU instead of a HICA. First, a condenser kit will not be selected; since the condenser kits have the bases included, a base kit must be chosen for the remote unit.

Using the same example H0604 Compressor Assembly and the *Basic Unit Accessories* table, go across to the Base Only HIRU column to find the kit **51FH**. Note that the condenser kit 26FH would not be called out for a remote unit.

The second difference is in the selection of the Compressor Circuit Breaker. On some compressor assemblies, the circuit breaker selected for a HIRU can be one size smaller than for a HICA since the circuit breaker does not handle any condenser fans.

**FOR THIS EXAMPLE, THE COMPONENT LIST FOR A BASIC REMOTE UNIT (HIRU) WOULD BE:**

H0604K	Compressor Assembly
45FH	Refrigerant R22
14FH	Demand Cooling
91FH	Head Cooling Fan
51FH	Base
04FH	Receiver
CP2	Control Panel
40FK	Compressor Circuit Breaker
02FK	Compressor Contactor
09FM	Defrost Circuit Breaker
39FL	Defrost Contactor
74FL	Defrost Timer

## ACCESSORY DESCRIPTIONS

These descriptions of factory -installed and field-installed Custom Conventional Unit accessories should be used with the kit nomenclatures found in the tables that follow.

### **Current Sensing Relay (factory installed)**

Recommended for Copelametic compressors equipped with both oil pumps and internal inherent motor protection. This device prevents the Oil Failure Control from tripping if the motor cycles on overload protection. The Oil Failure Control is a manual reset device.

### **Suction Vibration Eliminator (field or factory installed)**

All semi-hermetic units have spring-mounted compressors. Suction Line Vibration Eliminators are recommended where shown. Discharge Vibration Eliminators are factory installed as standard.

### **Suction Line Filter (field or factory installed)**

Recommended for all new installations. Factory installed on indoor units only. Hermetic as well as replaceable core types are available. Typical field installed selection is the Hermetic “throw-away” type. The additional pressure drop reduces compressor unit capacity by approximately 2%.

### **Suction Line Accumulator (field installed)**

Helps prevent liquid slugging. Causes additional pressure drop which reduces condensing unit capacity by 1.3% for low temperature and 1% for medium temperature.

### **Heat Reclaim (factory installed)**

A three-way Heat Reclaim Valve directs the refrigerant to either the condenser or the heat reclaim coil. When the solenoid is de-energized, the valve directs the refrigerant to the condenser. The standard version of the valve has a bleed port to the suction line which provides a vent for fluids trapped in the heat reclaim coil during normal operation. This bleed line is piped through a solenoid valve which is energized concurrently with the compressor. The heat reclaim valve solenoid is 120V, the bleed solenoid is 208-230V. Fan cycling is required when heat reclaim is selected for HICA units.

### **Drier Sightglass (factory or field installed)**

Molded core “wax remover” filter-drier, liquid and moisture indicator, brass isolation valve, and connecting tubing. Recommended for all units. An oversized Drier kit is not required when an Oversize Receiver is selected. Removable Core Drier kits are also available.

### **Liquid Line Solenoid Valve (factory or field installed)**

Required for outdoor units so they pump down before defrost. Can also be used in conjunction with a thermostat for pumpdown temperature control. All Sporlan valves in the Hussmann kits include manual lift shutoff stems. They are pilot-operated valves and are of the *normally closed* type.

### **Winter Control (factory installed)**

Winter Control should be applied to HOCA and HIRU air cooled condensers in areas where the ambient temperature can be lower than 50°F.



### **Oversize Receivers (factory installed)**

Recommended when winter controls are specified, or when additional pumpdown capacity is required due to long piping runs to merchandisers.

### **Crankcase Heater (factory installed)**

Standard on Hermetics. Used to protect against refrigerant migration caused by compressor exposure to ambient temperatures colder than 40°F. Oil temperature is kept high enough to evaporate liquid refrigerant, thereby creating a pressure that prevents large-scale migration. Required for Carlyle compressors with HFC refrigerants (R134a, R404a).

### **Fan Cycling Control (factory installed)**

Required where ambient temperature can be lower than 60°F. Maintains head pressure by reducing air flow across the condenser on HICA and HOCA units. Smaller units with only one condenser fan (through 3 hp) require a Head Cooling Fan if Fan Cycling is selected.

### **Shipping Crate**

Required for all single tier HICA and HIRU units in LTL (Less Than [truck] Load shipments. NOT recommended on Two-Tier units and not used on HOCA units.

## **Special Notes Regarding Copeland Scroll Compressors:**

### **Liquid Injection**

Copeland's Midpoint Liquid Injection is standard on all low temperature (ZF) scroll compressor models. A precision sized capillary tube mounted on the compressor is fed from the unit liquid line after the drier. The refrigerant flow to the capillary tube is controlled by a solenoid valve which closes when the compressor is not

running. On the 3 - 6 HP models a current sensing relay is included to close the solenoid if the compressor shuts off on internal protection.

### **Oil Level Monitoring**

The oil level in scroll compressors is monitored by the Sporlan Trax-Oil device which is standard on all scroll compressors. On other applications the Trax-Oil is used to regulate the flow of oil back to the compressor, but on Conventional Units the Trax-Oil is used as a compressor protective device only. The Trax-Oil has a sightglass with a float to indicate the actual oil level in the compressor. When the oil level drops below  $\frac{1}{4}$  sight-glass for more than 120 seconds, the Trax-Oil unit will open the compressor control circuit.

### **Crankcase Heater**

A crankcase heater is required on all outdoor scroll compressor units.

### **Discharge Line Thermostat**

A discharge line thermostat is standard on all Copeland scroll compressors 6 HP and smaller.

### **Accumulator**

Due to the smaller footprint of the scroll compressors, factory installed accumulators will now be available as an option on these units. The nomenclatures for the factory installed accumulators are found in the Basic Unit Accessories table.

### **Phase Monitor**

A phase monitor is standard on the scroll compressor units. It is a requirement that the scroll operate with the correct direction of rotation, so a monitor is needed to maintain correct phase orientation.

See NOTES Below			1	2	3	4	5	6		7		8	9	10	11	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Factory Installed Accum.	Line Connection Size		
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor					12	12	Liquid
H030A	K,M	ZF09K4	VL,VS	B	-	-	-	23FH	24FH	02FH	02FH	61FH	01FS	50FH	04FS	7/8	1/2	1/2
H035A	K,M	ZF11K4	VL,VS	B	-	-	-	24FH	24FH	02FH	02FH	61FH	01FS	50FH	04FS	7/8	1/2	1/2
H040A	K,M	ZF13K4	VL,VS	D	-	-	-	25FH	25FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H050A	K,M	ZF15K4	VL,VS	D	-	-	-	25FH	26FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H060A	K,M	ZF18K4	VL,VS	D	-	-	-	26FH	27FH	03FH	03FH	63FH	02FS	51FH	05FS	7/8	1/2	5/8
H075A	K,M	ZF24K4	VL,VS	F	-	-	-	27FH	29FH	04FH	04FH	63FH	03FS	51FH	06FS	1 3/8	7/8	5/8
H100A	K,M	ZF33K4	VL,VS	F	-	-	-	30FH	31FH	04FH	04FH	63FH	03FS	51FH	06FS	1 3/8	7/8	5/8
H030B	K,M	ZB21KA	VH	B	-	-	-	24FH	24FH	02FH	02FH	61FH	01FS	50FH	04FS	7/8	1/2	1/2
H035B	K,M	ZB26KA	VH	B	-	-	-	24FH	24FH	02FH	02FH	61FH	01FS	50FH	04FS	7/8	1/2	1/2
H040B	K,M	ZB30KA	VH	D	-	-	-	25FH	25FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H050B	K,M	ZB38KA	VH	D	-	-	-	26FH	26FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H060B	K,M	ZB45KA	VH	D	-	-	-	27FH	28FH	03FH	03FH	63FH	02FS	51FH	05FS	7/8	1/2	5/8
H075B	K,M	ZB56KA	VH	F	-	-	-	29FH	30FH	04FH	04FH	63FH	03FS	51FH	06FS	1 3/8	7/8	5/8
H090B	K,M	ZB68KA	VH	F	-	-	-	30FH	31FH	04FH	04FH	63FH	03FS	51FH	06FS	1 3/8	7/8	5/8
H100B	K,M	ZB75KA	VH	F	-	-	-	32FH	38FH	04FH	12FH	64FH	03FS	51FH	06FS	1 3/8	7/8	5/8

**NOTES:**

1 - Refrigerant kit must be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Does not apply to Scroll compressor models.

4 - Does not apply to Scroll compressor models.

5 - Does not apply to Scroll compressor models.

6 - Condenser Kits Include the Base unit.

7 - For **OVERSIZED** Receiver refer to *Oversized Receiver Selection Table*.

8 - An outdoor housing must be selected for all HOCA applications.

9 - A crankcase heater is required for outdoor Scroll applications

10 - Must be selected for all indoor remote (HIRU) applications.

11 - Factory installed accumulators are an option for Scroll units.

12 - Indicate line sizes from the service valves, not necessarily accessory sizing.

### Copeland Scroll Compressors

See NOTES Below			1	2	3	4	5	6		7		8	9	10	11	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Factory Installed Accum.	12	12	12
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor					Suction	Discharge	Liquid
H130B	K,M	ZB92KA	VH	G	-	-	-	34FH	40FH	07FH	12FH	64FH	03FS	51FH	07FS	1 3/8	7/8	7/8
H030C	K,M	ZF09K4E	PL	B	-	-	-	23FH	23FH	02FH	02FH	61FH	01FS	50FH	04FS	7/8	1/2	1/2
H035C	K,M	ZF11K4E	PL	B	-	-	-	23FH	24FH	02FH	02FH	61FH	01FS	50FH	04FS	7/8	1/2	1/2
H040C	K,M	ZF13K4E	PL	D	-	-	-	25FH	25FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H050C	K,M	ZF15K4E	PL	D	-	-	-	25FH	25FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H060C	K,M	ZF18K4E	PL	D	-	-	-	25FH	25FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H075C	K,M	ZF24K4E	PL	F	-	-	-	25FH	26FH	04FH	04FH	62FH	03FS	51FH	06FS	1 3/8	7/8	5/8
H100C	K,M	ZF33K4E	PL	F	-	-	--	27FH	28FH	04FH	04FH	63FH	03FS	51FH	06FS	1 3/8	7/8	5/8
H030D	K,M	ZS21K4E	PS	B	-	-	-	23FH	24FH	02FH	02FH	61FH	01FS	50FH	04FS	7/8	1/2	1/2
H035D	K,M	ZS26K4E	PS	B	-	-	-	24FH	25FH	02FH	02FH	62FH	01FS	50FH	04FS	7/8	1/2	1/2
H040D	K,M	ZS30K4E	PS,JS	D	-	-	-	25FH	25FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H050D	K,M	ZS38K4E	PS,JS	D	-	-	-	25FH	26FH	03FH	03FH	62FH	02FS	51FH	05FS	7/8	1/2	5/8
H060D	K,M	ZS45K4E	PS,JS	D	-	-	-	26FH	28FH	03FH	03FH	63FH	02FS	51FH	05FS	7/8	1/2	5/8
H075D	K,M	ZS56K4E	PS	F	-	-	-	28FH	30FH	04FH	04FH	63FH	03FS	51FH	06FS	1 3/8	7/8	5/8
H100D	K,M	ZS75K4E	PS,JS	F	-	-	-	31FH	38FH	04FH	12FH	64FH	03FS	51FH	06FS	1 3/8	7/8	5/8

**NOTES:**

1 - Refrigerant kit MUST be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Does not apply to Scroll compressor models.

4 - Does not apply to Scroll compressor models.

5 - Does not apply to Scroll compressor models.

6 - Condenser Kits Include the Base unit.

7 - For **OVERSIZED** Receiver refer to *Oversized Receiver Selection Table*.

8 - An outdoor housing must be selected for all HOCA applications.

9 - A crankcase heater is required for outdoor Scroll applications.

10 - Must be selected for all indoor remote (HIRU) applications.

11 - Factory installed accumulators are an option for Scroll units.

12 - Indicate line sizes from the service valves, not necessarily accessory sizing.

### Reed and Discus Compressors

See NOTES Below			1	2	3	4	5	6		7		8	9	10	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Suction	Discharge	Liquid
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor						
H0045	D	KAN-005L	VL,PL	A	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	5/8	1/2	1/2
H0055	D,K	HAG-005L	VS,PS	A	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	5/8	1/2	1/2
H0065	D,K	HAI-005L	VS,PS	A	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	5/8	1/2	1/2
H0075	D,K	KAM-007L	VL,PL	A	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	5/8	1/2	1/2
H0085	D,K	KAN-007L	VS	A	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	5/8	1/2	1/2
H0095	D,K,M	KAJ-010L	VL	B	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	7/8	1/2	1/2
H0096	K,M	KAJA-011L	PL	B	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	7/8	1/2	1/2
H0105	D,K	KAE-007L	VS	A	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	5/8	1/2	1/2
H0115	D,K,M	KAR-010L	VS,PS	B	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	7/8	1/2	1/2
H0125	D,K,M	KAM-010L	VS	B	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	7/8	1/2	1/2
H0135	K,M	KAG-010L	PS	B	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	7/8	1/2	1/2
H0146	D,K,M	KAL-016L	PL	B	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	7/8	1/2	1/2
H0155	D,K,M	KAG-015L	VS	B	-	-	90FH*	20FH	20FH	01FH	01FH	60FH	20DB	50FH	7/8	1/2	1/2
H0205	D,K,M	KAK-020L	VL,VS	B	-	-	90FH*	22FH	22FH	01FH	01FH	61FH	20DB	50FH	7/8	1/2	1/2
H0206	D,K,M	KAK-021L	PS	B	-	-	90FH*	22FH	22FH	01FH	01FH	61FH	20DB	50FH	7/8	1/2	1/2

**NOTES:**

1 - Refrigerant kit must be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Must be applied when listed for R22 Low Temp Applications (VL).

4 - May be applied when listed. Prevents Oil Failure Control from tripping on compressor internal overload.

5 - Required: On all HICA/HOCA when cycling a single condenser fan(\*)  
On all Air Cooled Compressors on HIRU (2nd letter in model = A)  
On all Low Temp HIRU and all HICA/HOCA/HIRU with Demand Cooling

On all Compressors using Oil Cooling(\*\*).

6 - Condenser Kits Include the Base.

7 - For OVERSIZED Receiver refer to *Oversized Receiver Selection Table*.

8 - Must be selected for all HOCA applications.

9 - Must be selected where winter ambient falls below 40°F.

10 - Must be selected for all HIRU applications.

† - Per Copeland, not available for R404a at this time.

†† - Compressor model is EAD-021L for single phase, R404a.

††† - Compressor model is ERC-020L for 460 volt.

### Reed and Discus Compressors

See NOTES Below			1	2	3	4	5	6		7		8	9	10	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Suction	Discharge	Liquid
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor						
H0215	D††,K,M†	EAD-020L	VL,PL	B	-	-	90FH*	21FH	21FH	01FH	01FH	60FH	99EC	50FH	7/8	1/2	1/2
H0225	D,K,M	EAV-021L	PL,VL,JS	B	-	-	90FH*	22FH	22FH	01FH	01FH	61FH	99EC	50FH	7/8	1/2	1/2
H0245	D,K,M	ERC-020L	VS	B	-	-	90FH	22FH	22FH	01FH	01FH	61FH	99EC	50FH	7/8	1/2	1/2
H0246	K,M†††	ERC-021L	PS	B	-	-	90FH	22FH	22FH	01FH	01FH	61FH	99EC	50FH	7/8	1/2	1/2
H0265	D,K	3AJ-021L	VL	B	-	-	90FH*	22FH	22FH	01FH	01FH	61FH	99EC	50FH	7/8	1/2	1/2
H0304	K,M	2DF-030L	PL,VL,JS	E	13FH	25DD	91FH	25FH	25FH	03FH	03FH	62FH	23DB	51FH	1 3/8	5/8	5/8
H0305	D,K,M	EAD-032L	VS	D	-	-	90FH*	23FH	23FH	02FH	02FH	61FH	99EC	50FH	1 1/8	5/8	1/2
H0315	D,K,M	LAH-031L	VL,JS	D	-	-	90FH*	23FH	23FH	02FH	02FH	61FH	99EC	50FH	1 1/8	5/8	1/2
H0316	D,K,M	LAH-032L	PL	D	-	-	90FH*	23FH	23FH	02FH	02FH	61FH	99EC	50FH	1 1/8	5/8	1/2
H0326	K,M	LAL-032L	PL	D	-	-	90FH*	23FH	23FH	02FH	02FH	61FH	99EC	50FH	1 1/8	5/8	1/2
H0335	D†,K,M	3RA-031L	PS,VS	D	-	-	90FH	24FH	24FH	02FH	02FH	61FH	99EC	50FH	1 1/8	5/8	1/2
H0355	D,K,M	ERF-031L	PS,VS	D	-	-	90FH	24FH	24FH	02FH	02FH	61FH	99EC	50FH	1 1/8	5/8	1/2
H0356	K,M	NRD-032L	PL	D	-	25DD	90FH	25FH	25FH	02FH	02FH	62FH	99EC	51FH	1 1/8	5/8	1/2
H0366	D	NRD-040L	PL	D	-	25DD	90FH	25FH	25FH	02FH	02FH	62FH	99EC	51FH	1 1/8	5/8	1/2
H0404	K,M	2DL-040L	PL,VL	E	13FH	25DD	91FH	25FH	25FH	03FH	03FH	62FH	23DB	51FH	1 3/8	5/8	5/8

**NOTES:**

1 - Refrigerant kit MUST be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Must be applied when listed for R22 Low Temp Applications (VL).

4 - May be applied when listed. Prevents Oil Failure Control from tripping on compressor internal overload.

5 - Required: On all HICA/HOCA when cycling a single condenser fan(\*)  
On all Air Cooled Compressors on HIRU (2nd letter in model = A)  
On all Low Temp HIRU and all HICA/HOCA/HIRU with Demand Cooling  
On all Compressors using Oil Cooling(\*\*).

6 - Condenser Kits Include the Base.

7 - For OVERSIZED Receiver refer to *Oversized Receiver Selection Table*.

8 - Must be selected for all HOCA applications.

9 - Must be selected where winter ambient falls below 40PF.

10 - Must be selected for all HIRU applications.

† - Per Copeland, not available for R404a at this time.

†† - Compressor model is EAD-021L for single phase, R404a.

††† - Compressor model is ERC-020L for 460 volt.

### Reed and Discus Compressors

See NOTES Below			1	2	3	4	5	6		7		8	9	10	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Suction	Discharge	Liquid
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor						
H0475	K,M†	NRB-040L	VS,PS	D	-	25DD	90FH	25FH	25FH	02FH	02FH	62FH	99EC	51FH	1 1/8	5/8	1/2
H0484	K,M	2DC-050L	PS,VS	E	-	25DD	91FH	25FH	26FH	03FH	03FH	62FH	23DB	51FH	1 3/8	5/8	5/8
H0494	K,M	2DD-050L	PS,VS	E	-	25DD	91FH	26FH	27FH	03FH	03FH	63FH	23DB	51FH	1 3/8	5/8	5/8
H0504	K,M	2DA-060L	PL,VL,JS	E	13FH	25DD	91FH	25FH	25FH	03FH	03FH	62FH	23DB	51FH	1 3/8	5/8	5/8
H0524	K,M	2DB-060L	PL,VL,JS	E	13FH	25DD	91FH	25FH	25FH	03FH	03FH	62FH	23DB	51FH	1 3/8	5/8	5/8
H0604	K,M	3DA-060L	PL,VL,JS	F	14FH	25DD	91FH	26FH	26FH	04FH	04FH	62FH	23DB	51FH	1 3/8	7/8	5/8
H0654	K,M	2DL-075L	PS,VS	F	-	25DD	91FH	28FH	29FH	04FH	04FH	63FH	23DB	51FH	1 3/8	7/8	5/8
H0704	K,M	2DA-075L	PS,VS	F	-	25DD	91FH	29FH	30FH	04FH	04FH	63FH	23DB	51FH	1 3/8	7/8	5/8
H0724	K,M	3DA-075L	PS,VS	F	-	25DD	91FH	30FH	30FH	04FH	04FH	63FH	23DB	51FH	1 3/8	7/8	5/8
H0734	K,M	3DB-075L	PL,VL,JS	F	14FH	25DD	91FH	27FH	27FH	04FH	04FH	63FH	23DB	51FH	1 3/8	7/8	5/8
H0934	K,M	3DF-090L	PL,VL,JS	F	14FH	25DD	91FH	29FH	29FH	04FH	04FH	63FH	23DB	51FH	1 3/8	7/8	5/8
H1024	K,M	3DB-100L	PS,VS	F	-	25DD	91FH	31FH	38FH	04FH	04FH	63FH	23DB	51FH	1 3/8	7/8	5/8
H1064	K,M	3DS-100L	PL,VL,JS	F	14FH	25DD	91FH	30FH	30FH	04FH	04FH	63FH	23DB	51FH	1 3/8	7/8	5/8
H1204	K,M	3DF-120L	PS,VS	H	-	25DD	91FH	33FH	39FH	07FH	12FH	64FH	23DB	51FH	1 5/8	1 1/8	7/8
H1314	K,M	4DA-101L	VL,PL	G	15FH	-	93FH	31FH	31FH	04FH	04FH	63FH	24DB	51FH	1 5/8	7/8	7/8

**NOTES:**

1 - Refrigerant kit must be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Must be applied when listed for R22 Low Temp Applications (VL).

4 - May be applied when listed. Prevents Oil Failure Control from tripping on compressor internal overload.

5 - Required: On all HICA/HOCA when cycling a single condenser fan(\*)  
On all Air Cooled Compressors on HIRU (2nd letter in model = A)  
On all Low Temp HIRU and all HICA/HOCA/HIRU with Demand Cooling  
On all Compressors using Oil Cooling(\*\*).

6 - Condenser Kits Include the Base.

7 - For OVERSIZED Receiver refer to *Oversized Receiver Selection Table*.

8 - Must be selected for all HOCA applications.

9 - Must be selected where winter ambient falls below 40PF.

10 - Must be selected for all HIRU applications.

† - Per Copeland, not available for R404a at this time.

†† - Compressor model is EAD-021L for single phase, R404a.

††† - Compressor model is ERC-020L for 460 volt.

### Reed and Discus Compressors

See NOTES Below			1	2	3	4	5	6		7		8	9	10	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Suction	Discharge	Liquid
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor						
H1414	K,M	4DH-150L	JS	H	-	-	94FH	33FH	38FH	07FH	12FH	64FH	24DB	51FH	1 5/8	1 1/8	7/8
H1464	K,M	3DS-150L	VS,PS	H	-	25DD	91FH	34FH	40FH	07FH	12FH	64FH	23DB	51FH	1 5/8	1 1/8	7/8
H1514	K,M	4DL-150L	VL,PL	H	15FH	-	93FH**	33FH	38FH	07FH	12FH	64FH	24DB	51FH	1 5/8	1 1/8	7/8
H1914	K,M	4DJ-200L	JS	I	-	-	94FH	34FH	39FH	07FH	12FH	64FH	24DB	51FH	2 1/8	1 1/8	7/8
H1964	K,M	4DA-200L	VS,PS	H	-	-	93FH	36FH	43FH	07FH	12FH	64FH	24DB	51FH	1 5/8	1 1/8	7/8
H2204	K,M	4DT-220L	PL,VL	I	15FH	-	93FH**	35FH	40FH	07FH	12FH	64FH	24DB	51FH	2 1/8	1 1/8	7/8
H2214	K,M	4DB-220L	VS	I	-	-	95FH	35FH	41FH	07FH	12FH	64FH	24DB	51FH	2 1/8	1 1/8	7/8
H2314	K,M	6DH-200L	JS	J	-	-	94FH	36FH	41FH	07FH	12FH	64FH	24DB	51FH	2 1/8	1 1/8	7/8
H2504	K,M	4DH-250L	PS,VS	J	-	-	94FH	37FH	44FH	07FH	12FH	52FN	24DB	51FH	2 1/8	1 3/8	7/8
H2704	K,M	6DL-270L	PL,VL	J	16FH	-	94FH**	36FH	41FH	07FH	12FH	64FH	24DB	51FH	2 1/8	1 3/8	7/8
H2814	K,M	6DJ-300L	JS	J	-	-	94FH	37FH	44FH	07FH	12FH	52FN	24DB	51FH	2 1/8	1 3/8	7/8
H2824	K,M	4DJ-300L	VS,PS	J	-	-	94FH	37FH	44FH	07FH	12FH	52FN	24DB	51FH	2 1/8	1 3/8	7/8
H3014	K,M	6DT-300L	VL,PL	J	16FH	-	94FH	37FH	43FH	07FH	12FH	64FH	24DB	51FH	2 1/8	1 3/8	7/8
H3024	K,M	6DB-300L	VS	J	-	-	94FH	37FH	44FH	07FH	12FH	52FN	24DB	51FH	2 1/8	1 3/8	7/8

**NOTES:**

1 - Refrigerant kit MUST be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Must be applied when listed for R22 Low Temp Applications (VL).

4 - May be applied when listed. Prevents Oil Failure Control from tripping on compressor internal overload.

5 - Required: On all HICA/HOCA when cycling a single condenser fan(\*)  
On all Air Cooled Compressors on HIRU (2nd letter in model = A)  
On all Low Temp HIRU and all HICA/HOCA/HIRU with Demand Cooling  
On all Compressors using Oil Cooling(\*\*).

6 - Condenser Kits Include the Base.

7 - For OVERSIZED Receiver refer to *Oversized Receiver Selection Table*.

8 - Must be selected for all HOCA applications.

9 - Must be selected where winter ambient falls below 40PF.

10 - Must be selected for all HIRU applications.

† - Per Copeland, not available for R404a at this time.

†† - Compressor model is EAD-021L for single phase, R404a.

††† - Compressor model is ERC-020L for 460 volt.

### Copeland Hermetic Compressors

See NOTES Below			1	2	3	4	5	6		7		8	9	10	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Suction	Discharge	Liquid
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor						
H0152	D	CRA-0150	VS	B	-	-	-	20FH	20FH	01FH	01FH	60FH	STD.	50FH	7/8	1/2	1/2
H0202	D	CRD-0200	VS	B	-	-	-	22FH	22FH	01FH	01FH	61FH	STD.	50FH	7/8	1/2	1/2
H0252	D,K,M	CRD-0250	VS	C	-	-	-	23FH	23FH	01FH	01FH	61FH	STD.	50FH	7/8	5/8	1/2
H0312	D,K,M	CRJ-0300	VS	C	-	-	-	24FH	24FH	01FH	01FH	61FH	STD	50FH	7/8	5/8	1/2
H0352	K,M	CRL-0350	VS	D	-	-	-	25FH	25FH	02FH	02FH	62FH	STD	51FH	1 1/8	5/8	1/2
H0402	K,M	CRM-0400	VS	D	-	-	-	25FH	25FH	02FH	02FH	62FH	STD	51FH	1 1/8	5/8	1/2
H0502	K,M	CRN-0500	VS	D	-	-	-	25FH	25FH	02FH	02FH	62FH	STD	51FH	1 1/8	5/8	1/2
H0752	K,M	BRE-0750	VS	F	-	-	-	27FH	27FH	03FH	03FH	63FH	STD	51FH	1 3/8	7/8	5/8
H0902	K,M	BRG-0900	VS	F	-	-	-	30FH	30FH	03FH	03FH	63FH	STD	51FH	1 3/8	7/8	5/8

**NOTES:**

1 - Refrigerant kit must be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Must be applied when listed for R22 Low Temp Applications (VL).

4 - May be applied when listed. Prevents Oil Failure Control from tripping on compressor internal overload.

5 - Required: On all HICA/HOCA when cycling a single condenser fan(\*)  
On all Air Cooled Compressors on HIRU (2nd letter in model = A)  
On all Low Temp HIRU and all HICA/HOCA/HIRU with Demand Cooling  
On all Compressors using Oil Cooling(\*\*).

6 - Condenser Kits Include the Base.

7 - For OVERSIZED Receiver refer to *Oversized Receiver Selection Table*.

8 - Must be selected for all HOCA applications.

9 - Must be selected where winter ambient falls below 40PF.

10 - Must be selected for all HIRU applications.

† - Per Copeland, not available for R404a at this time.

†† - Compressor model is EAD-021L for single phase, R404a.

††† - Compressor model is ERC-020L for 460 volt.



### Carlyle Compressors

See NOTES Below			1	2	3	4	5	6		7		8	9	10	Line Connection Size		
Compressor Assembly			Refrigerant Range	Accessory Code	Demand Cooling	Current Sensing Relay	Head Cooling Fan	Standard Condenser		Standard Receiver		Outdoor Housing	Crankcase Heater	Base Only HIRU	Suction	Discharge	Liquid
Nomen	Voltage	Compressor Model						Indoor	Outdoor	Indoor	Outdoor						
H0227	K,M	06DR109	PL,JS	C	-	-	90FH*	23FH	23FH	02FH	02FH	61FH	86FH	50FH	7/8	5/8	1/2
H0317	K,M	06DM808	PS,VS	C	-	-	90FH	24FH	24FH	02FH	02FH	61FH	86FH	50FH	7/8	5/8	1/2
H0337	K,M	06DR013	PL,JS	D	-	-	95FH*	25FH	25FH	02FH	02FH	62FH	86FH	50FH	1 1/8	5/8	1/2
H0457	K,M	06DM313	PS,VS	C	-	-	95FH	25FH	25FH	02FH	02FH	62FH	86FH	50FH	7/8	5/8	1/2
H0477	K,M	06DR316	PL,JS	D	-	-	95FH*	25FH	25FH	03FH	03FH	62FH	86FH	50FH	1 1/8	5/8	1/2
H0527	K,M	06DM316	PS,VS	D	-	-	95FH	26FH	27FH	03FH	03FH	63FH	86FH	51FH	1 1/8	5/8	1/2
H0537	K,M	06DR718	PL,JS	F	-	-	95FH	25FH	25FH	03FH	03FH	62FH	87FH	50FH	1 3/8	7/8	5/8
H0677	K,M	06DR820	PS,VS	F	-	-	95FH	29FH	30FH	04FH	04FH	63FH	87FH	51FH	1 3/8	7/8	5/8
H0677	K,M	06DR820	PL,JS	F	-	-	95FH	25FH	25FH	04FH	04FH	62FH	87FH	51FH	1 3/8	7/8	5/8
H0687	K,M	06DR724	PS,VS	F	-	-	95FH	29FH	31FH	04FH	04FH	63FH	87FH	51FH	1 3/8	7/8	5/8
H0687	K,M	06DR724	PL,JS	F	-	-	95FH	26FH	26FH	04FH	04FH	62FH	87FH	51FH	1 3/8	7/8	5/8
H0767	K,M	06DR228	PS,VS	G	-	-	95FH	31FH	38FH	04FH	12FH	64FH	87FH	51FH	1 5/8	7/8	7/8
H0767	K,M	06DR228	PL,JS	G	-	-	95FH	27FH	27FH	04FH	04FH	63FH	87FH	51FH	1 5/8	7/8	7/8
H1027	K,M	06DM337	PS,VS	H	-	-	95FH	34FH	39FH	07FH	12FH	64FH	87FH	51FH	1 5/8	1 1/8	7/8
H1107	K,M	06DR337	PL,JS	H	-	-	95FH	30FH	30FH	04FH	04FH	63FH	87FH	51FH	1 5/8	1 1/8	7/8

**NOTES:**

1 - Refrigerant kit must be chosen: **R22** use **45FH** / **R134a** use **26YD** / **R404a** use **52YE** / **R507** use **21YK**.

2 - This letter code applies to option selection from *Additional Accessories Table*.

3 - Must be applied when listed for R22 Low Temp Applications (VL).

4 - May be applied when listed. Prevents Oil Failure Control from tripping on compressor internal overload.

5 - Required: On all HICA/HOCA when cycling a single condenser fan(\*)  
On all Air Cooled Compressors on HIRU (2nd letter in model = A)  
Any Carlyle below -20°F suction temperature.

On all Low Temp HIRU and all HICA/HOCA/HIRU with Demand Cooling

On all Compressors using Oil Cooling(\*\*).

6 - Condenser Kits Include the Base.

7 - For OVERSIZED Receiver refer to *Oversized Receiver Selection Table*.

8 - Must be selected for all HOCA applications.

9 - Must be selected where winter ambient falls below 40PF. Also on R404a or R134a applications.

10 - Must be selected for all HIRU applications.

## ADDITIONAL ACCESSORIES

Use the ACCESSORY CODE from the *Basic Unit Accessories* tables. Select nomenclatures only from the column headed by the Accessory Code applicable to the Compressor Assembly being used.

Accessory Code	A	B	C	D <sup>5</sup>	E	F	G	H	I	J
<b>FACTORY INSTALLED</b>										
Winter Control, Sporlan	52FH	52FH	52FH	52FH	52FH	53FH	53FH	54FH	54FH	54FH
Alco	55FH	55FH	55FH	55FH	55FH	56FH	56FH	57FH	57FH	58FH
Heat Reclaim, Sporlan <sup>1</sup>	N/A	N/A	65FH	65FH	65FH	65FH	66FH	66FH	66FH	67FH
Fan Cycling Pressure Control	88FH	88FH	88FH	88FH	89FH	89FH	89FH	89FH	89FH	89FH
Suction Vibration Eliminator	80FH	81FH	81FH	82FH	83FH	83FH	84FH	84FH	85FH	85FH
Suction Filter, Steel (Any Brand) <sup>2</sup>	01FJ	02FJ	02FJ	03FJ	04FJ	04FJ	05FJ	05FJ	06FJ	06FJ
Sporlan <sup>2</sup>	07FJ	08FJ	08FJ	09FJ	10FJ	10FJ	11FJ	11FJ	12FJ	12FJ
Alco <sup>2</sup>	13FJ	14FJ	14FJ	15FJ	16FJ	16FJ	17FJ	17FJ	18FJ	18FJ
Suction Filter, Brass (Any Brand) <sup>2</sup>	19FJ	20FJ	20FJ	21FJ	22FJ	22FJ	23FJ	23FJ	24FJ	24FJ
Superior <sup>2</sup>	31FJ	32FJ	32FJ	33FJ	34FJ	34FJ	35FJ	35FJ	36FJ	36FJ
Alco <sup>2</sup>	25FJ	26FJ	26FJ	27FJ	28FJ	28FJ	29FJ	29FJ	30FJ	30FJ
Drier Sightglass (Any Brand)	43EG	43EG	43EG	98EG	98EG	75EG	61EG	61EG	61EG	61EG
Sporlan	62FJ	62FJ	62FJ	63FJ	63FJ	64FJ	65FJ	65FJ	65FJ	65FJ
Alco	02FB	02FB	02FB	02FB	09FB	08FB	07FB	07FB	07FB	07FB
Removable Core, Drier	39EJ	40EJ	40EJ	40EJ	45EJ	45EJ	46EJ	46EJ	46EJ	47EJ
Liquid Line Solenoid (Any Brand)	77FH	77FH	77FH	78FH	78FH	78FH	79FH	79FH	79FH	79FH
Sporlan	71FH	71FH	71FH	72FH	72FH	72FH	73FH	73FH	73FH	73FH
Alco	74FH	74FH	74FH	75FH	75FH	75FH	76FH	76FH	76FH	76FH
Shipping Crate <sup>3</sup>	24EG	24EG	24EG	24EG	26EG	26EG	26EG	28EG	28EG	28EG
<b>FIELD INSTALLED</b>										
Suction Vibration Eliminator	53DA	54DA	54DA	55DA	56DA	56DA	57DA	57DA	58DA	58DA
Suction Filter, Hermetic	65DM	65DM	65DM	66DM	67DM	67DM	68DM	68DM	69DM	69DM
Suction Filter, Steel Sporlan	05FT	05FT	05FT	05FT	06FT	06FT	07FT	07FT	07FT	07FT
Alco	01FT	01FT	01FT	01FT	02FT	02FT	03FT	03FT	04FT	04FT
Suction Filter, Brass Superior	55DN	55DN	55DN	56DN	57DN	57DN	58DN	58DN	59DN	59DN
Alco	06VR	06VR	06VR	07VR	08VR	08VR	09VR	09VR	10VR	10VR
Suction Accumulator	94DC	94DC	94DC	95DC	29DD	29DD	96DC	96DC	50FC	50FC
Drier Sightglass (Any Brand) <sup>4</sup>	60ES	60ES	60ES	61ES	61ES	62ES	68ES	68ES	68ES	68ES
Liquid Line Solenoid (Any Brand)	76DM	76DM	76DM	48DV	48DV	48DV	49DV	49DV	49DV	49DV
Motor Contactor in Enclosure	65DV	65DV	65DV	65DV	65DV	66DV	67DV	68DV	69DV	69DV

NOTES:

- <sup>1</sup> Requires selection of Fan Cycling.
- <sup>2</sup> Requires selection of Suction Vibration Eliminator. Recommend **FIELD** installation of Suction Filter outside the HOCA unit housing for service accessibility.
- <sup>3</sup> Not used on HOCA Units, and NOT recommended for Two-Tier Units.
- <sup>4</sup> Do not use Field Installed Drier on units with Demand Cooling. Use Factory Installed Drier instead.
- <sup>5</sup> Liquid Line components for "D" Accessory Code have been changed to 5/16".

## PRESSURE CONTROLS

The controls listed in the left column below are included as standard in the Compressor Assembly. Optional controls are listed to the right.

STANDARD CONTROLS	OPTIONAL CONTROLS .... USE KIT
<p><b>High Pressure</b></p> <p>Alco, Cartridge style, auto, reset ..... »</p> <p>..... »</p>	<p><b>High Pressure</b></p> <p>Penn, Single Mechanical High Pressure with Manual Reset ..... <b>91VK</b></p> <p>Penn, Single Mechanical High Pressure with Auto-Reset ..... <b>87VK</b></p> <p>Alco, Cartridge style with Manual Reset ..... <b>96VK</b></p> <p>Alco, Cartridge (R134a) with Manual Reset ..... <b>96FN</b></p> <p>with Auto Reset ..... <b>97FN</b></p>
<p><b>Low Pressure</b></p> <p>Any Brand (Penn, Ranco)</p> <p>Single Mechanical Low Pressure ..... »</p>	<p><b>Low Pressure</b></p> <p>Penn Brand Specified</p> <p>Single Mechanical Low Pressure <b>49FH</b></p>
<p><b>Oil Failure</b></p> <p>Copeland (above 3hp)</p> <p>Copeland Sentronic ..... »</p> <p>Carlyle</p> <p>Penn or Ranco Mechanical ..... »</p>	<p><b>Oil Failure</b></p> <p>Copeland</p> <p>Penn Mechanical <b>18FH</b></p> <p>Carlyle ..... <b>none</b></p>

## COMPRESSOR OIL KITS

(One gallon can, shipped with the unit.)

Mineral Oil . . . . Copeland or Carlyle Compressors using R22 . . . . .	38YL
POE Oil . . . . . Copeland Compressors using R404a/507 or R134a . . . . .	20YE
POE Oil . . . . . Carlyle Compressors using R404a/507 or R134a . . . . .	37YM

## RECEIVERS

The two tables below show Standard Receiver sizes and capacities as well as the corresponding receiver selection if an Oversize Receiver is desired.

Custom Conventional allows the selection of any Oversized Receiver—AS LONG AS IT IS NOT LONGER THAN THE BASE LENGTH. To check, refer to the *Additional Condenser Information* table.

Use 84-inch or 92-inch long Receivers only in conjunction with 38FH through 44FH 15-30 hp Outdoor Condensers.

**Notes: If a 38FH through 44FH Condenser is selected as an Oversize from a smaller Condenser, then a 12FH Receiver should be selected.**

**If a liquid level gauge is desired for 11FH or 12 FH, order 98FG.**

### STANDARD RECEIVER SPECIFICATIONS

Nomenclature	Size (Inches) Dia. x Length	Capacities (Lbs) @ 80% Volume		
		R22	R134a	R404a
01FH	6 x 29	24	24	21
02FH	8 <sup>5</sup> / <sub>8</sub> x 29	48	49	41
03FH	8 <sup>5</sup> / <sub>8</sub> x 38	64	65	55
04FH	8 <sup>5</sup> / <sub>8</sub> x 45	77	78	66
05FH	9 <sup>3</sup> / <sub>4</sub> x 29	60	61	52
06FH	9 <sup>3</sup> / <sub>4</sub> x 38	80	81	69
07FH	9 <sup>3</sup> / <sub>4</sub> x 45	96	97	82
08FH	10 <sup>3</sup> / <sub>4</sub> x 38	98	99	84
09FH	10 <sup>3</sup> / <sub>4</sub> x 45	117	118	100
11FH	8 <sup>5</sup> / <sub>8</sub> x 92	160	162	137
12FH	8 <sup>5</sup> / <sub>8</sub> x 84	146	148	125

### OVERSIZE RECEIVER SELECTION TABLE

(Use the Standard Receiver nomenclature on the left to select an Oversized Receiver when desired.)

STANDARD RECEIVER	OVERSIZED RECEIVER
01FH	02FH
02FH	05FH
03FH	06FH
04FH	07FH
07FH	09FH
12FH	11FH

## CONDENSER CORROSION PROTECTION

Corrosion protection is recommended for applications where ambient conditions are detrimental to the aluminum  $\frac{1}{2}$ ns of the coils—such as along the seacoast or on shipboard. If corrosion protection is desired, use the Standard Condenser kit nomenclature on the left to select a Corrosion Protection kit from the table below.

Corrosion Protection kits are complete condenser kits that replace the Standard Condenser kit from the *Basic Accessories* table. CHECK TO BE SURE **BOTH ARE NOT ORDERED.**

### CONDENSER CORROSION PROTECTION KITS

STANDARD CONDENSER	HERESITE	TECHNICOAT
20FH	37FB	04FN
21FH	38FB	05FN
22FH	39FB	06FN
23FH	40FB	07FN
24FH	41FB	08FN
25FH	42FB	09FN
26FH	43FB	10FN
27FH	44FB	11FN
28FH	25FN	36FN
29FH	26FN	37FN
30FH	45FB	12FN
31FH	46FB	13FN
32FH	27FN	38FN
33FH	28FN	39FN
34FH	29FN	40FN
35FH	30FN	41FN
36FH	31FN	42FN
37FH	32FN	43FN
38FH	11VR	14FN
39FH	33FN	44FN
40FH	34FN	45FN
41FH	12VR	15FN
42FH	35FN	46FN
43FH	13VR	16FN
44FH	14VR	17FN

## TWO TIER KITS AND SHIPPING CRATES

If Two Tier Frame and Base kit is desired, or the optional Shipping Crate is required, select from the table below.

When ordering units to be tiered in the field, order a **BOLTED ASSEMBLY KIT – 13FC** for the top unit only.

HICA, HIRU Racking Frame Assemblies Condenser Assembly or HIRU Base Assembly				Two-Tier Frame and Base Kit <sup>1</sup>	Shipping Crate <sup>2</sup>	
Base Size	Lower Tier Nomenclature	Base Size	Upper Tier Nomenclature		HICA	HIRU
29x37	20FH - 24FH or 50FH	29x37	20FH - 24FH or 50FH	15EG	25EG	25EG
37x47	25FH - 31FH or 51FH	29x37	20FH - 24FH or 50FH	13EG	27EG	27EG
37x47	25FH - 31FH or 51FH	37x47	25FH - 31FH or 51FH	12EG	28EG	28EG

Hussmann recommends that units with the 37x47 inch base be used for the lower tier whenever possible so the racks will have a uniform depth from the back wall of the machine room.

If units with smaller bases must be used for the lower tier, plan to position those racks with the front of their base 3/4 inch flush with the fronts of the larger bases to simplify wiring and piping.

**Field-installed Two-tier Frame Kit  
92EJ Frame**

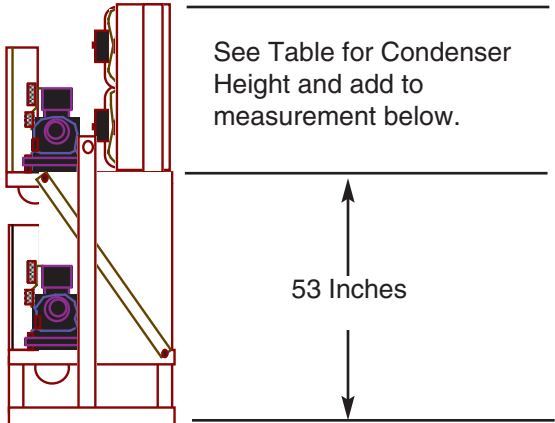
29x38 base.....	93EJ
29x47 base.....	94EJ
37x47 base.....	95EJ

**Notes:**

- HICA units with condenser assemblies larger than 31FH cannot be double tiered because they are equipped with twin condenser coils on a two tier frame as standard.
- Shipping crates are only needed at customer request.
- The overall heights listed for HICA units reflect the height of the condenser on the upper tier. In some instances, however, the control panel may be taller than the condenser. The maximum height of the HIRU units reflects the height of the tallest possible control panel.

Overall Height (Inches) <sup>3</sup>

Nominal HP of Upper Tier Unit	HICA Condenser Coil Height	HICA Overall Tiered Height	HIRU Overall Tiered Height
1	21	74	82
1 1/2	26	79	82
2-4	28	81	82
5-6	32	85	87
7 1/2-12	38	91	87



## UNLOADERS

If Unloaders are desired, select from the table below after carefully reading the following:

### Moduload

1. Head Cooling Fan required on all Low Temperature HIRUs and on Low Temperature HICA and HOCAs with Condenser Fan Cycling.
2. Moduload provides a 50% reduction in nominal capacity for PL, PS and VS applications.
3. Unloaders may not be applied to 3D Moduload compressors with Demand Cooling.

### Blocked Suction

1. Blocked Suction provides a nominal reduction in capacity of 50% for four-cylinder compressors and 33% for six-cylinder compressors.

2. Blocked Suction requires Head Cooling fan on all HIRUs and on HICAs and HOCAs with Condenser Fan Cycling.
3. Interlock kits are required when selecting blocked suction unloading on Demand Cooling compressors. For 4D compressors order kit 68FN and for 6D compressors order kit 69FN.

CARLYLE BLOCKED SUCTION UNLOADERS are available for four- and six-cylinder compressors. Select **23VF** for 06D, **22VF** for 06E models. Do not apply to 06DR109 or 06DM808 because they are only two-cylinder models. If the Compressor Model isn't known, check the Compressor Assembly number against the *Basic Unit Accessories* table to 1/2nd the Compressor Model.

COPELAND MODULOAD						
H-Unit Model Nomenclature	Standard Model	Moduload Model	Add/Delete Kit <b>208V</b>		Add/Delete Kit <b>460V</b>	
			R22	R134a/R404a	R22	R134a/R404a
0604PL	3DA-060L	3DH-060L		56EF		57EF
0734PL	3DB-075L	3DJ-075L		58EF		59EF
0934PL	3DF-090L	3DG-090L		60EF		61EF
1064PL	3DS-100L	3DR-100L		62EF		
0724PS, VS	3DA-075L	3DE-075L	28FF	64EF	29FF	65EF
1024PS, VS	3DB-100L	3DP-100L	40FF	66EF	41FF	67EF
1464PS, VS	3DS-150L	3DT-150L	46FF	70EF	47FF	71EF
1204VS	3DF-120L	3DK-120L	23FN	68EF	24FN	69EF

COPELAND BLOCKED SUCTION			
H-Unit Model Nomenclature	Standard Model	Blocked Suction Model	Add/Delete Kit 208/460V
1314PL, VL*	4DA-100L	4DN-100L	52FF
1514PL, VL	4DL-150L	4DP-150L	54FF
2204PL, VL	4DT-220L	4DS-220L	57FF
2704PL, VL	6DL-270L	6DC-270L	61FF
3014PL, VL	6DT-300L	6DE-300L	62FF
1964PS, VS	4DA-200L	4DE-200L	55FF
2504PS, VS	4DH-250L	4DK-250L	58FF
2824PS, VS	4DJ-300L	4DR-300L	59FF

\* Please refer to Note 3 under Blocked Suction (above).

This table is provided for information only. No kits need be selected.

### CONDENSER DATA

Nomenclature	Nominal HP	Nominal MBH	Base Size	<sup>1</sup> / <sub>42</sub> hp Fans	Condensers	Outdoor Housing
SINGLE CONDENSER ON SINGLE BASE — INDOOR OR OUTDOOR USAGE						
20FH	1	10	29 x 38	1	1	60FH
21FH	1.5	20	29 x 38	1	1	60FH
22FH	2	25	29 x 38	1	1	61FH
23FH	3	27	29 x 38	1	1	61FH
24FH	4	33	29 x 38	1	1	61FH
25FH	5	55	37 x 47	2	1	62FH
26FH	6	65	37 x 47	2	1	62FH
27FH	7.5	70	37 x 47	2	1	63FH
28FH	8	85	37 x 47	2	1	63FH
29FH	9	90	37 x 47	3	1	63FH
30FH	10	100	37 x 47	3	1	63FH
31FH	12	115	37 x 47	3	1	63FH
TWO-TIER BASE — INDOOR UNITS ONLY (Stacked Condensers, Single Compressor)						
32FH	13	130	37 x 47	4	2	N/A
33FH	15	140	37 x 47	4	2	N/A
34FH	16	170	37 x 47	4	2	N/A
35FH	18	180	37 x 47	6	2	N/A
36FH	20	200	37 x 47	6	2	N/A
37FH	25	230	37 x 47	6	2	N/A
DOUBLE WIDE CONDENSER BASE — OUTDOOR UNITS ONLY						
38FH	15	140	37 x 94	4	1	64FH
39FH	16	160	37 x 94	4	1	64FH
40FH	18	180	37 x 94	6	1	64FH
41FH	20	200	37 x 94	6	1	64FH
43FH	25	230	37 x 94	6	1	64FH
44FH	30	300	37 x 94	8	1	52FN



## REVERSE CYCLE GAS DEFROST

Reverse Cycle Gas Defrost is available only for indoor (HICA) conventional units used with Koolgas defrost merchandisers. The following tables show the necessary kits to provide this option. A Gas Defrost kit **AND** a Receiver kit must be selected. If Heat Reclaim or Condenser Fan Control options are being used, a Relay kit must also be chosen to override them during the defrost.

### Operation

The direction of refrigerant flow is reversed during defrost by a four-way valve. This switches the function of the evaporator and condenser during defrost. In addition to the four-way valve, the kit includes all other valving needed on the condensing unit: an accumulator, suction line vibration eliminator, liquid line components (sightglass, drier, angle valve, and a time delay relay (for drip cycle).

The reverse cycle defrost option is **not compatible with Moduload** unloading. During the initial stages of defrost the discharge pressure decreases suddenly to the extent that it creates a problem with the operation of Moduload.

Use the Compressor Assembly nomenclature to select the Defrost kit for the refrigerant type used from the relevant Copeland or Carlyle table following.

## Reverse Cycle Gas Defrost Kits

COPELAND REED AND DISCUS		
Compressor Assembly	Kits	
	R22	R404a
H0045	41FG	—
H0055	41FG	—
H0065	41FG	—
H0075	41FG	—
H0085	41FG	—
H0095	41FG	65FG
H0105	41FG	—
H0115	41FG	—
H0125	41FG	—
H0155	42FG	—
H0205	42FG	—
H0215	42FG	—
H0225	43FG	67FG
H0245	44FG	68FG
H0304	45FG	68FG
H0305	47FG	—
H0315	47FG	70FG
H0325	—	71FG
H0335	48FG	72FG
H0355	48FG	72FG
H0475	49FG	—
H0404	50FG	73FG
H0484	51FG	73FG
H0494	50FG	74FG
H0504	50FG	74FG
H0524	50FG	75FG
H0604	53FG	77FG
H0654	54FG	77FG
H0704	55FG	78FG

**COPELAND REED AND DISCUS (Continued)**

Compressor Assembly	Kits	
	R22	R404a
H0724	56FG	78FG
H0734	55FG	78FG
H0934	58FG	80FG
H1024	58FG	82FG
H1064	58FG	83FG
H1204	57FG	—
H1314	57FG	82FG
H1464	60FG	85FG
H1514	59FG	85FG
H1964	61FG	87FG
H2204	62FG	88FG
H2504	64FG	89FG
H2704	64FG	89FG
H2824	64FG	89FG
H3014	64FG	89FG

**Gas Defrost Receiver Kits**

Select a Receiver for Gas Defrost from the table below based on the Standard Receiver nomenclatures and sizes shown. The standard receiver nomenclatures for the Compressor Assemblies are given earlier in the *Basic Unit Accessories* table.

If Standard Receiver Is	Size (inches)	Select Gas Defrost Receiver Instead
01FH	6 x 9	48FJ
02FH	8 5/8 x 29	49FJ
03FH	8 5/8 x 38	50FJ
04FH	8 5/8 x 45	51FJ
05FH	9 3/4 x 29	52FJ
06FH	9 3/4 x 38	53FJ
07FH	9 3/4 x 45	54FJ
08FH	10 3/4 x 38	55FJ
09FH	10 3/4 x 45	56FJ
12FH	8 5/8 x 84	97FJ
11FH	8 5/8 x 92	98FJ

**CARLYLE**

Compressor Assembly	Kits	
	R22	R404a
H0227	—	70FG
H0317	49FG	72FG
H0337	—	72FG
H0457	93FG	95FG
H0477	—	95FG
H0527	50FG	75FG
H0537	—	75FG
H0677	50FG	78FG
H0687	50FG	78FG
H0767	94FG	79FG
H1027	59FG	96FG
H1107	—	96FG

**Gas Defrost Relay Kits**

If Heat Reclaim, Condenser Fan Cycling (on/off), or Condenser Fan Speed Control options are used, select the appropriate kit from this table to override them during Gas Defrost. *These relay kits are required if the listed option has been selected.*

Heat Reclaim Lockout Relay.....	40FG
Fan Cycling Override Relay .....	90FG
Fan Speed Control Override Relay .....	76FG

# Section 5

## CONTROL PANELS

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### CONTENTS

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## CONTROL PANEL SELECTION

### Control Panel (Standard)

Use the Compressor Assembly Nomenclature to select the Panel from the table below. Rain shield selection is required for HOCA units.

**Note:** 208V 125A or 150A Compressor Circuit Breakers will not fit in the Standard 208V Panel. Select the corresponding 460V Panel. (For a 208V 125A Circuit Breaker select CP7, not CP2.)

Compressor Assembly (range)	Standard Panel		Rain shield
	208V	460V	
H0045 to H0165	CP1	CP6	92FL
H0205 to H0475	CP1	CP6	92FL
H0484 to H1515	CP2	CP7	93FL
H1964 to H3025	CP2	CP7	93FL

### Control Panel with Multiple Defrost Sub-breakers

To provide individual merchandiser defrost protection, use the Compressor Assembly nomenclature to select the Panel from the table below. Rain shield selection is required for HOCA units.

**Note:** 208V 125A or 150A Compressor Circuit Breakers will not fit in the Standard 208V Panel. Select the corresponding 460V Panel. (For a 208V 125A Circuit Breaker select CP8, not CP3.)

Compressor Assembly (range)	2 TO 6 POLES OF DEFROST SUB-BREAKERS		Rain shield	7 TO 14 POLES OF DEFROST SUB-BREAKERS		Rain shield
	208V	460V		208V	460V	
H0045 to H0165	N/A	N/A	N/A	N/A	N/A	N/A
H0205 to H0604	CP3	CP8	94FL	N/A	N/A	N/A
H0654 to H1514	CP3	CP8	94FL	CP4	CP9	95FL
H1964 to H3024	CP3	CP8	94FL	CP5	CP10	96FL

### Important Notes

All wiring must be done in compliance with NEC and Local Codes.  
Select Components accordingly.

For Sub-breaker to case application consult *Custom Conventional Sizing* program or the Application Engineering Department.

## CIRCUIT BREAKER AND CONTACTOR SIZE REFERENCE

The tables which follow list the sizes of Circuit Breakers and Contactors required for each Compressor Assembly. Locate and note the sizes required, then turn to *Compressor/Main Circuit Breaker Selection* table and *Compressor Contactor Selection* tables for component nomenclature. Definite Purpose contactors are sized on RLAX1.56/1.4; NEMA Contactors are sized on RLA only.

**Compressor/Main Circuit Breaker and Contactor Size Reference  
Copeland Scroll**

Compressor Assembly	208V				460V		
	Circuit Breaker		Contactor		Circuit Breaker	Contactor	
	HICA/HOCA (Amp)	HIRU (Amp)	Definite Purpose(Amp)	NEMA Size	All Units (Amp)	Definite Purpose(Amp)	NEMA Size
H030A	20	15	25	1	15	25	1
H035A	20	20	25	1	15	25	1
H040A	30	20	25	1	15	25	1
H050A	30	30	25	1	15	25	1
H060A	40	30	25	1	15	25	1
H075A	40	40	30	1	20	25	1
H100A	60	60	60	2	30	25	1
H030B	20	15	25	1	15	25	1
H035B	30	20	25	1	15	25	1
H040B	30	20	25	1	15	25	1
H050B	30	30	25	1	15	25	1
H060B	30	30	25	1	15	25	1
H075B	40	40	30	1	20	25	1
H090B	50	40	40	1	20	25	1
H100B	60	50	40	2	30	25	1
H130B	70	60	60	2	30	25	1
H030C	20	15	25	1	15	25	1
H035C	20	20	25	1	15	25	1
H040C	30	20	25	1	15	25	1
H050C	30	30	25	1	15	25	1
H060C	40	30	25	1	15	25	1
H075C	40	40	30	1	20	25	1
H100C	60	60	60	2	30	25	1
H030D	20	15	25	1	15	25	1
H035D	30	20	25	1	15	25	1
H040D	30	20	25	1	15	25	1
H050D	40	30	25	1	15	25	1
H060D	40	30	25	1	15	25	1
H075D	50	40	40	1	20	25	1
H100D	60	60	60	2	30	25	1

**Compressor/Main Circuit Breaker and Contactor Size Reference**  
**Copeland Reed and Discus** 1 of 2

Compressor Assembly	208V				460V		
	Circuit Breaker		Contactor		Circuit Breaker	Contactor	
	HICA/HOCA (Amp)	HIRU (Amp)	Definite Purpose(Amp)	NEMA Size	All Units (Amp)	Definite Purpose(Amp)	NEMA Size
H0045	[15]*	[15]	25	1	N/A	N/A	N/A
H0055	[15], 15	[15], 15	25	1	N/A	N/A	N/A
H0065	[15], 15	[15], 15	25	1	N/A	N/A	N/A
H0075	[15], 15	[15], 15	25	1	N/A	N/A	N/A
H0085	[15], 15	[15], 15	25	1	N/A	N/A	N/A
H0095	[15], 15	[15], 15	25	1	15	25	1
H0096	15	15	25	1	15	25	1
H0105	[15], 15	[15], 15	25	1	N/A	N/A	N/A
H0115	[15], 15	[15], 15	25	1	15	25	1
H0125	[15], 15	[15], 15	25	1	15	25	1
H0135	15	15	25	1	15	25	1
H0146	[20], 15	[15], 15	25	1	15	25	1
H0155	[20], 15	[15], 15	25	1	15	25	1
H0205	[20], 15	[15], 15	25	1	15	25	1
H0206	[20], 15	[20], 15	25	1	15	25	1
H0215	[20], 15	[15], 15	25	1	15	25	1
H0225	[30], 15	[20], 15	25	1	15	25	1
H0245	[20], 15	[15], 15	25	1	15	25	1
H0246	20	15	25	1	15	25	1
H0265	[30], 20	[20], 15	25	1	N/A	N/A	N/A
H0304	30	30	25	1	15	25	1
H0305	[30], 20	[30], 20	25	1	15	25	1
H0315	[30], 20	[30], 20	25	1	15	25	1
H0316	[30], 20	[30], 20	25	1	15	25	1
H0326	20	20	25	1	15	25	1
H0335	[30], 30	[30], 20	25	1	15	25	1
H0355	[30], 20	[30], 20	25	1	15	25	1
H0356	30	30	25	1	15	25	1
H0366	[40]	[40]	30	1	N/A	N/A	N/A
H0404	40	40	30	1	15	25	1
H0475	40	30	25	1	15	25	1
H0484	40	30	25	1	15	25	1
H0494	40	30	25	1	15	25	1
H0504	40	40	30	1	15	25	1
H0524	40	40	30	1	15	25	1
H0604	50	40	40	1	20	25	1

\*[ ] indicate Single Phase power supply.

## Compressor/Main Circuit Breaker and Contactor Size Reference

Copeland Reed and Discus 2 of 2

Compressor Assembly	208V				460V		
	Circuit Breaker		Contactor		Circuit Breaker	Contactor	
	HICA/HOCA (Amp)	HIRU (Amp)	Definite Purpose(Amp)	NEMA Size	All Units (Amp)	Definite Purpose(Amp)	NEMA Size
H0654	50	40	40	1	20	25	1
H0704	50	40	40	1	20	25	1
H0724	60	50	60	2	30	25	1
H0734	50	40	40	1	20	25	1
H0934	60	50	40	2	20	25	1
H1024	60	60	60	2	30	25	1
H1064	60	50	60	2	30	25	1
H1204	70	60	60	2	30	25	1
H1314	60	50	60	2	30	25	1
H1414	80	70	60	3	40	30	1
H1464	80	70	75	3	40	30	1
H1514	80	70	60	2	30	30	1
H1914	90	80	75	3	40	40	1
H1964	90	80	75	3	40	40	1
H2204	90	80	75	3	40	40	1
H2214	90	80	75	3	40	40	1
H2314	100	90	90	3	50	40	2
H2504	125	100	90	3	50	60	2
H2704	125	100	90	3	50	60	2
H2814	150	125	120	3	60	60	2
H2824	125	125	120	3	60	60	2
H3014	125	125	120	3	60	60	2
H3024	150	125	120	3	60	60	2

**Compressor/Main Circuit Breaker and Contactor Size Reference  
Copelaweld Hermetics**

Compressor Assembly	208V				460V		
	Circuit Breaker		Contactor		Circuit Breaker	Contactor	
	HICA/HOCA (Amp)	HIRU (Amp)	Definite Purpose(Amp)	NEMA Size	All Units (Amp)	Definite Purpose(Amp)	NEMA Size
H0152	[20]	[20]	25	1	N/A	N/A	N/A
H0202	[30]	[20]	25	1	N/A	N/A	N/A
H0252	[30], 30	[30], 20	25	1	15	25	1
H0312	[40], 30	[40], 30	[30], 25	1	15	25	1
H0352	30	30	25	1	15	25	1
H0402	40	30	25	1	15	25	1
H0502	40	30	25	1	15	25	1
H0752	50	50	40	2	20	25	1
H0902	60	60	60	2	30	25	1

\*[ ] indicate Single Phase power supply.

**Compressor/Main Circuit Breaker and Contactor Size Reference  
Carlyle**

Compressor Assembly	208V				460V		
	Circuit Breaker		Contactor		Circuit Breaker	Contactor	
	HICA/HOCA (Amp)	HIRU (Amp)	Definite Purpose(Amp)	NEMA Size	All Units (Amp)	Definite Purpose(Amp)	NEMA Size
H0227	20	15	25	1	15	25	1
H0317	20	20	25	1	15	25	1
H0337	20	20	25	1	15	25	1
H0457	30	30	25	1	15	25	1
H0477	30	30	25	1	15	25	1
H0527	40	30	25	1	15	25	1
H0537	30	30	25	1	15	25	1
H0677	50	40	40	1	20	25	1
H0687	50	40	40	1	20	25	1
H0767	60	50	60	2	30	25	1
H1027	70	60	60	2	30	25	1
H1107	60	60	60	2	30	25	1



## COMPRESSOR/MAIN CIRCUIT BREAKER AND CONTACTOR SELECTION

Using the noted sizes required, select component nomenclature from *Compressor/Main Circuit Breaker Selection Table* and **one** of the *Compressor Contactor Selection Tables*.

**Compressor/Main Circuit Breaker Selection Table**

Size Amp	208V				460V			
	ANY Brand	WESTINGHOUSE	SQUARE D	ITE	ANY Brand	SQUARE D	ITE	GE
15	<b>34FK</b>	79FK	49FK	64FK	<b>01FL</b>	10FL	19FL	28FL
20	<b>36FK</b>	81FK	51FK	66FK	<b>02FL</b>	11FL	20FL	29FL
30	<b>38FK</b>	83FK	53FK	68FK	<b>03FL</b>	12FL	21FL	30FL
40	<b>40FK</b>	85FK	55FK	70FK	<b>04FL</b>	13FL	22FL	31FL
50	<b>41FK</b>	86FK	56FK	71FK	<b>05FL</b>	14FL	23FL	32FL
60	<b>42FK</b>	87FK	57FK	72FK	<b>06FL</b>	15FL	24FL	33FL
70	<b>43FK</b>	88FK	58FK	73FK	<b>07FL</b>	16FL	25FL	34FL
80	<b>44FK</b>	89FK	59FK	74FK	<b>08FL</b>	17FL	26FL	35FL
90	<b>45FK</b>	67FK	60FK	99FK	N/A	N/A	N/A	N/A
100	<b>46FK</b>	91FK	61FK	76FK	<b>09FL</b>	18FL	27FL	36FL
125	<b>47FK</b>	92FK	62FK	77FK	N/A	N/A	N/A	N/A
150	<b>48FK</b>	93FK	63FK	78FK	N/A	N/A	N/A	N/A

**Compressor Contactor Selection Table  
Definite Purpose**

Size Amp	ANY Brand	SQUARE D	FURNAS	GE
25	<b>01FK</b>	08FK	07FK	09FK
30	<b>02FK</b>	11FK	10FK	12FK
40	<b>03FK</b>	14FK	13FK	15FK
60	<b>04FK</b>	17FK	16FK	18FK
75	<b>05FK</b>	20FK	19FK	21FK
90	<b>48FN</b>	50FN	49FN	51FN
120	<b>06FK</b>	23FK	22FK	24FK

**Compressor Contactor Selection Table  
NEMA (Optional)**

Size NEMA	ANY Brand	SQUARE D	GE
1	<b>25FK</b>	28FK	29FK
2	<b>26FK</b>	30FK	31FK
3	<b>27FK</b>	32FK	33FK

## **DEFROST CIRCUIT BREAKER AND DEFROST CONTACTOR SELECTION**

### **Defrost Circuit Breaker**

Select the appropriate Defrost Circuit Breaker from the tables. If the evaporators being served have Electric Defrost heaters, determine the exact Defrost Amp Load. Select the smallest value in the *Maximum Defrost Amps* column which is equal to or greater than the exact Defrost Amp Load. Note: Use 2-pole breakers only on single phase units or as sub-breakers for individual merchandisers.

If the Defrost Circuit Breaker to be selected is the same size and voltage as the Compressor Circuit Breaker, then no Defrost Circuit Breaker needs to be selected as the Compressor Breaker can serve both loads. If the Defrost Circuit Breaker is larger, but does not exceed 225% of the Compressor RLA, the Defrost Breaker can serve both loads and the Compressor Breaker may be deleted. (Reference Section 6 for Compressor RLA.)

If the application uses Defrost Sub-breakers, a Defrost Circuit Breaker (or Main Circuit Breaker serving both Defrost and Compressor) is still required.

## Defrost Circuit Breaker Selection Tables

3-Pole		208V				460V			
Maximum Defrost Amps	Breaker Size Amp	ANY Brand	208V			ANY Brand	460V		
			WESTINGHOUSE	SQUARE D	ITE		SQUARE D	ITE	GE
12	15	02FM	21FM	19FM	20FM	61FM	70FM	71FM	72FM
16	20	04FM	27FM	25FM	26FM	62FM	73FM	74FM	75FM
24	30	06FM	33FM	31FM	32FM	63FM	76FM	77FM	78FM
32	40	07FM	36FM	34FM	35FM	64FM	79FM	80FM	81FM
40	50	08FM	39FM	37FM	38FM	65FM	82FM	83FM	84FM
48	60	09FM	42FM	40FM	41FM	66FM	85FM	86FM	87FM
56	70	10FM	45FM	43FM	44FM	67FM	88FM	89FM	90FM
64	80	11FM	48FM	46FM	47FM	68FM	91FM	92FM	93FM
72	90	12FM	51FM	49FM	50FM	N/A	N/A	N/A	N/A
80	100	13FM	54FM	52FM	53FM	69FM	94FM	95FM	96FM
100	125	14FM	57FM	55FM	56FM	N/A	N/A	N/A	N/A
120	150	15FM	60FM	58FM	59FM	N/A	N/A	N/A	N/A

2-Pole		208V			
Maximum Defrost Amps	Breaker Size Amp	ANY Brand	208V		
			WESTINGHOUSE	SQUARE D	ITE
12	15	01FM	18FM	16FM	17FM
16	20	03FM	24FM	22FM	23FM
24	30	05FM	30FM	28FM	29FM

Select component nomenclature from **one** of the *Defrost Contactor Selection* tables.

**Defrost Contactor Selection Table  
 Definite Purpose**

Defrost Amps (RESISTIVE)	Contactor Size Amp	ANY Brand	SQUARE D		
			SQUARE D	FURNAS	GE
<b>30</b>	25	<b>37FL</b>	45FL	44FL	46FL
<b>40</b>	30	<b>38FL</b>	48FL	47FL	49FL
<b>50</b>	40	<b>39FL</b>	51FL	50FL	52FL
<b>75</b>	60	<b>40FL</b>	54FL	53FL	55FL
<b>93</b>	75	<b>41FL</b>	57FL	56FL	58FL
<b>112</b>	90	<b>42FL</b>	60FL	59FL	61FL
<b>120</b>	120	<b>43FL</b>	63FL	62FL	64FL

**Defrost Contactor Selection Table  
 NEMA (Optional)**

Defrost Amps (RESISTIVE)	Contactor Size NEMA	ANY Brand	SQUARE D	
			SQUARE D	GE
<b>30</b>	1	<b>65FL</b>	68FL	69FL
<b>50</b>	2	<b>66FL</b>	70FL	71FL
<b>100</b>	3	<b>67FL</b>	72FL	73FL

## DEFROST TIMER SELECTION

A Defrost Timer Nomenclature **must** be selected. Applications and nomenclature are listed in the table below. Both Paragon and Precision Defrost Timers require four hours between each start of defrost periods to allow the timer mechanism to cycle. All timers listed below use operator set time to initiate defrost. Paragon rates timer contacts at 40A, 2HP, or 690VA pilot duty. Precision rates timer contacts at 30A, 2HP, or 690VA pilot duty. Paragon 4004 and Precision CD104 Timers are used for defrost periods over 110 minutes and are generally applied to preparation rooms and gravity coil merchandisers. These timers are shipped with one *OFF* and one *ON* tripper which accommodates one defrost per day.

APPLICATION				VENDOR/MODEL	NOMENCLATURE		
Indoor/Outdoor	Temperature Range	Types of Defrost	Types of Termination		ANY Brand	Paragon	Precision
Indoor	Medium Low	Electric Reverse Air Gas OffTime	Temp Temp Time Time/Temp	Paragon/8145 Precision/6145	<b>74FL</b>	76FL	75FL
Indoor	Medium Low	Electric Reverse Air OffTime	Pressure 36-110 psig	Paragon/8245 Precision/6245	<b>77FL</b>	79FL	78FL
Outdoor Add 4 Minutes pumpdown cycle	Medium Low	Electric Reverse Air OffTime	Temp Temp Time/Temp	Paragon/A633 Precision/6633	<b>80FL</b>	82FL	81FL
Indoor/Outdoor	Medium	OffTime	Time	Paragon/4004 Precision/CD104	<b>83FL</b>	85FL	84FL
OFF Cycle				No Timer	<b>86FL</b>		

**UNIT COOLER FAN CIRCUIT  
BREAKERS AND CONTACTORS**

Select Circuit Breakers and Contactors (MAXIMUM 12A FAN CIRCUIT, 2 POLES). NOTE: These Kits add a 15A Circuit Breaker and Contactor to the panel. The Main/Compressor Circuit Breaker must be increased by 15A when these options are selected. Return to Main/Compressor Circuit Breaker Selection Table (pg 5-7). Add 15A to the original Breaker selection and pick the new nomenclature for the Main Breaker. If the larger Breaker is more than 225% of the Compressor RLA, **BOTH** a new main Breaker and the original Compressor Breaker must be selected.

Unit Cooler Fans can be powered directly from the condensing unit defrost clock — as long as the 15 amp pilot breaker is not overloaded. With a condensing unit having one fan, the unit cooler fans would be limited to 7.5 amps. On a two- or three-fan condensing unit, the unit cooler fan amps would be limited to 5.7 amps.

<b>Unit Cooler Fan Circuit Breaker 208V</b>			
	15A	20A	30A
<b>ANY Brand</b>	<b>87FL</b>	<b>60FN</b>	<b>64FN</b>
Square D	88FL	61FN	65FN
ITE	89FL	62FN	66FN
Westinghouse	90FL	63FN	67FN

<b>Unit Cooler Fan Contactor 208V</b>	
<b>ANY Brand</b> .....	<b>97FM</b>
Furnas .....	97FL
Telemecanique .....	98FL
GE .....	99FL

**IF both** Compressor and Unit Cooler Fans are **460V**, select **91FL** for COMPLETE Unit Cooler Fan Control. Limit of 7 amps for fan circuit.

**SINGLE POINT CONNECTION  
460V CONDENSER FAN MOTORS  
WITH TRANSFORMERS**

Select Single Point Connection Kit when 460V Compressors are applied, but no 208V is available for Control Panel and Condenser Fans. Each Kit provides a 208V step down transformer and replaces the 208V condenser fan motor with a 460V fan motor.

<b>460V Condenser Fans</b>		
Fan Configuration	Kit Nomenclature	Additional AMPS on 460V MCA
1	<b>70FN</b>	2
2	<b>71FN</b>	4
3	<b>72FN</b>	4
4	<b>73FN</b>	5
6	<b>74FN</b>	6
8	<b>75FN</b>	8

For 460V Control Circuit without condenser fans (i.e., HIRU applications), use Kit **44YX**.

**TWO TIER INTERCONNECTION**

To supply a common electrical hookup for a Two Tier Unit, select the Upper Panel from the column header at the top of the table and the Lower Panel from the rows listed on the left side. Use the nomenclature at the intersection of the column and row.

		UPPER CONTROL PANEL									
		CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
L O W E R  P A N E L	CP1	76EG					76EG				
	CP2	<b>76EG</b>	<b>78EG</b>	<b>78EG</b>	<b>78EG</b>	<b>80EG</b>	<b>76EG</b>	<b>78EG</b>	<b>78EG</b>	<b>78EG</b>	<b>80EG</b>
	CP3	77EG	79EG	79EG	79EG	81EG	77EG	79EG	79EG	79EG	81EG
	CP4	<b>77EG</b>	<b>79EG</b>	<b>79EG</b>	<b>79EG</b>	<b>81EG</b>	<b>77EG</b>	<b>79EG</b>	<b>79EG</b>	<b>79EG</b>	<b>81EG</b>
	CP5	77EG	79EG	79EG	79EG	81EG	77EG	79EG	79EG	79EG	81EG
	CP6	<b>76EG</b>	<b>78EG</b>	<b>78EG</b>	<b>78EG</b>	<b>80EG</b>	<b>76EG</b>	<b>78EG</b>	<b>78EG</b>	<b>78EG</b>	<b>80EG</b>
	CP7	76EG	78EG	78EG	78EG	80EG	76EG	78EG	78EG	78EG	80EG
	CP8	<b>77EG</b>	<b>79EG</b>	<b>79EG</b>	<b>79EG</b>	<b>81EG</b>	<b>77EG</b>	<b>79EG</b>	<b>79EG</b>	<b>79EG</b>	<b>81EG</b>
	CP9	77EG	79EG	79EG	79EG	81EG	77EG	79EG	79EG	79EG	81EG
	CP10	<b>77EG</b>	<b>79EG</b>	<b>79EG</b>	<b>79EG</b>	<b>81EG</b>	<b>77EG</b>	<b>79EG</b>	<b>79EG</b>	<b>79EG</b>	<b>81EG</b>

**Notes:**



## Section 6

# COMPRESSOR REFERENCE DATA

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### RLA and MCA

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**NOTE:**

The Electrical Data in the RLA and MCA Tables is for units with standard condenser size and air defrost. If an Oversized Condenser or Electric Defrost is used, the MCA of the unit may be higher. The MCA for units with Electric Defrost is the greater of either the MCA in the following table or the maximum defrost amperage being used. Values shown are for electrical component sizing only; actual running amps may differ.

## RLA AND MCA

### Copeland Scroll

**Note 1:** Single condenser fan HICA and HOCA units with 460V 3Phase compressors have 208/230V 1Phase Control Panels. Units with two to six fans are wired for 208/230V 3Phase.

**Note 2:** HIRU Control Panels for 460V 3Phase compressors are wired for 208/230V 1 Phase Control Circuit.

**Note 3:** The RLA shown is based on MCC/1.56 and is used for circuit breaker sizing. Definite Purpose contactor sizing is based on MCC/1.4. NEMA Contactor sizing is based on RLA.

COMPRESSOR ASSEMBLY	COMPRESSOR POWER SUPPLY 208/230V			COMPRESSOR POWER SUPPLY 460V			
	ALL RLA 3PH	HICA/HOCA MCA 3PH	HIRU MCA 3PH [1PH]	COMPRESSOR		CONTROL PANEL	
				ALL RLA 3PH	ALL MCA 3PH	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 1PH
H030A	9	16	14	5	7	[6]	[3]
H035A	11	19	16	6	8	[6]	[3]
H040A	12	22	17	7	9	8	[3]
H050A	17	28	24	8	10	8	[3]
H060A	20	32	27	9	12	8	[3]
H075A	25	38	34	14	18	8	[3]
H100A	40	57	52	19	24	8	[3]
H030B	10	17	15	6	8	[6]	[3]
H035B	13	21	19	7	9	[6]	[3]
H040B	14	24	20	8	10	8	[3]
H050B	18	29	25	9	12	8	[3]
H060B	19	30	26	9	12	8	[3]
H075B	24	37	32	13	17	8	[3]
H090B	30	44	40	16	20	8	[3]
H100B	34	52	45	17	22	11	[3]
H130B	44	66	57	22	28	14	[3]
H030C	9	16	14	5	7	[6]	[3]
H035C	11	19	16	6	8	[6]	[3]

\*[ ]'s indicate 1Ph power supply.

## Copeland Scroll (Continued)

COMPRESSOR ASSEMBLY	COMPRESSOR POWER SUPPLY 208/230V			COMPRESSOR POWER SUPPLY 460V			
	ALL RLA 3PH	HICA/HOCA MCA 3PH	HIRU MCA 3PH [1PH]	COMPRESSOR		CONTROL PANEL	
				ALL RLA 3PH	ALL MCA 3PH	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 1PH
H040C	12	22	17	7	9	8	[3]
H050C	17	28	24	8	10	8	[3]
H060C	20	32	27	9	12	8	[3]
H075C	25	38	34	14	18	8	[3]
H100C	40	57	52	19	24	8	[3]
H030D	10	17	15	6	8	[6]	[3]
H035D	13	21	19	7	9	[6]	[3]
H040D	14	24	20	8	10	8	[3]
H050D	20	32	27	9	12	8	[3]
H060D	22	34	30	9	12	8	[3]
H075D	28	42	37	14	18	8	[3]
H100D	40	59	52	19	24	11	[3]

\*[ ]'s indicate 1Ph power supply.

## Copeland Reed and Discus

**Note 1:** Single condenser fan HICA and HOCA units with 460V 3Phase compressors have 208/230V 1Phase Control Panels. Units with two to six fans are wired for 208/230V 3Phase.

**Note 2:** HIRU Control Panels for 460V 3Phase compressors are wired for 208/230V 1 Phase Control Circuit.

**Note 3:** The RLA shown is based on MCC/1.56 and is used for circuit breaker sizing. Definite Purpose contactor sizing is based on MCC/1.4. NEMA Contactor sizing is based on RLA.

COMPRESSOR ASSEMBLY	COMPRESSOR POWER SUPPLY 208/230V			COMPRESSOR POWER SUPPLY 460V			
	ALL RLA 3PH [1PH]	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 3PH [1PH]	COMPRESSOR		CONTROL PANEL	
				ALL RLA 3PH	ALL MCA 3PH	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 1PH
H0045	[4]*	[11]*	[8]*	N/A	N/A	N/A	N/A
H0055	3 [4]	10 [11]	7 [8]	N/A	N/A	N/A	N/A
H0065	2 [4]	9 [11]	5 [7]	N/A	N/A	N/A	N/A
H0075	3 [6]	10 [14]	7 [10]	N/A	N/A	N/A	N/A
H0085	4 [6]	11 [14]	8 [10]	N/A	N/A	N/A	N/A
H0095	4 [7]	11 [15]	8 [12]	2	3	[6]*	[3]
H0096	4	11	8	2	3	[6]*	[3]
H0105	3 [5]	10 [12]	7 [9]	N/A	N/A	N/A	N/A
H0115	4 [7]	11 [15]	8 [12]	2	3	[6]*	[3]*
H0125	4 [7]	11 [15]	8 [12]	2	3	[6]	[3]
H0135	4	11	8	2	3	[6]	[3]
H0146	6 [9]	12 [17]	10 [14]	3	4	[6]	[3]
H0155	5 [9]	12 [16]	9 [14]	3	4	[6]	[3]
H0205	7 [10]	15 [18]	12 [15]	3	4	[6]	[3]
H0206	7 [10]	15 [18]	12 [15]	4	5	[6]	[3]
H0215	7 [9]	15 [16]	12 [14]	3	4	[6]	[3]
H0225	7 [14]	15 [23]	12 [20]	4	5	[6]	[3]
H0245	7[10]	15 [18]	12 [15]	3	4	[6]	[3]

\*[ ]'s indicate 1Ph power supply.

## Copeland Reed and Discus (Continued)

COMPRESSOR ASSEMBLY	COMPRESSOR POWER SUPPLY 208/230V			COMPRESSOR POWER SUPPLY 460V			
	ALL RLA	HICA/HOCA MCA	HIRU MCA	COMPRESSOR		CONTROL PANEL	
	3PH [1PH]	3PH [1PH]	3PH [1PH]	ALL RLA 3PH	ALL MCA 3PH	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 1PH
H0246	9	16	14	4	5	[6]	[3]
H0265	9 [13]	16 [21]	14 [19]	N/A	N/A	N/A	N/A
H0304	16	26	23	8	10	[6]	[3]
H0305	12 [15]	20 [24]	17 [21]	5	7	[6]	[3]
H0315	9 [15]	16 [24]	14 [21]	6	8	[6]	[3]
H0316	12 [16]	20 [26]	17 [23]	6	8	[6]	[3]
H0326	12	20	17	7	9	[6]	[3]
H0335	14 [16]	23 [26]	20 [23]	6	8	[6]	[3]
H0355	12 [16]	20 [26]	17 [23]	6	8	[6]	[3]
H0356	17	26	24	9	12	[6]	[3]
H0366	[25]	[38]	[34]	N/A	N/A	N/A	N/A
H0404	24	38	33	10	13	8	[3]
H0475	20	33	28	11	14	8	[3]
H0484	20	33	28	10	13	8	[3]
H0494	20	33	28	10	13	8	[3]
H0504	26	39	35	10	13	8	[3]
H0524	26	39	35	12	15	8	[3]
H0604	28	42	37	13	17	8	[3]
H0654	29	45	39	13	17	8	[3]*
H0704	29	45	39	13	17	8	[3]
H0724	37	55	49	18	23	8	[3]

\*[ ]'s indicate 1Ph power supply.

**Copeland Reed and Discus (Continued)**

COMPRESSOR ASSEMBLY	COMPRESSOR POWER SUPPLY 208/230V			COMPRESSOR POWER SUPPLY 460V			
	ALL	HICA/HOCA	HIRU	COMPRESSOR		CONTROL PANEL	
	RLA 3PH [1PH]	MCA 3PH [1PH]	MCA 3PH [1PH]	ALL RLA 3PH	ALL MCA 3PH	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 1PH
H0734	29	45	39	15	19	8	[3]
H0934	35	52	47	16	20	8	[3]
H1024	40	58	53	18	23	8	[3]
H1064	38	56	50	17	22	8	[3]
H1204	44	63	58	21	27	10	[3]
H1314	38	56	50	19	24	8	[3]
H1414	52	74	64	26	33	11	[3]
H1464	54	79	70	26	33	11	[3]
H1514	48	71	63	24	30	11	[3]
H1914	60	89	78	30	38	14	[3]
H1964	60	89	78	30	38	14	[3]
H2204	60	89	78	30	38	14	[3]
H2214	59	85	76	30	38	14	[3]
H2314	68	96	87	34	43	14	[3]
H2504	74	108	95	37	47	19	[3]
H2704	73	104	95	37	47	14	[3]
H2814	90	128	115	45	57	19	[3]
H2824	85	125	109	43	54	19	[3]
H3014	86	120	110	43	54	14	[3]
H3024	94	133	120	47	59	19	[3]

\*[ ]'s indicate 1Ph power supply.

## Copelaweld Hermetics

**Note 1:** Single condenser fan HICA and HOCA units with 460V 3Phase compressors have 208/230V 1Phase Control Panels. Units with two to six fans are wired for 208/230V 3Phase.

**Note 2:** HIRU Control Panels for 460V 3Phase compressors are wired for 208/230V 1 Phase Control Circuit.

**Note 3:** The RLA shown is based on MCC/1.56 and is used for circuit breaker sizing. Contactor sizing is based on MCC/1.4.

COMPRESSOR ASSEMBLY	COMPRESSOR POWER SUPPLY 208/230V			COMPRESSOR POWER SUPPLY 460V			
	ALL RLA 3PH [1PH]	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 3PH [1PH]	COMPRESSOR		CONTROL PANEL	
				ALL RLA 3PH	ALL MCA 3PH	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 1PH
H0152	[11]*	[20]*	[16]	N/A	N/A	N/A	N/A
H0202	[14]	[23]	[20]	N/A	N/A	N/A	N/A
H0252	14 [16]	23 [26]	20 [22]	6	8	[6]*	N/A
H0312	15 [23]	25 [35]	21 [31]	7	9	[6]	N/A
H0352	17	29	24	8	11	8	N/A
H0402	18	31	25	9	11	8	N/A
H0502	22	36	30	10	12	8	N/A
H0752	31	47	41	16	20	8	N/A
H0902	39	57	51	19	25	8	N/A

\*[ ]'s indicate 1Ph power supply.

## Carlyle

**Note 1:** Single condenser fan HICA and HOCA units with 460V 3Phase compressors have 208/230V 1Phase Control Panels. Units with two to six fans are wired for 208/230V 3Phase.

**Note 2:** HIRU Control Panels for 460V 3Phase compressors are wired for 208/230V 1 Phase Control Circuit.

**Note 3:** The RLA shown is based on MCC/1.56 and is used for circuit breaker sizing. Contactor sizing is based on MCC/1.4.

COMPRESSOR ASSEMBLY	COMPRESSOR POWER SUPPLY 208/230V			COMPRESSOR POWER SUPPLY 460V			
	ALL RLA 3PH [1PH]	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 3PH [1PH]	COMPRESSOR		CONTROL PANEL	
				ALL RLA 3PH	ALL MCA 3PH	HICA/HOCA MCA 3PH [1PH]	HIRU MCA 1PH
H0227	9	17	14	4	5	[6]*	[3]*
H0317	12	20	17	6	8	[6]	[3]
H0337	12	20	17	6	8	[6]	[3]
H0457	18	29	25	9	12	[6]	[3]
H0477	18	29	25	9	12	[6]	[3]
H0527	18	31	25	9	12	8	[3]
H0537	18	29	25	9	12	8	[3]
H0677	29	45	39	15	19	8	[3]
H0687	29	45	39	15	19	8	[3]
H0767	36	53	48	18	23	8	[3]
H1027	40	61	52	20	25	10	[3]
H1107	40	58	52	20	25	8	[3]

\*[ ]'s indicate 1Ph power supply.



## TOTAL UNIT WEIGHTS

Compressors, condensers (including frame), and receivers may be selected in a variety of combinations. To determine approximate weights add the component weights together. For example, A HOCA Unit (with **no** charge).

Unit Component	Nomenclature	Weight (lbs)
Compressor Assembly	H0125	101
Condenser and Base	20FH	235
Outdoor Housing	60FH	72
Receiver	01FH	29
<b>Total</b>		<b>437</b>

<b>Compressor Weights</b>		<i>Scroll</i>		<i>Hermetic</i>	
<i>Scroll</i>		COPELAND		COPELAWEL D	
COPELAND		(continued)		Assembly	
Assembly	Weight	Assembly	Weight	4 Numbers of	Weight
4 Numbers of		4 Numbers of		Product Code	
Product Code		Product Code		(lbs)	
(lbs)		(lbs)			
<b>030A</b>	<b>65</b>	<b>075C</b>	<b>225</b>	<b>0152</b>	<b>70</b>
035A	68	100C	225	0202	72
<b>040A</b>	<b>85</b>	<b>030D</b>	<b>65</b>	<b>0252</b>	<b>79</b>
050A	94	035D	68	0312	80
<b>060A</b>	<b>95</b>	<b>040D</b>	<b>85</b>	<b>0352</b>	<b>91</b>
075A	225	050D	94	0402	91
<b>100A</b>	<b>225</b>	<b>060D</b>	<b>95</b>	<b>0502</b>	<b>95</b>
030B	65	075D	225	0752	180
<b>035B</b>	<b>68</b>	<b>100D</b>	<b>225</b>	<b>0902</b>	<b>180</b>
040B	85				
<b>050B</b>	<b>94</b>				
060B	95				
<b>075B</b>	<b>225</b>				
090B	225				
<b>100B</b>	<b>225</b>				
130B	240				
<b>030C</b>	<b>65</b>				
035C	68				
<b>040C</b>	<b>85</b>				
050C	94				
<b>060C</b>	<b>95</b>				

(Continued)

**TOTAL UNIT WEIGHTS (Continued)**

<i>Semi-Hermetic</i>		0915	385	<i>Semi-Hermetic</i>		2814	530
COPELAND		<b>0934</b>	<b>370</b>	COPELAND		<b>2815</b>	<b>540</b>
(continued)				(continued)			
Assembly	Weight			Assembly	Weight	<i>Semi-Hermetic</i>	
4 Numbers of				4 Numbers of		COPELAND (cont'd)	
Product Code				Product Code		Assembly	Weight
(lbs)				(lbs)		4 Numbers of	
						Product Code	
0475	242			1015	369	(lbs)	
<b>0404</b>	<b>265</b>			<b>1024</b>	<b>370</b>	2504	435
0484	265			1064	370	<b>2515</b>	<b>492</b>
<b>0494</b>	<b>265</b>			<b>1204</b>	<b>380</b>	2704	498
0495	296			1314	380	<b>2824</b>	<b>440</b>
<b>0504</b>	<b>265</b>			<b>1315</b>	<b>410</b>	3014	535
0505	258			1414	405	<b>3015</b>	<b>506</b>
<b>0515</b>	<b>296</b>			<b>1415</b>	<b>389</b>	3025	535
0524	265			1464	380		
<b>0525</b>	<b>258</b>			<b>1514</b>	<b>412</b>		
0604	265			1515	439		
<b>0654</b>	<b>285</b>			<b>1914</b>	<b>415</b>		
0704	285			1964	415		
<b>0715</b>	<b>342</b>			<b>2015</b>	<b>460</b>		
0724	355			2025	421		
<b>0725</b>	<b>308</b>			<b>2204</b>	<b>420</b>		
0734	355			2314	490		
<b>0745</b>	<b>333</b>			<b>2415</b>	<b>447</b>		

## Condenser Weights

Assembly Next to Last Letter of Product Code	Weight (lbs)	Number of $\frac{1}{2}$ hp Fans	HOCA Outdoor Housing* Length x Depth x Ht (in.)	Weight (lbs)
20FH	235	1	39 x 34 x 35	52
21FH	225	1	39 x 34 x 35	52
22FH	265	1	39 x 34 x 40	58
23FH	280	1	39 x 34 x 40	58
24FH	300	1	39 x 34 x 40	58
25FH	320	2	47 x 44 x 44	81
26FH	340	2	47 x 44 x 44	81
27FH	365	2	47 x 44 x 50	92
28FH	375	2	47 x 44 x 50	92
29FH	390	3	47 x 44 x 50	92
30FH	400	3	47 x 44 x 50	92
31FH	410	3	47 x 44 x 50	92
32FH	720	4		
33FH	735	4		
34FH	750	4		
35FH	770	6		
36FH	785	6		
37FH	800	6		
38FH	720	4	94 x 44 x 50	161
39FH	735	4	94 x 44 x 50	161
40FH	770	6	94 x 44 x 50	161
41FH	785	6	94 x 44 x 50	161
43FH	800	6	94 x 44 x 50	161
44FH	825	8	94 x 44 x 63	161
HIRU Application Only				
50FH	175	0		
51FH	210	0		

## Receiver Weights

Assembly Last Letter of Product Code	Dimensions (in.)	Weight (lbs)	80% Charge		
			R22(lbs)	R134a(lbs)	R404a(lbs)
01FH	6 x 29	29	24	24	21
02FH	8 <sup>5</sup> / <sub>8</sub> x 29	40	48	49	41
03FH	8 <sup>5</sup> / <sub>8</sub> x 38	60	64	65	55
04FH	8 <sup>5</sup> / <sub>8</sub> x 45	72	77	78	66
05FH	9 <sup>3</sup> / <sub>4</sub> x 29	50	60	61	52
06FH	9 <sup>3</sup> / <sub>4</sub> x 38	70	80	81	69
07FH	9 <sup>3</sup> / <sub>4</sub> x 45	76	96	97	82
08FH	10 <sup>3</sup> / <sub>4</sub> x 38	97	98	99	84
09FH	10 <sup>3</sup> / <sub>4</sub> x 45	117	117	118	100
11FH	8 <sup>5</sup> / <sub>8</sub> x 92	143	160	162	137
12FH	8 <sup>5</sup> / <sub>8</sub> x 84	136	146	148	125