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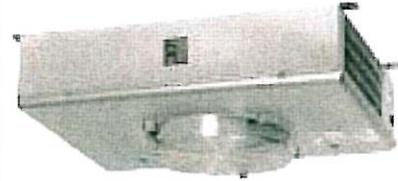
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REACH-IN UNIT COOLERS

DF Dual Flow

- Unit coolers model DF are ideal for reach-ins, back bars, beverage coolers, and other similar applications.
- Unit mounts to the ceiling of the cooler where dual coils and two-sided air discharge provide even air distribution from both sides and increase air circulation within the cabinet (single coil and single-sided air discharge on model DF-070).
- Sufficient space provided to mount the thermal expansion valve within the cabinet.
- Cabinets are fabricated from heavy gauge aluminum, stainless steel screws and rust proof hardware.
- Die formed fan venturi ensures low decibel noise level and optimum air circulation.
- Impedance protected heavy-duty fan motors, designed for low noise level, long life and dependability.
- High grade, polypropylene fan and polycarbonate fan guard are provided for consistency of blades pitch and guard openings.

Cooler
Above +34°F



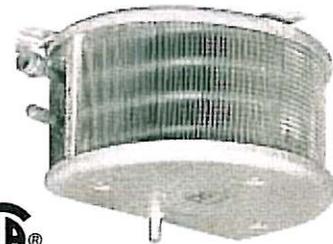
MODEL	CAPACITY (BTU/h)		CFM	MOTORS		FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R 404A R 507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMP		LENGTH	HEIGHT	DEPTH	LIQ. FN	SUCT. O.D.		
DF-070	700	1050	100	1	0.5	6	15 3/8	4 3/8	9 7/8	1/4 O.D.	3/8	0.3	7
DF-090	900	1350	150	1	0.5	6	19 1/2	4 3/4	14 3/8	1/2	3/8	0.3	11
DF-110	1100	1650	140	1	0.5	6	19 1/2	4 3/4	14 3/8	1/2	3/8	0.4	12
DF-130	1300	1950	220	1	0.5	7 3/4	19 1/2	4 3/4	14 3/8	1/2	3/8	0.4	12
DF-150	1500	2250	185	1	0.5	7 3/4	19 1/2	4 3/4	14 3/8	1/2	3/8	0.6	12
DF-180	1800	2700	210	1	0.6	8	19 1/2	4 3/4	14 3/8	1/2	3/8	0.7	13
DF-230	2300	3450	310	1	0.6	8	22 1/2	5 3/4	17 5/8	1/2	3/8	0.9	15
DF-300	3000	4500	410	1	0.6	10	22 1/2	5 3/4	17 5/8	1/2	3/8	1.1	16

- Internally equalized expansion valve operation.
- All unit electricals are 120/1/60 (240/1/60 optional).
- All drain connections 1/2" O.D.
- (1) Multiply by 1.11 for R-22 refrigerant.

DL Half Round

- Unit coolers model DL are compact designed to allow maximum usage of reach-ins and beverage coolers.
- It mounts to the ceiling of the cooler where unit draws air in through the coil and discharge air at the back on both sides through the fan in order to reduce door sweating.
- Cabinets are fabricated from heavy gauge aluminum, stainless steel screws and rust proof hardware.
- Die formed fan Venturi ensures low decibel noise level and optimum air circulation.
- Impedance protected heavy-duty fan motors, designed for low noise level, long life and dependability.
- High grade, non-deformable polypropylene fan is provided for consistency of blades pitch.

Cooler
Above +34°F



MODEL	CAPACITY (BTU/h)		CFM	MOTORS		FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R 404A R 507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMP		LENGTH	HEIGHT	DEPTH	LIQ. FN	SUCT. O.D.		
DL-060	600	900	165	1	0.5	6	12 3/4	6 3/4	9 3/4	1/2	1/2	0.2	7
DL-090	900	1350	340	1	0.5	7 3/4	12 3/4	10	9 3/4	1/2	1/2	0.3	8
DL-120	1200	1800	390	1	0.6	8	16 1/4	10	12 1/4	1/2	1/2	0.4	10
DL-220	2200	3300	400	1	0.6	8	16 1/4	11 1/2	12 1/4	1/2	1/2	0.7	14

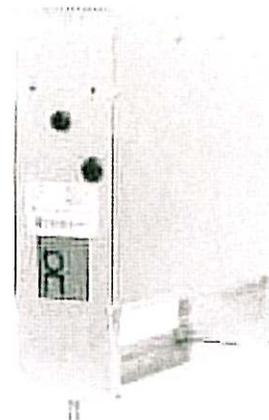
- Internally equalized expansion valve operation.
- All unit electricals are 120/1/60 (240/1/60 optional).
- All drain connections 1/2" O.D.
- (2) Multiply by 1.11 for R-22 refrigerant.

REACH-IN UNIT COOLERS

MU Mullion

- Unit coolers model MU are economical thin-line designed to allow maximum usage of reach-ins and beverage coolers for product storage.
- The unit can be mounted on the back wall, on the ends of the cooler or behind the mullion.
- Special fan arrangement draws air at the top and discharges at the bottom on one or both sides of the unit,
- Cabinets are fabricated from heavy gauge aluminum, stainless steel screws and rust proof hardware.
- Impedance protected heavy-duty fan motors, designed for low noise level, long life and dependability.
- Sufficient space provided to mount the thermal expansion valve within the cabinet.
- High grade, polypropylene fan and zinc iridite plated steel wire fan guard are provided for consistency of blades pitch and guard openings.

Cooler
Above +34°F



MODEL	CAPACITY (BTU/h)		CFM	MOTORS		FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ¹ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10 FDT	15 FDT		QTY	AMP		LENGTH	HEIGHT	DEPTH	LIQ FN	SUCT O.D.		
MU-135	1350	2025	210	2	1.4	5	15 5/8	18 3/4	5 1/2	1/2	3/8	0.4	14
MU-165	1650	2475	180	2	1.4	5	15 5/8	18 3/4	5 1/2	1/2	3/8	0.6	16
MU-235	2350	3525	270	3	2.1	5	22	18 3/4	5 1/2	1/2	1/2	0.9	22

- Internally equalized expansion valve operation.
 - All unit electricals are 120/1/60 (240/1/60 optional).
 - All drain connections 1/2" O.D.
- (1) Multiply by 1.11 for R-22 refrigerant.



SX Space Saver

- Unit coolers model SX are compact designed to allow maximum usage of reach-ins and beverage coolers.
- The unit can be mounted on the back wall or the ceiling of the cooler, where it draws air through the fan and discharges in the back to reduce door sweating.
- Cabinets are fabricated from heavy gauge aluminum, stainless steel screws and rust proof hardware.
- Sufficient space provided to mount the thermal expansion valve within the cabinet.
- Impedance protected heavy-duty fan motors, designed for low noise level, long life and dependability.
- High grade, polypropylene fan and polycarbonate fan guard are provided for consistency of blades pitch and guard openings.

Cooler
Above +34°F



MODEL	CAPACITY (BTU/h)		CFM	MOTORS		FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ¹ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10 FDT	15 FDT		QTY	AMP		LENGTH	HEIGHT	DEPTH	LIQ FN	SUCT O.D.		
SX-070	700	1050	160	1	0.7	5	14 3/8	6 7/8	7 7/8	1/2	3/8	0.2	6
SX-095	950	1430	150	1	0.7	5	14 3/8	6 7/8	7 7/8	1/2	3/8	0.3	6
SX-110	1100	1650	250	1	0.7	6	17 3/8	7 7/8	7 7/8	1/2	3/8	0.3	8
SX-140	1400	2100	240	1	0.7	6	17 3/8	7 7/8	7 7/8	1/2	3/8	0.5	8

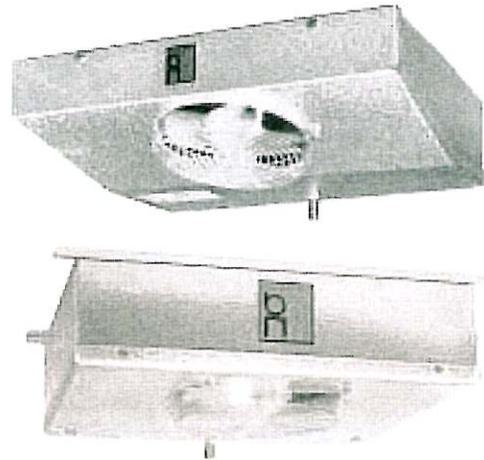
- Internally equalized expansion valve operation.
 - All unit electricals are 120/1/60 (240/1/60 optional).
 - All drain connections 1/2" O.D.
- (2) Multiply by 1.11 for R-22 refrigerant.

REACH-IN UNIT COOLERS

ST Slim Topper STE Slim Topper Electric Defrost

- Unit coolers models ST and STE are low silhouette designed to allow maximum usage for reach-ins, beverage coolers and freezers (model STE only).
- Low air velocity minimizes product dehydration and provides ideal storage conditions.
- It mounts to the ceiling of the cooler where units draws air through the fans and discharges in the back to reduce door sweating.
- Cabinets are fabricated from heavy gauge aluminum, stainless steel screws and rust proof hardware.
- Sufficient space provided to mount the thermal expansion valve within the cabinet.
- High density electric heaters with factory set fan delay and defrost termination thermostats are installed for a fast and complete coil de-icing (model STE only).
- Die formed fan venturi ensures low decibel noise level and optimum air circulation.
- Impedance protected heavy-duty fan motors, designed for low noise level, long life and dependability.
- High grade, polypropylene fan and polycarbonate fan guard are provided for consistency of blades pitch and guard openings.

ST Cooler
Above +34°F



STE Freezer
+34°F à -20°F



MODEL	CAPACITY (BTU/h)		CFM	MOTORS		FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R 404A* R 507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMP		LENGTH	HEIGHT	DEPTH	LIQ FN	SUCT O.D.		
ST-091	900	1350	180	1	0.7	6	17	4 1/2	13 3/4	1/2	3/8	0.3	9
ST-111	1100	1650	165	1	0.7	6	17	4 1/2	13 3/4	1/2	3/8	0.3	10
ST-141	1400	2100	185	1	0.7	6	22	4 1/2	13 3/4	1/2	3/8	0.6	12
ST-181	1800	2700	235	1	0.7	6	26	4 1/2	13 3/4	1/2	3/8	0.7	13
ST-231	2300	3450	340	2	1.4	6	34 1/2	4 1/2	13 3/4	1/2	3/8	0.7	19
ST-276	2750	4125	360	2	1.4	6	34 1/2	4 1/2	13 3/4	1/2	3/8	0.9	20
ST-331	3300	4950	430	3	1.4	6	34 1/2	5 1/2	13 3/4	1/2	3/8	1.1	22
ST-431	4300	6450	500	3	2.1	6	43 1/2	5 1/2	13 3/4	1/2	3/8	1.7	29
ST-531	5300	7950	620	3	2.1	6	51 1/2	5 1/2	13 3/4	1/2	3/8	2.0	33

Internally equalized expansion valve operation.
All unit electricals are 120/1/60.
All drain connections 1/2" O.D.
(1) Multiply by 1.11 for R-22 refrigerant.

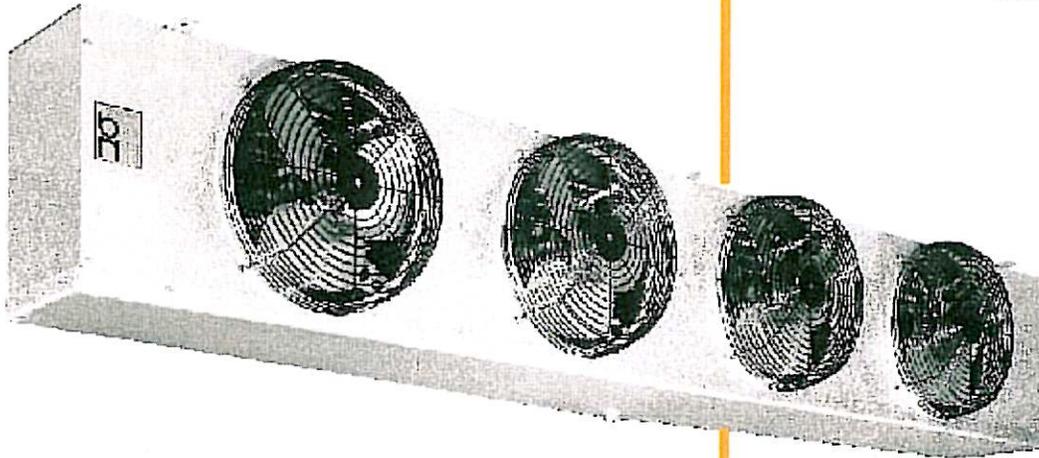
MODEL	CAPACITY @10' FDT (BTU/h)		CFM	ELECTRICALS (1 PHASE)				FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R 404A* R 507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)	
	EVAP TEMP			VOLTS	MOTORS		HEATERS		LENGTH	HEIGHT	DEPTH	LIQ FN	SUCT O.D.			
	+20°F	-20°F			QTY	AMP	watts									AMP
STE-130	1300	1110	190	120	1	0.6	450	3.8	8	20 1/8	4 3/4	17 1/4	1/2	3/8	0.4	16
STE-150	1500	1280	250	120	1	0.6	450	3.8	8	20 1/8	5 3/4	17 1/4	1/2	3/8	0.5	17
STE-170	1700	1450	210	120	1	0.6	450	3.8	8	20 1/8	5 3/4	17 1/4	1/2	3/8	0.7	19
STE-240*	2400	2040	260	120	1	0.6	600	5.0	10	25 1/8	5 3/4	17 1/4	1/2	1/2	0.9	21
STE-241*	2400	2040	280	240	1	0.3	600	2.5	10	25 1/8	5 3/4	17 1/4	1/2	1/2	0.9	21
STE-340*	3400	2850	420	120	2	1.2	900	7.5	8	35 1/8	5 3/4	17 1/4	1/2	1/2	1.3	34
STE-341*	3400	2890	420	240	2	0.6	900	3.8	8	35 1/8	5 3/4	17 1/4	1/2	1/2	1.3	34
STE-480*	4800	4080	560	120	2	1.2	1200	10.0	10	45 1/8	5 3/4	17 1/4	1/2	1/2	1.7	38
STE-481*	4800	4080	560	240	2	0.6	1200	5.0	10	45 1/8	5 3/4	17 1/4	1/2	1/2	1.7	38
STE-520*	5200	4420	600	120	2	1.2	1200	10.0	10	45 1/8	5 3/4	17 1/4	1/2	1/2	2.1	40
STE-521	5200	4420	600	240	2	0.6	1200	5.0	10	45 1/8	6 3/4	17 1/4	1/2	1/2	2.1	40

Externally equalized expansion valve is required with these models. All drain connections 1/2" O.D.
Refrigerant charge with +20°F refrigerant.
Multiply by 1.06 for -20°F refrigerant.
Multiply by 1.11 for R-22 refrigerant.

WALK-IN UNIT COOLERS

Series LS Low Silhouette

Cooler
Above +34°F



- Unit coolers series LS are constructed of heavy gauge aluminum, stainless steel screws and rust proof hardware with rounded corners on drain pan for hygiene and ease of cleaning.
- Total accessibility to expansion valve, electrical connections and components.
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.
- Engineered draw through design with 12" aluminum fan blades provide uniform air distribution.
- Fan guards are constructed of zinc iridite plated steel wire.
- Fan motors have thermal protection and life lubricated sleeve bearings.



LS-A Low Silhouette Air Defrost

See notes at the bottom of page 7.

- Unit coolers model LS-A are ideal for use in walk-in coolers, refrigerated warehouses, meat holding rooms and all other similar commercial applications.

MODEL	CAPACITY (BTU/h)		CFM	MOTORS		UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R 404A™ R 507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMP	LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.		
LS-0391-AB	3900	5850	980	1	2.0	32	15 1/4	12 3/4	1/2	5/8	0.9	31
LS-0531-AB	5320	7980	940	1	2.0	32	15 1/4	12 3/4	1/2	5/8	1.3	33
LS-0631-AB	6270	9405	900	1	2.0	32	15 1/4	12 3/4	1/2	5/8	1.7	35
LS-0841-AB	8940	13600	1760	2	4.0	44	15 1/4	12 3/4	1/2	7/8	1.9	48
LS-0921-AB	9220	13830	1760	2	4.0	44	15 1/4	12 3/4	1/2	7/8	1.9	49
LS-1061-AB	10560	15840	1870	2	4.0	52	15 1/4	12 3/4	1/2	7/8	2.4	55
LS-1251-AB	12460	18690	1800	2	4.0	52	15 1/4	12 3/4	1/2	7/8	3.2	60
LS-1581-AB	15790	23685	2000	3	6.0	72	15 1/4	12 3/4	1/2	7/8	3.5	77
LS-1871-AB	18740	28110	2700	3	6.0	72	15 1/4	12 3/4	1/2	7/8	4.7	84
LS-2111-AB	21110	31885	3740	4	8.0	82	15 1/4	12 3/4	1/2	1 1/8	4.6	99
LS-2641-AB	26350	39525	4670	5	10.0	112	15 1/4	12 3/4	7/8	1 1/8	5.7	121
LS-3121-AB	31200	46800	4500	5	10.0	112	15 1/4	12 3/4	7/8	1 1/8	7.6	135
LS-3651-AB	36520	54780	5340	6	12.0	112	17 1/4	12 3/4	7/8	1 1/8	8.7	150

WALK-IN UNIT COOLERS

LS-E Low Silhouette Electric Defrost
LS-G Low Silhouette Hot Gas Defrost
LS-H Low Silhouette Hot Gas Defrost

Freezer
+34°F to -20°F

- Unit coolers model LS-E, G and H are designed for use in walk-in rooms, frozen food storage, supermarket food storage and where low temperature cooling is required.
- Models LS-E are supplied with incoloy defrost heaters inserted in the coil face, drain pan heater factory set fan delay and defrost termination thermostat.
- Models LS-G and LS-H are supplied with hot gas loop installed in the drain pan, expansion valve by-pass kit and a factory set fan delay thermostat.

MODEL	CAPACITY @10°F AT (BTU/h)		CFM	ELECTRICALS				UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ⁽¹⁾ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	EVAP TEMP			MOTORS		HEATERS		LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.		
	+20°F	-20°F		QTY	AMP	watts	AMP							
LS-0501-E6	5000	4250	900	1	1.0	1400	5.8	32	15 1/4	12 3/4	1/2	5/8	1.3	35
LS-0571-E6	5700	4850	900	1	1.0	1400	5.8	32	15 1/4	12 3/4	1/2	5/8	1.3	41
LS-0841-E6	8400	7140	1650	2	2.0	2100	8.8	44	15 1/4	12 3/4	1/2	7/8	1.9	50
LS-0991-E6	9900	8330	1650	2	2.0	3100	8.6	44	15 1/4	12 3/4	1/2	7/8	2.6	55
LS-1131-E6	11300	9605	1800	2	2.0	2700	11.3	52	15 1/4	12 3/4	1/2	7/8	3.2	62
LS-1421-E6	14200	12070	2700	3	3.0	4000	16.7	72	15 1/4	12 3/4	1/2	1 1/8	3.5	81
LS-1691-E6	16900	14365	2700	3	3.0	4000	16.7	72	15 1/4	12 3/4	1/2	1 1/8	4.7	88
LS-2261-E6	22600	19210	3600	4	4.0	6300	22.1	92	15 1/4	12 3/4	1/2	1 1/8	6.2	115
LS-2821-E6	28200	23970	4500	5	5.0	7000	29.2	112	15 1/4	12 3/4	7/8	1 1/8	7.6	139
LS-3301-E6	33000	28050	5340	6	6.0	7000	29.2	112	15 1/4	12 3/4	7/8	1 1/8	8.7	154

MODEL	CAPACITY @10°F AT (BTU/h)		CFM	MOTORS		UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ⁽¹⁾ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	EVAP TEMP			QTY	AMP	LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.		
	+20°F	-20°F										
LS-0501-G6	5000	4250	900	1	2.0	32	15 1/4	12 3/4	1/2	5/8	1.3	35
LS-0571-G6	5700	4845	900	1	2.0	32	15 1/4	12 3/4	1/2	5/8	1.7	37
LS-0841-G6	8400	7140	1650	2	4.0	44	15 1/4	12 3/4	1/2	7/8	1.9	50
LS-0991-G6	9900	8330	1650	2	4.0	44	15 1/4	12 3/4	1/2	7/8	2.6	53
LS-1131-G6	11300	9605	1800	2	4.0	52	15 1/4	12 3/4	1/2	7/8	3.2	62
LS-1421-G6	14200	12070	2700	3	6.0	72	15 1/4	12 3/4	1/2	1 1/8	3.5	81
LS-1691-G6	16900	14365	2700	3	6.0	72	15 1/4	12 3/4	1/2	1 1/8	4.7	86
LS-2261-G6	22600	19210	3600	4	8.0	92	15 1/4	12 3/4	1/2	1 1/8	6.2	112
LS-2821-G6	28200	23970	4500	5	10.0	112	15 1/4	12 3/4	1/2	1 1/8	7.6	137
LS-3301-G6	33000	28050	5340	6	12.0	112	17 1/4	12 3/4	1/2	1 1/8	8.7	156

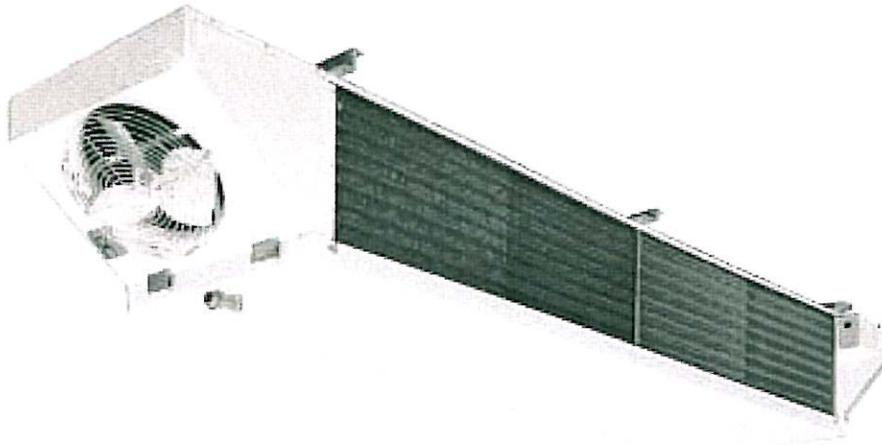
(1) Refrigerant charge with +20°F for R-404A refrigerant. Multiply by 1.06 for -20°F refrigerant. Multiply by 1.11 for R-22 refrigerant.

- Use suffix "G" for reverse cycle hot gas defrost.
- Use suffix "H" for three-pipe hot gas defrost. Hot gas connection is 1/2" O.D.
- Fan motor heat is not included in rating. Add to room load (500 BTU/h) per fan motor.
- All LS-E electrical are 240/1/60, LS-A and LS-G, H electrical are 120/1/60 (240/1/60 optional). For 50Hz, derate 12% (0.98 multiplier) or increase ΔT to compensate for lower fan RPM.
- The LS-E and LS-G units are engineered for optimum performance down to -20°F. For applications below -20°F refer to our Engineering department.

WALK-IN UNIT COOLERS

Series LV Low Velocity

Cooler
Above +34°F



- Low air flow and quiet fan operation make these units ideally suited for meat cutting rooms.
- Low, low face velocity and large coil surface area on both sides assure low air movement and an even temperature through out the refrigerated space, while maintaining a high humidity.
- All models are provided with stainless steel screws, rust proof hardware and heavy gauge aluminum casing.
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.
- Aluminum fans are statically balanced and individually gauged for contour and alignment.
- Fan guards are constructed of zinc iridite plated steel wire.

All models are 24" wide or less for mounting in space between meat-rails. The low, narrow construction enables mounting the unit in meat storage and aging rooms, high humidity characteristic of unit keeps meat shrinkage to a minimum.

Every unit has a double drain pan. The inner drain pans are provided under each coil section to eliminate objectionable sweating in meat cutting rooms.

Shaded pole fan motors have thermal protection and life lubricated sleeve bearings.

LV-A Low Velocity

- Unit coolers model LV-A are designed for meat cutting, packaging and aging rooms, storage rooms for meat vegetable and fresh fruit extended storage and florist boxes.

(1) Multiply by 1.11 for R-22 refrigerant.

MODEL	CAPACITY (BTU/h)		CFM	MOTORS		FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R 404A ⁽¹⁾ R 507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMP		LENGTH	HEIGHT	DEPTH	LIO O.D.	SUCT O.D.		
LV-0540-A6	5400	8100	890	2	3.2	10	78	9	19 1/4	1/2	7/8	3.9	71
LV-0750A6	7500	11250	1020	2	3.2	10	78	12	19 1/4	1/2	7/8	5.4	89
LV-0900-A6	9000	13500	1080	2	3.2	10	108	9	19 1/4	1/2	7/8	6.1	104
LV-1200A6	12000	18000	1430	2	4.0	10	108	12	19 1/4	1/2	7/8	8.5	129
LV-1500-A6	15000	22500	1680	2	4.0	12	124	12	21 1/4	1/2	7/8	9.7	162
LV-2000-A6	20000	30000	2200	2	4.0	12	124	15	21 1/4	1/2	7/8	12.5	181
LV-2700-A6	27000	40500	2800	2	7.6	14	140	16 1/2	23 1/4	7/8	1 1/8	16.3	261

WALK-IN UNIT COOLERS

LV-E Low Velocity Electric Defrost LV-G Low Velocity Hot Gas Defrost

Cooler
Above +28°F

- Unit coolers models LV-E and LV-G are particularly well suited for storage of fresh meats, vegetable and fresh fruit extended storage and ice storage rooms.
- Maintaining a storage temperature of +28°F to +30°F reduces the formation of bacteria and sliming.
- Models LV-E are supplied with incoloy defrost heater attached under each coil, drain pan heater and factory set fan delay and defrost termination thermostat.
- Models LV-G are supplied with incoloy defrost heater attached under each inner drain pan, expansion valve by-pass kit and adjustable fan delay thermostat.

MODEL	CAPACITY (BTU/h)		CFM	ELECTRICALS				FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A™ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		MOTORS		HEATERS			LENGTH	HEIGHT	DEPTH	LID O.D.	SUCT. O.D.		
				QTY	AMP	watts	AMP								
LV-0540-E6	5400	8100	890	2	2.0	2400	10.0	10	78	9	19 1/4	1/2	7/8	3.9	71
LV-0750-E6	7500	11250	1020	2	2.0	2400	10.0	10	78	12	19 1/4	1/2	7/8	5.4	89
LV-0900-E6	9000	13500	1080	2	2.0	4500	18.8	10	108	9	19 1/4	1/2	7/8	6.1	104
LV-1200-E6	12000	18000	1430	2	2.0	4500	18.8	10	108	12	19 1/4	1/2	7/8	8.5	129
LV-1500-E6	15000	22500	1680	2	2.0	5000	20.8	12	124	12	21 1/4	1/2	7/8	9.7	162
LV-2000-E6	20000	30000	2200	2	2.0	5000	20.8	12	124	15	21 1/4	1/2	7/8	12.5	181
LV-2700-E6	27000	40500	2800	2	2.8	6000	25.0	14	140	16 1/2	23 1/4	7/8	1 1/8	16.3	261

MODEL	CAPACITY (BTU/h)		CFM	ELECTRICALS				FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A™ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		MOTORS		DRAIN PAN HEATERS			LENGTH	HEIGHT	DEPTH	LID O.D.	SUCT. O.D.		
				QTY	AMP	watts	AMP								
LV-0540-G6	5400	8100	890	2	3.2	400	3.3	10	78	9	19 1/4	1/2	7/8	3.9	71
LV-0750-G6	7500	11250	1020	2	3.2	400	3.3	10	78	12	19 1/4	1/2	7/8	5.4	89
LV-0900-G6	9000	13500	1080	2	3.2	400	3.3	10	108	9	19 1/4	1/2	7/8	6.1	104
LV-1200-G6	12000	18000	1430	2	3.2	400	3.3	10	108	12	19 1/4	1/2	7/8	8.5	129
LV-1500-G6	15000	22500	1680	2	4.0	400	5.0	12	124	12	21 1/4	1/2	7/8	9.7	162
LV-2000-G6	20000	30000	2200	2	4.0	400	5.0	12	124	15	21 1/4	1/2	7/8	12.5	181
LV-2700-G6	27000	40500	2800	2	5.8	400	5.0	14	140	16 1/2	23 1/4	7/8	1 1/8	16.3	261

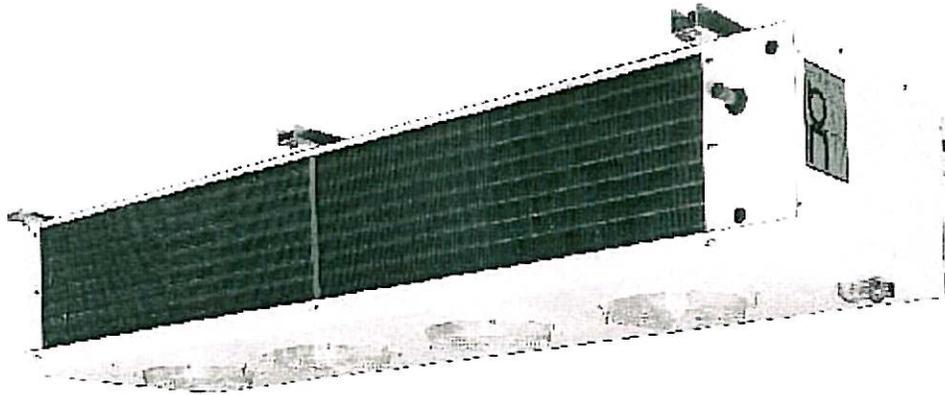
- Use suffix "G" for reverse cycle hot gas defrost and for three-pipe hot gas defrost.
- Hot gas connection is 1/2" O.D.

Fan motor heat is not included in rating. Add to room load (500 BTU/h) per fan motor.
 All LV-E electrical are 240/1/60, LV-A and LV-G electrical are 120/1/60 (240/1/60 optional). For 50Hz, derate 12% (0.98 multiplier) or increase DT to compensate for lower fan RPM.

WALK-IN UNIT COOLERS

Series ULV Uniform Low Velocity

Cooler
Above +34°F



- Low air flow and quiet fan operation make these units ideally suited for cutting rooms,
- Low, low face velocity and large coil surface area on both sides assure low air movement and even temperature throughout the refrigerated space, while maintaining a high humidity.
- All models are provided with stainless steel screws, rust proof hardware and heavy gauge aluminum casing.
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.
- High grade, polypropylene fan and polycarbonate fan guards are provided for consistency of blades pitch and guard openings.
- All models are 26" wide or less for mounting in space between meat-rails. The low, narrow construction enables mounting the unit in meat storage and aging rooms, high humidity characteristic of unit keeps meat shrinkage to a minimum.
- Every unit has a double drain pan, The inner drain pans are provided under each coil section to eliminate objectionable sweating in meat cutting rooms.
- Shaded pole fan motors have thermal protection and life lubricated sleeve bearings.

ULV-A Uniform low Velocity

- Unit coolers model ULV-A are designed for meat cutting, packaging and aging rooms, storage rooms for meat, vegetable and fresh fruit extended storage and florist boxes.

(1) Multiply by 1.11 for R-22 refrigerant.

MODEL	CAPACITY (BTU/h)		CFM	MOTORS		FAN DIA (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R 404A R 507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMP		LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.		
ULV-0580-A6	5800	8700	680	2	1.2	8	70 3/8	7 1/2	21	1/2	7/8	3.7	136
ULV-0700-A6	7000	10500	820	2	1.2	8	70 3/8	9	21	1/2	7/8	4.6	146
ULV-0950-A6	9500	14250	1200	3	1.8	8	70 3/8	12	21	1/2	7/8	6.5	162
ULV-1250-A6	12500	18750	1600	4	2.4	8	90 3/8	12	21	1/2	7/8	8.5	198
ULV-1550-A6	15500	23250	2020	3	3.6	10	90 3/8	15	23	1/2	7/8	10.9	236
ULV-1800-A6	18000	27000	2350	3	3.6	10	90 3/8	16 1/2	23	1/2	7/8	12.2	238
ULV-2400-A6	24000	36000	3100	4	4.8	10	117 3/8	16 1/2	26	1/2	1 1/8	16.1	322
ULV-2800-A6	28000	42000	3040	4	4.8	10	117 3/8	16 1/2	26	7/8	1 1/8	21.5	360



WALK-IN UNIT COOLERS

ULV-E Uniform Low Velocity Electric Defrost ULV-G Uniform Low Velocity Hot Gas Defrost

Cooler
Above +28°F

- Unit coolers models ULV-E and ULV-G are particularly well suited for storage of fresh meats, vegetable and fresh fruit extended storage and ice storage rooms,
- Maintaining a storage temperature of + 28°F to + 30°F reduces the formation of bacteria and sliming,
- Models ULV-E are supplied with incoloy defrost heater attached under each coil, drain pan heater and factory set fan delay and defrost termination thermostat.
- Models ULV-G are supplied with incoloy defrost heater attached under each inner drain pan, expansion valve by-pass kit and adjustable fan delay thermostat.

MODEL	CAPACITY (BTU/h)		CFM	ELECTRICALS				FAN DIA. (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ⁽¹⁾ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		MOTORS		HEATERS			LENGTH	HEIGHT	DEPTH	LID O.D.	SUCTION O.D.		
				QTY	AMP	watts	AMP								
ULV-0580-E6	5800	8700	680	2	0.6	3400	14.2	8	70 3/8	7 1/2	21	1/2	7/8	3.7	136
ULV-0700-E6	7000	10500	820	2	0.6	3400	14.2	8	70 3/8	9	21	1/2	7/8	4.6	146
ULV-0950-E6	9500	14250	1200	3	0.9	3400	14.2	8	70 3/8	12	21	1/2	7/8	6.5	162
ULV-1250-E6	12500	18750	1600	4	1.2	4500	18.8	8	90 3/8	12	21	1/2	7/8	8.5	198
ULV-1550-E6	15500	23250	2020	3	1.8	4500	18.8	10	90 3/8	15	23	1/2	7/8	10.9	236
ULV-1800-E6	18000	27000	2350	3	1.8	4500	18.8	10	90 3/8	16 1/2	23	1/2	7/8	12.2	238
ULV-2400-E6	24000	36000	3100	4	2.4	6000	25.0	10	117 3/8	16 1/2	26	1/2	1 1/8	16.1	322
ULV-2800-E6	28000	42000	3640	4	2.4	6000	25.0	10	117 3/8	16 1/2	26	7/8	1 1/8	21.5	360

MODEL	CAPACITY (BTU/h)		CFM	ELECTRICALS				FAN DIA. (inches)	UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ⁽¹⁾ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		MOTORS		HEATERS			LENGTH	HEIGHT	DEPTH	LID O.D.	SUCTION O.D.		
				QTY	AMP	watts	AMP								
ULV-0580-G6	5800	8700	680	2	1.2	400	3.3	8	70 3/8	7 1/2	21	1/2	7/8	3.7	136
ULV-0700-G6	7000	10500	820	2	1.2	400	3.3	8	70 3/8	9	21	1/2	7/8	4.6	146
ULV-0950-G6	9500	14250	1200	3	1.8	400	3.3	8	70 3/8	12	21	1/2	7/8	6.5	162
ULV-1250-G6	12500	18750	1600	4	2.4	400	3.3	8	90 3/8	12	21	1/2	7/8	8.5	198
ULV-1550-G6	15500	23250	2020	3	3.6	400	3.3	10	90 3/8	15	23	1/2	7/8	10.9	236
ULV-1800-G6	18000	27000	2350	3	3.6	400	3.3	10	90 3/8	16 1/2	23	1/2	7/8	12.2	238
ULV-2400-G6	24000	36000	3100	4	4.8	600	5.0	10	117 3/8	16 1/2	26	1/2	1 1/8	16.1	322

(1) Multiply by 1.11 for R-22 refrigerant.

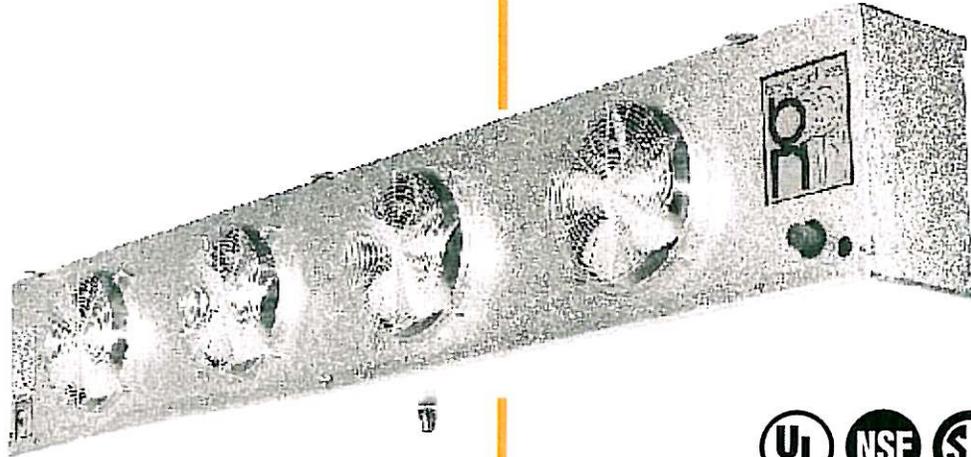
- Use suffix "G" for reverse cycle hot gas defrost and for three-pipe hot gas defrost.
- Hot gas connection is 1/2" O.D.
- All ULV-E electrical are 240/1/60, ULV-A and ULV-G electrical are 120/1/60 (240/1/60 optional).
- For 50Hz, derate 12% (0.88 multiplier) or increase DT to compensate for lower fan RPM.



WALK-IN UNITS COOLERS

MV-A Low Silhouette

Cooler
Above +34°F

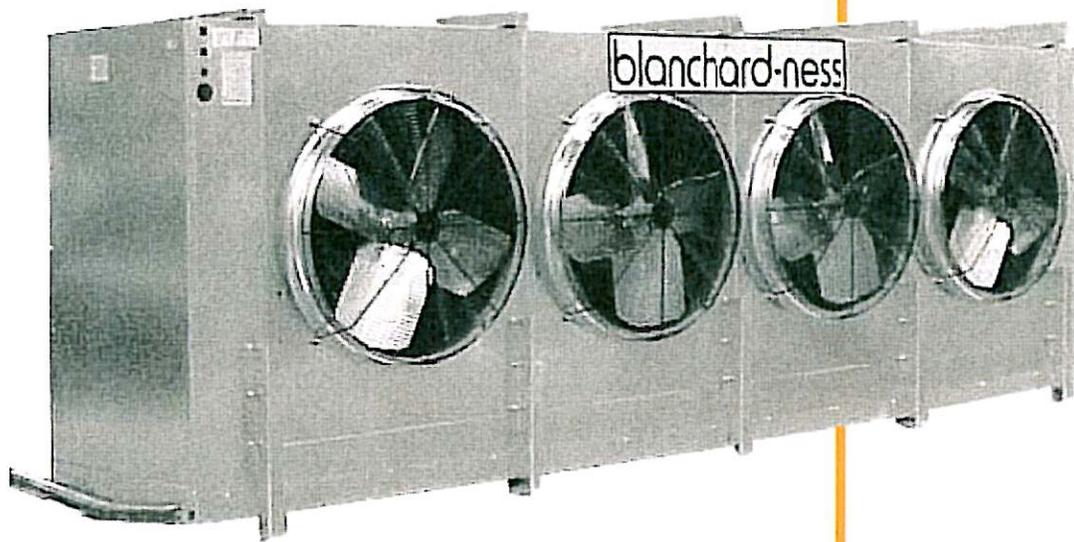


- Unit coolers series MV-A are constructed of heavy gauge aluminum, stainless steel screws and rust proof hardware with rounded corners on drain pan for hygiene and ease of cleaning.
- Total accessibility to expansion valve, electrical connections and components.
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.
- The airflow is reverse from the LS models, entering through the fan and leaving through the coil face. The refrigerant circuit was changed due to the airflow.
- Fan guards are constructed of zinc iridite plated steel wire.
- Fan motors have thermal protection and life lubricated sleeve bearings.

MODEL	CAPACITY (BTU/h)		CFM	MOTORS		UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ⁽¹⁾ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMP	LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.		
MV-0300-AB	3000	4500	600	1	1.2	32	15 1/4	12 3/4	1/2	5/8	0.9	31
MV-0350-AB	3900	5850	860	1	1.2	32	15 1/4	12 3/4	1/2	5/8	1.3	33
MV-0450-AB	4500	6750	570	1	1.2	32	15 1/4	12 3/4	1/2	5/8	1.7	35
MV-0620-AB	6200	9300	1130	2	2.4	44	15 1/4	12 3/4	1/2	7/8	1.9	48
MV-0700-AB	7000	10500	1110	2	2.4	44	15 1/4	12 3/4	1/2	7/8	1.9	49
MV-0780-AB	7800	11700	1160	2	2.4	52	15 1/4	12 3/4	1/2	7/8	2.4	55
MV-0910-AB	9100	13650	1130	2	2.4	52	15 1/4	12 3/4	1/2	7/8	3.2	60
MV-1170-AB	11700	17550	1730	3	3.6	72	15 1/4	12 3/4	1/2	7/8	3.5	77
MV-1360-AB	13600	20400	1700	3	3.6	72	15 1/4	12 3/4	1/2	7/8	4.7	84
MV-1560-AB	15600	23400	2310	4	4.8	92	15 1/4	12 3/4	1/2	1 1/8	4.6	89
MV-1950-AB	19500	29250	2890	5	6.0	112	15 1/4	12 3/4	7/8	1 1/8	5.7	121
MV-2270-AB	22700	34050	2830	5	6.0	112	15 1/4	12 3/4	7/8	1 1/8	7.6	135
MV-2370-AB	23700	35550	2850	6	7.2	112	17 1/4	12 3/4	7/8	1 1/8	8.7	150

(1) Refrigerant charge with +20°F for R-404A refrigerant. Multiply by 1.11 for R-22 refrigerant.

COMMERCIAL AND INDUSTRIAL UNIT COOLERS



Series SC Super Coolers

COMMERCIAL AND INDUSTRIAL UNIT COOLERS

Series SC Super Coolers

- Units are built to minimum height to allow maximum space for product.
- Engineered draw through design with 20" or 30" aluminum fan blades provide uniform air distribution.
- All models with 20" dia. fan are provided with rust proof hardware, heavy gauge aluminum casing and galvanized steel hangers.
- All models with 30" dia. fan are provided with rust proof hardware and heavy gauge galvanized steel casing and hangers.
- Fan venturi on models with 20" dia. fan are 1" deep die formed orifice and on models with 30" dia. fan are 3-3/4" deep spun orifice.
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.
- Units piping, complete with schraeder valve installed on suction header to facilitate expansion valve adjustment.
- Total accessibility to expansion valve, electrical connections and components through hands free pivoting access doors on both ends of unit.

SC-A Super Coolers Air Defrost

Cooler
Above +34°F

- Unit coolers model SC-A are ideal for supermarket food storage, walk in coolers, warehouse cooling, holding rooms and similar applications.
- Optional wider fin spacing (6, 5 and 4 FPI) available to maintain high humidity.

SC-E Super Cooler Electric Defrost SC-G Super Cooler Hot Gas Defrost SC-H Super Cooler Hot Gas Defrost

Freezer
+34°F to -40°F

- Unit coolers models SC-E, G and H are designed for supermarket food storage, frozen food storage, ice cream hardening and storage, and other similar industrial and commercial low temperature applications.
- Models SC-E are supplied with incoloy defrost heaters inserted on both faces of the coil, drain pan heaters, factory set fan delay and defrost termination thermostat.
- Models SC-G and SC-H are supplied with hot gas loop installed in the drain pan, expansion valve by-pass system and a factory set fan delay thermostat.
- Optional wider fin spacing (5 and 4 FPI) available to maintain high humidity.

COMMERCIAL AND INDUSTRIAL UNIT COOLERS

SC-A Super Coolers Air Defrost

20 inch Fan Models

MODEL	CAPACITY (BTU/h)		CFM	MOTORS				UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ¹ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMPERAGE			LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.		
					1 PHASE 208/240V	3 PHASE 208/240V	600V							
SC-01950-A7	19500	29300	4080	1	3.5	2.0	1.0	57 1/2	27 3/8	26	5/8	1 1/8	5.6	185
SC-02380-A7	23800	35700	4800	1	3.5	2.0	1.0	57 1/2	27 3/8	26	5/8	1 1/8	7.5	200
SC-02710-A7	27100	40700	3800	1	3.5	2.0	1.0	57 1/2	27 3/8	26	5/8	1 1/8	9.4	223
SC-03010-A7	30100	45300	3900	1	3.5	2.0	1.0	57 1/2	27 3/8	26	7/8	1 1/8	11.2	240
SC-03900-A7	39000	58500	8160	2	7.0	6.1	2.0	102 1/2	27 3/4	26	7/8	1 3/8	10.9	322
SC-04760-A7	47600	71400	8000	2	7.0	6.1	2.0	102 1/2	27 3/4	26	7/8	1 3/8	14.5	355
SC-05420-A7	54200	81300	7600	2	7.0	6.1	2.0	102 1/2	27 3/4	26	7/8	1 3/8	18.2	393
SC-06040-A7	60400	90600	7600	2	7.0	6.1	2.0	102 1/2	27 3/4	26	7/8	1 3/8	21.8	426
SC-06630-A7	66300	99500	11700	3	11.0	6.1	3.0	129 1/2	28 1/8	26	7/8	1 5/8	18.7	482
SC-07530-A7	75300	113000	10500	3	11.0	6.1	3.0	129 1/2	28 1/8	26	7/8	1 5/8	23.4	524
SC-08340-A7	83400	125100	10900	3	11.0	6.1	3.0	129 1/2	28 1/8	26	1 3/8	1 5/8	28.1	566
SC-08540-A7	85400	132600	15600	4	14.0	9.3	4.0	168 1/2	29 1/4	26	1 3/8	2 1/8	24.8	643
SC-10040-A7	100400	150600	14500	4	14.0	9.3	4.0	168 1/2	29 1/4	26	1 3/8	2 1/8	31.0	690
SC-11120-A7	111200	166800	14500	4	14.0	9.3	4.0	168 1/2	29 1/4	26	1 3/8	2 1/8	37.3	755

Fan motor heat is not included in rating. Add to room load :

- a) (2500 BTU/h) per 208/240 volt, 1 phase, 60Hz motor.
- b) (1710 BTU/h) per 600 volt, 3 phase, 60 Hz motor.

For 50 Hz derate 12% (0.88 multiplier) or increase T to compensate for lower fan RPM.

- (1) Single phase motors wired for 3 phase power supply (except for single motor units). Amperage on highest loaded phase tabulated.
- (2) Multiply by 1.11 for R-22 refrigerant.

30 inch Fan Models

MODEL	CAPACITY (BTU/h)		CFM	MOTORS				UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A ¹ R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)
	10' FDT	15' FDT		QTY	AMPERAGE (3 PHASE)			LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.		
					208V	240V	600V							
SC-04040-A7	40400	60600	8930	1	5.1	4.6	1.9	76 1/2	40	36	7/8	1 5/8	11.1	490
SC-05010-A7	50100	75200	8740	1	5.1	4.6	1.9	76 1/2	40	36	7/8	1 5/8	14.8	522
SC-05730-A7	57300	86000	8390	1	5.1	4.6	1.9	76 1/2	40	36	7/8	1 5/8	18.5	553
SC-06420-A7	64200	96300	8390	1	5.1	4.6	1.9	76 1/2	40	36	7/8	1 5/8	22.1	585
SC-07990-A7	79900	119900	17800	2	10.0	9.2	3.8	133 1/2	40 3/4	36	7/8	2 1/8	21.1	831
SC-08900-A7	89000	146500	17400	2	10.0	9.2	3.8	133 1/2	40 3/4	36	1 3/8	2 1/8	28.1	895
SC-11300-A7	113000	169500	16700	2	10.0	9.2	3.8	133 1/2	40 3/4	36	1 3/8	2 1/8	35.1	958
SC-12670-A7	126700	190100	16700	2	10.0	9.2	3.8	133 1/2	40 3/4	36	1 3/8	2 1/8	42.2	1020
SC-13920-A7	139200	208800	25700	3	15.0	14.0	5.7	133 1/2	53 1/2	36	1 3/8	2 5/8	37.5	1170
SC-15940-A7	159400	239100	24600	3	15.0	14.0	5.7	133 1/2	53 1/2	36	1 5/8	2 5/8	46.9	1260
SC-17850-A7	178500	267800	24600	3	15.0	14.0	5.7	133 1/2	53 1/2	36	1 5/8	2 5/8	56.2	1247
SC-19600-A7	196000	297000	34800	4	20.0	18.0	7.6	172 1/2	60 1/4	36	(2) 1 3/8	(2) 2 1/8	55.9	1460
SC-22600-A7	226000	339000	33400	4	20.0	18.0	7.6	172 1/2	60 1/4	36	(2) 1 3/8	(2) 2 1/8	69.9	1575
SC-25340-A7	253400	380100	33400	4	20.0	18.0	7.6	172 1/2	60 1/4	36	(2) 1 5/8	(2) 2 1/8	83.8	1680

Fan motor heat is not included in rating. Add to room load (3410 BTU/h) per motor.

For 50 Hz derate 12% (0.88 multiplier) or increase T to compensate for lower fan RPM.

- (3) Multiply by 1.11 for R-22 refrigerant.



COMMERCIAL AND INDUSTRIAL UNIT COOLERS

SC-E Super Cooler Electric Defrost 20 inch Fan Models

Fan motor heat is not included in rating. Add to room load :

- a) (2500 BTU/h) per 208/240 volt, 1 phase, 60Hz motor.
- b) (1710 BTU/h) per 600 volt, 3 phase, 60 Hz motor.

For 50 Hz derate 12% (0.88 multiplier) or increase T to compensate for lower fan RPM.

- (1) Single phase motors wired for 3 phase power supply (except for single motor units). Amperage on highest loaded phase tabulated.
- (2) Multiply kW rating by 0.75 for 208V models.
- (3) Refrigerant charge with +20°F refrigerant.
Multiply by 1.09 for -40°F refrigerant.
Multiply by 1.11 for R-22 refrigerant.

MODEL	CAPACITY @10°F (BTU/h)		CFM	ELECTRICALS (3 PHASE)						UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A [®] R-507 @ 30°F (lbs)	SHIPPING WEIGHT (lbs)	
	+20°F	20°F		MOTORS			HEATERS			LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.			
				QTY	AMPERAGE		kW*	AMPERAGE									
SC-01810-E6	18100	15400	4100	1	2.0	1.0	4.4	10	12	4.8	57 1/2	27 3/8	26	5/8	1 1/8	5.6	208
SC-02210-E6	22100	18800	4020	1	2.0	1.0	5.5	14	16	6.4	57 1/2	27 3/8	26	5/8	1 1/8	7.5	282
SC-02560-E6	25600	21800	3850	1	2.0	1.0	6.6	14	16	6.4	57 1/2	27 3/8	26	5/8	1 1/8	9.4	256
SC-02860-E6	28600	24300	3850	1	2.0	1.0	6.6	14	16	6.4	57 1/2	27 3/8	26	7/8	1 1/8	11.2	271
SC-03620-E6	36200	30800	8200	2	6.1	2.0	8.8	21	24	9.5	102 1/2	27 3/4	26	7/8	1 3/8	10.9	350
SC-04420-E6	44200	37600	8040	2	6.1	2.0	11.0	28	32	13	102 1/2	27 3/4	26	7/8	1 3/8	14.5	388
SC-05120-E6	51200	43500	7700	2	6.1	2.0	13.2	28	32	13	102 1/2	27 3/4	26	7/8	1 3/8	18.2	431
SC-05720-E6	57200	48600	7700	2	6.1	2.0	13.2	28	32	13	102 1/2	27 3/4	26	7/8	1 3/8	21.8	467
SC-06140-E6	61400	52200	11900	3	6.1	3.0	14.0	35	40	16	129 1/2	28 1/8	26	7/8	1 5/8	18.7	531
SC-07090-E6	70900	60300	11100	3	6.1	3.0	16.6	35	40	16	129 1/2	28 1/8	26	7/8	1 5/8	23.4	570
SC-07890-E6	78900	67100	11100	3	6.1	3.0	16.6	35	40	16	129 1/2	28 1/8	26	1 3/8	1 5/8	28.1	614
SC-08190-E6	81900	69700	15870	4	9.3	4.0	19.0	48	55	22	168 1/2	29 1/4	26	1 3/8	2 1/8	24.8	708
SC-09450-E6	94500	80400	14800	4	9.3	4.0	22.8	48	55	22	168 1/2	29 1/4	26	1 3/8	2 1/8	31.0	760
SC-10520-E6	105200	89500	14800	4	9.3	4.0	22.8	48	55	22	168 1/2	29 1/4	26	1 3/8	2 1/8	37.3	805

30 inch Fan Models

MODEL	CAPACITY @10°F (BTU/h)		CFM	ELECTRICALS (3 PHASE)						UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A [®] R-507 @ 30°F (lbs)	SHIPPING WEIGHT (lbs)		
	+20°F	20°F		MOTORS			HEATERS			LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.				
				QTY	AMPERAGE		kW*	AMPERAGE										
SC-03780-E6	37800	32100	8980	1	5.1	4.6	1.9	7.5	19	22	8.7	76 1/2	40	36	7/8	1 5/8	11.1	512
SC-04630-E6	46300	39400	8810	1	5.1	4.6	1.9	10.5	23	27	11	76 1/2	40	36	7/8	1 5/8	14.6	537
SC-05380-E6	53800	45800	8480	1	5.1	4.6	1.9	12.0	28	32	13	76 1/2	40	36	7/8	1 5/8	18.5	568
SC-06040-E6	60400	51400	8480	1	5.1	4.6	1.9	12.0	28	32	13	76 1/2	40	36	7/8	1 5/8	22.1	608
SC-07460-E6	74600	63400	17900	2	10.0	9.2	3.8	14.0	35	40	16	133 1/2	40 3/4	36	7/8	2 1/8	21.1	890
SC-09150-E6	91500	77800	17600	2	10.0	9.2	3.8	19.6	44	51	20	133 1/2	40 3/4	36	1 3/8	2 1/8	28.1	949
SC-10630-E6	106300	90400	16900	2	10.0	9.2	3.8	22.4	53	61	24	133 1/2	40 3/4	36	1 3/8	2 1/8	35.1	1019
SC-11920-E6	119200	101400	16900	2	10.0	9.2	3.8	22.4	53	61	24	133 1/2	40 3/4	36	1 3/8	2 1/8	42.2	1083
SC-12890-E6	128900	109600	26000	3	15.0	14.0	5.7	22.4	53	61	24	133 1/2	53 1/2	36	1 3/8	2 5/8	37.5	1224
SC-14980-E6	149800	127400	24900	3	15.0	14.0	5.7	25.2	53	61	24	133 1/2	53 1/2	36	1 5/8	2 5/8	46.9	1328
SC-16780-E6	167800	142700	24900	3	15.0	14.0	5.7	28.0	61	71	28	133 1/2	53 1/2	36	1 5/8	2 5/8	56.2	1420
SC-18300-E6	183000	155800	35200	4	20.0	18.0	7.6	34.2	71	82	33	172 1/2	60 1/4	36	(2) 1 3/8	(2) 2 1/8	55.9	1532
SC-21260-E6	212600	180800	33800	4	20.0	18.0	7.6	38.0	83	96	38	172 1/2	60 1/4	36	(2) 1 3/8	(2) 2 1/8	69.9	1670
SC-23840-E6	238400	202800	33800	4	20.0	18.0	7.6	41.8	95	110	44	172 1/2	60 1/4	36	(2) 1 5/8	(2) 2 1/8	83.8	1755

Fan motor heat is not included in rating. Add to room load (3410 BTU/h) per motor.

For 50 Hz derate 12% (0.88 multiplier) or increase T to compensate for lower fan RPM.

- (4) Multiply kW rating by 0.75 for 208V models.
- (5) Refrigerant charge with +20°F refrigerant.
Multiply by 1.09 for -40°F refrigerant.
Multiply by 1.11 for R-22 refrigerant.



COMMERCIAL AND INDUSTRIAL UNIT COOLERS

SC-G Super Cooler Hot Gas Defrost SC-H Super Cooler Hot Gas Defrost 20 inch Fan Models

(1) Single phase motors wired for 3 phase power supply (except for single motor units). Amperage on highest loaded phase tabulated.

(2) Hot gas O.D. is only for three-pipe system (SC-H)

(3) Refrigerant charge with +20°F refrigerant.

Fan motor heat is not included in rating. Add to room load :

a) (2500 BTU/h) per 208/240 volt, 1 phase, 60Hz motor.

b) (1710 BTU/h) per 600 volt, 3 phase, 60 Hz motor.

MODEL	CAPACITY @10 FDT (BTU/h)		CFM	MOTORS			UNIT SIZE (Inches)			CONNECTIONS (Inches)			CHARGE R-404A [®] R-507 @ 30°F (lb)	SHIPPING WEIGHT (lbs)	
	EVAP TEMP			QTY	AMPERAGE			LENGTH	HEIGHT	DEPTH	LID O.D.	SUCTION O.D.			HOT GAS [™] O.D.
	+20°F	-20°F			1 PHASE 208/240V	3 PHASE 208/240V [†]	600V								
SC-01810-G6	18100	15400	4100	1	3.5	2.0	1.0	57 1/2	29	26	5/8	1 1/8	7/8	5.6	208
SC-02210-G6	22100	18800	4020	1	3.5	2.0	1.0	57 1/2	29	26	5/8	1 1/8	7/8	7.5	223
SC-02560-G6	25600	21800	3850	1	3.5	2.0	1.0	57 1/2	29	26	5/8	1 1/8	7/8	9.4	249
SC-02860-G6	28600	24300	3850	1	3.5	2.0	1.0	57 1/2	29	26	7/8	1 1/8	7/8	11.2	263
SC-03620-G6	36200	30800	8200	2	7.0	6.1	2.0	102 1/2	29 3/8	26	7/8	1 3/8	7/8	10.9	362
SC-04420-G6	44200	37600	8040	2	7.0	6.1	2.0	102 1/2	29 3/8	26	7/8	1 3/8	7/8	14.5	361
SC-05120-G6	51200	43500	7700	2	7.0	6.1	2.0	102 1/2	29 3/8	26	7/8	1 3/8	7/8	18.2	429
SC-05720-G6	57200	48600	7700	2	7.0	6.1	2.0	102 1/2	29 3/8	26	7/8	1 3/8	7/8	21.8	465
SC-06140-G6	61400	52200	11900	3	11.0	6.1	3.0	129 1/2	29 3/4	26	7/8	1 5/8	1 1/8	18.7	543
SC-07090-G6	70900	60300	11100	3	11.0	6.1	3.0	129 1/2	29 3/4	26	7/8	1 5/8	1 1/8	23.4	585
SC-07890-G6	78900	67100	11100	3	11.0	6.1	3.0	129 1/2	29 3/4	26	1 3/8	1 5/8	1 1/8	28.1	629
SC-08190-G6	81900	69600	15870	4	14.0	9.3	4.0	168 1/2	30 7/8	26	1 3/8	2 1/8	1 1/8	24.8	724
SC-09450-G6	94500	80400	14800	4	14.0	9.3	4.0	168 1/2	30 7/8	26	1 3/8	2 1/8	1 1/8	31.0	780
SC-10520-G6	105200	89500	14800	4	14.0	9.3	4.0	168 1/2	30 7/8	26	1 3/8	2 1/8	1 1/8	37.3	838

30 inch Fan Models

Fan motor heat is not included in rating. Add to room load (3410 BTU/h) per motor.

(4) Hot gas O.D. is only for Three-pipe system (SC-H).

(5) Refrigerant charge with +20°F refrigerant.

MODEL	CAPACITY @10 FDT (BTU/h)		CFM	MOTORS			UNIT SIZE (Inches)			CONNECTIONS (Inches)			CHARGE R-404A [®] R-507 @ 30°F (lb)	SHIPPING WEIGHT (lbs)	
	EVAP TEMP			QTY	AMPERAGE			LENGTH	HEIGHT	DEPTH	LID O.D.	SUCTION O.D.			HOT GAS [™] O.D.
	+20°F	-20°F			1 PHASE 208/240V	3 PHASE 208/240V [†]	600V								
SC-03780-G6	37800	32100	8980	1	5.1	4.6	1.9	76 1/2	41 5/8	36	7/8	1 5/8	7/8	11.1	535
SC-04630-G6	46300	39400	8810	1	5.1	4.6	1.9	76 1/2	41 5/8	36	7/8	1 5/8	7/8	14.8	566
SC-05380-G6	53800	45800	8480	1	5.1	4.6	1.9	76 1/2	41 5/8	36	7/8	1 5/8	7/8	18.5	601
SC-06040-G6	60400	51400	8480	1	5.1	4.6	1.9	76 1/2	41 5/8	36	7/8	1 5/8	7/8	22.1	634
SC-07460-G6	74600	63400	17900	2	10.0	9.2	3.8	133 1/2	42 3/8	36	7/8	2 1/8	1 1/8	21.1	918
SC-09150-G6	91500	77800	17600	2	10.0	9.2	3.8	133 1/2	42 3/8	36	1 3/8	2 1/8	1 1/8	28.1	981
SC-10630-G6	106300	90400	16900	2	10.0	9.2	3.8	133 1/2	42 3/8	36	1 3/8	2 1/8	1 1/8	35.1	1044
SC-11920-G6	119200	101400	16900	2	10.0	9.2	3.8	133 1/2	42 3/8	36	1 3/8	2 1/8	1 1/8	42.2	1109
SC-12890-G6	128900	109600	26000	3	15.0	14.0	5.7	133 1/2	55 1/8	36	1 3/8	2 5/8	1 1/8	37.5	1255
SC-14980-G6	149800	127400	24900	3	15.0	14.0	5.7	133 1/2	55 1/8	36	1 5/8	2 5/8	1 1/8	46.9	1347
SC-16780-G6	167800	142700	24900	3	15.0	14.0	5.7	133 1/2	55 1/8	36	1 5/8	2 5/8	1 1/8	56.2	1431
SC-18300-G6	183000	155600	35200	4	20.0	18.0	7.6	172 1/2	61 7/8	36	(2) 1 3/8	(2) 2 5/8	(2) 1 3/8	55.9	1573
SC-21260-G6	212600	180800	33800	4	20.0	18.0	7.6	172 1/2	61 7/8	36	(2) 1 3/8	(2) 2 5/8	(2) 1 3/8	69.9	1696
SC-23840-G6	238400	202800	33800	4	20.0	18.0	7.6	172 1/2	61 7/8	36	(2) 1 5/8	(2) 2 5/8	(2) 1 3/8	83.8	1800

• For 50 Hz derate 12% (0.88 multiplier) or increase DT to compensate for lower fan RPM.

• Use suffix «G» for reverse cycle hot gas defrost.

• Use suffix «H» for three-pipe hot gas defrost.

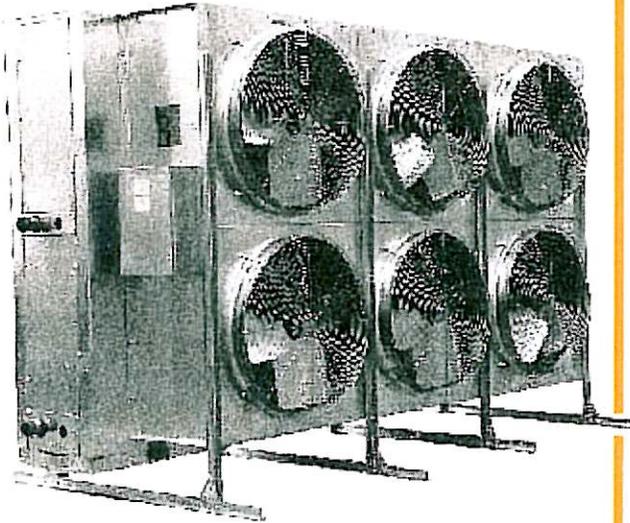
Multiply by 1.09 for -40°F refrigerant.

Multiply by 1.11 for R-22 refrigerant.

COMMERCIAL AND INDUSTRIAL UNIT COOLERS

BF Blast Freezers

Freezer
0°F to -40°F



Low speed (850 RPM) motor with 30" dia. fan and fan venturi 3-3/4" deep spun orifice are provided for fan efficiency and minimum noise level.

Models BF-E are supplied with incoloy defrost heaters inserted on both faces of the coil, drain pan heaters, adjustable fan delay and defrost termination thermostat.

Models BF-H are supplied with hot gas loop installed in the drain pan, expansion valve by-pass system and an adjustable fan delay thermostat.

Standard 4 FPI coils are supplied for longer freezing cycle between defrost periods.

- The propeller type Blast Freezers model BF are designed for tunnel and conveyer blast freezing and other similar industrial low temperature applications.
- All units are constructed of heavy gauge galvanized steel.
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.

- (1) For 208/3/60 power supply, multiply kW rating by 0.75.
- (2) On three pipe hot gas defrost units, the single hot gas connection is 1-5/8" O.D.
- (3) Refrigerant charge with -40°F refrigerant.

MODEL	CAPACITY PER 1' F. 1 @ -40°F EVAPORATION TEMPERATURE																	
	NO EXTERNAL STATIC						0 10 (inch W.G.) EXTERNAL STATIC						0 20 (inch W.G.) EXTERNAL STATIC					
	4 ROWS		6 ROWS		8 ROWS		4 ROWS		6 ROWS		8 ROWS		4 ROWS		6 ROWS		8 ROWS	
	CFM	BTU/h	CFM	BTU/h	CFM	BTU/h	CFM	BTU/h	CFM	BTU/h	CFM	BTU/h	CFM	BTU/h	CFM	BTU/h	CFM	BTU/h
BF-23*	17300	4190	16600	5840	15800	7190	16700	4150	15900	5760	15000	7050	16000	4100	15100	5650	14200	6890
BF-30*	25400	5640	24000	7870	22600	9700	24500	5590	23000	7760	21400	8500	23400	5510	21600	7600	20200	9290
BF-40*	33900	7520	32100	10490	30100	12930	32700	7450	30700	10350	28500	12670	31200	7350	28800	10130	26900	12390
BF-45*	34600	8380	33200	11680	31600	14380	33400	8500	31600	11520	30900	14100	32000	8200	30200	11300	28400	13780
BF-60*	50800	11280	48100	15740	45200	19400	49000	11180	46000	15520	42800	19000	46800	11020	43200	15200	40400	18580
BF-80*	67700	15040	64100	20998	60300	25870	65300	14810	61300	20690	57100	25300	62400	14690	57600	20270	53900	24770

MODEL	MOTORS			ELECTRIC DEFROST [™] HEATERS kW			UNIT SIZE (inches)			CONNECTIONS (inches)						CHARGE R-404A [™] R-507 @ 30% (lbs)	SHIPPING WEIGHT (lbs)					
	QTY	3 PHASE AMPS			4 ROWS	6 ROWS	8 ROWS	LENGTH	HEIGHT	DEPTH	4 ROWS		6 ROWS		8 ROWS		4	6	8			
		208V	240V	600V							LIG O.D.	SUCT O.D.	LIG O.D.	SUCT O.D.	LIG O.D.	SUCT O.D.				ROWS	ROWS	ROWS
	2	10	9.2	3.8	17.6	22.0	24.2	111	48	48	1 3/8	2 1/8	1 3/8	2 1/8	1 5/8	2 5/8	21.8	32.7	43.6			
BF-30*	3	15	14.0	5.7	22.4	28.0	30.8	136	48	48	1 3/8	2 1/8	1 3/8	2 1/8	1 5/8	2 5/8	26.1	42.2	56.2	1460	1570	1680
BF-40*	4	20	18.0	7.6	30.4	38.0	41.8	177	48	48	1 3/8	2 1/8	(2) 1 3/8	(2) 2 1/8	(2) 1 3/8	(2) 2 1/8	37.3	55.9	74.5	1735	1870	2010
BF-45*	4	20	18.0	7.6	26.4	35.2	37.4	111	64	48	(2) 1 3/8	(2) 2 1/8	(2) 1 3/8	(2) 2 1/8	(2) 1 5/8	(2) 2 5/8	43.6	65.4	87.2	1765	1932	2100
BF-60*	6	31	28.0	11.0	33.6	44.8	47.6	138	84	48	(2) 1 3/8	(2) 2 1/8	(2) 1 3/8	(2) 2 1/8	(2) 1 5/8	(2) 2 5/8	56.2	84.4	112	2208	2427	2645
BF-80*	8	41	37.0	15.0	45.6	60.8	64.6	177	84	48	(2) 1 3/8	(2) 2 1/8	(3) 1 3/8	(3) 2 1/8	(3) 1 5/8	(3) 2 5/8	74.5	112	149	2650	2920	3190

- Use suffix "E" for electric defrost.
- Use suffix "H" for three-pipe hot gas defrost.

Multiply by 0.92 for +20°F refrigerant.
Multiply by 1.11 for R-22 refrigerant.



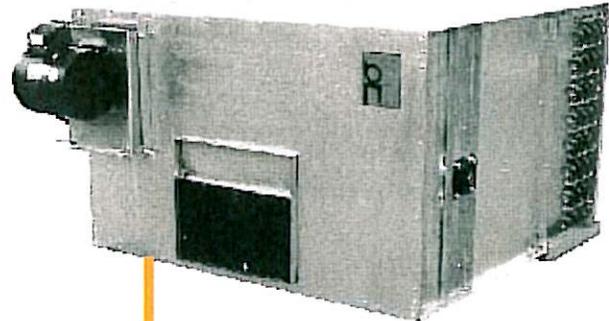
COMMERCIAL AND INDUSTRIAL UNIT COOLERS

HAP Centrifugal Fan Product Coolers

- The blower type product coolers model HAP are designed for ice cream hardening and storage, frozen food storage, blast freezing and other similar industrial low temperature applications.
- Housing and drain pan are constructed of heavy gauge galvanized steel.
- Engineered draw thru design provides uniform air distribution.
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.
- Unit piping complete with schraeder valve installed on suction header to facilitate expansion valve adjustment.
- Total accessibility to expansion valve, electrical connections and components.
- Models HAP-E are supplied with incoloy defrost heaters inserted on both faces of the coil, drain pan heater, adjustable fan delay and defrost termination thermostat.
- Models HAP-G and HAP-H are supplied with hot gas loop installed in the drain pan, expansion valve bypass system and an adjustable fan delay thermostat.

Cooler
HAP-A
Above +34°F

Freezer
HAP-E, G, H
Above -40°F



- Electric defrost heaters (HAP-E units only).
(1) Multiply kW rating by 0.75 for 208V models.
(2) Refrigerant charge with +20°F refrigerant.
Multiply by 1.09 for -40°F refrigerant.
Multiply by 1.11 for R-22 refrigerant.

MODEL	CFM (AT 600 FPM AIR VELOCITY)	TOTAL STATIC PRESSURE (Inch W.G.)						CAPACITY (BTU/h/°F)					
		0.50		0.75		1.00		4 ROWS		6 ROWS		8 ROWS	
		RPM	BHP	RPM	BHP	RPM	BHP	4 FPI	6 FPI	4 FPI	6 FPI	4 FPI	6 FPI
HAP-104	2400	592	0.40	668	0.52	781	0.64	970	1200	1320	1600	1610	1900
HAP-107	4500	556	1.05	627	1.21	656	1.40	1820	2240	2470	2990	3020	3560
HAP-111	6750	501	1.67	567	2.01	626	2.35	2720	3360	3700	4490	4520	5330
HAP-114	9000	429	2.22	483	2.59	538	2.99	3630	4490	4940	5990	6030	7110
HAP-221	13500	501	3.35	567	4.03	626	4.70	5450	6730	7400	8980	9050	10700
HAP-228	17550	423	4.17	479	4.92	535	5.70	7080	8750	9620	11700	11800	13900
HAP-242	26325	320	5.47	367	6.56	411	7.71	10600	13100	14400	17500	17600	20800
HAP-256	35100	250	6.69	289	8.25	325	9.87	14200	17500	19300	23400	23600	27800
HAP-270	43875	220	8.99	255	11.06	287	13.13	17700	21900	24100	29200	29400	34700

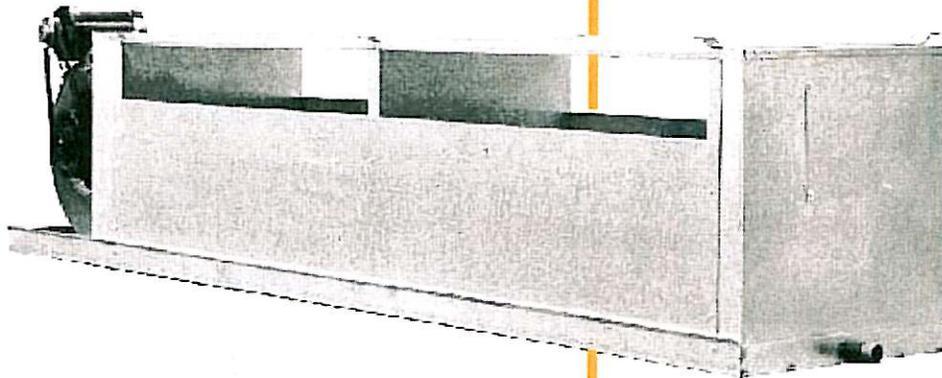
CAPACITY CORRECTION FACTOR				
Capacity is given for +20°F evaporator temperature and 600 FPM. For other conditions, multiply capacity by the following correction factors:				
EVAPORATOR TEMPERATURE	+20°F	0°F	20°F	40°F
CORRECTION FACTOR	1.00	0.94	0.85	0.74
FACE VELOCITY (FPM)	400	500	600	700
CORRECTION FACTOR	0.8	0.9	1.0	1.1

MODEL	ELECTRIC DEFOST HEATERS kW			UNIT SIZE (Inches)			CHARGE R 404A / R 507 @ 30% (lbs)			SHIPPING WEIGHT (lbs)		
	4 ROWS	6 ROWS	8 ROWS	LENGTH	HEIGHT	DEPTH	4 ROWS	6 ROWS	8 ROWS	4 ROWS	6 ROWS	8 ROWS
HAP-104	3.0	3.6	3.6	33	27	43	4.2	6.3	8.4	359	380	400
HAP-107	5.5	6.6	6.6	55	27	43	7.5	11.2	15.0	561	597	634
HAP-111	7.7	8.8	9.9	55	39	59	11.2	16.9	22.5	840	895	950
HAP-114	11	12	14	71	39	59	14.8	22.1	29.5	1038	1111	1185
HAP-221	15	18	20	102	43	59	21.8	32.7	43.6	1436	1544	1653
HAP-228	20	22	25	131	43	59	28.1	42.2	56.2	1876	2015	2154
HAP-242	25	31	34	131	61	60	42.2	63.3	84.4	2415	2624	2834
HAP-256	31	39	42	131	75	60	56.2	84.4	112	3176	3450	3728
HAP-270	39	48	50	131	97	60	70.3	105	141	3625	3974	4323

COIL STATIC PRESSURE (Inches W.G.)		
ROWS	FPI	1600 FACE VELOCITY
4	4	0.18
	6	0.22
6	4	0.27
	6	0.34
8	4	0.36
	6	0.45

COMMERCIAL AND INDUSTRIAL UNIT COOLERS

BBR Between The Rail Unit Coolers



**BBR-A
Cooler
Above +34°F**

**BBR-E, G, H,
Cooler
Above +28°F**



- Models BBR Blower type Between-the-Rail unit coolers are specifically designed for carcass chill and holding coolers; boning, cutting and packaging rooms where ambient temperature should be above +28°F.
- Units are ceiling mounted, preferably in the center of bays or on column lines so that the air discharge is at the top sides of the unit, away from structural interference.
- Two speed motor available (optional).
- All models are designed for externally equalized expansion valve and equipped with equalizer lines.

Models BBR-E are supplied with incoloy defrost heaters inserted on face of the coil, drain pan heaters, adjustable fan delay and defrost termination thermostat.

Models BBR-G and BBR-H are supplied with hot gas loop installed in the drain pan, expansion valve by-pass system and an adjustable fan delay thermostat.

MODEL	CAPACITY PER 10 FDT/50°F EVAPORATING TEMPERATURE											
	LOW CFM			MED-LOW CFM			MED-HIGH CFM			HIGH CFM		
	CFM	CAPACITY (BTU/H)		CFM	CAPACITY (BTU/H)		CFM	CAPACITY (BTU/H)		CFM	CAPACITY (BTU/H)	
	4°F	5°F		4°F	5°F		4°F	5°F		4°F	5°F	
BBR-10	1400	12740	13780	1680	14510	15930	2240	17250	19650	2800	20000	22780
BBR-12	1680	15510	16690	2240	19030	20840	2800	21890	24600	3360	24530	27770
BBR-14	1875	17040	18450	2250	19400	21310	3000	23420	26280	3750	26730	30450
BBR-17	2250	20740	22330	3000	25450	28010	3750	29410	32900	4500	32800	37140

MODEL	LOW CFM		MED-LOW CFM		MED-HIGH CFM		HIGH CFM		HEATERS (W)		UNIT SIZE (inches)			CONNECTIONS (inches)		CHARGE R-404A R-507 @30%/lb	SHIPPING WEIGHT (lb)
	CFM	MOTOR hp	CFM	MOTOR hp	CFM	MOTOR hp	CFM	MOTOR hp	DRAIN PAN	COIL	LENGTH	HEIGHT	DEPTH	DR. I.N.	SUCT. O.D.		
BBR-10	1400	1/4	1680	1/3	2240	1/2	2800	3/4	1	6.6	116	25	21	1/2	1 1/8	13.6	475
BBR-12	1680	1/3	2240	1/2	2800	3/4	3360	1	1	6.6	116	25	21	1/2	1 1/8	16.3	485
BBR-14	1875	1/3	2250	1/2	3000	1	3750	1 1/2	1	8.8	116	25	27	1/2	1 3/8	18.2	570
BBR-17	2250	1/2	3000	1	3750	1 1/2	4500	2	1	8.8	116	25	27	1/2	1 3/8	21.8	583

(1) Multiply by 1.11 for R-22 refrigerant.

COMMERCIAL AND INDUSTRIAL UNIT COOLERS

FSB Free Standing Refrigeration Coils

Freezer
0°F to -40°F

The **Blanchard-Ness** Free Standing Refrigeration Coils are designed for tunnel and conveyer blast freezing and other similar industrial low temperature applications.

All coils are provided with heavy gauge galvanized steel casing and support members for floor mounting or ceiling suspension.

All coils are designed for externally equalized expansion valve and equipped with equalizer lines.

Electric defrost coils are supplied with incoloy defrost heaters inserted on face of the coil, drain pan heaters, adjustable fan delay and defrost termination thermostat.

Hot gas defrost coils are supplied with hot gas loop installed in the drain pan, expansion valve by-pass system and an adjustable fan delay thermostat.

Standard 4 FPI coils are supplied for longer freezing cycle between defrost periods.



- (1) For 208/3/60 power supply, multiply kW rating by 0.75.
- (2) On three-pipe hot gas defrost units, the single hot gas connection is 1-5/8" O.D.
- (3) Refrigerant charge with -40°F refrigerant.
Multiply by 0.92 for +20°F refrigerant.
Multiply by 1.11 for R-22 refrigerant.

MODEL	CAPACITY PER 1" FDT @ 20°F EVAPORATING TEMPERATURE											
	600 FPM AIR VELOCITY				700 FPM AIR VELOCITY				800 FPM AIR VELOCITY			
	CFM	CAPACITY (BTU/h/°F)			CFM	CAPACITY (BTU/h/°F)			CFM	CAPACITY (BTU/h/°F)		
	4 ROWS	6 ROWS	8 ROWS		4 ROWS	6 ROWS	8 ROWS		4 ROWS	6 ROWS	8 ROWS	
FSB-23*	13500	3890	5430	6750	15750	4080	5740	7180	18000	4240	6000	7560
FSB-30*	17550	5060	7060	8770	20475	5310	7460	9340	23400	5510	7800	9830
FSB-40*	23400	6750	9410	11690	27300	7070	9950	12450	31200	7350	10400	13100
FSB-45*	27860	7780	10660	13500	31500	8160	11480	14360	36600	8480	12000	15120
FSB-60*	35100	10120	14120	17540	42950	10620	14920	18680	46800	11020	15600	19660
FSB-80*	46600	13500	18820	23380	54600	14140	19900	24900	62400	14700	20600	26200

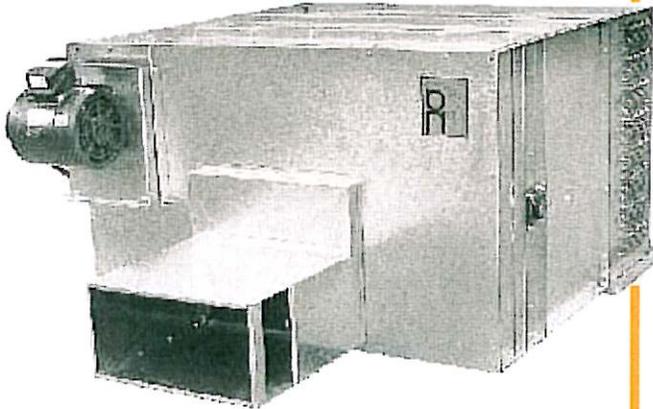
ROWS	COIL STATIC PRESSURE (Inch W.G.)		
	600	700	800
4	0.10	0.22	0.27
6	0.27	0.34	0.41
8	0.36	0.45	0.55

MODEL	ELECTRIC DEFROST [†] HEATERS kW			UNIT SIZE (Inches)			CONNECTIONS (Inches) ^{††}						R-404A ^{†††} R-507 CHARGE @ 30% (lbs)			SHIPPING WEIGHT (lbs)		
	4 ROWS	6 ROWS	8 ROWS	LENGTH	HEIGHT	DEPTH	4 ROWS		6 ROWS		8 ROWS		ROWS			ROWS		
							LIQ. O.D.	SUCT. O.D.	LIQ. O.D.	SUCT. O.D.	LIQ. O.D.	SUCT. O.D.	4	6	8	4	6	8
FSB-23*	17.6	22.0	24.2	111	48	24	1 3/8	2 1/8	1 3/8	2 1/8	1 5/8	2 5/8	27	41	54	825	910	990
FSB-30*	22.4	28.0	30.8	138	48	24	1 3/8	2 1/8	1 3/8	2 1/8	1 5/8	2 5/8	35	52	70	965	1075	1158
FSB-40*	30.4	38.0	41.8	177	48	24	1 3/8	2 1/8	(2) 1 3/8	(2) 1/8	(2) 1 3/8	(2) 1/8	47	71	94	1105	1240	1380
FSB-45*	26.4	35.2	37.4	111	84	24	(2) 1 3/8	(2) 1/8	(2) 1 3/8	(2) 1/8	(2) 1 5/8	(2) 5/8	54	81	109	1125	1300	1470
FSB-60*	33.6	44.8	47.6	138	84	24	(2) 1 3/8	(2) 1/8	(2) 1 3/8	(2) 1/8	(2) 1 5/8	(2) 5/8	70	105	139	1460	1680	1895
FSB-80*	45.6	60.8	64.6	177	84	24	(2) 1 3/8	(2) 1/8	(2) 1 3/8	(2) 1/8	(2) 1 5/8	(2) 5/8	94	142	189	1690	1930	2200

- Use suffix "E" for electric defrost.
- Use suffix "H" for three-pipe hot gas defrost.

COMMERCIAL AND INDUSTRIAL UNIT COOLERS

RRU Ripening Room Unit Coolers



- The ceiling suspended unit coolers model RRU are specifically designed to meet the requirements of many types of ripening rooms.
- Casings and drain pans are constructed of heavy gauge galvanized steel.
- The entire blower section can be separated from the coil section and lowered for easy replacement of fans, shaft and bearings. Refrigerant and drain piping remains in place.

Fans are centrifugal type, with bottom front discharge. Short discharge ducts are provided on all units.

Optional electric heaters are rust proof, finned incoloy sheathed element with manual and automatic overheat protection. Terminal blocks are provided for power supply and control circuit. Heater contactors are supplied in main control panel, by others. Heaters are supplied separately for field mounting.

Optional control panels are available for various locations and system requirements.

a) Above-the-door or split panels include main disconnect, fan motor starter, heater contactor, 120 volt control transformer, and terminals for field wiring. Room thermostat and selector switch module is to be located between the doors and field wired to the above-the-door panel.

b) Between-the-door panel includes all of the above.

Both types of panels can be modified for a programmable temperature controller provided by others.

ROOM SIZE	MODEL	CFM	COOLING CAPACITY (BTU/H)							
			55 F D B / 85% R H 40 F EVAPORATING TEMPERATURE				55 F D B / 90% R H 45 F EVAPORATING TEMPERATURE			
			3 ROWS	4 ROWS	5 ROWS	6 ROWS	3 ROWS	4 ROWS	5 ROWS	6 ROWS
1/2 CAR LOAD	RRU-111	6000 6750	46600 48600	59200 62000	70600 74100	80900 85200	32500 33800	41300 43200	49300 51700	56600 59600
3/4 CAR LOAD	RRU-114	8000 9000	62200 64800	79000 82600	94100 98900	107800 113600	43300 45100	55100 57600	65800 69000	75500 79400
FULL CAR LOAD	RRU-221	12000 13500	93200 97200	118400 123900	141200 148300	161700 170400	65000 67600	82700 86400	98700 103500	113200 119100

MODEL	CFM	MOTOR hp	HEATER kW	UNIT SIZE (inches)			CONNECTION (inches)		CHARGE R-404A/R-507 @ 30% (lbs)				SHIPPING WEIGHT (lbs)			
				LENGTH	HEIGHT	DEPTH	LIQ O.D.	SUCT O.D.	3 ROWS	4 ROWS	5 ROWS	6 ROWS	3 ROWS	4 ROWS	5 ROWS	6 ROWS
RRU-111	6000 6750	3 5	6	56 1/2	40 1/4	80 1/2	7/8	1 1/8	8.1	10.9	13.6	16.3	850 854	872 876	895 900	917 921
RRU-114	8000 9000	5	6	72 1/2	40 1/4	80 1/2	7/8	1 1/8	10.7	14.3	17.8	24.4	1012	1040	1070	1100
RRU-221	12000 13500	7.5 10	2X6	103 1/2	43	80 1/2	1 1/8	1 3/8	15.8	21.1	26.3	31.6	1490 1513	1534 1557	1577 1600	1620 1642

Both types of panels can be modified for a programmable temperature controller provided by others.

(1) Motor selection is based on 0.62 inch W.G. external static pressure (average value for banana ripening room).

(2) Multiply by 1.12 for R-22.
Multiply by 1.13 for R-134a.

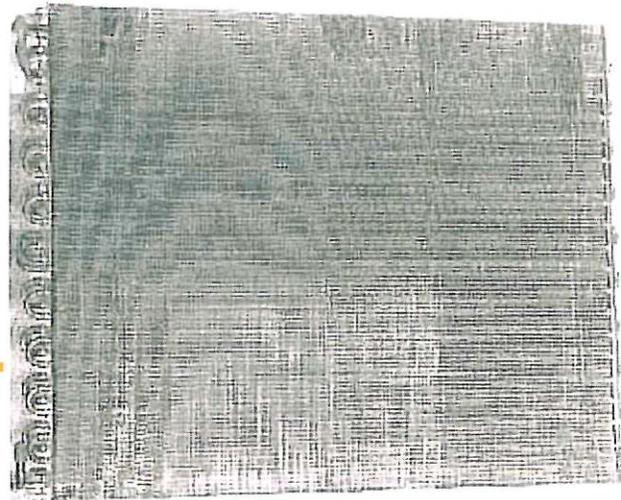
COMMERCIAL AND INDUSTRIAL UNIT COOLERS

O.E.M. Custom Coils

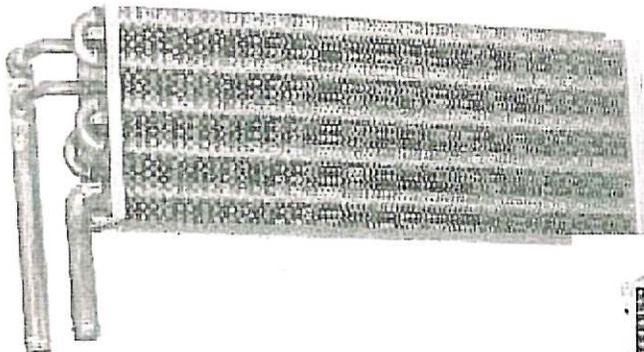
- A wide range of fin configuration spacings and sizes are available to suit any selective engineering specifications for O.E.M. cooling and heating coils.
- Coils are of staggered fin pattern and are fabricated from seamless copper tubes and die formed self-spacing full-collared aluminum (copper or coated aluminum optional) plate fins, mechanically expanded to ensure maximum heat transfer.
- Customer designed tube sheet, top and bottom plates can be provided in any thickness of galvanized steel, aluminum, copper, brass or stainless steel sheet metals.



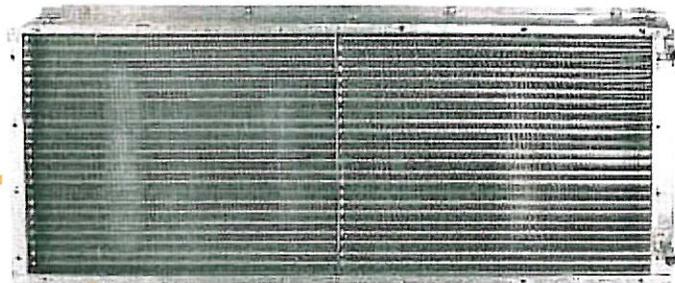
Truck Refrigeration Condenser Coil



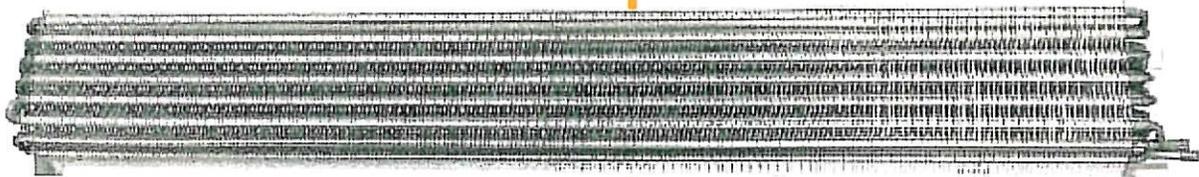
Bus Water Heating Coil



Passenger Train Air Conditioning Condenser Coil

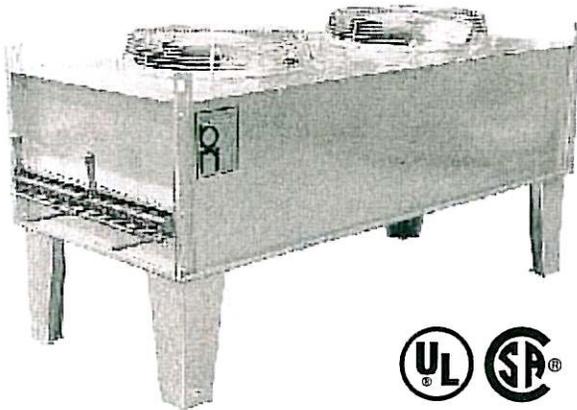


Open Counter Evaporator Coil with Heater Slots



AIR COOLED CONDENSERS AND FLUID COOLERS

ACC-LAVA/LEVA Direct Drive Air-Cooled Condensers



- Modular designed roof-top mounting condenser model ACC-LAVA/LEVA are engineered to suit a variety of systems.
- Freon condensing: Refrigeration/Air conditioning.
- Condenser coils may be single or multicircuited for single compressor or multiplexing applications.
- One fan and motor combination make parts interchangeable in this modular design.
- Units up to 3 fans, also available for horizontal air flow.
- Low speed (1140 RPM) motor with 20" dia. fan on models ACC and (850 RPM) motor with 30" dia. fan on models LAVA/LEVA ensures quiet operation.
- Fan venturi on models ACC are 1" deep die formed orifice and on models LAVA/LEVA are 3-3/4" deep spun orifice to provide fan efficiency and minimum noise level.
- A variety of fan control kits to suit different applications.
- Copper finned coils are available.

MODEL	TOTAL HEAT REJECTION R-22 (MBH)				MULTICIRCUITING		MOTOR			UNIT SIZE (inches)			CONNECTIONS* (inches)		R-22 6.507 CHARGE (lbs.)		SHIPPING WEIGHT (lbs.)	
	1 FDT	15 FDT	20 FDT	30 FDT	QTY OF CIRCUIT	CAPACITY PER CIRCUIT (@ 20°F DT) (MBH)	QTY	AMPERAGE			LENGTH	HEIGHT	DEPTH	INLET O.D.	OUTLET O.D.	SUMMER		WINTER
								1 PHASE	3 PHASE	600V								
ACC-04	2.2	33	43	65	6	10.8	1	3.5	2.0	1.0	39	34	32 1/2	1 1/8	7/8	1.8	7.7	182
ACC-05	2.6	38	52	78	6	13.0	1	3.5	2.0	1.0	39	34	32 1/2	1 1/8	7/8	2.6	11.6	198
ACC-06	2.8	42	55	83	8	10.4	1	3.5	2.0	1.0	39	34	32 1/2	1 1/8	1 1/8	3.5	15.4	207
ACC-08	4.3	65	87	130	12	10.8	2	7.0	6.1	2.0	74	34	32 1/2	1 1/8	1 1/8	3.4	14.8	289
ACC-10	5.1	77	103	154	12	12.8	2	7.0	6.1	2.0	74	34	32 1/2	1 1/8	1 1/8	5.1	22.2	316
ACC-11	5.5	83	111	166	16	10.4	2	7.0	6.1	2.0	74	34	32 1/2	1 1/8	1 1/8	6.7	29.6	337
ACC-13	6.5	98	130	195	12	16.3	3	11.0	6.1	3.0	109	34	32 1/2	1 3/8	1 1/8	5.0	21.9	394
ACC-15	7.7	116	154	231	18	12.8	3	11.0	6.1	3.0	109	34	32 1/2	1 3/8	1 1/8	7.5	32.8	438
ACC-17	8.3	125	166	249	24	10.4	3	11.0	6.1	3.0	109	34	32 1/2	1 3/8	1 1/8	10.0	43.8	466
ACC-18*	6.7	130	173	260	24	10.8	4	14.0	12.1	4.0	74	34	62 1/2	1 1/8	1 1/8	6.7	29.6	527
ACC-20*	10.3	154	205	308	24	12.8	4	14.0	12.1	4.0	74	34	62 1/2	1 1/8	1 1/8	10.1	44.4	584
ACC-22*	11.0	166	221	331	32	10.3	4	14.0	12.1	4.0	74	34	62 1/2	1 1/8	1 1/8	13.5	59.2	624
ACC-26*	13.0	195	260	390	24	16.3	6	21.0	12.1	6.0	109	34	62 1/2	1 3/8	1 1/8	10.0	43.8	749
ACC-31*	15.4	231	308	462	36	12.8	6	21.0	12.1	6.0	109	34	62 1/2	1 3/8	1 1/8	15.0	65.7	835
ACC-33*	16.6	249	331	497	48	10.4	6	21.0	12.1	6.0	109	34	62 1/2	1 3/8	1 1/8	19.9	87.6	894

*Two fan wide units

(1) Single phased motors wired for 3 phase power supply (except for single motor units). Amperage on highest loaded phase tabulated.

(2) Connection sizes are given for a 20°F DT single circuit. Two circuits are standard on units ACC-18 to ACC-33. For single circuit application, the standard two circuit units must be field manifolded.

(3) Summer charge based on 25% of condenser volume with 86°F liquid. Multiply by 1.14 for R-22 refrigerant.

(4) Winter charge based on 90% of condenser volume with -20°F liquid. Multiply by 1.10 for R-22 refrigerant.

For 50 Hz derate 12% (0.88 multiplier) or increase DT to compensate for lower fan RPM.

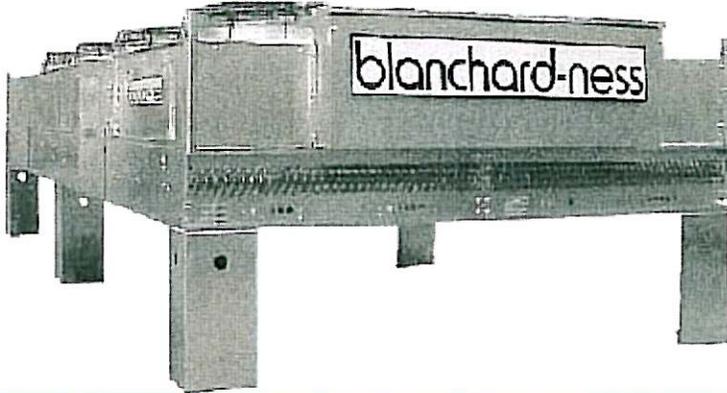
ALSO AVAILABLE FOR FLUID COOLING (MODELS ACC-6)

AIR-COOLED CONDENSERS AND FLUID COOLERS

3/8 inch MICROFIN Tubing up to 5 Fan Long Units

NEW

LEVITOR II Suspended coil design for condensers



(1) Connection sizes are given for 30°FDT, R-22. For single circuit application, two fan wide units must be field manifolded.

(2) Summer charge based on 25% of condenser volume with 86°F liquid for R-404A/R-507 refrigerant. Multiply by 1.14 for R-22 refrigerant.

(3) Winter charge based on 90% of condenser volume with -20°F liquid for R-404A/R-507 refrigerant. Multiply by 1.10 for R-22 refrigerant.

For 50 Hz derate 12% (0.88 multiplier) or increase DT to compensate for lower fan RPM.

Notes : Multiply by 0.95 for R-134a
Multiply by 0.98 for R-404A

MODEL	TOTAL HEAT REJECTION R 22 (MBH)				MULTICIRCUITING		MOTORS				UNIT SIZE (inches)			CONNECTIONS* (inches)		CHARGE R-404A R-507 (lbs)		SUPPORT WEIGHT (lbs)	
	1' F DT	15' F DT	20' F DT	30' F DT	QTY OF CIRCUIT	CAPACITY PER CIRCUIT @ 30' F DT (MBH)	QTY	AMPERAGE 3 PHASE				LENGTH	HEIGHT	DEPTH	INLET O.D.	OUTLET O.D.	LIQUID		VAPOR
								208V	240V	480V	600V								
LAVA 1 1 2 12	5.2	77.6	103.4	155.1	17	9126	1	4.4	4.0	2.0	1.6	58	49	45 1/4	1 1/8	1 1/8	3.8	18.4	444
LAVA 1 1 3 12	6.5	97.7	130.3	195.4	17	11496	1	4.4	4.0	2.0	1.6	58	49	45 1/4	1 3/8	1 1/8	5.7	27.6	476
LAVA 1 1 4 12	7.2	108.5	144.6	216.9	17	12762	1	4.4	4.0	2.0	1.6	58	49	45 1/4	1 3/8	1 3/8	7.5	36.8	508
LAVA 1 2 2 12	10.3	155.1	206.6	310.3	17	18252	2	8.8	8.0	4.0	3.2	112	49	45 1/4	1 3/8	1 3/8	7.3	35.5	729
LAVA 1 2 3 12	13.0	195.4	260.8	390.9	17	22764	2	8.8	8.0	4.0	3.2	112	49	45 1/4	1 5/8	1 5/8	10.9	53.3	782
LAVA 1 2 4 12	14.5	216.9	289.2	433.8	17	25764	2	8.8	8.0	4.0	3.2	112	49	45 1/4	1 5/8	1 5/8	14.6	71.1	855
LAVA 1 3 2 12	15.5	232.7	310.3	465.4	34	13689	3	13.2	12.0	6.0	4.8	166	49	45 1/4	1 5/8	1 5/8	10.8	52.7	1060
LAVA 1 3 3 12	19.5	293.1	390.9	586.3	34	11496	3	13.2	12.0	6.0	4.8	166	49	45 1/4	2 1/8	2 1/8	16.2	79.0	1153
LAVA 1 3 4 12	21.7	325.4	433.8	650.7	34	9570	3	13.2	12.0	6.0	4.8	166	49	45 1/4	2 1/8	2 1/8	21.6	105	1247
LAVA 1 4 3 12	26.1	390.9	521.1	781.7	51	15330	4	17.6	16.0	8.0	6.4	220	49	45 1/4	2 1/8	2 1/8	21.5	105	1474
LAVA 1 4 4 12	28.9	433.8	576.4	867.6	51	12762	4	17.6	16.0	8.0	6.4	220	49	45 1/4	2 1/8	2 1/8	28.6	140	1588
LAVA 1 5 3 12	32.6	488.6	651.4	977.1	51	19161	5	22.0	20.0	10.0	8.0	274	53	45 1/4	2 1/8	2 1/8	26.7	130	2066
LAVA 1 5 4 12	36.2	542.3	723.0	1084.5	51	15951	5	22.0	20.0	10.0	8.0	274	53	45 1/4	2 1/8	2 1/8	35.6	174	2222
LEVA 1 6 3 12	39.1	586.3	781.7	1172.6	51	27992	6	26.4	24.0	12.0	9.6	328	53	45 1/4	2 5/8	2 5/8	59.7	291	2610
LEVA 1 6 4 12	43.4	650.7	867.6	1301.5	51	19140	6	26.4	24.0	12.0	9.6	328	53	45 1/4	2 5/8	2 5/8	79.6	385	2858
LAVA 2 2 2 12	20.7	310.3	413.7	620.5	34	18252	4	17.6	16.0	8.0	6.4	112	49	90 1/2	(2) 1 3/8	(2) 1 3/8	14.6	71.1	1336
LAVA 2 2 3 12	26.1	390.9	521.1	781.7	102	7665	4	17.6	16.0	8.0	6.4	112	49	90 1/2	(2) 1 5/8	(2) 1 5/8	21.8	107	1462
LAVA 2 2 4 12	28.9	433.8	576.4	867.6	68	12762	4	17.6	16.0	8.0	6.4	112	49	90 1/2	(2) 1 5/8	(2) 1 5/8	29.1	142	1588
LAVA 2 3 2 12	31.0	465.4	620.5	930.6	68	13689	6	26.4	24.0	12.0	9.6	166	49	90 1/2	(2) 1 5/8	(2) 1 5/8	21.8	105	1912
LAVA 2 3 3 12	39.1	586.3	781.7	1172.6	102	11456	6	26.4	24.0	12.0	9.6	166	49	90 1/2	(2) 2 1/8	(2) 2 1/8	32.4	158	2100
LAVA 2 3 4 12	43.4	650.7	867.6	1301.5	136	9570	6	26.4	24.0	12.0	9.6	166	49	90 1/2	(2) 2 1/8	(2) 2 1/8	43.2	211	2287
LAVA 2 4 3 12	52.1	781.7	1042.3	1563.4	102	15330	8	35.2	32.0	16.0	12.8	220	49	90 1/2	(2) 2 1/8	(2) 2 1/8	42.9	209	2700
LAVA 2 4 4 12	57.8	867.6	1156.8	1735.3	136	12762	8	35.2	32.0	16.0	12.8	220	49	90 1/2	(2) 2 1/8	(2) 2 1/8	57.2	279	2950
LAVA 2 5 3 12	65.1	977.1	1302.8	1954.3	102	19161	10	44.0	40.0	20.0	16.0	274	53	90 1/2	(2) 2 1/8	(2) 2 1/8	53.5	261	3817
LAVA 2 5 4 12	72.3	1084.5	1446.1	2169.1	136	15951	10	44.0	40.0	20.0	16.0	274	53	90 1/2	(2) 2 1/8	(2) 2 1/8	71.3	348	4129
LEVA 2 6 3 12	78.2	1172.6	1563.4	2345.1	102	22992	12	52.8	48.0	24.0	19.2	328	53	90 1/2	(2) 2 5/8	(2) 2 5/8	119	583	4870
LEVA 2 6 4 12	86.8	1301.5	1735.3	2602.9	136	19140	12	52.8	48.0	24.0	19.2	328	53	90 1/2	(2) 2 5/8	(2) 2 5/8	159	777	5366

ALSO AVAILABLE FOR FLUID COOLING (MODELS FEVA)

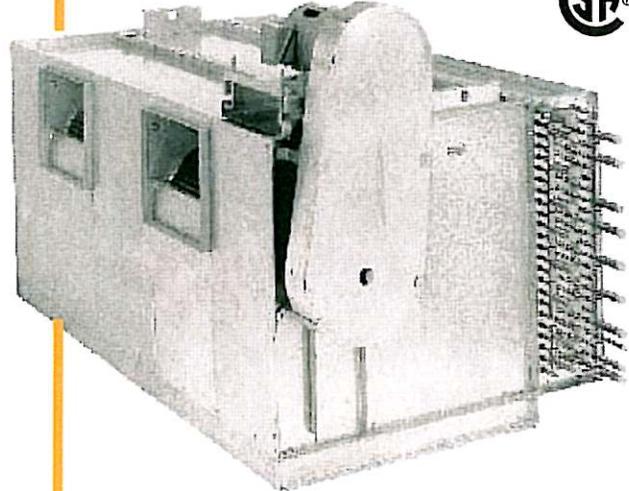


AIR-COOLED CONDENSERS AND FLUID COOLERS

HAC Centrifugal Fan Air-Cooled Condensers



- Models HAC blower type remote air cooled condensers are designed for air conditioning, refrigeration food stores - warehouses, heat recovery, auxiliary ventilation and other similar applications with possibility of indoor or outdoor (optional) installation.
- Economical auxiliary heating with heat recovery.
- Quiet operation with electronically balanced centrifugal blower.
- Lower refrigerant charge under low ambient conditions (optional).
- Designed for optional high capacity filters.
- Various fan discharge arrangements are available.



MODEL™	TOTAL HEAT REJECTION R-22 (MBH)				MULTICIRCUITING		UNIT SIZE (Inches)			CONNECTIONS™ (Inches)		CHARGE R-404A / R-507 @ 30% Lbs)		SHIPPING WEIGHT (Lbs)
	1°FDT	15°FDT	20°FDT	20°FDT	QUANTITY OF CIRCUIT	CAPACITY PER CIRCUIT @30°FDT (MBH)	LENGTH	HEIGHT	DEPTH	INLET O.D.	OUTLET O.D.	SUMMER™	WINTER™	
HAC-104-4	1.8	27	36	54	2	26.9	27	27	38	7/8	5/8	3.1	13.4	367
HAC-104-6	2.1	32	43	64	2	31.9	27	27	38	1 1/8	7/8	4.6	20.2	394
HAC-107-4	3.4	50	67	101	4	25.2	48	27	38	1 1/8	7/8	5.4	23.9	542
HAC-107-6	4.0	60	80	120	4	29.9	48	27	38	1 1/8	1 1/8	8.2	35.8	589
HAC-111-4	5.0	76	101	151	4	37.7	48	39	50	1 1/8	1 1/8	8.2	35.8	780
HAC-111-6	6.0	90	120	179	6	29.9	48	39	50	1 1/8	1 1/8	12.2	53.8	849
HAC-114-4	6.7	101	134	201	8	25.1	63	39	50	1 1/8	1 1/8	10.7	47.0	935
HAC-114-6	8.0	120	160	239	8	29.9	63	39	50	1 3/8	1 1/8	16.1	70.6	1026
HAC-221-4	10.1	151	201	302	12	25.2	93	39	50	1 3/8	1 1/8	15.8	69.4	1380
HAC-221-6	12.0	179	239	359	12	29.9	93	39	50	1 5/8	1 3/8	23.7	104	1512
HAC-228-4	13.1	196	262	392	12	32.7	120	39	50	1 5/8	1 3/8	20.4	89.6	1749
HAC-228-6	15.6	233	311	467	12	36.9	120	39	50	1 5/8	1 3/8	30.6	134	1921
HAC-242-4	19.6	294	392	589	18	32.7	120	57	51	(2) 1 3/8	(2) 1 1/8	30.6	134	2425
HAC-242-6	23.3	350	467	700	18	36.9	120	57	51	(2) 1 5/8	(2) 1 3/8	45.9	202	2660
HAC-255-4	26.2	392	523	785	24	32.7	120	75	51	(2) 1 5/8	(2) 1 3/8	40.8	179	2844
HAC-255-6	31.1	467	629	933	24	36.9	120	75	51	(2) 1 5/8	(2) 1 3/8	61.2	269	3182
HAC-270-4	32.7	491	654	981	30	32.7	120	93	71	(2) 1 5/8	(2) 1 3/8	51.0	224	3600
HAC-270-6	38.9	583	778	1168	30	36.9	120	93	71	(2) 1 5/8	(2) 1 3/8	76.5	336	4023

(1) Use suffix "C" for condenser application or "R" for heat reclaim application.

(2) Connection sizes are given for a 20°FDT single circuit. Two circuits are standard on units HAC-242 to HAC-270. For single circuit application, the standard two circuit units must be field manifolded.

(3) Summer charge based on 25% of condenser volume with 86°F liquid. Multiply by 1.14 for R-22 refrigerant.

(4) Winter charge based on 90% of condenser volume with -20°F liquid. Multiply by 1.10 for R-22 refrigerant.

ALSO AVAILABLE FOR FLUID COOLING (MODELS HAC-G)



HEAT RECLAIM EQUIPMENT

CHR Heat Reclaim Units

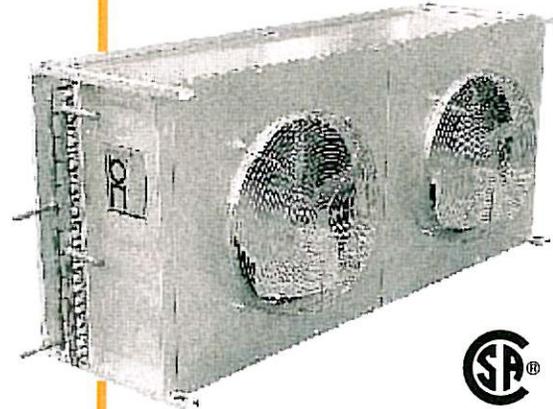
Modular design ceiling mounted heat reclaim unit models CHR are engineered to suit a variety of systems.

Coils may be single or multicircuited for single compressor or multiplexing applications.

One fan and motor combination makes parts interchangeable in this modular design.

Fans are 20" diameter, aluminum blades for smooth, vibration free operation.

Copper finned coils are available.



MODEL	TOTAL HEAT RECLAIM CAPACITY @ 40° F T (MBH)	MULTICIRCUITING		QTY	MOTORS			UNIT SIZE (inches)			SHIPPING WEIGHT (lbs)
		QUANTITY OF CIRCUIT	CAPACITY PER CIRCUIT @ 40° F T (MBH)		AMPERAGE			LENGTH	HEIGHT	DEPTH	
					208/240V	600V					
1 PHASE	3 PHASE	3 PHASE									
CHR-04	87	20	4.4	1	3.5	2.0	1.0	39	32 1/2	19	110
CHR-05	104	15	6.9	1	3.5	2.0	1.0	39	32 1/2	19	124
CHR-06	111	20	5.6	1	3.5	2.0	1.0	39	32 1/2	19	135
CHR-08	173	20	8.7	2	7.0	6.1	2.0	74	32 1/2	19	215
CHR-10	205	15	13.7	2	7.0	6.1	2.0	74	32 1/2	19	244
CHR-11	221	20	11.1	2	7.0	6.1	2.0	74	32 1/2	19	263
CHR-13	260	20	13.0	3	11.0	6.1	3.0	109	32 1/2	19	322
CHR-15	308	15	20.5	3	11.0	6.1	3.0	109	32 1/2	19	365
CHR-17	332	20	16.6	3	11.0	6.1	3.0	109	32 1/2	19	393

(1) Single phase motors wired for 3 phase power supply (except for single motor units). Amperage on highest loaded phase tabulated.

Connection size must be based on total system capacity.

HRC Heat Reclaim Coils

Coils are constructed of die formed, collared, self spacing staggered corrugated aluminum (copper optional) plate fins and copper tubes staggered in the direction of air flow and mechanically bonded to give metal to metal contact for maximum heat transfer.

TOTAL HEAT REJECTION BTU/H·F T/ SQ. FT. FACE AREA TYPE -GC- (15/8" O.D. Tube)									
ROWS DEEP	FFI	FACE VELOCITY (FFM)							
		300	350	400	450	500	550	600	
1	8	108	115	121	126	131	136	140	
	12	133	142	149	156	162	168	173	
2	8	180	195	206	220	230	240	249	
	12	211	230	247	262	276	288	299	
3	8	228	250	270	289	306	321	335	
	12	257	286	311	334	355	374	392	
4	8	260	299	316	340	362	383	402	
	12	285	320	353	383	411	436	460	
6	8	295	335	372	406	438	468	497	
	12	310	355	398	439	477	513	547	

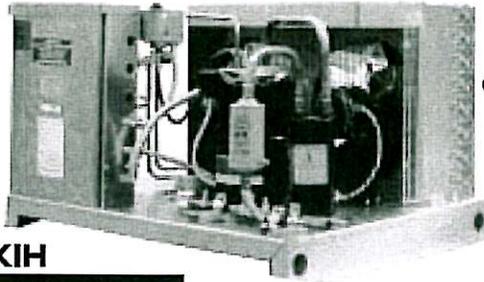
Connection size must be based on total system capacity.

Contact your **BLANCHARD-NESS** representative for full details.

TOTAL HEAT REJECTION BTU/H·F T/ SQ. FT. FACE AREA TYPE -FC- (1 1/2" O.D. Tube)									
ROWS DEEP	FFI	FACE VELOCITY (FFM)							
		300	350	400	450	500	550	600	
1	8	100	107	112	118	122	126	130	
	12	122	130	137	143	148	153	158	
2	8	169	183	196	207	217	226	234	
	12	188	215	230	244	256	267	277	
3	8	217	238	257	274	290	304	317	
	12	245	271	294	315	334	351	367	
4	8	250	270	303	326	347	366	384	
	12	275	308	338	365	391	414	435	
6	8	289	326	361	394	424	453	479	
	12	305	348	388	426	461	495	526	

AIR-COOLED CONDENSING UNITS

KOH/KIH Air-Cooled Condensing Units with Hermetic Compressors



KIH
Indoor Unit



KOH
Outdoor Unit

EQUIPMENT LIST FOR KOH/KIH

STANDARD EQUIPMENT (factory installed)

- Outdoor cabinet (KO only)
- Dual compartments control panel (bases C & D)
- Low pressure switch (automatic reset)
- High pressure switch (manual reset)
- Fan cycling (bases D)
- Crankcase heater (KO only, optional on KI)
- Fixed head pressure control (KO only, optional on KI)
- Liquid receiver with service valve at the outlet
- Heater & insulation on receiver (KO only, optional on KI)
- Liquid line kit (filter-drier, moisture indicator, hand shut-off valve)
- Liquid line solenoid valve (shipped loose)

- Suction filter (sealed)
- True subcooling circuit (bases C & D)

OPTIONAL EQUIPMENT

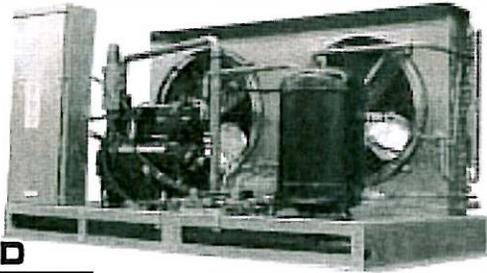
- Suction accumulator
- Oil separator
- Oversize receiver (available only on some models)
- Adjustable head pressure control
- Non-fused disconnect (not installed)
- Fused disconnect (not installed)
- Air defrost kit
- Electric defrost kit
- 3-pipe hot gas defrost kit (available on some models)

MODEL	NET CAPACITY (MBH) AT 90°F AMBIENT SATURATED SUCTION TEMPERATURE							UNIT SIZE (inches)			SHIPPING WEIGHT (lbs)	BASE
	15°F	10°F	5°F	0°F	5°F	10°F	15°F	LENGTH	HEIGHT	DEPTH		
KOH05EM4	2.0	2.4	2.9	3.3	3.9	4.5	5.1	38	25	32	252	A
KOH10EM4	3.4	3.9	4.5	5.1	5.8	6.5	7.2	38	25	32	255	A
KOH13EM4	4.4	5.2	6.1	7.0	8.0	9.0	10.0	38	25	32	258	A
KOH18EM4	5.2	6.3	7.5	8.8	10.2	11.6	13.1	38	25	32	268	B
KOH20EM4	6.5	7.7	9.0	10.4	11.8	13.4	14.9	38	25	32	289	B
KOH30EM4	9.6	10.2	11.8	13.5	15.3	17.2	19.4	38	25	32	293	B
KOH40EM4	11.9	14.0	16.4	18.9	21.7	24.7	28.0	44	45	35	421	C
KOH50EM4	14.3	16.8	19.5	22.3	25.4	28.7	32.2	44	45	35	425	C

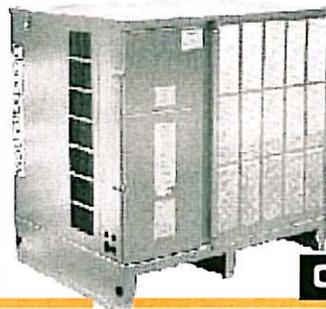
MODEL	NET CAPACITY (MBH) AT 90°F AMBIENT SATURATED SUCTION TEMPERATURE							UNIT SIZE (inches)			SHIPPING WEIGHT (lbs)	BASE
	0°F	10°F	20°F	25°F	30°F	35°F	40°F	LENGTH	HEIGHT	DEPTH		
KOH05H2	3.2	4.2	5.3	6.0	6.7	7.6	8.4	38	25	32	230	A
KOH09H2	4.1	5.7	7.5	8.5	9.6	10.8	12.0	38	25	32	241	A
KOH13H2	4.7	6.6	8.7	9.9	11.1	12.3	13.7	38	25	32	240	A
KOH15H2	5.9	8.1	10.9	12.4	14.0	15.7	17.5	38	25	32	273	B
KOH20H2	7.8	10.7	14.2	16.1	18.2	20.5	22.8	38	25	32	275	B
KOH31H2	12.6	17.5	23.4	26.8	30.5	34.4	38.6	44	45	35	401	C
KOH40H2	15.1	23.1	31.7	36.3	41.0	45.9	50.9	44	45	35	409	C
KOH50H2	21.9	30.1	38.8	43.4	48.3	53.4	59.9	44	45	35	423	C
KOH75H2	30.3	43.0	57.5	65.4	73.8	82.5	91.7	44	45	35	504	C
KOH100H2	45.4	61.6	80.2	90.5	101.5	113.2	125.5	82	45	44	895	D
KOH102H2	41.0	56.8	75.2	85.6	96.6	108.2	120.6	82	45	44	897	D
KOH125H2	51.0	71.7	95.6	108.7	122.7	137.4	152.9	82	45	44	1078	D
KOH150H2	60.6	86.0	115.0	130.8	147.6	165.0	183.4	82	45	44	1159	D

AIR-COOLED CONDENSING UNITS

KOS/KIS & KOD/KID Air-Cooled Condensing Units with Semi-Hermetic or Discus Compressors



KIS/KID
Indoor Unit



KOS/KOD
Outdoor Unit

EQUIPMENT LIST FOR KOS/KIS & KOD/KID

STANDARD EQUIPMENT (factory installed)

- Outdoor cabinet (KO only)
- Dual compartments control panel (bases C & D)
- Low pressure switch (automatic reset)
- High pressure switch (manual reset)
- Electronic oil pressure control (bases C & D)
- Fan cycling (bases D)
- Crankcase heater (KO only, optional on KI)
- Fixed head pressure control (KO only, optional on KI)
- Liquid receiver with service valve at the outlet
- Heater & insulation on receiver (KO only, optional on KI)
- Liquid line kit (filter-drier, moisture indicator, hand shut-off valve)
- Liquid line solenoid valve (shipped loose)

- Suction filter (sealed)
- True subcooling circuit (bases C & D)

OPTIONAL EQUIPMENT

- Suction accumulator
- Oil separator
- Oversize receiver (available only on some models)
- Adjustable head pressure control
- Non-fused disconnect (not installed)
- Fused disconnect (not installed)
- Air defrost kit
- Electric defrost kit
- 3-pipe hot gas defrost kit (available on some models)

MODEL	NET CAPACITY (MBH) AT 90°F AMBIENT SATURATED SUCTION TEMPERATURE							UNIT SIZE (inches)			SHIPPING WEIGHT (lbs)	BASE
	0°F	10°F	20°F	25°F	30°F	35°F	40°F	LENGTH	HEIGHT	DEPTH		
KOS005M2	2.8	3.6	4.5	5.1	—	—	—	38	25	32	265	A
KOS008M2	4.4	5.6	7.1	8.0	—	—	—	38	25	32	284	A
KOS010H2	5.5	7.3	9.3	10.4	11.6	12.8	14.2	38	25	32	284	A
KOS016H2	8.3	8.3	10.7	12.0	13.3	14.8	16.4	38	25	32	301	B
KOS021H2	8.2	11.2	14.3	15.9	17.7	19.5	21.5	38	25	32	311	B
KOS026M2	9.5	12.5	16.1	18.1	—	—	—	38	25	32	373	B
KOS030M2	18.1	23.4	29.5	32.8	—	—	—	44	45	35	510	C
KOS030H2	15.0	19.7	25.1	28.1	31.3	34.8	38.3	44	45	35	510	C
KOS050H2	23.1	31.1	40.3	45.2	50.3	55.6	61.2	44	45	35	583	C
KOD050H2	—	30.3	38.6	43.2	48.0	53.2	58.6	44	45	35	623	C
KOD051H2	27.6	36.4	46.1	51.4	57.1	63.1	69.5	44	45	35	644	C
KOD075H2	35.0	45.9	57.7	64.1	70.9	78.1	85.7	44	45	35	712	C
KOD080H2	40.8	54.2	68.5	76.3	84.5	93.3	102.5	82	45	44	990	D
KOD090H2	51.9	65.9	81.8	90.6	100.0	110.1	120.8	82	45	44	1045	D
KOD100H2	62.4	78.2	96.3	106.3	116.9	128.3	140.3	82	45	44	1078	D
KOD120H2	71.3	90.1	111.4	123.2	135.7	148.9	162.9	82	45	44	1148	D
KOD150H2	80.5	101.6	125.0	137.8	151.4	165.7	180.7	82	45	44	1171	D

MODEL	NET CAPACITY (MBH) AT 90°F AMBIENT SATURATED SUCTION TEMPERATURE					UNIT SIZE (inches)			SHIPPING WEIGHT (lbs)	BASE
	0°F	10°F	20°F	25°F	30°F	LENGTH	HEIGHT	DEPTH		
KOS008L4	2.0	2.6	3.6	4.8	6.2	38	25	32	284	A
KOS010L4	2.5	3.6	4.8	6.2	7.9	38	25	32	286	A
KOS015L4	3.9	5.3	7.1	9.1	11.3	38	25	32	311	B
KOS020L4	4.3	6.1	8.6	11.5	14.7	38	25	32	373	B
KOS021L4	5.8	8.0	11.1	14.7	18.8	44	45	35	523	C
KOS025L4	6.6	10.1	14.3	19.2	24.7	44	45	35	543	C
KOD030L4	10.5	14.6	19.5	25.1	31.5	44	45	35	613	C
KOD040L4	12.7	17.5	23.1	29.5	36.7	44	45	35	613	C
KOD050L4	15.9	22.1	29.1	37.1	46.1	44	45	35	643	C
KOD060L4	18.6	25.1	32.6	41.1	51.7	44	45	35	726	C
KOD080L4	21.8	29.4	37.9	47.7	60.4	44	45	35	757	C
KOD090L4	27.3	37.0	48.2	61.4	78.1	82	45	44	1045	D
KOD100L4	30.9	41.4	54.0	68.5	86.4	82	45	44	1102	D
KOD150L4	41.9	57.0	72.3	89.6	111.0	82	45	44	1215	D
KOD200L4	48.3	65.6	83.9	104.2	125.6	82	45	44	1223	D

ROOF MOUNTED AIR-COOLED CONDENSING UNITS

Roof Mounted Air-Cooled Condensing Units with Single Compressor (SLD) and Twin Compressors (Dual Circuit, DLD).



STANDARD EQUIPMENT (factory installed)

- Outdoor weatherproof galvanized casing
- Factory wired control panel
- Rigid mounted compressor
- Compressor shipped with oil
- Accessible hermetic compressor with crankcase heater
- Service valves (high side & low side)
- Fixed high pressure switch (manual reset)
- Adjustable low pressure switch (automatic reset)
- Suction filter (sealed)
- Electronic oil pressure control (Sentronic)
- Liquid receiver with service valves
- Adjustable head pressure control (ORI & ORD)
- Liquid line filter-drier (replaceable core)
- Liquid line moisture indicator
- Control transformer 240/1/60
- Fan motors with permanently lubricated sealed ball bearings
- Pressure actuated fan cycling (except first fan or pair of fans)
- Recycling pump down cycle

OPTIONAL EQUIPMENT

- Spring mounted compressor with suction & discharge vibration eliminators
- Suction accumulator
- Suction filter (replaceable core)
- Electronic oil pressure control (Johnson Control)
- Discharge line muffler
- Oil separator, helical type (should be used on systems having suction below 20°F)
- Oil level system (Oil Master System)
- Oil reservoir
- Heater & insulation on receiver
- Oversize receiver (available only on some models)
- Compressor unloaders
- Hot gas bypass (for capacity control)
- Three-way heat reclaim valve
- Liquid to suction heat exchanger (shipped loose)
- Liquid line solenoid valve (shipped loose)
- Variable speed control
- Non-fused disconnect
- Fused disconnect (not installed)
- Part winding start compressor
- Compressor time delay
- Air defrost kit
- Electric defrost kit
- 3-pipe hot gas defrost kit

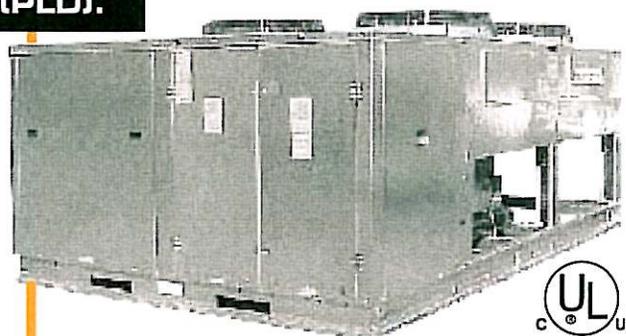
Roof Mounted Air-Cooled Condensing Unit with Twin Compressors in parallel (PLD).

STANDARD EQUIPMENT (factory installed, as DLD plus:)

- Suction accumulator
- Suction filter (replaceable core)
- Oil separator, helical type
- Oil level system (Oil Master System)

OPTIONAL EQUIPMENT

- As DLD except the above mentioned equipment.



AIR CONDITIONING REFRIGERATION CONDENSING UNITS

MODEL™	NET CAPACITY (MBH) AT 90°F AMBIENT															SHIPPING WEIGHT™ (lbs)			
	H2 SERIES					L2 SERIES			M4 SERIES			L4 SERIES							
	UNIT SIZE™	SATURATED SUCTION TEMPERATURE					UNIT SIZE™	SATURATED SUCTION TEMPERATURE			UNIT SIZE™	SATURATED SUCTION TEMPERATURE			UNIT SIZE™		SATURATED SUCTION TEMPERATURE		
	35 F	40 F	36 F	20 F	10 F		10 F	20 F	30 F		20 F	10 F	0 F		10 F	20 F	30 F		
SLD-0100	A	157.8	144.4	120.0	98.5	79.8	-	-	-	-	-	-	-	-	-	-	-	-	1564
SLD-0150	B	212.6	194.4	161.1	131.9	106.4	-	-	-	B	137.7	112.8	91.1	-	-	-	-	-	1848
SLD-0200	B	233.9	212.5	173.7	140.2	111.4	-	-	-	B	144.9	117.8	94.0	-	-	-	-	-	1931
SLD-0220	-	-	-	-	-	-	B	99.5	76.4	57.4	-	-	-	B	113.3	90.8	70.5	1885	
SLD-0250	B	295.7	271.8	225.3	182.0	143.6	-	-	-	B	185.1	150.9	121.0	-	-	-	-	-	2064
SLD-0270	-	-	-	-	-	-	B	126.0	96.7	71.7	-	-	-	B	143.5	112.9	86.0	2044	
SLD-0300	B	345.5	316.4	262.0	212.9	169.5	-	-	-	B	219.9	179.6	144.0	-	-	-	-	-	2173
SLD-0300	-	-	-	-	-	-	B	147.4	113.2	84.7	-	-	-	B	160.1	126.4	97.2	2069	
SLD-0350	C	424.3	387.6	320.9	262.8	212.7	-	-	-	C	269.0	221.5	179.6	-	-	-	-	-	2656
SLD-0400	C	495.6	456.0	381.9	314.9	255.2	-	-	-	C	326.1	268.4	217.5	-	-	-	-	-	2787
SLD-0500	D	649.4	592.5	488.9	399.0	322.1	-	-	-	-	-	-	-	-	-	-	-	-	3330
SLD-0600	E	753.4	689.7	570.9	464.6	371.4	-	-	-	-	-	-	-	-	-	-	-	-	3950
DLD-0100	F	134.4	122.3	100.0	80.3	63.0	-	-	-	-	-	-	-	-	-	-	-	-	1748
DLD-0150	F	154.3	177.3	146.2	118.7	94.1	-	-	-	-	-	-	-	-	-	-	-	-	1839
DLD-0160	G	224.9	205.3	169.4	137.2	108.5	-	-	-	-	-	-	-	-	-	-	-	-	2378
DLD-0180	G	264.2	241.8	200.5	164.8	132.1	-	-	-	-	-	-	-	-	-	-	-	-	2533
DLD-0200	G	315.6	286.8	240.0	197.0	159.5	-	-	-	-	-	-	-	-	-	-	-	-	2660
DLD-0240	G	366.3	335.9	279.3	228.5	184.0	-	-	-	-	-	-	-	-	-	-	-	-	2725
DLD-0300	H	423.0	386.9	321.0	263.0	212.3	-	-	-	-	-	-	-	-	-	-	-	-	3115
DLD-0400	H	464.7	422.5	346.9	279.4	222.3	-	-	-	H	287.6	234.1	186.9	-	-	-	-	-	3270
DLD-0440	-	-	-	-	-	-	H	198.4	152.4	114.6	-	-	-	H	225.2	180.7	140.3	3167	
DLD-0500	H	577.9	531.8	442.0	358.0	283.2	-	-	-	H	360.8	295.4	238.0	-	-	-	-	-	3509
DLD-0540	-	-	-	-	-	-	H	248.9	191.2	141.9	-	-	-	H	281.5	222.2	169.6	3452	
DLD-0600	I	691.0	632.9	524.0	425.8	339.1	-	-	-	I	439.9	359.3	287.9	-	-	-	-	-	3906
DLD-0600	-	-	-	-	-	-	I	294.9	226.4	169.3	-	-	-	I	315.2	249.7	192.3	3688	
DLD-0700	J	848.5	775.2	641.8	525.6	425.5	-	-	-	J	538.5	443.4	359.4	-	-	-	-	-	4613
DLD-0800	J	1007.7	925.8	773.2	636.0	514.4	-	-	-	J	652.2	536.9	435.1	-	-	-	-	-	5062
DLD-1000	K	1298.8	1184.9	977.9	797.9	644.2	-	-	-	-	-	-	-	-	-	-	-	-	5823
DLD-1200	L	1519.4	1389.9	1149.1	934.1	746.0	-	-	-	-	-	-	-	-	-	-	-	-	6705
PLD-0440	-	-	-	-	-	-	H	198.4	152.4	114.6	-	-	-	H	225.2	180.7	140.3	3164	
PLD-0500	H	577.9	531.8	442.0	358.0	283.2	-	-	-	H	360.8	295.4	238.0	-	-	-	-	-	3536
PLD-0540	-	-	-	-	-	-	H	248.9	191.2	141.9	-	-	-	H	281.5	222.2	169.6	3512	
PLD-0600	I	691.0	632.9	524.0	425.8	339.1	-	-	-	I	439.9	359.3	287.9	-	-	-	-	-	3968
PLD-0600	-	-	-	-	-	-	I	294.9	226.4	169.3	-	-	-	I	315.2	249.7	192.3	3769	
PLD-0700	J	848.5	775.2	641.8	525.6	425.5	-	-	-	J	538.5	443.4	359.4	-	-	-	-	-	4675
PLD-0800	J	1007.7	925.8	773.2	636.0	514.4	-	-	-	J	652.2	536.9	435.1	-	-	-	-	-	5163
PLD-1000	K	1298.8	1184.9	977.9	797.9	644.2	-	-	-	-	-	-	-	-	-	-	-	-	5923
PLD-1200	L	1519.4	1389.9	1149.1	934.1	746.0	-	-	-	-	-	-	-	-	-	-	-	-	6812

- (1) Use suffix H2 or L2 (R-22), M4 or L4 (R-404A or R-507) on model number
- (2) Unit sizes A to E are supplied with a single compressor for single circuit application (SLD)
Unit sizes F to L are supplied with two compressors for double circuit application (DLD)
Unit sizes H to L are supplied with two compressors for single circuit application (PLD)
- (3) The shipping weight may vary between units using R-22 and units using R-404A or R-507.

UNIT SIZE	QTY OF FANS	QTY OF COMPRESSORS	UNIT SIZE (inches)		
			LENGTH	HEIGHT	DEPTH
A	1	1	92	51 1/2	45 1/4
B	2	1	146	51 1/2	45 1/4
C	3	1	200	51 1/2	45 1/4
D	4	1	146	51 1/2	90 1/2
E	6	1	200	51 1/2	90 1/2
F	1	2	124 3/4	51 1/2	45 1/4
G	2	2	178 3/4	51 1/2	45 1/4
H	3	2	232 3/4	51 1/2	45 1/4
I	4	2	146	51 1/2	90 1/2
J	6	2	200	51 1/2	90 1/2
K	8	2	254	51 1/2	90 1/2
L	10	2	308	51 1/2	90 1/2

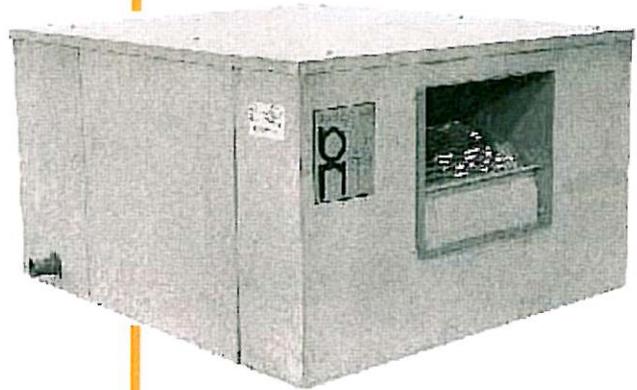
COMPRESSOR UNLOADING STAGES AVAILABLE (FOR EACH COMPRESSOR)	
MODEL (H2 SERIES)	% UNLOADING
SLD-0100, 0150	Moduloled
SLD-0200, 0250, 0300	50%
SLD-0350, 0400	33% ou 33% et 66%
SLD-0500, 0600	25% ou 25% et 50%
DLD-0100, 0150, 0160	N/A
DLD-0180, 0200, 0300	Moduloled
DLD-0400, 0500, 0600	50%
DLD-0700, 0800	33% ou 33% et 66%
DLD-1000, 1200	25% ou 25% et 50%
PLD-0700, 0800	33% ou 33% et 66%
PLD-1000, 1200	25% ou 25% et 50%



AIR HANDLING UNITS

CA Compact Air Handling Units

- The **Blanchard-Ness** Compact Air Handler models CA are standardized pre-engineered for cooling or combination cooling and heating system.
- Heavy gauge satin coated steel casing with one inch thick, high density fiber glass insulation.
- Forward curve, belt drive blowers are statically and dynamically balanced for quiet operation.
- Coils are DX chilled water or hot water.
- Internally mounted motors are single phase (up to 1 HP) or three phase.
- Flat or angle filter (optional).
- Discharge and return air grill (optional).



MODEL	CFM	USGPM	CHILLED WATER COIL @ 45°F ENTERING WATER				COIL STATIC PRESSURE (Inch W.G.)	DIRECT EXPANSION COIL @ 40°F SUCTION				COIL STATIC PRESSURE (Inch W.G.)
			80°F DB / 67°F WB CAPACITY (BTU/h)		75°F DB / 63°F WB CAPACITY (BTU/h)			80°F DB / 67°F WB CAPACITY (BTU/h)		75°F DB / 63°F WB CAPACITY (BTU/h)		
			TOTAL	SENSIBLE	TOTAL	SENSIBLE		TOTAL	SENSIBLE	TOTAL	SENSIBLE	
CA-025	1000	7.8	38800	26500	30400	23300	0.29	39000	25700	31800	23100	0.22
CA-035	1400	10.4	51700	36200	40300	31800	0.25	56500	36900	46000	33000	0.19
CA-050	2000	15.9	79100	53600	61700	47000	0.29	78100	51400	63600	46100	0.22
CA-075	3000	19.8	98500	72500	76700	64000	0.31	114300	75800	93100	68100	0.24
CA-100	4000	26.1	129800	95800	101100	84600	0.35	147400	98900	120000	88800	0.26
CA-125	5000	36.0	178300	126100	139700	111000	0.38	180300	121800	146800	109500	0.28
CA-150	6000	43.3	215300	151400	167800	133200	0.38	216300	146200	176200	131400	0.28
CA-175	7000	55.4	275600	187000	215100	164000	0.30	278500	178700	220300	160400	0.22
CA-200	8000	61.3	305100	208900	236200	183500	0.38	288500	194900	234900	175200	0.28

MODEL	CFM	TOTAL STATIC PRESSURE (Inch W.G.)											
		0.25		0.50		0.75		1.00		1.50		2.00	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CA-025	1000	499	0.08	681	0.14	840	0.20	1010	0.29	1250	0.44	1430	0.63
CA-035	1400	553	0.16	705	0.24	840	0.31	963	0.39	1190	0.60	1426	0.80
CA-050	2000	661	0.35	785	0.45	897	0.57	999	0.68	1169	0.89	1362	1.12
CA-075	3000	561	0.53	654	0.65	747	0.79	837	0.95	1003	1.26	1157	1.57
CA-100	4000	451	0.66	528	0.79	606	0.95	681	1.14	821	1.58	950	2.05
CA-125	5000	534	1.19	589	1.36	652	1.53	715	1.71	837	2.16	952	2.69
CA-150	6000	386	1.06	466	1.34	534	1.62	597	1.92	713	2.60	820	3.35
CA-175	7000	423	1.54	496	1.50	560	2.22	618	2.55	725	3.26	824	4.06
CA-200	8000	463	2.15	529	2.60	590	2.98	644	3.35	744	4.11	836	4.94

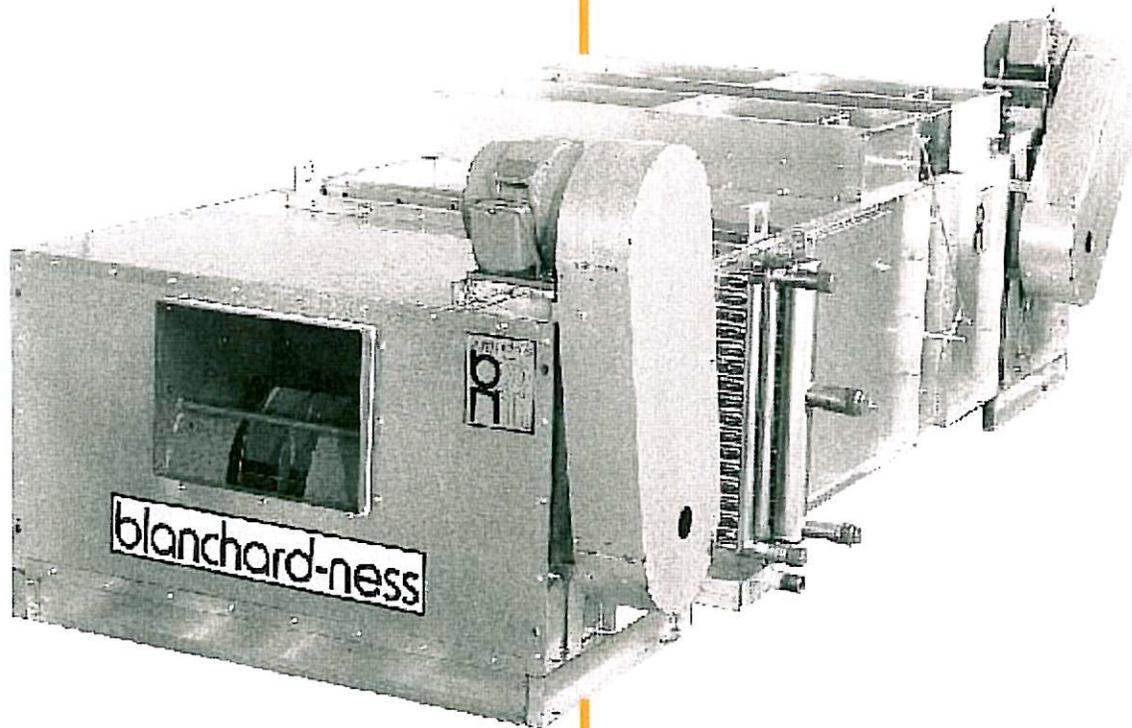
MODEL	BLOWER DIA (Inches)	COIL FACE AREA (sq. ft.)	OPTIONAL FLAT FILTER		UNIT SIZE (Inches)			DRAIN (R-404A R-507 or R-309) (Inch)	SHIPPING WEIGHT (lbs)
			QTY	SIZE (Inches)	LENGTH	HEIGHT	DEPTH		
CA-025	10	2.4	1	20 X 20	30	20 1/2	35	2.3	287
CA-035	10	3.7	2	16 X 20	40	20 1/2	35	3.3	300
CA-050	10	4.9	2	20 X 20	50	20 1/2	35	4.3	315
CA-075	12	6.9	2	20 X 25	60	23	40	6.0	356
CA-100	15	8.7	3	16 X 25	60	28	40	7.5	375
CA-125	15	10.4	3	20 X 25	70	28	45	8.9	390
CA-150	18	12.5	6	16 X 20	70	33	45	10.7	428
CA-175	18	16.7	8	16 X 20	80	33	45	14.1	455
CA-200	18	16.7	8	16 X 20	90	33	45	14.1	455

Models CA-025 to CA-100 have 7/8" O.D. drain connection.
 Models CA-125 to CA-200 have 1-1/4 M.P.T. drain connections.
 (1) Multiply by 1.12 for R-22 refrigerant.
 Multiply by 1.13 for R-134a refrigerant.

AIR HANDLING UNITS

AH Central Station Air Handling Units

- The **Blanchard-Ness** range of central station air handling units offer a wide selection of cooling, heating, dehumidification, heat recovery, filtration, direct expansion, chilled water, glycol, hot water and steam for, ceiling, floor or wall mounted applications.
- Modular design engineered to fit variety of systems.
- Matching high side condensing units for refrigerant applications.
- Interchangeability of many components permits numerous combinations.
- Engineered for compactness and optimum performance.
- Wide selection of basic coil surfaces to suit individual systems.
- Full range of combinations of coils, filter, mixing-box, face and by-pass damper sections.
- Total accessibility for ease of installation and service.
- A complete line of units from 1,050 cfm to 58,800 cfm and from 3 ft² to 84 ft² of coil face area.



For any information, please consult our
Air Handling Units catalogue.

DEHUMIDIFYING UNITS

DA Packaged Dehumidifier



- Packaged dehumidifiers model DA are designed for arenas, curling rinks, roller skating rinks and other similar applications requiring moisture removal from 100°F to 30°F ambient.
- Low head pressure on low temperature application.
- Lower electricity consumption for equivalent humidity removal.
- Short interval between defrosts to keep evaporator with minimum ice and increase efficiency.
- Hot gas defrost (model DA-G only) quick and efficient defrost minimize compressor cycling.
- Easy access for service.
- Factory assembled, wired, charged and tested.
- Hot gas distributed equally to each evaporator tube to melt the ice evenly and efficiency.
- Dehumidistat included, shipped loose for field installation.
- Four 16" x 20" x 2" throw-away filters included.
- Compact unit: 58 in. long by 44 in. wide by 33-1/4 in. high.



New

- White painted casing
- Factory wired indicator lights

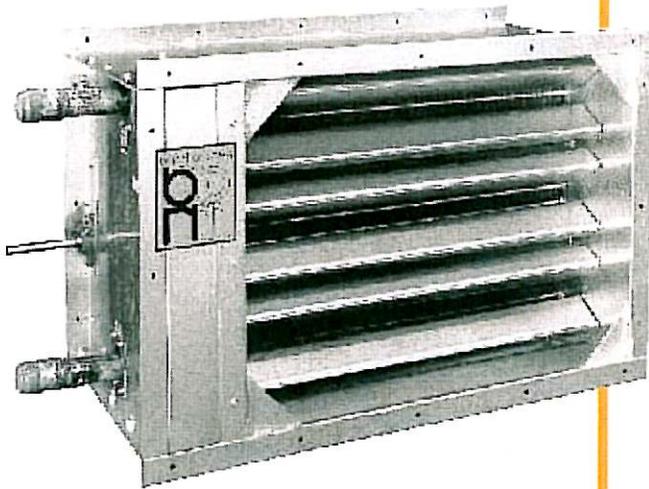
MODEL	VOLTAGE	BLOWER MOTOR	COMPRESSOR		SHIPPING WEIGHT (lbs)
		FLA	RLA	LRA	
DA-5.0H	208/3/60	3.8	26.5	132	724
DA-5.0H	460/3/60	1.9	12.5	66	724
DA-5.0H	575/3/60	1.4	9.0	56	724
DA-5.0A	208/3/60	3.8	26.5	132	735
DA-5.0A	460/3/60	1.9	12.5	66	735
DA-5.0A	575/3/60	1.4	9.0	56	735
DA-5.0G	208/3/60	3.8	26.5	132	746
DA-5.0G	460/3/60	1.9	12.5	66	746
DA-5.0G	575/3/60	1.4	9.0	56	746
DA-7.5H	208/3/60	3.8	30.1	183	785
DA-7.5H	460/3/60	1.9	15.8	91.1	785
DA-7.5H	575/3/60	1.4	12.4	73.3	785
DA-7.5A	208/3/60	3.8	30.1	183	799
DA-7.5A	460/3/60	1.9	15.8	91.1	799
DA-7.5A	575/3/60	1.4	12.4	73.3	799
DA-7.5G	208/3/60	3.8	30.1	183	810
DA-7.5G	460/3/60	1.9	15.8	91.1	810
DA-7.5G	575/3/60	1.4	12.4	73.3	810

MODEL TYPE	APPLICATION RANGE	
	DA 5.0	DA 7.5
H (HIGH TEMPERATURE)	100°F TO 70°F	100°F TO 70°F
A (AIR DEFROST)	70°F TO 50°F	70°F TO 50°F
G (HOT GAS DEFROST)	70°F TO 30°F	70°F TO 30°F

RECOMMENDED NUMBER OF UNITS		
APPLICATION	DA 5.0 UNIT	DA 7.5 UNIT
CURLING RINK UP TO 4 AISLES	-	1
CURLING RINK MORE TO 4 AISLES	-	2
ICE SKATING ARENA AUDIENCE ON 1 LONG SIDE	2	-
AUDIENCE ON 2 LONG SIDES	3	OR 2
AUDIENCE ON 4 LONG SIDES	4	OR 3

HEATING COILS

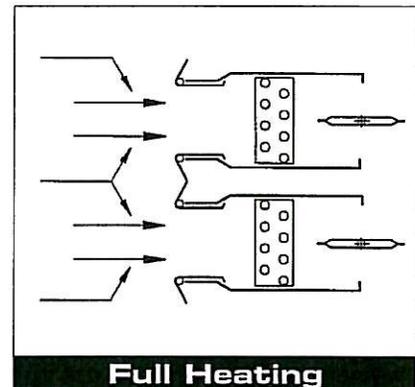
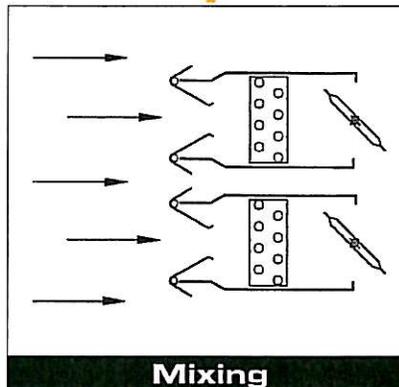
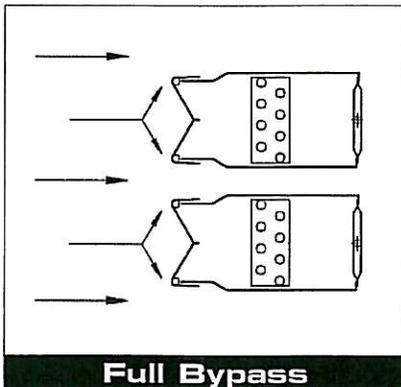
BHC Integral Face and Bypass Coils



- **BLANCHARD-NESS** Bypass Heating Coils are ideal for heating fresh air intake, where accurate control of air temperature is needed.
- Offers maximum freeze protection due to continuous full steam pressure or water flow in coil at all times.
- Minimum air stratification, obtained by heating and not heating alternate layers of air in the air stream, on the full face of the coil.
- Accurate temperature control is achieved by a precise control of the mixing proportion of heated and unheated air.
- Aerodynamically designed air inlet dampers ensure constant volume and pressure drop through the coil.
- Outlet shut-off dampers ensure minimum reheat in full bypass situation.
- Factory pre-adjusted damper linkage.
- Vertical and horizontal coil available.
- Designed to match **BLANCHARD-NESS** central station air handling unit.

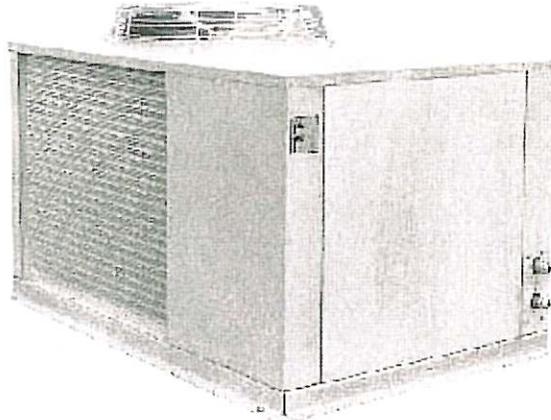
Special lengths also available.

- Available heights: 21-7/8, 29-5/8, 37-1/8
46-3/8, 54-1/8, 61-3/4
- Standard lengths: 44-1/2, 50-1/2, 56-1/2
62-1/2, 68-1/2, 74-1/2
80-1/2, 92-1/2, 104-1/2
116-1/2, 122-1/2, 128-1/2

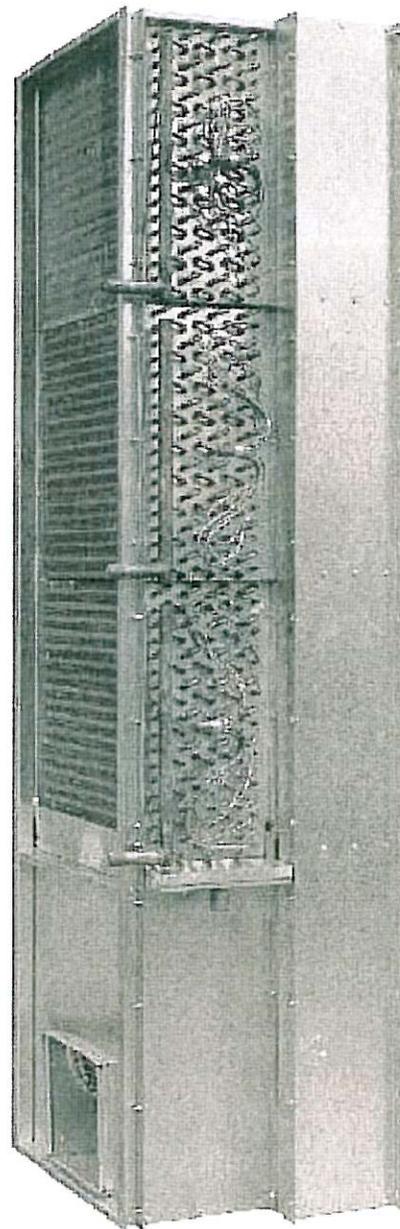


SPECIFY YOUR NEEDS, WE MAKE IT.

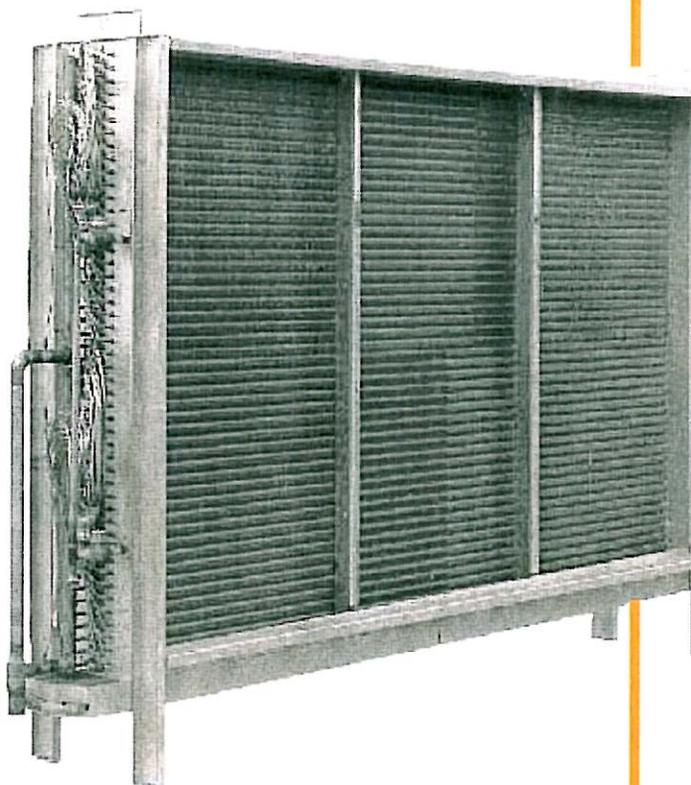
Water Heat Recovery Unit



**Laboratory Equipment
(Thermal Shock)**

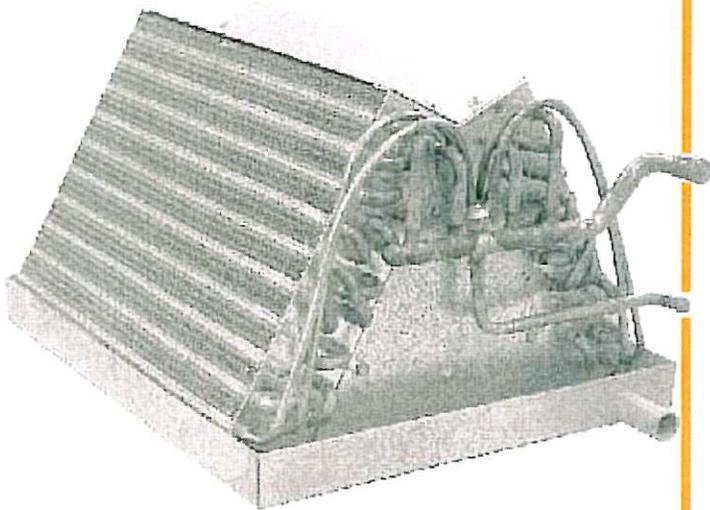


Blast Freezer Coil



YOU NAME IT, WE MAKE IT.

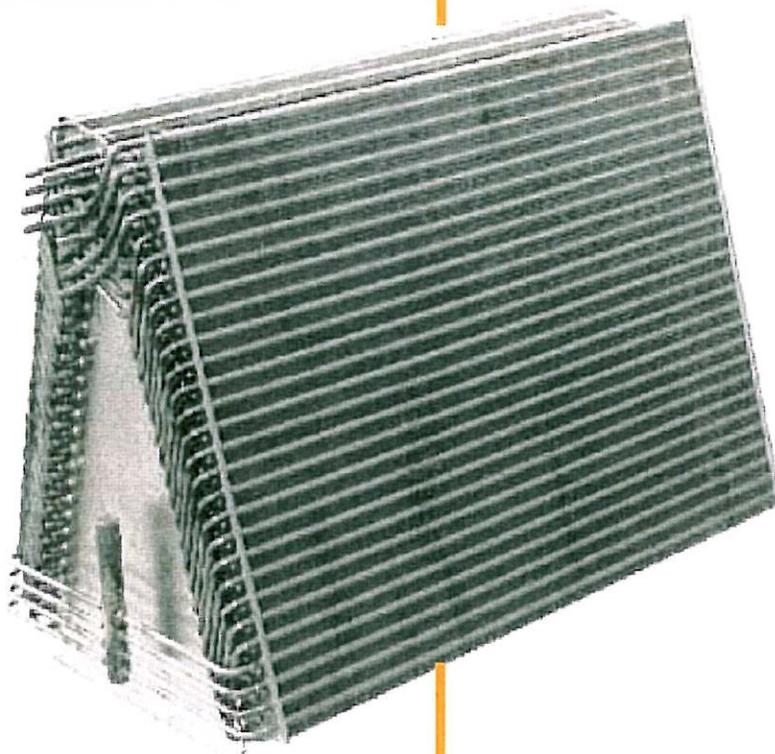
A-Coil



Cabinet Condenser Coil

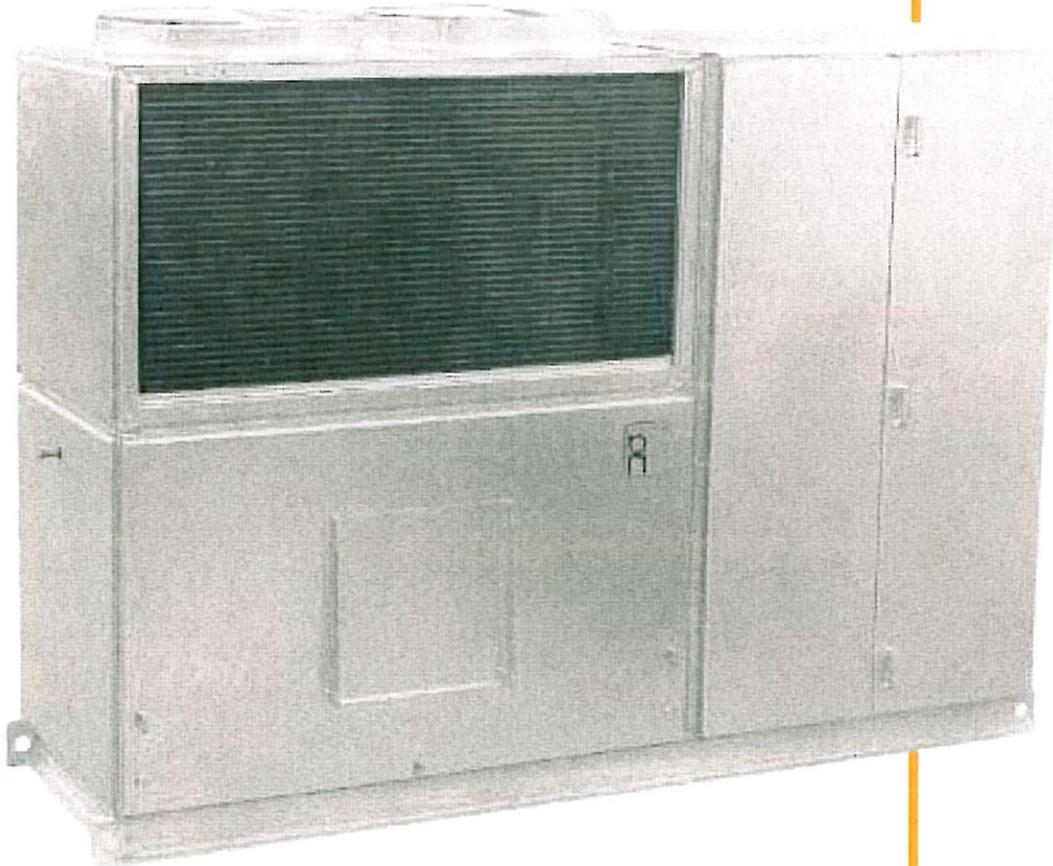


Heat Recovery Coil



SPECIAL CONSTRUCTION ?

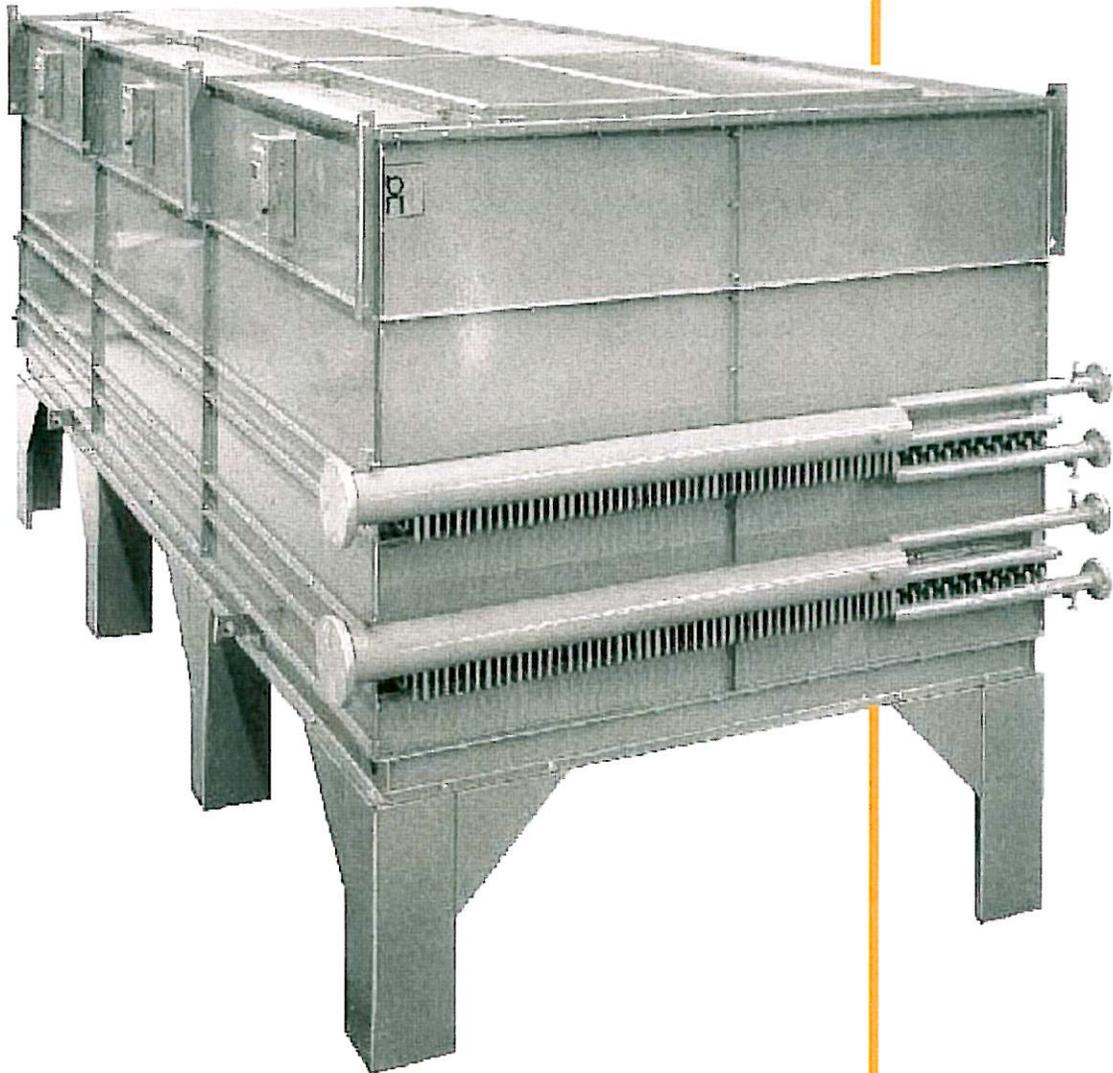
We engineer it !



**Ice Machine Condenser
and Cabinet**

HEAT TO REJECT ?

We can handle it!



Industrial radiator

500 USGPM
128,000 CFM
4,500,000 BTU/h

REFRIGERATION LOAD ESTIMATION TABLE NOT INCLUDING PRODUCT LOAD

OUTSIDE AREA, ROOM VOLUME AND REFRIGERATION LOADS FOR WALK-IN COOLERS AND FREEZERS AT 90°F AMBIENT™												
ROOM SIZE OUTSIDE W x L	8 FEET HEIGHT™						10 FEET HEIGHT™					
	OUTSIDE AREA ft²	ROOM VOLUME ft³	CAPACITY REQUIREMENT LESS PRODUCT LOAD (BTU/h)				OUTSIDE AREA ft²	ROOM VOLUME ft³	CAPACITY REQUIREMENT LESS PRODUCT LOAD (BTU/h)			
			20°F	10°F	20°F	36°F			20°F	10°F	20°F	36°F
6 X 6	228	234	4900	4500	3900	3300	276	294	5600	5200	4300	3800
6 X 8	272	319	5600	5300	4400	3900	328	402	6400	6000	5000	4300
6 X 10	316	404	6400	6000	5000	4300	380	509	7200	6800	5600	4800
6 X 12	360	490	7100	6700	5600	4700	432	616	8000	7500	6200	5400
8 X 10	368	552	7400	6900	5700	5000	440	684	8300	7800	6500	5600
8 X 12	416	668	8200	7700	6400	5500	496	840	9300	8600	7100	6100
8 X 14	464	784	9300	8700	7200	6300	552	987	10500	9700	8000	6900
8 X 16	512	900	10000	9300	7800	6800	608	1133	11300	10500	8600	7500
10 X 10	420	699	8300	7800	6500	5600	500	679	9400	8800	7200	6200
10 X 12	472	846	9500	9000	7400	6500	560	1065	10700	10000	8200	7100
10 X 14	524	993	10400	9700	8000	6900	620	1250	11700	10900	9000	7800
10 X 16	576	1141	11200	10500	8600	7500	680	1435	12600	11700	9600	8300
10 X 18	628	1288	12000	11200	9200	8000	740	1620	13400	12500	10200	8900
10 X 20	680	1435	12800	11900	9700	8400	800	1806	14200	13300	10800	9300
12 X 14	584	1203	11500	10700	8800	7600	688	1513	12800	11900	9800	8400
12 X 16	640	1381	12400	11600	9400	8100	752	1737	13800	12900	10500	9100
12 X 18	696	1559	13200	12400	10100	8700	816	1962	14800	13600	11200	9700
12 X 20	752	1737	14100	13100	10600	9300	880	2186	15700	14700	11800	10300
12 X 30	1032	2629	18100	16800	13400	11700	1200	3307	20300	18900	14900	13000
14 X 16	704	1621	13400	12500	10200	8900	624	2040	15000	14000	11400	9800
14 X 20	824	2040	15300	14200	11600	10000	860	2566	17000	15900	12900	11100
14 X 24	944	2458	17100	15900	12800	11100	1096	3093	19100	17800	14200	12300
14 X 28	1064	2877	18800	17600	14000	12100	1232	3619	20900	19500	15500	13400
14 X 32	1184	3295	20500	19100	15200	13100	1368	4146	22800	21200	16700	14500
16 X 16	768	1861	14500	13500	10900	9500	696	2342	16100	15100	12100	10500
16 X 20	896	2342	16500	15400	12400	10700	1040	2946	18300	17100	13700	11800
16 X 24	1024	2822	18400	18100	13700	11800	1184	3551	20500	19100	15300	13200
16 X 28	1152	3303	20400	19000	15000	13000	1328	4155	22500	21000	16700	14300
16 X 32	1280	3783	22200	20700	16400	14200	1472	4760	24600	22600	17900	15500
16 X 36	1408	4264	23900	22200	17500	15200	1616	5364	26500	24600	19400	16700
20 X 20	1040	2946	18800	17500	14000	12100	1200	3707	20800	19400	15400	13400
20 X 24	1184	3551	21000	19600	15600	13500	1360	4467	23300	21700	17200	14900
20 X 28	1328	4155	23100	21600	17000	14700	1520	5228	25600	23900	18900	16300
20 X 32	1472	4760	25300	23500	18400	15900	1680	5988	28000	26000	20400	17700
20 X 36	1616	536	27300	25300	19900	17200	1840	6749	30200	28000	21800	18900
20 X 40	1760	5969	29300	27300	21300	18400	2000	7509	32300	30100	23400	20300
30 X 20	1400	4458	24200	22600	17800	15400	1600	5608	26800	25000	19600	16900
30 X 24	1584	5372	27100	25200	19800	17100	1800	6759	30000	27800	21600	18600
30 X 30	1860	6744	31300	29100	22500	19500	2100	8484	34200	31800	24700	21500
40 X 30	2320	9030	38000	35200	27000	23400	2660	11361	41400	38500	29600	25600
40 X 40	2880	12091	46500	43200	33700	28400	3200	15212	50700	47000	35600	31000

Rating based on 3" foamed in place urethane, average usage, indoor installation & 16 hour compressor operation.

IMPORTANT: Utilisation of charted values requires application of properly rated equipment.

CONVERSION FACTORS FROM INCH POUND UNITS TO SI UNITS		
FROM	MULTIPLY BY	TO GET
INCH POUND UNIT	FACTOR	SI UNIT
inch	25.4	mm
in²	0.0929	m²
FPS	0.3048	m/s
FPM	0.00508	m/s
CFM	0.472	L/s
USGPM	0.0631	L/s
inch W.G.	249	Pa (pascal)
ps	6.895	kPa
BTU/h	0.293	W (watt)
lbs	0.454	kg

ELECTRICAL FORMULAE	
Full Load Current (Single Phase) =	$\frac{\text{Watts}}{\text{Voltage}}$
Full Load Current (Three Phase)	$\frac{\text{Watts}}{1.732 \times \text{Voltage}}$
Volts =	Amperage x Resistance
Watts =	Amperage x Voltage

(1) Correction factors - Other ambients : 80°F use 0.8; 85°F use 0.9; 95°F use 1.1; 100°F use 1.2.

(2) Heights represent internal clearance. Overall heights with floor : 8'-6" & 10'-6".

(3) Correction factors - Other usage : Light (long term storage) use 0.80; Heavy use from 1.2 to 1.4.

TOTAL ENTHALPY OF SATURATED AIR

WET BULB TEMPERATURE °F	BTU PER POUND OF DRY AIR WITH INCLUDED MOISTURE									
	TENTHS OF A DEGREE									
	0	1	2	3	4	5	6	7	8	9
0	0.84	0.86	0.89	0.92	0.95	0.98	1.01	1.03	1.06	1.09
1	1.12	1.15	1.18	1.21	1.24	1.26	1.29	1.32	1.35	1.38
2	1.41	1.44	1.47	1.50	1.52	1.55	1.58	1.61	1.64	1.67
3	1.70	1.73	1.76	1.79	1.82	1.84	1.87	1.90	1.93	1.96
4	1.99	2.02	2.05	2.08	2.11	2.14	2.17	2.20	2.23	2.26
5	2.29	2.32	2.35	2.38	2.40	2.43	2.46	2.48	2.52	2.55
6	2.56	2.61	2.64	2.67	2.70	2.73	2.76	2.79	2.82	2.85
7	2.88	2.91	2.94	2.97	3.01	3.04	3.07	3.10	3.13	3.16
8	3.19	3.22	3.25	3.28	3.31	3.34	3.37	3.40	3.43	3.46
9	3.49	3.52	3.56	3.59	3.62	3.65	3.68	3.71	3.74	3.77
10	3.80	3.83	3.87	3.90	3.93	3.96	3.99	4.02	4.05	4.08
11	4.12	4.15	4.18	4.21	4.24	4.27	4.31	4.34	4.37	4.40
12	4.43	4.46	4.50	4.53	4.56	4.59	4.62	4.66	4.69	4.72
13	4.75	4.79	4.82	4.85	4.88	4.91	4.95	4.98	5.01	5.04
14	5.08	5.11	5.14	5.17	5.21	5.24	5.27	5.30	5.34	5.37
15	5.40	5.44	5.47	5.50	5.54	5.57	5.60	5.64	5.67	5.70
16	5.74	5.77	5.80	5.84	5.87	5.90	5.94	5.97	6.00	6.04
17	6.07	6.11	6.14	6.17	6.21	6.24	6.26	6.31	6.34	6.36
18	6.41	6.45	6.48	6.52	6.55	6.59	6.63	6.65	6.68	6.72
19	6.76	6.79	6.83	6.86	6.90	6.93	6.97	7.00	7.04	7.07
20	7.11	7.14	7.18	7.21	7.25	7.28	7.32	7.35	7.39	7.42
21	7.46	7.50	7.53	7.57	7.60	7.64	7.68	7.71	7.75	7.78
22	7.82	7.86	7.89	7.93	7.97	8.00	8.04	8.08	8.11	8.15
23	8.19	8.22	8.26	8.30	8.33	8.37	8.41	8.45	8.48	8.52
24	8.56	8.59	8.63	8.67	8.71	8.75	8.78	8.82	8.86	8.90
25	8.93	8.97	9.01	9.05	9.09	9.13	9.16	9.20	9.24	9.28
26	9.32	9.36	9.39	9.43	9.47	9.51	9.55	9.59	9.63	9.67
27	9.71	9.75	9.79	9.83	9.86	9.90	9.94	9.98	10.02	10.06
28	10.10	10.14	10.18	10.22	10.26	10.30	10.34	10.38	10.43	10.47
29	10.51	10.55	10.59	10.63	10.67	10.71	10.75	10.79	10.83	10.87
30	10.92	10.96	11.00	11.04	11.08	11.12	11.17	11.21	11.25	11.29
31	11.33	11.38	11.42	11.46	11.50	11.55	11.59	11.63	11.67	11.72
32	11.76	11.80	11.84	11.88	11.92	11.96	12.00	12.05	12.09	12.13
33	12.17	12.21	12.25	12.29	12.34	12.38	12.42	12.46	12.50	12.54
34	12.59	12.63	12.67	12.71	12.75	12.80	12.84	12.88	12.92	12.97
35	13.01	13.05	13.09	13.14	13.18	13.22	13.27	13.31	13.35	13.40
36	13.44	13.48	13.53	13.57	13.61	13.66	13.70	13.74	13.79	13.83
37	13.87	13.92	13.96	14.01	14.05	14.10	14.14	14.18	14.23	14.27
38	14.32	14.36	14.41	14.45	14.50	14.55	14.59	14.64	14.68	14.73
39	14.77	14.82	14.86	14.91	14.95	15.00	15.05	15.10	15.14	15.18
40	15.23	15.28	15.32	15.37	15.42	15.46	15.51	15.56	15.60	15.65
41	15.70	15.74	15.79	15.84	15.89	15.93	15.99	16.03	16.08	16.12
42	16.17	16.22	16.27	16.32	16.37	16.41	16.46	16.51	16.56	16.61
43	16.66	16.71	16.76	16.80	16.85	16.90	16.95	17.00	17.05	17.10
44	17.15	17.20	17.25	17.30	17.35	17.40	17.45	17.50	17.55	17.60
45	17.65	17.70	17.75	17.80	17.85	17.91	17.96	18.01	18.06	18.11
46	18.16	18.21	18.26	18.32	18.37	18.42	18.47	18.52	18.58	18.63
47	18.66	18.73	18.79	18.84	18.89	18.95	19.00	19.05	19.10	19.16
48	19.21	19.27	19.32	19.37	19.42	19.48	19.54	19.58	19.64	19.70
49	19.75	19.81	19.86	19.92	19.97	20.03	20.08	20.14	20.19	20.25
50	20.30	20.36	20.41	20.47	20.53	20.58	20.64	20.69	20.75	20.81
51	20.86	20.92	20.98	21.03	21.09	21.15	21.21	21.26	21.32	21.38
52	21.44	21.49	21.55	21.61	21.67	21.73	21.79	21.84	21.90	21.96
53	22.02	22.08	22.14	22.20	22.26	22.32	22.38	22.44	22.50	22.56
54	22.62	22.68	22.74	22.80	22.86	22.92	22.98	23.04	23.10	23.16
55	23.22	23.28	23.34	23.41	23.47	23.53	23.59	23.65	23.72	23.78
56	23.84	23.90	23.97	24.03	24.10	24.16	24.22	24.29	24.35	24.42
57	24.48	24.54	24.61	24.67	24.74	24.80	24.86	24.93	24.99	25.06
58	25.12	25.18	25.25	25.32	25.38	25.45	25.51	25.58	25.64	25.71
59	25.78	25.84	25.92	25.98	26.05	26.12	26.19	26.26	26.32	26.39
60	26.46	26.53	26.60	26.67	26.74	26.81	26.87	26.94	27.01	27.08
61	27.15	27.22	27.29	27.36	27.43	27.50	27.57	27.64	27.71	27.78
62	27.85	27.92	27.99	28.07	28.14	28.21	28.28	28.35	28.43	28.50
63	28.57	28.64	28.72	28.80	28.87	28.94	29.01	29.09	29.16	29.24
64	29.31	29.39	29.49	29.54	29.61	29.68	29.76	29.84	29.91	29.99
65	30.06	30.14	30.21	30.29	30.37	30.44	30.52	30.60	30.68	30.75
66	30.83	30.91	30.99	31.07	31.15	31.23	31.30	31.38	31.46	31.54
67	31.62	31.70	31.78	31.86	31.94	32.02	32.10	32.18	32.26	32.34
68	32.42	32.50	32.58	32.67	32.75	32.84	32.92	33.00	33.08	33.17
69	33.25	33.33	33.42	33.50	33.59	33.67	33.75	33.84	33.92	34.00
70	34.09	34.18	34.26	34.35	34.43	34.52	34.61	34.69	34.78	34.86
71	34.95	35.03	35.13	35.21	35.30	35.39	35.48	35.57	35.65	35.74
72	35.83	35.92	36.01	36.10	36.19	36.28	36.38	36.47	36.56	36.65
73	36.74	36.83	36.92	37.02	37.11	37.20	37.30	37.39	37.47	37.57
74	37.66	37.76	37.85	37.94	38.04	38.14	38.23	38.32	38.42	38.51
75	38.61	38.71	38.80	38.90	38.99	39.09	39.19	39.28	39.38	39.47
76	39.57	39.67	39.77	39.87	39.97	40.07	40.17	40.27	40.37	40.47
77	40.57	40.67	40.77	40.87	40.97	41.08	41.18	41.28	41.38	41.48
78	41.58	41.68	41.79	41.89	42.00	42.10	42.20	42.31	42.41	42.52
79	42.62	42.72	42.83	42.94	43.04	43.16	43.26	43.37	43.48	43.58
80	43.69	43.80	43.91	44.02	44.13	44.24	44.34	44.45	44.56	44.67