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APPLICATION ENGINEERING MANUAL COMPRESSOR REFERENCE

HICA GENERAL SPECIFICATIONS

R502 LOW TEMPERATURE

HICA Model	Compr. Model	Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0095RL	KAJ-0100	30x29x29	6x29	25	1/2	7/8	340
0145RL	KAL-0150	30x29x29	6x29	25	1/2	7/8	370
0165RL	EAA-0150	33x29x29	6x29	25	1/2	7/8	370
0215RL	EAV-0200	38x29x38	6x29	25	1/2	7/8	405
0225RL	EAV-0200	40x29x38	6x29	25	1/2	7/8	405
0315RL	LAH-0310	40x29x38	8x29	51	1/2	1-1/8	475
0325RL	LAL-0310	40x29x38	8x29	51	1/2	1-1/8	475
0495RL	MRA-0500	44x37x47	8x38	67	5/8	1-3/8	660
0515RL	MRB-0500	44x37x47	8x38	67	5/8	1-3/8	660
0715RL	9RB-0765	44x37x47	8x45	80	7/8	1-3/8	720
0915RL	9RS-0765	50x37x47	8x45	80	7/8	1-5/8	740
1315RL	4RA-1000	50x37x47	8x45	80	7/8	1-5/8	930
1515RL	4RL-1500	91x37x47	9x45	99	7/8	2-1/8	1210
2015RL	6RA-2000	91x37x47	9x45	99	7/8	2-1/8	1225
2515RL	6RL-2500	91x37x47	9x45	99	7/8	2-1/8	1260
3015RL	6RT-3000	91x37x47	9x45	99	7/8	2-1/8	1275

R502 MEDIUM TEMPERATURE

0245RS	ERC-0200	40x29x38	6x29	25	1/2	7/8	440
0355RS	ERF-0310	40x29x38	8x29	51	1/2	1-1/8	475
0525RS	NRM-0500	44x37x47	8x38	67	5/8	1-1/8	625
0725RS	MRH-0760	50x37x47	8x45	80	7/8	1-3/8	760
1015RS	9RC-1015	50x37x47	8x45	80	7/8	1-5/8	890
1415RS	9RS-1505	91x37x47	9x45	99	7/8	1-5/8	1175
1815RS	4RA-2000	91x37x47	9x45	99	7/8	2-1/8	1200
2215RS	4RH-2500	91x37x47	9x45	99	7/8	2-1/8	1225

R12 MEDIUM TEMPERATURE

0051FS	KAE-0050	33x29x29	6x29	27	1/2	5/8	340
0071FS	KAG-0075	33x29x29	6x29	27	1/2	5/8	340
0091FS	KAJ-0100	33x29x29	6x29	27	1/2	7/8	340
0101FS	KAK-0100	33x29x29	6x29	27	1/2	7/8	340
0141FS	KAL-0150	33x29x29	6x29	27	1/2	7/8	370
0151FS	KAT-0150	38x29x29	6x29	27	1/2	7/8	370
0211FS	EAV-0200	40x29x38	6x29	27	1/2	7/8	405
0221FS	EAL-0200	40x29x38	6x29	27	1/2	7/8	405
0311FS	LAH-0310	40x29x38	8x29	54	1/2	1-1/8	505
0331FS	LAL-0310	40x29x38	8x29	54	1/2	1-1/8	505
0521FS	MRF-0500	44x37x47	8x38	71	5/8	1-3/8	600
0531FS	MRB-0500	44x37x47	8x38	71	5/8	1-3/8	660
0621FS	9RA-0505	44x37x47	8x38	71	5/8	1-3/8	700
0721FS	9RC-0765	44x37x47	8x45	85	7/8	1-3/8	720
0811FS	9RB-0765	50x37x47	8x45	85	7/8	1-3/8	720
0911FS	9RS-0765	50x37x47	8x45	85	7/8	1-5/8	740
1311FS	4RA-1000	50x37x47	8x45	85	7/8	1-5/8	930
1531FS	4RH-1500	85x37x47	9x45	106	7/8	2-1/8	1210
2111FS	6RA-2000	91x37x47	9x45	106	7/8	2-1/8	1225
2311FS	6RH-2000	91x37x47	9x45	106	7/8	2-1/8	1230

*lbs of refrigerant at 80% capacity.

HICA GENERAL SPECIFICATIONS
R22 MEDIUM AND HIGH TEMPERATURE

HICA Model	Compr. Model	Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0213VS	ERC-0200	38x29x38	6x29	24	1/2	7/8	440
0313VH	ERF-0310	40x29x38	8x29	48	1/2	1-1/8	525
0333VS	3RA-0310	40x29x38	8x29	48	1/2	1-1/8	525
0513VH	NRA-0500	44x37x47	8x38	64	5/8	1-1/8	640
0525VS	NRM-0500	44x37x47	8x38	64	5/8	1-1/8	640
0623VH	MRH-0760	50x37x47	8x45	77	7/8	1-3/8	760
0743VS	9RJ-0765	50x37x47	8x45	77	7/8	1-3/8	790
1015VH	9RC-1015	50x37x47	8x45	77	7/8	1-5/8	890
1415VH	9RS-1505	91x37x47	9x45	96	7/8	1-5/8	1175
2023VH	4RA-2000	91x37x47	9x45	96	7/8	2-1/8	1200
2413VH	4RH-2500	91x37x47	9x45	96	7/8	2-1/8	1225
2813VH	4RJ-3000	91x37x47	9x45	96	7/8	2-1/8	1275
3013VH	6RA-3000	91x37x47	9x45	96	7/8	2-1/8	1275

HICA DISCUS GENERAL SPECIFICATIONS
R502 LOW TEMPERATURE

Discus HICA Model	Compr. Model	Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0304RL	2DF-0300	44x37x47	8x38	67	5/8	1-3/8	645
0404RL	2DL-0400	44x37x47	8x38	67	5/8	1-3/8	645
0504RL	2DA-0600	44x37x47	8x38	67	7/8	1-3/8	670
0524RL	2DB-0600	44x37x47	8x38	67	7/8	1-3/8	670
0604RL	3DA-0600	44x37x47	8x38	67	1-1/8	1-3/8	715
0734RL	3DB-0750	44x37x47	8x45	80	1-1/8	1-3/8	725
0934RL	3DF-0900	50x37x47	8x45	80	1-1/8	1-3/8	750
1064RL	3DS-1000	50x37x47	8x45	80	1-1/8	1-3/8	825
1314RL	4DA-1000	50x37x47	8x45	80	1-1/8	1-5/8	825
1514RL	4DL-1500	91x37x47	9x45	99	1-1/8	1-5/8	1210
2204RL	4DT-2200	91x37x47	9x45	99	1-3/8	2-1/8	1225
2704RL	6DL-2700	91x37x47	9x45	99	1-3/8	2-1/8	1260
3014RL	6DT-3000	91x37x47	9x45	99	1-3/8	2-1/8	1275

R502 MEDIUM TEMPERATURE

0484RS	2DC-0500	44x37x47	8x38	67	5/8	1-3/8	655
0494RS	2DD-0500	44x37x47	8x38	67	5/8	1-3/8	655
0654RS	2DL-0750	50x37x47	8x45	67	7/8	1-5/8	655
0714RS	2DA-0750	50x37x47	8x45	80	7/8	1-3/8	680
0724RS	3DA-0750	50x37x47	8x45	80	7/8	1-3/8	735
1054RS	3DB-1000	50x37x47	8x45	80	1-1/8	1-3/8	760
1464RS	3DS-1500	91x37x47	9x45	99	1-1/8	1-5/8	1175
1964RS	4DA-2000	91x37x47	9x45	99	1-1/8	1-5/8	1200
2504RS	4DH-2500	91x37x47	9x45	99	1-1/8	2-1/8	1225

*lbs of refrigerant at 80% capacity.

HICA DISCUS GENERAL SPECIFICATIONS R12 MEDIUM TEMPERATURE

Discus HICA Model	Compr. Model	Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0444FS	2DF-0300	44x37x47	8x38	71	7/8	1-3/8	660
0504FS	2DA-0500	44x37x47	8x38	71	7/8	1-3/8	660
0534FS	2DB-0500	44x37x47	8x38	71	7/8	1-3/8	660
0544FS	3DA-0500	44x37x47	8x38	71	7/8	1-3/8	700
0744FS	3DB-0750	44x37x47	8x45	77	1-1/8	1-3/8	725
0914FS	3DS-0750	44x37x47	8x45	77	1-1/8	1-3/8	725
0944FS	3DF-0900	50x37x47	8x45	77	1-1/8	1-3/8	750
1344FS	4DA-1000	50x37x47	8x45	77	1-1/8	1-5/8	825
1534FS	4DH-1500	91x37x47	9x45	96	1-1/8	1-5/8	1210
2014FS	4DJ-2000	91x37x47	9x45	96	1-3/8	2-1/8	1225
2314FS	6DH-2000	91x37x47	9x45	96	1-3/8	2-1/8	1230

R22 MEDIUM AND HIGH TEMPERATURE

0484VH	2DC-0500	44x37x47	8x38	71	5/8	1-3/8	655
0494VH	2DD-0500	44x37x47	8x38	71	5/8	1-3/8	655
0654VH	2DL-0750	50x37x47	8x45	77	7/8	1-3/8	680
0704VH	2DA-0750	50x37x47	8x45	77	7/8	1-3/8	680
0724VH	3DA-0750	50x37x47	8x45	77	7/8	1-3/8	735
1024VH	3DB-1000	50x37x47	8x45	77	1-1/8	1-3/8	760
1464VH	3DS-1500	91x37x47	9x45	96	1-1/8	1-5/8	1175
1964VH	4DA-2000	91x37x47	9x45	96	1-1/8	1-5/8	1200
2504VH	4DH-2500	91x37x47	9x45	96	1-1/8	2-1/8	1225

HOCA GENERAL SPECIFICATIONS

R502 LOW TEMPERATURE

HOCA Model	Compr. Model	Housing Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0095RL	KAJ-0100	35x34x39	6x29	25	1/2	7/8	415
0145RL	KAL-0150	35x34x39	6x29	25	1/2	7/8	440
0165RL	EAA-0150	35x34x39	6x29	25	1/2	7/8	440
0215RL	EAV-0200	35x34x39	6x29	25	1/2	7/8	480
0225RL	EAV-0200	40x34x39	6x29	25	1/2	7/8	490
0315RL	LAH-0310	40x34x39	8x29	51	1/2	1-1/8	560
0325RL	LAL-0310	40x34x39	8x29	51	1/2	1-1/8	560
0495RL	MRA-0500	44x41x47	8x38	67	5/8	1-3/8	775
0515RL	MRB-0500	44x41x47	8x38	67	5/8	1-3/8	775
0715RL	9RB-0765	44x41x47	8x45	80	7/8	1-3/8	830
0915RL	9RS-0765	50x41x47	8x45	80	7/8	1-5/8	865
1315RL	4RA-1000	50x41x47	8x45	80	7/8	1-5/8	1055
1525RL	4RL-1500	50x44x94	9x84	153	1-1/8	2-1/8	1475
2025RL	6RA-2000	50x44x94	9x84	153	1-1/8	2-1/8	1500
2525RL	6RL-2500	50x44x94	9x84	153	1-1/8	2-1/8	1525
3025RL	6RT-3000	50x44x94	9x84	153	1-1/8	2-1/8	1550

R502 MEDIUM TEMPERATURE

0245RS	ERC-0200	40x34x39	6x29	25	1/2	7/8	525
0355RS	ERF-0310	40x34x39	8x29	51	1/2	1-1/8	550
0525RS	NRM-0500	44x41x47	8x38	67	5/8	1-1/8	775
0725RS	MRH-0760	50x41x47	8x45	80	7/8	1-3/8	885
1015RS	9RC-1015	50x41x47	8x45	80	7/8	1-5/8	975
1425RS	9RS-1505	50x44x94	9x84	153	1-1/8	1-5/8	1425
1825RS	4RA-2000	50x44x94	9x84	153	1-1/8	2-1/8	1460
2225RS	4RH-2500	50x44x94	9x84	153	1-1/8	2-1/8	1475

*lbs of refrigerant at 80% capacity.

HOCA GENERAL SPECIFICATIONS**R12 MEDIUM TEMPERATURE**

HOCA Model	Compr. Model	Housing Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0051FS	KAE-0050	35x34x39	6x29	27	1/2	5/8	415
0071FS	KAG-0075	35x34x39	6x29	27	1/2	5/8	415
0091FS	KAJ-0100	35x34x39	6x29	27	1/2	7/8	415
0101FS	KAK-0100	35x34x39	6x29	27	1/2	7/8	415
0141FS	KAL-0150	35x34x39	6x29	27	1/2	7/8	440
0151FS	KAT-0150	35x34x39	6x29	27	1/2	7/8	440
0211FS	EAV-0200	40x34x39	6x29	27	1/2	7/8	490
0221FS	EAL-0200	40x34x39	6x29	27	1/2	7/8	490
0311FS	LAH-0310	40x34x39	8x29	54	1/2	1-1/8	560
0331FS	LAL-0310	40x34x39	8x29	54	1/2	1-1/8	560
0521FS	MRF-0500	44x41x47	8x38	71	5/8	1-3/8	715
0531FS	MRB-0500	44x41x47	8x38	71	5/8	1-3/8	715
0621FS	9RA-0505	44x41x47	8x38	71	5/8	1-3/8	810
0721FS	9RC-0765	44x41x47	8x45	85	7/8	1-3/8	830
0811FS	9RB-0765	50x41x47	8x45	85	7/8	1-3/8	840
0911FS	9RS-0765	50x41x47	8x45	85	7/8	1-5/8	865
1311FS	4RA-1000	50x41x47	8x45	85	7/8	1-5/8	1055
1541FS	4RH-1500	50x44x94	9x84	162	1-1/8	2-1/8	1475
2121FS	6RA-2000	50x44x94	9x84	162	1-1/8	2-1/8	1500
2321FS	6RH-2000	50x44x94	9x84	162	1-1/8	2-1/8	1510

R22 MEDIUM AND HIGH TEMPERATURE

0213VS	ERC-0200	35x34x39	6x29	24	1/2	7/8	515
0313VH	ERF-0310	40x34x39	8x29	48	1/2	1-1/8	610
0333VS	3RA-0310	40x34x39	8x29	48	1/2	1-1/8	610
0513VH	NRA-0500	44x41x47	8x38	64	5/8	1-1/8	755
0525VS	NRM-0500	44x41x47	8x38	64	5/8	1-1/8	755
0623VH	MRH-0760	50x41x47	8x45	77	7/8	1-3/8	885
0743VS	9RJ-0765	50x41x47	8x45	77	7/8	1-3/8	915
1015VH	9RC-1015	50x41x47	8x45	77	7/8	1-5/8	1015
1425VH	9RS-1505	50x44x94	9x84	146	1-1/8	1-5/8	1425
2013VH	4RA-2000	50x44x94	9x84	146	1-1/8	2-1/8	1460
2423VH	4RH-2500	50x44x94	9x84	146	1-1/8	2-1/8	1480
2823VH	4RJ-3000	50x44x94	9x84	146	1-1/8	2-1/8	1550
3023VH	6RA-3000	50x44x94	9x84	146	1-1/8	2-1/8	1550

HOCA DISCUS GENERAL SPECIFICATIONS**R502 LOW TEMPERATURE**

Discus HOCA Model	Compr. Model	Housing Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0304RL	2DF-0300	44x41x47	8x38	67	5/8	1-3/8	755
0404RL	2DL-0400	44x41x47	8x38	67	5/8	1-3/8	785
0504RL	2DA-0600	44x41x47	8x38	67	7/8	1-3/8	785
0524RL	2DB-0600	44x41x47	8x38	67	7/8	1-3/8	785
0604RL	3DA-0600	44x41x47	8x38	67	1-1/8	1-3/8	830
0734RL	3DB-0750	44x41x47	8x45	80	1-1/8	1-3/8	840
0934RL	3DF-0900	50x41x47	8x45	80	1-1/8	1-3/8	875
1064RL	3DS-1000	50x41x47	8x45	80	1-1/8	1-3/8	950
1314RL	4DA-1000	50x41x47	8x45	80	1-1/8	1-5/8	1055
1524RL	4DL-1500	50x44x94	9x84	153	1-1/8	1-5/8	1475
2214RL	4DT-2200	50x44x94	9x84	153	1-3/8	2-1/8	1500
2714RL	6DL-7500	50x44x94	9x84	153	1-3/8	2-1/8	1525
3024RL	6DT-3000	50x44x94	9x84	153	1-3/8	2-1/8	1550

*lbs of refrigerant at 80% capacity.

HOCA DISCUS GENERAL SPECIFICATIONS

R502 MEDIUM TEMPERATURE

Discus HOCA Model	Compr. Model	Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap*	Liq.	Suc.	
0484RS	2DC-0500	44x41x47	8x38	67	5/8	1-3/8	805
0494RS	2DD-0500	44x41x47	8x38	67	5/8	1-3/8	805
0654RS	2DL-0750	50x41x47	8x45	77	7/8	1-3/8	805
0714RS	2DA-0750	50x41x47	8x45	77	7/8	1-3/8	805
0724RS	3DA-0750	50x41x47	8x45	77	7/8	1-3/8	850
1054RS	3DB-1000	50x41x47	8x45	77	1-1/8	1-3/8	885
1474RS	3DS-1500	50x44x94	9x84	153	1-1/8	1-5/8	1425
1974RS	4DA-2000	50x44x94	9x84	153	1-1/8	1-5/8	1460
2514RS	4DH-2500	50x44x94	9x84	153	1-1/8	2-1/8	1475

R12 MEDIUM TEMPERATURE

0444FS	2DF-0300	44x41x47	8x38	71	7/8	1-3/8	775
0504FS	2DA-0500	44x41x47	8x38	71	7/8	1-3/8	775
0534FS	2DB-0500	44x41x47	8x38	71	7/8	1-3/8	775
0544FS	3DA-0500	44x41x47	8x38	71	1-1/8	1-3/8	815
0744FS	3DB-0750	44x41x47	8x45	77	1-1/8	1-3/8	840
0914FS	3DS-0750	44x41x47	8x45	77	1-1/8	1-3/8	840
0944FS	3DF-0900	50x41x47	8x45	77	1-1/8	1-3/8	875
1344FS	4DA-1000	50x41x47	8x45	77	1-1/8	1-5/8	950
1544FS	4DH-1500	50x44x94	9x84	162	1-1/8	1-5/8	1475
2024FS	4DJ-2000	50x44x94	9x84	162	1-3/8	2-1/8	1500
2324FS	6DH-2000	50x44x94	9x84	162	1-3/8	2-1/8	1510

R22 MEDIUM AND HIGH TEMPERATURE

0484VH	2DC-0500	44x41x47	8x38	71	5/8	1-3/8	775
0494VH	2DD-0500	44x41x47	8x38	71	5/8	1-3/8	775
0654VH	2DL-0750	50x41x47	8x45	77	7/8	1-3/8	805
0704VH	2DA-0750	50x41x47	8x45	77	7/8	1-3/8	805
0724VH	3DA-0750	50x41x47	8x45	77	7/8	1-3/8	810
1024VH	3DB-1000	50x41x47	8x45	77	1-1/8	1-3/8	885
1474VH	3DS-1500	50x44x94	9x84	146	1-1/8	1-5/8	1425
1974VH	4DA-2000	50x44x94	9x84	146	1-1/8	1-5/8	1460
2514VH	4DH-2500	50x44x94	9x84	146	1-1/8	2-1/8	1480

HIRU GENERAL SPECIFICATIONS

R502 LOW TEMPERATURE

HIRU Model	Compr. Model	Housing Dimensions (inches) HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap**	Liq.	Suc.	
0095RL	KAJ-0100	36x29x29	6x29	25	1/2	7/8	300
0145RL	KAL-0150	36x29x29	6x29	25	1/2	7/8	305
0165RL	EAA-0150	36x29x29	6x29	25	1/2	7/8	365
0225RL	EAV-0200	36x29x38	6x29	25	1/2	7/8	370
0315RL	LAH-0310	41x29x38	8x29	51	1/2	1-1/8	450
0325RL	LAL-0310	41x29x38	8x29	51	1/2	1-1/8	450
0495RL	MRA-0500	41x29x38	8x38	67	5/8	1-3/8	550
0515RL	MRB-0500	41x29x38	8x38	67	5/8	1-3/8	550
0715RL	9RB-0765	46x29x38	9x38	80	7/8	1-3/8	625
0915RL	9RS-0765	46x29x38	9x38	80	7/8	1-5/8	550
1315RL	4RA-1000	46x37x47	8x45	80	7/8	1-5/8	720
1515RL	4RL-1500	46x37x47	9x45	99	7/8	2-1/8	770
2015RL	6RA-2000	46x37x47	9x45	99	7/8	2-1/8	790
2515RL	6RL-2500	46x37x47	9x45	99	7/8	2-1/8	820
3015RL	6RT-3000	46x37x47	9x45	99	7/8	2-1/8	865

*maximum height varies with control panel, see "Control Panel Dimensions".

**lbs of refrigerant at 80% capacity.

HIRU GENERAL SPECIFICATIONS

R502 MEDIUM TEMPERATURE

HIRU Model	Compr. Model	Dimensions (inches) *HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap**	Liq.	Suc.	
0245RS	ERC-0200	36x29x38	6x29	25	1/2	7/8	360
0355RS	ERF-0310	41x29x38	8x29	51	1/2	1-1/8	405
0525RS	NRM-0500	41x29x38	8x38	67	5/8	1-1/8	510
0725RS	MRH-0760	46x29x38	9x38	80	7/8	1-3/8	590
1015 RS	9RC-1015	46x37x47	8x45	80	7/8	1-5/8	680
1415RS	9RS-1505	46x37x47	9x45	99	7/8	1-5/8	720
1815RS	4RA-2000	46x37x47	9x45	99	7/8	2-1/8	750
2215RS	4RH-2500	46x37x47	9x45	99	7/8	2-1/8	770

R12 MEDIUM TEMPERATURE

0071FS	KAG-0075	36x29x29	6x29	27	1/2	5/8	300
0091FS	KAJ-0100	36x29x29	6x29	27	1/2	7/8	300
0101FS	KAK-0100	36x29x29	6x29	27	1/2	7/8	300
0141FS	KAL-0150	36x29x29	6x29	27	1/2	7/8	300
0151FS	KAT-0150	36x29x29	6x29	27	1/2	7/8	300
0211FS	EAV-0200	36x29x38	6x29	27	1/2	7/8	370
0221FS	EAL-0200	36x29x38	6x29	27	1/2	7/8	370
0311FS	LAH-0310	41x29x38	8x29	54	1/2	1-1/8	420
0331FS	LAL-0310	41x29x38	8x29	54	1/2	1-1/8	420
0521FS	MRF-0500	41x29x38	8x38	71	5/8	1-3/8	550
0531FS	MRB-0500	41x29x38	8x38	71	5/8	1-3/8	550
0621FS	9RA-0505	41x29x38	8x38	71	5/8	1-3/8	580
0721FS	9RC-0765	46x29x38	9x38	85	7/8	1-3/8	620
0811FS	9RB-0765	46x29x38	9x38	85	7/8	1-3/8	620
0911FS	9RS-0765	46x29x38	9x38	85	7/8	1-5/8	640
1311FS	4RA-1000	46x37x47	8x45	85	7/8	1-5/8	690
1531FS	4RH-1500	46x37x47	9x45	106	7/8	2-1/8	770
2111FS	6RA-2000	46x37x47	9x45	106	7/8	2-1/8	790
2311FS	6RH-2000	46x37x47	9x45	106	7/8	2-1/8	790

R22 MEDIUM AND HIGH TEMPERATURE

0213VS	ERC-0200	36x29x38	6x29	24	1/2	7/8	360
0313VH	ERF-0310	41x29x38	8x29	48	1/2	1-1/8	380
0333VS	3RA-0310	41x29x38	8x29	48	1/2	1-1/8	390
0513VH	NRA-0500	41x29x38	8x38	64	5/8	1-1/8	500
0525VS	NRM-0500	41x29x38	8x38	64	5/8	1-1/8	500
0623VH	MRH-0760	46x29x38	9x38	77	7/8	1-3/8	600
0743VS	9RJ-0765	46x29x38	9x38	77	7/8	1-3/8	630
1015VH	9RC-1015	46x37x47	8x45	77	7/8	1-5/8	650
1415VH	9RS-1505	46x37x47	9x45	96	7/8	1-5/8	720
2023VH	4RA-2000	46x37x47	9x45	96	7/8	2-1/8	730
2413VH	4RH-2500	46x37x47	9x45	96	7/8	2-1/8	780
2813VH	4RJ-3000	46x37x47	9x45	96	7/8	2-1/8	870
3013VH	6RA-3000	46x37x47	9x45	96	7/8	2-1/8	870

*maximum height varies with control panel, see "Control Panel Dimensions."
 **lbs of refrigerant at 80% capacity.

HIRU DISCUS GENERAL SPECIFICATIONS

R502 LOW TEMPERATURE

Discus HIRU Model	Compr. Model	Dimensions (inches) *HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap**	Liq.	Suc.	
0304RL	2DF-0300	36x29x38	8x38	67	5/8	1-3/8	560
0404RL	2DL-0400	41x29x38	8x38	67	5/8	1-3/8	570
0504RL	2DA-0600	41x29x38	8x38	67	7/8	1-3/8	570
0524RL	2DB-0600	41x29x38	8x38	67	7/8	1-3/8	570
0604RL	3DA-0600	41x29x38	8x38	67	1-1/8	1-3/8	595
0734RL	3DB-0750	46x29x38	9x38	85	1-1/8	1-3/8	640
0934RL	3DF-0900	46x37x47	8x45	80	1-1/8	1-3/8	680
1064RL	3DS-1000	46x37x47	8x45	80	1-1/8	1-3/8	685
1314RL	4DA-1000	46x37x47	8x45	80	1-1/8	1-5/8	725
1514RL	4DL-1500	46x37x47	9x45	99	1-1/8	1-5/8	775
2204RL	4DT-2200	46x37x47	9x45	99	1-3/8	2-1/8	775
2704RL	6DL-2700	46x37x47	9x45	99	1-3/8	2-1/8	825
3014RL	6DT-3000	46x37x47	9x45	99	1-3/8	2-1/8	875

R502 MEDIUM TEMPERATURE

0484RS	2DC-0500	41x29x38	8x38	67	5/8	1-3/8	545
0494RS	2DD-0500	41x29x38	8x38	67	5/8	1-3/8	545
0654RS	2DL-0750	41x29x38	8x45	77	7/8	1-3/8	555
0714RS	2DA-0750	41x29x38	8x45	77	7/8	1-3/8	555
0724RS	3DA-0750	41x29x38	8x45	77	7/8	1-3/8	595
1054RS	3DB-1000	46x37x47	8x45	77	1-1/8	1-3/8	685
1464RS	3DS-1500	46x37x47	9x45	96	1-1/8	1-5/8	705
1964RS	4DA-2000	46x37x47	9x45	96	1-1/8	1-5/8	760
2504RS	4DH-2500	46x37x47	9x45	96	1-1/8	2-1/8	780

R12 MEDIUM TEMPERATURE

0444FS	2DF-0300	41x29x38	8x38	71	7/8	1-3/8	560
0504FS	2DA-0500	41x29x38	8x38	71	7/8	1-3/8	560
0534FS	2DB-0500	41x29x38	8x38	71	7/8	1-3/8	560
0544FS	3DA-0500	41x29x38	8x38	71	7/8	1-3/8	590
0744FS	3DB-0750	46x29x38	9x38	85	1-1/8	1-3/8	610
0914FS	3DS-0750	46x29x38	9x38	85	1-1/8	1-3/8	625
0944FS	3DF-0900	46x37x47	8x45	77	1-1/8	1-3/8	680
1344FS	4DA-1000	46x37x47	8x45	77	1-1/8	1-5/8	725
1534FS	4DH-1500	46x37x47	9x45	96	1-1/8	1-5/8	775
2014FS	4DJ-2000	46x37x47	9x45	96	1-3/8	2-1/8	775
2314FS	6DH-2000	46x37x47	9x45	96	1-3/8	2-1/8	780

R22 MEDIUM AND HIGH TEMPERATURE

0484VH	2DC-0500	41x29x38	8x38	71	5/8	1-3/8	550
0494VH	2DD-0500	41x29x38	8x38	71	5/8	1-3/8	550
0654VH	2DL-0750	41x29x38	8x45	77	7/8	1-3/8	550
0704VH	2DA-0750	41x29x38	8x45	77	7/8	1-3/8	550
0724VH	3DA-0750	41x29x38	8x45	77	7/8	1-3/8	600
1024VH	3DB-1000	46x37x47	8x45	77	1-1/8	1-3/8	685
1464VH	3DS-1500	46x37x47	9x45	96	1-1/8	1-5/8	700
1964VH	4DA-2000	46x37x47	9x45	96	1-1/8	1-5/8	760
2504VH	4DH-2500	46x37x47	9x45	96	1-1/8	2-1/8	780

*maximum height varies with control panel, see "Control Panel Dimensions".

**lbs of refrigerant at 80% capacity.

HICW GENERAL SPECIFICATIONS

R502 LOW TEMPERATURE

HICW Model	Compr. Model	Dimensions (inches) *HxDpXWd	Condenser		Connection Ref. (OD)		Size Water	Estimated Shipping Weight (lbs)
			DxLt	Cap**	Liq.	Suc.	FPT	
0095RL	KAJ-0100	38x29x38	6x30	21	1/2	7/8	3/8	250
0145RL	KAL-0150	38x29x38	6x30	20	1/2	7/8	1/2	260
0165RL	EAA-0150	38x29x38	6x30	20	1/2	7/8	1/2	320
0215RL	EAV-0200	38x29x38	8x30	43	1/2	7/8	1/2	375
0315RL	LAH-0310	38x29x38	8x30	42	1/2	1-1/8	1/2	425
0325RL	LAL-0310	38x29x38	8x30	42	1/2	1-1/8	1/2	425
0495RL	MRA-0500	38x29x38	10x30	62	5/8	1-3/8	3/4	550
0515RL	MRB-0500	38x29x38	10x30	62	5/8	1-3/8	3/4	550
0715RL	9RB-0765	38x29x38	10x30	59	5/8	1-3/8	3/4	600
0915RL	9RS-0765	38x29x38	10x30	59	5/8	1-3/8	3/4	615
1315RL	4RA-1000	42x37x47	10x38	73	7/8	1-5/8	1	710
1515RL	4RL-1500	42x37x47	(2) 10x38	146	7/8	2-1/8	1	850
2015RL	6RA-2000	42x37x47	(2) 10x38	146	7/8	2-1/8	1	975
2515RL	6RL-2500	42x37x47	(2) 10x38	146	7/8	2-1/8	1	1015
3015RL	6RT-3000	42x37x47	(2) 10x38	146	7/8	2-1/8	1	1050

R502 MEDIUM TEMPERATURE

0245RS	ERC-0200	38x29x38	8x30	42	1/2	7/8	1/2	375
0355RS	ERF-0310	38x29x38	8x30	42	1/2	1-1/8	1/2	395
0525RS	NRM-0500	38x29x38	10x30	59	5/8	1-1/8	3/4	525
0725RS	MRH-0760	38x29x38	10x38	73	7/8	1-3/8	1	620
1015RS	9RC-1015	42x37x47	10x38	73	7/8	1-5/8	1	675
1415RS	9RS-1505	42x37x47	(2) 10x38	146	7/8	1-5/8	1	915
1815RS	4RA-2000	42x37x47	(2) 10x38	146	7/8	2-1/8	1	940
2215RS	4RH-2500	42x37x47	(2) 10x38	146	7/8	2-1/8	1	970

R12 MEDIUM TEMPERATURE

0071FS	KAG-0075	38x29x38	6x30	22	1/2	5/8	3/8	275
0091FS	KAJ-0100	38x29x38	6x30	22	1/2	5/8	3/8	275
0101FS	KAK-0100	38x29x38	6x30	22	1/2	7/8	3/8	275
0141FS	KAL-0150	38x29x38	6x30	21	1/2	7/8	1/2	280
0151FS	KAT-0150	38x29x38	6x30	21	1/2	7/8	1/2	280
0211FS	EAV-0200	38x29x38	8x30	46	1/2	7/8	1/2	395
0221FS	EAL-0200	38x29x38	8x30	46	1/2	7/8	1/2	395
0311FS	LAH-0310	38x29x38	8x30	45	1/2	1-1/8	1/2	445
0331FS	LAL-0310	38x29x38	8x30	45	1/2	1-1/8	1/2	445
0521FS	MRF-0500	38x29x38	10x30	65	5/8	1-1/8	3/4	570
0531FS	MRB-0500	38x29x38	10x30	65	5/8	1-3/8	3/4	570
0621FS	9RA-0505	38x29x38	10x30	65	5/8	1-3/8	3/4	605
0721FS	9RC-0765	38x29x38	10x30	63	5/8	1-3/8	3/4	620
0811FS	9RB-0765	38x29x38	10x30	63	5/8	1-3/8	3/4	620
0911FS	9RS-0765	38x29x38	10x30	63	5/8	1-5/8	3/4	630
1311FS	4RA-1000	42x37x47	10x38	80	7/8	1-5/8	1	725
1531FS	4RH-1500	42x37x47	(2) 10x38	160	7/8	2-1/8	1	965
2111FS	6RA-2000	42x37x47	(2) 10x38	160	7/8	2-1/8	1	1090
2311FS	6RH-2000	42x37x47	(2) 10x38	160	7/8	2-1/8	1	1090

*maximum height varies with control panel, see "Control Panel Dimensions."

**lbs of refrigerant at 80% capacity.

HICW GENERAL SPECIFICATIONS

R22 MEDIUM AND HIGH TEMPERATURE

HICW Model	Compr. Model	Dimensions (inches) *HtxDpxWd	Condenser		Connection Ref. (OD)		Size Water	Estimated Shipping Weight (lbs)
			DxLt	Cap**	Liq.	Suc.	FPT	
0213VS	ERC-0200	38x29x38	8x30	40	1/2	7/8	1/2	385
0313VH	ERF-0310	38x29x38	8x30	40	1/2	1-1/8	1/2	400
0333VS	3RA-0310	38x29x38	10x30	59	5/8	1-1/8	3/4	470
0513VH	NRA-0500	38x29x38	10x30	57	5/8	1-1/8	3/4	530
0525VS	NRM-0500	38x29x38	10x30	57	5/8	1-1/8	3/4	530
0623VH	MRH-0760	38x29x38	10x38	71	7/8	1-3/8	1	625
0743VS	9RJ-0765	38x29x38	10x38	71	7/8	1-3/8	1	660
1015VH	9RC-1015	42x37x47	10x38	71	7/8	1-5/8	1	685
1415VH	9RS-1505	42x37x47	(2) 10x38	142	7/8	1-5/8	1	915
2023VH	4RA-2000	42x37x47	(2) 10x38	142	7/8	2-1/8	1	945
2413VH	4RH-2500	42x37x47	(2) 10x38	142	7/8	2-1/8	1	975
2813VH	4RJ-3000	42x37x47	(2) 10x38	142	7/8	2-1/8	1	1065
3013VH	6RA-3000	42x37x47	(2) 10x38	142	7/8	2-1/8	1	1030

HICW DISCUS GENERAL SPECIFICATIONS

R502 LOW TEMPERATURE

Discus HICW Model	Compr. Model	Dimensions (inches) *HtxDpxWd	Condenser		Connection Ref. (OD)		Size Water	Estimated Shipping Weight (lbs)
			DxLt	Cap**	Liq.	Suc.	FPT	
0304RL	2DL-0300	38x29x38	8x30	42	5/8	1-3/8	1/2	500
0404RL	2DL-0400	38x29x38	10x30	59	5/8	1-3/8	3/4	570
0504RL	2DA-0600	38x29x38	10x30	59	5/8	1-3/8	3/4	570
0524RL	2DB-0600	38x29x38	10x30	59	5/8	1-3/8	3/4	570
0604RL	3DA-0600	38x29x38	10x30	59	5/8	1-3/8	3/4	620
0734RL	3DB-0750	38x29x38	10x30	59	5/8	1-3/8	3/4	625
0934RL	3DF-0900	38x29x38	10x38	73	7/8	1-3/8	1	690
1064RL	3DS-1000	42x37x47	10x38	73	7/8	1-3/8	1	695
1314RL	4DA-1000	42x37x47	10x38	73	7/8	1-5/8	1	730
1514RL	4DL-1500	42x37x47	(2) 10x38	146	7/8	1-5/8	1	970
2204RL	4DT-2200	42x37x47	(2) 10x38	146	7/8	1-1/8	1	960
2704RL	6DL-2700	42x37x47	(2) 10x38	146	7/8	2-1/8	1	1025
3014RL	6DT-3000	42x37x47	(2) 10x38	146	7/8	2-1/8	1	1065

R502 MEDIUM TEMPERATURE

0484RS	2DC-0500	38x29x38	10x30	62	5/8	1-3/8	3/4	550
0494RS	2DD-0500	38x29x38	10x30	62	5/8	1-3/8	3/4	550
0654RS	2DL-0750	42x37x47	10x38	73	7/8	1-3/8	1	625
0714RS	2DA-0750	42x37x47	10x38	73	7/8	1-3/8	1	625
0724RS	3DA-0750	42x37x47	10x38	59	7/8	1-3/8	1	650
1054RS	3DB-1000	42x37x47	(2) 10x38	146	7/8	1-3/8	1	900
1464RS	3DS-1500	42x37x47	(2) 10x38	146	7/8	1-5/8	1	900
1964RS	4DA-2000	42x37x47	(2) 10x38	146	7/8	1-5/8	1	955
2504RS	4DH-2500	42x37x47	(2) 10x38	146	7/8	2-1/8	1	975

*maximum height varies with control panel, see "Control Panel Dimensions".

**lbs of refrigerant at 80% capacity.

HICW DISCUS GENERAL SPECIFICATIONS R12 MEDIUM TEMPERATURE

HICW Model	Compr. Model	Dimensions (inches) *HtxDpxWd	Condenser		Connection Ref. (OD)		Size Water FPT	Estimated Shipping Weight (lbs)
			DxLt	Cap**	Liq.	Suc.		
0444FS	2DF-0300	38x29x38	10x30	65	5/8	1-3/8	3/4	565
0504FS	2DA-0500	38x29x38	10x30	65	5/8	1-3/8	3/4	565
0534FS	2DB-0500	38x29x38	10x30	65	5/8	1-3/8	3/4	565
0544FS	3DA-0500	38x29x38	10x30	65	5/8	1-3/8	3/4	620
0744FS	3DB-0750	38x29x38	10x30	65	5/8	1-3/8	3/4	635
0944FS	3DF-0900	42x37x47	10x38	80	7/8	1-3/8	1	690
0914FS	3DS-0750	42x37x47	10x38	80	7/8	1-3/8	1	940
1344FS	4DA-1000	42x37x47	(2) 10x38	160	7/8	1-5/8	1	970
1534FS	4DH-1500	42x37x47	(2) 10x38	160	7/8	1-5/8	1	970
2014FS	4DJ-2000	42x37x47	(2) 10x38	160	7/8	2-1/8	1	970
2314FS	6DH-2000	42x37x47	(2) 10x38	160	7/8	2-1/8	1	970

R22 MEDIUM AND HIGH TEMPERATURE

0484VH	2DC-0500	38x29x38	10x30	59	5/8	1-3/8	3/4	550
0494VH	2DD-0500	38x29x38	10x30	59	5/8	1-3/8	3/4	550
0654VH	2DL-0750	38x29x38	10x38	71	7/8	1-3/8	1	610
0704VH	2DA-0750	38x29x38	10x38	71	7/8	1-3/8	1	610
0724VH	3DA-0750	42x37x47	10x38	59	7/8	1-3/8	1	650
1024VH	3DB-1000	38x29x38	10x38	71	7/8	1-3/8	1	695
1464VH	3DS-1500	42x37x47	(2) 10x38	142	7/8	1-5/8	1	905
1964VH	4DA-2000	42x37x47	(2) 10x38	142	7/8	1-5/8	1	960
2504VH	4DH-2500	42x37x47	(2) 10x38	142	7/8	2-1/8	1	975

COPELAWELD GENERAL SPECIFICATIONS

INDOOR UNITS

Hermetic HICA Model	Compr. Model	Dimensions (inches) *HtxDpxWd	Receiver		Connection Size (OD)		Estimated Shipping Weight (lbs)
			Size	Cap**	Liq.	Suc.	
0152VH	CRA-0150	38x29x29	6x29	24	1/2	5/8	275
0202VH	CRD-0200	40x29x38	6x29	24	1/2	5/8	310
0252VH	CRG-0250	40x29x38	6x29	24	1/2	7/8	315
0312VH	CRJ-0300	40x29x38	6x29	24	1/2	7/8	315
0352VH	CRL-0350	44x29x47	6x29	24	1/2	7/8	380
0402VH	CRM-0400	44x29x47	6x29	24	1/2	7/8	390
0502VH	CRN-0500	44x29x47	6x29	24	1/2	7/8	395
0752VH	BRE-0750	50x37x47	8x38	64	5/8	1-1/8	545
0902VH	BRG-0900	50x37x47	8x38	64	5/8	1-1/8	545

OUTDOOR UNITS

0152VH	CRA-0150	35x34x39	6x29	24	1/2	5/8	350
0202VH	CRD-0200	40x34x39	6x29	24	1/2	5/8	395
0252VH	CRG-0250	40x34x39	6x29	24	1/2	7/8	395
0312VH	CRJ-0300	40x34x39	6x29	24	1/2	7/8	400
0352VH	CRL-0350	44x41x47	6x29	24	1/2	7/8	490
0402VH	CRM-0400	44x41x47	6x29	24	1/2	7/8	500
0502VH	CRN-0500	44x41x47	6x29	24	1/2	7/8	505
0752VH	BRE-0750	50x41x47	8x38	64	5/8	1-1/8	665
0902VH	BRG-0900	50x41x47	8x38	64	5/8	1-1/8	665

*maximum height varies with control panel, see "Control Panel Dimensions."

**lbs of refrigerant at 80% capacity.

CONTROL PANEL DIMENSIONS

To determine the overall height of the control panel, add 12 inches to the height shown below to compensate for the leg height of the compressor base. Add 14 inches for HICW units.

INDOOR CONTROL PANEL DIMENSIONS

Panel Nomenclature		Dimensions HtxWdxDp (in.)
"IK"	"IM"	
10-13, 18-21, 26-29, 34-37 42-49, 59-66, 76, 77, 124-131	—	24 x 11.5 x 5.6
14, 15, 22, 23, 30, 31, 38 39, 50-53, 67-70, 78-84 103, 105, 132-135	10-33, 90-93	28.2 x 13 x 7.6
16, 17, 24, 25, 32, 33, 40 41, 54-58, 71-75, 85-90, 96, 97, 104	34-74, 76, 87-89, 94, 95, 97	28.2 x 15 x 7.6
91-95, 98-102	75, 77	33.2 x 16 x 7.6

OUTDOOR CONTROL PANEL DIMENSIONS

Panel Nomenclature		Dimensions HtxWdxDp (in.)
"OK"	"OM"	
10-13, 18-21, 26-29, 34-39 41, 42, 54, 55, 68-79, 80-84	—	24 x 11.5 x 5.6
14, 15, 22, 23, 30, 31, 40 43-45, 47, 48, 58-63, 85, 86	11-15, 17-21, 23-27, 57-69	28.2 x 13 x 7.6
16, 17, 24, 25, 32, 33, 46 49, 50-53, 64-67	31-45, 49-53, 55	28.2 x 15 x 7.6
—	54, 56	33.2 x 16 x 7.6

ACCESSORY DESCRIPTION

The following provides descriptions of factory and field installed conventional unit accessories. Complete kit nomenclatures are shown at the end of individual unit sections.

Current Sensing Relay (factory installed)—Recommended for Copelametic compressors equipped with both oil pumps and internal inherent motor protection. It applies to all 5 and 7-1/2 hp compressors, and 9 body, 10 hp Discus compressors. 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.

Vibration Eliminator (field or factory installed)—All units have spring mounted compressors and suction line vibration eliminators are recommended where shown in the accessory selection

table. Discharge vibration eliminators are factory installed as standard on HICA and HOCA units, or units equipped with winter control valve.

Suction Line Filter (field or factory installed)—Recommended for all new installations. They are throw-away, brass or steel-body filters equipped with a Schrader pressure tap. The additional pressure drop reduces compressor unit capacity by approximately 2%. (Factory installed includes suction line vibration eliminator.)

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.

Motor Contactors (field installed) — Provides contactors for single and three phase applications. Should be applied when control panel is not ordered.

Heat Reclaim (factory installed)—Requires selection of several components. Units applied to coolers and preparation areas, or smaller than 3 hp, should not be used for heat reclaim as they do not provide much heat recovery. Heat reclaim valves are 3-way/4-way valves which bleed the heat reclaim coil to compressor suction when the valve is de-energized. Valves are equipped with 120 volt solenoids. A temperature control device must be provided. If not included in electronic climate control (such as an HCD panel), select a T25A two-stage thermostat. A heat reclaim coil can be sized when the following parameters are provided: model number and application of units to be utilized, air handler volume (CFM), static pressure drop (inches of water), and dimensional limitations. When CFM, static pressure, and dimensions are not fixed, Hussmann will assume a 500 FPM coil face velocity and compare the remaining variables. The quoted coil then must be checked to see if it is compatible with the store.

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. Driers for oversize receivers, and removable core drier kits for standard and oversize receivers, 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 pump down

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) — Should be applied to HOCA and HIRU air cooled condensers in areas where the ambient temperature can be lower than 60°F. See "Oversize Receivers." Kit includes vibration eliminator.

Oversize Receivers and Driers (factory installed) — Must be selected when winter controls are specified, or when additional pump down capacity is required due to long piping runs to refrigerator.

Crankcase Heater (factory installed) — Standard on all HOCA units. Used to protect against refrigerant migration caused by compressor exposure to ambient temperatures colder than the evaporator and compressor during off cycle. Oil temperature is kept high enough to evaporate liquid refrigerant, thereby creating a pressure that prevents large-scale migration.

Ball Bearing Condenser Fans (factory installed) — Provides ball bearing fans to replace standard sleeve bearing fans which require periodic lubrication. Ball bearing fans are standard on all HOCA units and require no lubrication.

Fan Cycling Pressure Control (factory installed) — Required with Heat Reclaim option, or in areas where ambient temperature can be lower than 60°F. Provides pressure control to cycle HICA and HOCA unit condenser fans. For 5 hp units and larger, one condenser fan will not cycle off unless the compressor cycles off in order to provide compressor cooling. Smaller units, through 3 hp, have only one condenser fan; fan cycling controls for these units include a compressor body cooling fan to provide cooling when the condenser fan cycles off.

Automatic Water Regulating Valve (factory installed) — Regulates water flow into the water cooled condenser. Recommended for all water cooled installations without any other regulating device, or where inlet water temperature is below 75°F.

Water Regulating Valve with Bypass Hand Gate Valve (factory installed) — Kit includes water regulating valve and a bypass with a hand valve. Should the water regulating valve fail, water flow can still be maintained to the condenser.

Shipping Crate — Required for all LTL (Light Truckload) shipments, or at customer request, to protect the condensing unit from damage during transit.

DEFROST TIMER SPECIFICATIONS

The following timers are for both indoor and outdoor control panel applications.

Defrost Term. Type	Vendor Model No.		Defrost Adjustment Range		Contact Spec.		
	Paragon	Precision	Frequency	Fail Safe	Normal Open	Normal Closed	Amp. Rate
Press. (1)	8245-20B	6245-20B	1 to 6 per day minimum of 4 hr between starts	4-110 min in 2 min increments	1	1	40 2 hp
Temp. or Time (2)	8145-20B	6145-20B	1 to 6 per day minimum of 4 hr between starts	4-110 min in 2 min increments	1	1	40 2 hp
Temp. or Time (2)	A633-20B	6633-20B	1 to 6 per day minimum of 4 hr between starts	4-110 min in 2 min increments	(3)	1	345V Pilot Duty
Time	4004-20B	CD104-B spec 1546	1-7 per day (4) minimum of 4 hr between starts	minimum of 90 min	1	1	40 1 hp

NOTES:

- (1) Pressure termination adjustable from 36 to 110 psi.
- (2) Defrost termination solenoid is energized by a close on temperature rise thermostat at refrigerator. If thermostat is not required, defrost is time terminated.
- (3) Time has one set of contacts which will delay start of defrost approximately 4 to 6 minutes for pump down.
- (4) Two trippers (enough for one defrost per day) furnished with timer.

COPELAND COMPRESSOR ELECTRICAL DATA
RLA AND MINIMUM CIRCUIT AMPACITY (AIR DEFROST)

The values shown are for air defrost only. With electric defrost, the minimum circuit ampacity is the larger of 1. the values in the table below, or 2. the maximum defrost amperage of the control panel. The values shown are for sizing only, **actual running amperes may differ.**

CONVENTIONAL UNIT RLA AND MCA

Unit Model	208V COMPRESSOR			460V COMPRESSOR			
	RLA	MCA		460V		208-230V	
		HICA,HOCA,HIRU	HICA,HOCA	HIRU	RLA	MCA	MCA
	HICA,HOCA,HIRU	HICA,HOCA	HIRU	HICA,HOCA,HIRU	HICA,HOCA,HIRU	HICA,HOCA	HIRU
0051	2	6					
0071	3	7				6	
0091, 0095, 0101	4	9	6	2	3	6	3
0141, 0145, 0151, 0165	6	11	9	3	4	6	3
0211, 0213, 0215, 0221, 0225, 0245	8	14	11	4	5	6	3
0304	16	24	22	8	10	6	3
0311, 0313, 0315	12	18	16	6	8	6	
0321	12	16		6	8	3	
0325, 0331, 0333, 0335, 0355	12	18	16	6	8	6	3
0345				6	8	6	3
0375	12		16	6	8		3
0404	24	36		11	14	8	
0444	16	24	22	8	10	6	3
0475	23		31	11	14	3	
0484, 0494	23	35	30	11	14	8	3
0495, 0504, 0513, 0515, 0521, 0525, 0531, 0544, 0621	23	35	31	11	14	8	3
0524	26	39	34	14	17	8	3
0534	18	24	24	11	14	8	3
0604	24	36	32	11	14	8	3
0654	32	48	42	14	17	8	3
0704, 0714	32	46	42	14	17	8	3
0623, 0715, 0721, 0725, 0734, 0735, 0743, 0744, 0811, 0911, 0914, 0915	32	46	42	18	23	8	3
0705, 0711	32	42		18	23	8	3
0934, 0944	33	48	43	18	23	8	3
0954	—	—		18	23	8	3
1015	41	58		20	25	8	3
1024, 1054	41	58	53	25	32	8	3
0724, 1064	41	58	53	18	23	8	3
1311, 1314, 1315, 1344	50	69	64	25	32	8	3
1415, 1425, 1464, 1474, 1514, 1515, 1524, 1525, 1531, 1534, 1541, 1544	57	80	73	29	37	10	3
1815, 1825, 1964, 1974, 2013, 2014, 2015, 2023, 2024, 2025	68	96	87	34	44	12	3
2111, 2121	68	94		34	44	11	3
2204, 2214	68	96	87	34	44	12	

COPELAND COMPRESSOR ELECTRICAL DATA

CONVENTIONAL UNIT RLA AND MCA (Continued)

Unit Model	208V COMPRESSOR			460V COMPRESSOR			
	RLA	MCA		460V		208-230V	
		HICA, HOCA, HIRU	HICA, HOCA	HIRU	RLA	MCA	MCA
	HICA, HOCA, HIRU	HICA, HOCA	HIRU	HICA, HOCA, HIRU	HICA, HOCA, HIRU	HICA, HOCA	HIRU
2215, 2225	89	120	111	44	55	12	
2311, 2314, 2321, 2324	68	96	87	34	44	12	3
2413, 2423, 2504, 2514, 2515, 2525, 2704, 2714	89	120	111	44	55	12	3
2813, 2823	100	136		50	63	12	3
2824	106		134	53	67	3	
2834	106	145		53	67	12	
3013, 3014, 3015	100	136	127	50	63	12	3
3023, 3024, 3025	100	136		50	63	12	
3504	113		143	57	72	3	
3513	121		153	61	77	3	

COPELAWELD COMPRESSOR ELECTRICAL DATA

MINIMUM CIRCUIT AMPACITY — AIR DEFROST*

Unit Model Number	HICA/HOCA			
	230/1/60 (D)	208/3/60 (K)	460/208/3/60 (M)	
			208	460
0152	16	—	—	—
0202	18	—	—	—
0252	22	18	3	6
0312	28	19	3	8
0352	—	24	5	9
0402	—	25	5	10
0502	—	29	5	11
0752	—	39	5	18
0902	—	49	5	21

*The values shown are for sizing only, actual running amperes may differ.