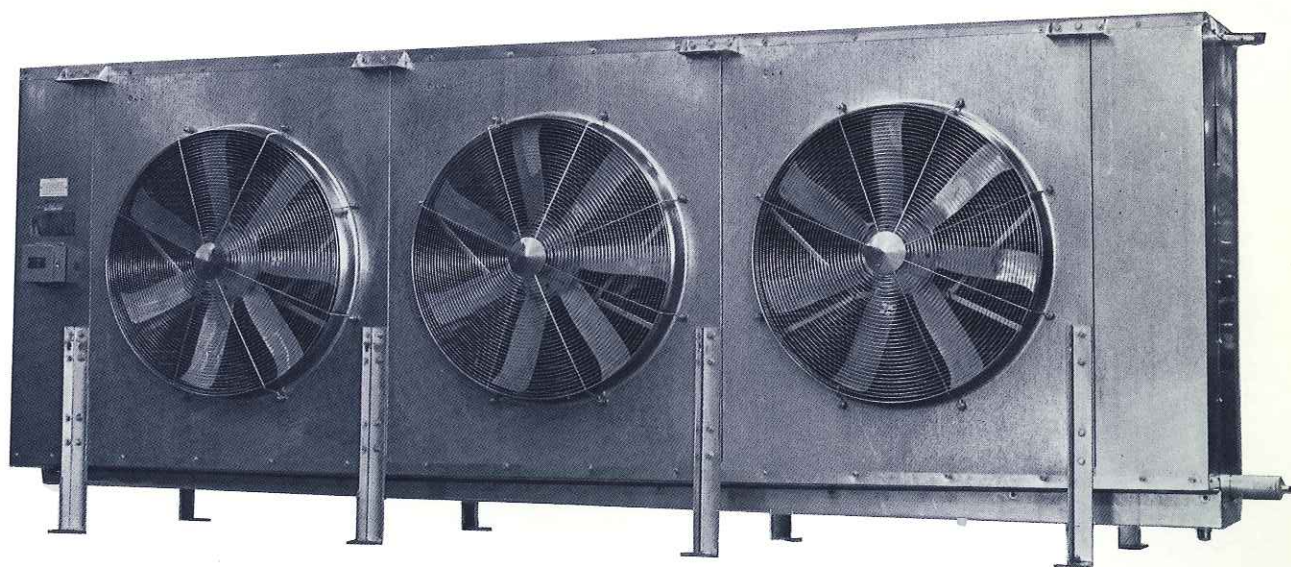


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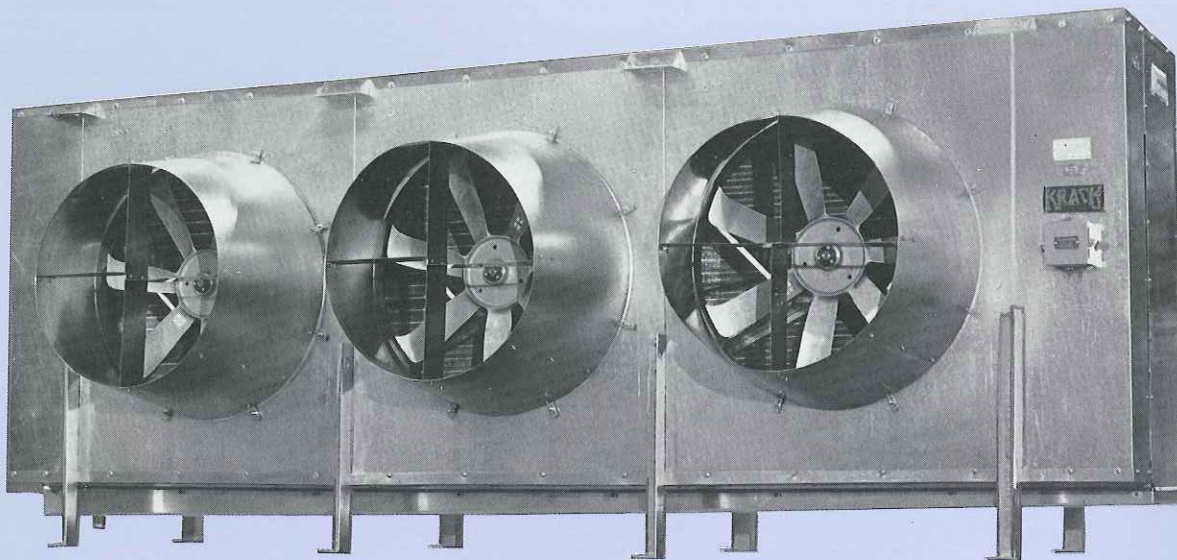
Product Coolers Series III



*For Large Coolers and Freezers
Air, Hot Gas, Water Defrost, or Electric Defrost
Ammonia, Halocarbon, or Brine Refrigerants
Hot Dip Galvanized Steel Coils
All Aluminum Coils
Copper Tube Aluminum Fin Coils*



FEATURES



Efficient Coil Design

Tubes are $\frac{3}{4}$ inch OD staggered in the direction of air flow. Turbo-spacers located between tubes provide nominal three or four fin per inch spacing and improve fin efficiency by turbulating air flow.

Materials of Construction

- Hot dipped galvanized steel tubes and fins.
- Aluminum tubes and fins.
- Copper tubes and aluminum fins.
- Coils are constructed and listed in accordance with Underwriters Laboratories Standards. Each coil is tested under water with 350 psig air.
- For maximum efficiency each coil is tailor made for its intended duty with the following features:
 - Recirculated coils have graduated liquid feed orifices to balance static head and reduce hot gas blow-by during defrost.
 - Direct expansion coils are circuited to have minimum pressure drop and maintain refrigerant velocity for oil return.
 - Flooded coils are circuited to minimize internal losses while maintaining minimum surge drum operating level.
- Coil variations available include:
 - Variable fin spacing: $1\frac{1}{2}/3$ or $2/4$ fins per inch.
 - Steel coils with brass distributor for direct expansion halocarbon.
 - Split face or split row circuiting.
- For aluminum coils companion steel flanges with bolts, isolation kits, and gaskets are provided.

Heavy Duty Construction

- Housings are mill galvanized steel for long life and maximum strength.
- Features include:
 - Continuous tube sheets provide maximum rigidity.
 - Deep spun orifices insure optimum fan performance.
 - Individually compartmented fans prevent reverse fan rotation and allows fan cycling for capacity control which reduces operating costs.

Efficient Fans

- All fans are cast aluminum selected for maximum efficiency with non-overloading performance.
- Selections are given for 870, 1160 and 1750 rpm operation.
- Fan guards are PVC coated for long life.

Heavy Duty Motors

- Standard motors are open drip proof, lubricated for -40°F ambient operating at 870, 1160 or 1750 rpm.
- All motors wired to terminal strip in a common NEMA 4 junction box on the end opposite refrigerant connections.

Air Defrost

(above $+36^{\circ}\text{F}$ room temperature)

- Units should be selected at low face velocities using the shaded ratings on the capacity data tables to prevent moisture carry-over if the liquid solenoid valve cycles.

- Drain pan is aluminum for long life and corrosion protection. Foamed-in-place urethane insulation and a mill galvanized steel cover is optional.

Hot Gas Defrost Unit

(below $+32^{\circ}\text{F}$ room temperature)

- The unique "waffle" stainless steel drain pan allows for the fastest hot gas defrost available. The design assures maximum pan heat in minimum time.
- Drain pan includes foamed-in-place urethane insulation with a mill galvanized steel cover.
- Interconnecting piping and check valve between the drain pan and coil is factory installed.

Hot Gas Defrost Coil Only

(above $+33^{\circ}\text{F}$ room temperature)

- Hot gas defrost for the coil with an unheated aluminum drain pan.
- Optional foamed-in-place urethane insulation with a mill galvanized steel cover is available.

Water Defrost

(to -20°F room temperature)

- A water distribution pan mounted above each coil section provides full coverage of the entire finned surface. Inlet water temperature should not exceed 60°F . Water pans are removable from the back of the unit. Overall height is increased 5 inches.
- Drain pan is aluminum for long life and furnished with an oversized horizontal drain connection.

Electric Defrost

See page 18.

OPTIONAL FEATURES



Penthouse Arrangement

- Fans are located in a 45 degree down discharge with duct extensions for maximum fan efficiency and even air flow through the coil. Units should have 36 or 42 in. fans and be selected for 1/4 or 1/2 in. static pressure.
- Access doors for inspection and motor removal are included. Extended lubrication lines make service easy.
- Extended legs (up to 24 inch) allow drain lines to run outside the penthouse above roof flashing.
- Optional discharge ducts for field mounting can be provided with turning elbows and discharge louvers.

Fan Discharge

- 45 degree down discharge is available for blast cells with palletized product. This can increase air flow efficiency, improving freezing times.
- Blow through fan arrangements are available for unique cooling applications. Dimensions will not be the same as the standard draw through design. This should not be used in high humidity, low temperature applications.
- Long throw adapters for freezers and coolers: See application guidelines.

Control Panels

- A factory mounted control panel with fused disconnect and fan

motor starters all factory wired is available. This allows for reduced field installation costs since only one electrical connection is required per unit. Panels carry a UL stamp for industrial control panels.

- Enclosures can be NEMA 1, NEMA 12 or NEMA 4.

Motor Control

- Individual motor non-fused disconnect or manual motor starters, factory wired, can be provided as a local disconnect means.

Special Motors

- TEFC, high efficiency or 575/3/60 motors are available.
- Two speed, two winding motors for 1800/1200 rpm or 1200/900 rpm are available.

Dampers

- Motorized, heated dampers located on the face and/or fan discharge close during defrost. This arrangement allows individual coil defrost in high velocity, conveyorized blast freezers. Damper heaters are 208-230/3/60.

Surge Drums

- Surge drums for flooded ammonia feed designed for 250 psig working pressure. Include ASME Stamp and Phillips internal float. Liquid solenoid feed with remote type LL or TDS float is optional.
- When hot gas defrost controls are included—drum is factory fitted with flanges for reassembly in field. Otherwise, drum and

pipng is shipped loose for welding in field. Relief valves are not included.

Accessories include:

1. TEV—Thermostatic expansion valve.
2. LSV—Liquid line solenoid valve and strainer.
3. Hot gas defrost control kits.
4. Control panels for hot gas defrost.

Please specify:

- Quantity and complete model number
- SST—Saturated suction temp
- Room temp
- Fan motor construction and voltage
- Control voltage
- Options and accessories
- Steel mains with copper tube coils
- Sub-cooled liquid—DXF feeds
- Number of drawings for—
“Approval”—Not released for manufacture
“Info”—Manufacture commences with order approval

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

SELECTION

PC SERIES III axial flow propeller coolers are designed for medium temperature coolers, freezers and blast freezers.

- Ratings shown are for liquid recirculated ammonia or halocarbon refrigerants in accordance with ASHRAE and ARI standards.
- Capacity listed is BTUH/°TD with medium frosted coil for sensible heat removal. The unit will absorb both sensible and latent heat from the space if the TD is adequate for the air flow. TD is the temperature difference between the coil saturated suction temperature and the entering air temperature.
- For wet coil rating, variable fin spacing and direct expansion application, see the capacity correction factors listed.
- For wet coil application or for room temperature above 32°F, selection should be limited to coil face velocities less than 650FPM to prevent moisture carryover. *Shaded ratings indicate selections with face velocities under the acceptable limit.*
- Ratings listed show ¼ inch external static pressure (ESP) and ½ inch external static pressure operation. See application guidelines for details.
- Flooded ratings are the same as the recirculated rating.
- Brine refrigerants require factory engineered selection. Provide required capacity, brine type, brine concentration, room temperature, entering brine temperature and GPM for selection.
- For 50 Hz applications, derating may not be required. Contact factory.

CAPACITY CORRECTION FACTORS MULTIPLY RATED CAPACITY BY FACTOR

RATING VARIATION	ROWS DEEP			FACTOR CORRECTS RATING FOR
	6	8	10	
VARIABLE 1.5/3 FIN SPACING	0.85	0.89	0.91	3 FPI
VARIABLE 2/4 FIN SPACING	0.85	0.89	0.91	4 FPI
WET COIL TO 32°F SST	1.12	1.10	1.08	3 or 4 FPI
AMMONIA TEV TO 0°F SST	0.83	0.84	0.85	3 or 4 FPI
HALOCARBON TEV TO -20°F SST	0.83	0.84	0.85	3 or 4 FPI
HALOCARBON TEV TO -30°F SST	0.75	0.75	0.76	3 or 4 FPI
HALOCARBON TEV TO -40°F SST	0.66	0.67	0.68	3 or 4 FPI

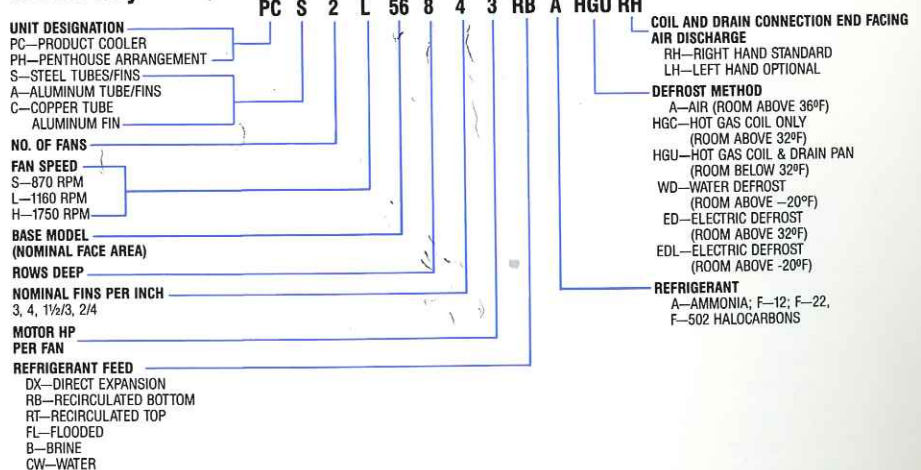
MOTOR DATA

APPROXIMATE FULL LOAD AMPS

MOTOR HP	RPM	208	230	460	575
1½	870	6.8	6.2	3.1	2.5
2	870	9.5	8.6	4.3	3.4
2	1160	7.5	6.8	3.4	2.7
3	1160	10.6	9.6	4.8	3.8
3	1750	9.5	8.6	4.3	3.5
5	1160	15.9	14.4	7.2	5.8
5	1750	15.0	13.6	6.8	5.4
7½	1160	25.0	22.0	11.0	8.8

External Motor Protection is required in all three phases. Overloads should be sized with allowance for 1.15 service factor and cold air density. Multiply nameplate FLA by 1.15 in 0°F, 1.17 in -10°F, and 1.2 in -20°F spaces to correct for air density. A motor's ability to dissipate heat in cold ambients increases at a faster rate than the resultant increase in HP.

Model Key



APPLICATION

REFRIGERANT FEEDS

DX—Direct expansion employ distributors and capillaries to feed each circuit. TEV must be externally equalized. Ammonia TEV feeds are not recommended below 0°F SST or with TD selections less than 12°F. Remove discharge tubes from ammonia TEV. The distributor is orificed. Sub-cooled liquid must be specified as circuits may be reduced for rated performance.

DX-HG—Direct expansion hot gas defrost models utilize a side ported distributor, a by-pass tee between TEV and distributor, or by-pass header for halocarbons. Ammonia requires a by-pass header.

Recirculated Liquid Overfeed Systems usually supply liquid refrigerant at SST. Warmer liquid feeds must be specified. Liquid ammonia must be no more than 30°F above SST.

Recommended Recirc Rates

SST	20	-25	-40
R-717	4 to 1	3 to 1	2.5 to 1
R-12	2 to 1	2 to 1	1.5 to 1
R-502	2 to 1	2 to 1	1.5 to 1
R-22	3 to 1	2.5 to 1	2 to 1

RT—Recirculated top feed is recommended for air, water, or electric defrost. Refrigerant and oil flows downhill to the suction header.

RB—Recirc bottom feed is recommended for hot gas defrost. Hot gas enters the suction thru customer's connection. Condensate and oil flow downhill, back-flowing the liquid feed orifices which restrict gas blow-by. Condensate is relieved thru customer's tee located between coil and balancing valve. Defrost condensate relief devices must be located below the liquid connection.

FL—Flooded feeds utilize surge drums with liquid level control. When close coupled, liquid level in drum should be four inches or more above coil. Gas/liquid separation velocities are based on condenser pressure liquid feed. Smaller vessels can be used when liquid is sub-cooled and when hot gas defrost condensate is relieved to other than the drum. Contact factory for surge drum selections.

Air Throw

For 870 rpm motors, air throw is 80 to 100 ft.

For 1160 rpm motors, air throw is 120 to 140 ft.

Long throw adapters will increase air throw by 30 to 40%. Use ¼ ESP rating with long throw adapters. When throwing down long aisles, air throw will increase substantially.

Blast Freezing

Blast freezing application should use ½ ESP ratings. It is important that adequate space for air flow is available for blast freezing applications. High capacity and high air flows in confined spaces can produce static pressures exceeding the capabilities of the fan. This results in greatly reduced air flow and less than expected capacity.

Unit Location

Locate units away from walls a distance equivalent to the unit height. This distance should be increased if product is stacked to the unit underside. Air discharge should not be blocked by steelwork, product, or lights. Water defrost models require 24 inches clearance for distribution pan removal for cleaning. Since housings are non-insulated, units are to be located in the conditioned space.

Piping—Weight of piping, controls, etc. should be carried by proper pipe supports. Steel suction lines on TEV fed ammonia units should be down sized at the unit and then trapped. The undersized riser should enter the top of a suction header.

Hot Gas Defrost

During hot gas defrost, an evaporator coil can condense at 3 to 4 times its rated cooling capacity. Liquid condensate must be allowed to leave the coil or defrost will be retarded by lack of flow. Defrost condensate relief lines must be connected to the bottom of RT or DX suction lines or traps and to the bottom of RB or FLA liquid lines. Do not back-flow condensate thru hand expansion valves as the orifice will restrict defrost. Defrost relief regulators must be located below the liquid or suction connections. Do not lift refrigerant condensate because defrost of the bottom of the coil will be retarded. When the defrost relief is piped in a fourth pipe to the system inter-cooler or controlled pressure receiver, the defrost relief regulator may require oversizing because its pressure differential is lower. With multiple evaporators, each is provided with a defrost relief check valve and the regulator is in the common header. The regulator and the common defrost relief header must be sized for the maximum number of units being defrosted at one time.

Drain Lines

Each unit must have a trap (heated when necessary) in the water drain line from each unit.

SOUND RATINGS (db "A" SCALE)

NO. OF FANS	870 RPM	1160 RPM	1750 RPM
1	72-75	80-82	93-94
2	73-77	83-85	94-95
3	76-78	86-89	96-98
4	79-82	90-92	97-99

Sound rating is in decibels on the "A" scale measured six feet in front of the unit. Actual sound is dependent upon unit location. Number of units, room size and height and surface "hardness."

SPECIFICATIONS

ONE FAN UNIT

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		¼" ESP		½" ESP		0" ESP		¼" ESP		½" ESP	
		BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM
1L-176	1	6270	10400					5810	10800				
1L-178		7500	10100					7200	10500				
1L-1710		8740	9900					8390	10300				
1L-176	1½	6600	11900	6100	9900			6140	12400	5670	10200		
1L-178		8000	11500	7260	9400			7680	12000	6970	9700		
1L-1710		9160	11200	8250	9100			8800	11600	7920	9400		
1L-176	2	6760	12700	6430	11400			6290	13200	5980	11800		
1L-178		8330	12400	7840	11100			8000	12900	7530	11500		
1L-1710		9570	12000	8990	10900			9190	12500	8630	11100		
1H-176	3	7750	16000	7650	15000	7260	14100	7200	16600	7110	15600	6750	14700
1H-178		9570	15600	9300	14400	8830	13600	9120	16200	8930	14900	8480	14000
1H-1710		10650	15300	10150	14200	9900	13300	9820	15900	9740	14700	9570	13700
1L-216	1½	7400	12200					6880	12600				
1L-218		9000	11800					8550	12100				
1L-2110		10400	11600					9570	11900				
1L-216	2	7600	12800	7100	11100			7060	13200	6600	11400		
1L-218		9700	12600	8500	10900			9030	13000	8080	11200		
1L-2110		10800	12400	9900	10700			9940	12800	9110	11000		
1H-216	3	8600	16200	8300	15000	8000	14000	8000	16700	7710	15500	7440	14400
1H-218		10700	15800	10200	14800	9800	13800	10160	16300	9690	15200	9300	14200
1H-2110		12100	15400	11800	14600	11300	13600	11130	15800	10860	15000	10400	14000
1S-226	1½	8140	13500					7370	13700				
1S-228		9680	12900					9020	13100				
1S-2210		11220	12600					10670	12900				
1L-226	2	8910	16200	8250	13900			8140	16500	7510	14200		
1L-228		10780	15800	10000	13500			10120	16100	9400	13800		
1L-2210		12430	15600	11440	13100			11810	15900	10870	13400		
1L-226	3	9350	16800	8590	15300	8140	13500	8510	16900	7810	15600	7400	13800
1L-228		11330	16400	10560	14800	9790	13100	10650	16600	9920	15100	9150	13400
1L-2210		12980	16200	12100	14600	11330	12800	12330	16400	11490	14900	10760	13100
1L-226	5	10120	20600	9680	18600	9130	16400	9210	21000	8810	18900	8310	16700
1L-228		12540	20000	11770	17900	11000	15900	11780	20400	11000	18200	10280	16400
1L-2210		14080	19600	13420	17500	12650	15700	13380	19700	12750	17800	12000	16100
1S-246	1½	8640	13700					7860	14000				
1S-248		10200	13300					9540	13600				
1S-2410		11640	12900					11060	13200				
1L-246	2	9360	16300	8710	14200			8520	16600	7970	14500		
1L-248		11400	16000	10440	13800			10660	16300	9760	14100		
1L-2410		13200	15800	12000	13600			12540	16100	11400	13900		

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
176	6				1700	1000	800	1.6	1187	1467	16	
178	8	20	16.5	1-30	1900	1150	950	2.1	1582	1958	20	81 x 50
1710	10				2400	1300	1050	2.6	1978	2448	24	
216	6				1850	1100	900	1.9	1439	1780	18	
218	8	20	20.0	1-30	2150	1250	1050	2.5	1918	2374	24	93 x 50
2110	10				2700	1400	1200	3.2	2398	2968	28	
226	6				2000	1200	950	2.1	1583	1958	22	
228	8	22	22.0	1-36	2400	1350	1100	2.8	2110	2611	26	93 x 54
2210	10				3000	1500	1350	3.5	2638	3265	30	
246	6				2200	1250	1150	2.3	1727	2136	24	
248	8	24	24.0	1-36	2600	1400	1300	3.0	2302	2849	28	93 x 58
2410	10				3200	1600	1450	3.8	2878	3562	34	

**ONE
FAN
UNIT**

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		1/4" ESP		1/2" ESP		0" ESP		1/4" ESP		1/2" ESP	
		BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM
1L-246	3	9480	17000	9120	15400	8640	13700	8630	17300	8300	15700	7800	14000
1L-248		11640	16600	11040	15200	10320	13400	10880	16900	10320	15500	9650	13700
1L-2410		13440	16300	12720	14800	11760	13000	12760	16600	12080	15100	11110	13300
1L-246	5	10680	20800	10080	19000	9500	17100	9720	21200	9170	19400	8630	17300
1L-248		13080	20100	12360	18300	11760	16700	12230	20500	11560	18700	11000	17000
1L-2410		14880	19700	14160	17800	13440	16300	14130	19900	13450	18200	12760	16600
1S-286	1 1/2	9980	15900					8940	16400				
1S-288		11880	15400					10990	16200				
1S-2810		13630	15000					12950	15700				
1S-286	2	10680	18500	10120	16500			9660	19300	9140	16500		
1S-288		13070	18000	12100	16000			12090	18900	11190	16300		
1S-2810		15000	17600	13910	15700			14250	18500	13210	15900		
1L-286	3	10960	19000	10410	17300	10100	16000	9920	19900	9420	18000	9140	16500
1L-288		13350	18600	12640	17000	12000	15500	12350	19600	11690	17600	11100	16200
1L-2810		15460	18300	14610	16600	13860	15200	14680	19300	13880	17400	13170	15800
1L-286	5	12500	24500	11940	22700	11480	21100	11310	25200	10810	23400	10390	22300
1L-288		15450	23900	14750	22500	14100	20800	14290	24700	13610	22800	13040	21600
1L-2810		17420	23400	17000	22200	16240	20500	16550	24400	16150	22300	15430	21400
1L-286	7 1/2	14280	29400	13350	27800	12600	25700	13000	30000	12080	28600	11400	26300
1L-288		17220	28000	16440	26800	15680	24900	16100	28600	15210	27700	14500	25400
1L-2810		19320	26900	18690	26000	17640	24000	18350	27500	17750	26880	16760	24900
1S-316	2	11100	18800					10000	19700				
1S-318		13650	18100					12620	19100				
1S-3110		15600	17800					14820	18800				
1L-316	3	11250	19200	10800	17600	10350	16100	10180	19900	9770	18000	9370	16800
1L-318		13800	18800	13000	17200	12300	15600	12770	19600	12020	17800	11380	16400
1L-3110		16000	18500	15000	16900	14700	15300	15200	19400	14250	17500	13970	16000
1L-316	5	12900	24700	12450	23000	11850	21400	11670	25800	11270	24000	10720	22500
1L-318		15900	24200	15300	22600	14700	20900	14710	25200	14150	23500	13600	22000
1L-3110		18300	23500	17550	22300	16800	20600	17390	24800	16670	23200	15960	21700
1L-316	7 1/2	14550	30400	13950	27900	13500	26400	13170	31600	12620	29400	12220	27700
1L-318		18000	29400	17250	27300	16350	25400	16650	30700	15960	28700	15120	26600
1L-3110		20400	28700	19650	26800	18600	24600	19380	30200	18670	28100	17670	25800
1L-326	5	13440	24900	12960	23700	12640	21700	12160	25900	11730	24800	11440	22600
1L-328		16320	24400	15680	22900	15000	21200	15100	25400	14500	24000	13870	22200
1L-3210		18880	24100	18240	22500	17440	20900	17940	25100	17330	23600	16570	21900
1L-326	7 1/2	15000	30900	14560	29200	13920	26800	13580	32300	13180	30500	12500	28000
1L-328		18720	30100	17920	28200	16960	25900	17320	31500	17320	29500	15690	27000
1L-3210		21280	29500	20320	27500	19360	25400	20210	30800	19300	28900	18390	26600

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
286	6				2400	1400	1300	2.7	2014	2492	28	
288	8	28	28.0	1-42	2900	1650	1450	3.6	2685	3324	34	93 x 67
2810	10				3700	1800	1600	4.5	3357	4155	38	
316	6				2600	1450	1350	2.9	2158	2670	32	
318	8	30	30.0	1-42	3200	1700	1600	3.9	2877	3561	36	93 x 71
3110	10				3800	1900	1750	4.9	3597	4452	40	
326	6				2700	1550	1400	3.2	2302	2848	34	
328	8	32	32.0	1-42	3500	1750	1600	4.3	3069	3798	38	93 x 75
3210	10				4100	2000	1850	5.4	3837	4749	44	

SPECIFICATIONS

TWO FAN UNIT

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		1/4" ESP		1/2" ESP		0" ESP		1/4" ESP		1/2" ESP	
		BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM
2L-336	1	12540	20800					11620	21600				
2L-338		15000	20200					14400	21000				
2L-3310		17480	19800					16780	20600				
2L-336	1 1/2	13200	23800	12200	19800			12280	24800	11340	20400		
2L-338		16000	23000	14520	18800			15720	24000	13940	19400		
2L-3310		18320	22400	16500	18200			17600	23200	15840	18800		
2L-336	2	13520	25400	12860	22800			12580	26400	11960	23600		
2L-338		16660	24800	15680	22200			16000	25800	15060	23000		
2L-3310		19140	24000	17980	21800			18380	25000	17260	22200		
2H-336	3	15500	32000	15300	30000	14520	28200	14400	33200	14220	31200	13500	29400
2H-338		19140	31200	18600	28800	17660	27200	18240	32400	17860	29800	16960	28000
2H-3310		21300	30600	20300	28400	19800	26660	19640	31800	19480	29400	19140	27400
2S-366	1	13650	22500					12700	23100				
2S-368		16380	21500					15720	22100				
2S-3610		18750	20900					18000	21500				
2L-366	2	15840	30200	14760	26200			14730	31000	13730	27000		
2L-368		19260	28800	17820	25200			18300	29600	16930	26000		
2L-3610		21960	27700	20340	24500			20860	28500	19320	25200		
2L-366	3	16380	32600	15470	28800	14560	25400	15230	33900	14390	29900	13540	26400
2L-368		20000	31500	18930	27700	17470	24400	19200	32700	18170	28800	16770	25300
2L-3610		22570	30400	21480	26900	20000	23600	21660	31600	20620	28000	19200	24500
2H-366	5			17290	35300	16920	33700			16080	36700	15730	35000
2H-368				21480	34200	20930	32900			20620	35500	20100	34200
2H-3610				24570	33500	23840	32200			23580	34800	22880	33500
2S-406	1	14290	22600					13290	23200				
2S-408		17070	22000					16380	22600				
2S-4010		19650	21600					18860	22200				
2L-406	2	16800	31400	15800	27400			15620	32300	14690	28200		
2L-408		20600	30200	19200	26400			19780	31100	18430	27200		
2L-4010		23600	29200	22000	25800			22660	30000	21120	26600		
2L-406	3	17270	33200	16280	29400	15480	26200	16060	34500	15140	30500	14400	27200
2L-408		21400	32200	20000	28600	18660	25400	20160	33900	19200	29700	17910	26400
2L-4010		24200	31400	22830	27800	21440	24600	23000	32600	21910	28900	20580	25500
2H-406	5	18660	38800	18260	35700	17860	34500	17350	40300	16980	37100	16610	35800
2H-408		23420	38300	22630	35100	22000	33500	22480	39800	21720	36500	21120	34800
2H-4010		27600	37100	25800	34500	25210	32900	26490	38500	24760	35900	24200	34200
2L-416	1 1/2	14800	24400					13760	25200				
2L-418		18000	23600					17100	24200				
2L-4110		20800	23200					19140	23800				
2L-416	2	15200	25600	14200	27200			14120	26400	13200	22800		
2L-418		19400	25200	17000	21800			18060	26000	16160	22400		
2L-4110		21600	24800	19800	21400			19880	25600	18220	27000		
2H-416	3	17200	32400	16600	30000	16000	28000	16000	33400	15420	31100	14880	28800
2H-418		21400	31600	20400	29600	19600	27600	20320	32600	19380	30400	18600	28400
2H-4110		24200	30800	23600	29200	22600	27200	22260	31600	21720	30000	20800	28000

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER.

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
336	6				3300	1900	1600	3.2	2374	2938	32	
338	8	20	33.0	2-30	3700	2200	1800	4.2	3164	3916	40	137 x 51
3310	10				5200	2500	2000	5.2	3956	4896	48	
366	6				3400	2100	1800	3.4	2618	3241	36	
368	8	22	36.4	2-36	4000	2500	2000	4.6	3491	4321	44	137 x 55
3610	10				5500	2700	2200	5.8	4364	5402	52	
406	6				3800	2300	2000	3.8	2848	3525	40	
408	8	24	39.6	2-36	4300	2600	2200	5.0	3798	4701	48	137 x 59
4010	10				5600	2800	2400	6.2	4748	5877	56	
416	6				3850	2350	2050	4.0	2878	3560	40	
418	8	20	40.0	2-30	4500	2650	2300	5.3	3836	4748	48	161 x 51
4110	10				5700	3000	2500	6.6	4796	5936	56	

**TWO
FAN
UNIT**

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		1/4" ESP		1/2" ESP		0" ESP		1/4" ESP		1/2" ESP	
		BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM	BTUH/ °TD	CFM
2S-446	1 1/2	16280	27000					14740	27400				
2S-448		19360	25800					18040	26200				
2S-4410		22400	25200					21340	25800				
2L-446	2	17820	32400	16500	27800			16280	33000	15020	28400		
2L-448		21560	31600	20000	27000			20240	32200	18800	27600		
2L-4410		24860	31200	22880	26200			23620	31800	21740	26800		
2L-446	3	18700	33600	17180	30600	16280	27000	17020	33800	15620	31200	14800	27600
2L-448		22600	32800	21120	29600	19580	26200	21300	33400	19840	30200	18300	26800
2L-4410		25960	32200	24200	29200	22660	25600	24660	32800	22980	29800	21520	26200
2L-446	5	20240	41200	19360	37200	18260	32100	18420	42000	17620	37800	16620	33400
2L-448		25080	40000	23540	35800	22000	31800	23560	40800	22000	36400	20560	32800
2L-4410		28160	38600	26840	35000	25300	31400	26760	39400	25500	35600	24000	32200
2S-466	1 1/2	17480	29000					16250	30400				
2S-468		20920	27800					20100	29200				
2S-4610		23920	27200					22960	28400				
2S-466	2	19080	35000	17480	29800			17700	36400	16350	31000		
2S-468		23220	34200	21400	29000			22200	35400	20540	30200		
2S-4610		26680	33800	24380	28000			25620	35000	23400	29200		
2L-466	3	19320	36600	18860	33600	17720	30600	17970	37800	17540	34800	16480	31800
2L-468		23920	35800	22760	32800	21400	29800	22960	36800	21840	34200	20540	31000
2L-4610		27140	34800	26220	32400	24600	29200	26050	35800	25180	33600	23620	30400
2L-466	5	22000	45000	21620	43600	20700	39600	20460	46800	20110	45400	19250	41200
2L-468		27600	44000	26220	41800	25300	38200	26500	45800	25180	43400	24280	39800
2L-4610		31060	42800	29900	40800	28660	37200	29820	44400	28700	42400	27510	38600
2S-486	1 1/2	17280	27400					15720	28000				
2S-488		20400	26600					19080	27200				
2S-4810		23280	25800					22120	26400				
2L-486	2	18720	32600	17420	28400			17400	33200	15940	29000		
2L-488		22800	32000	20880	27600			21320	32600	19520	28200		
2L-4810		26400	31600	24000	27200			25080	32200	22800	27800		
2L-486	3	18960	34000	18240	30800	17280	27400	17260	34600	16600	31400	15720	28000
2L-488		23280	33200	22080	30400	20640	26800	21760	33800	20640	31000	19300	27400
2L-4810		26880	32600	25420	29600	23520	26000	25520	33200	24160	30200	22200	26600
2L-486	5	21360	41600	20160	38000	19000	34200	19440	42400	18340	38800	17260	34600
2L-488		26160	40200	24720	36600	23520	33400	24460	41000	23120	37400	22000	34000
2L-4810		29760	39000	28320	35600	26880	32600	28260	39800	26900	36400	25500	33200
2S-516	1 1/2	18360	29800					17080	31000				
2S-518		22000	28800					20720	30000				
2S-5110		25300	28200					24280	29400				
2S-516	2	19840	35200	18600	30800			18450	36600	17300	32000		
2S-518		24300	34200	22560	29800			23080	37600	21660	31000		
2S-5110		27780	33400	25800	29200			26660	35800	24760	30400		
2L-516	3	20340	37000	19340	33800	18500	30200	18920	38400	17990	35000	17200	31600
2L-518		24800	36200	23560	33200	22560	29800	23300	37600	22620	34400	21660	31000
2L-5110		28520	35600	27280	32600	25800	29200	27380	37000	26200	33800	24760	30400
2L-516	5	23200	47200	22320	44200	21820	41200	21580	49000	20760	45800	20090	42800
2L-518		28760	46000	27520	43000	26540	37600	27600	47800	26420	44600	24580	41200
2L-5110		32740	45000	32040	42000	30260	38600	31420	46800	30960	43600	28300	40200

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
446	6				3900	2400	2100	4.2	3166	3916	44	161 x 55
448	8	22	44.0	2-36	4700	2700	2400	5.6	4220	5222	52	
4410	10				5900	3100	2600	7.0	5276	6530	60	
466	6				4100	2600	2200	4.4	3324	4113	48	137 x 68
468	8	28	46.2	2-42	5100	2900	2500	5.8	4431	5485	56	
4610	10				6400	3300	2800	7.2	5539	6856	64	
486	6				4200	2600	2400	4.6	3454	4276	48	161 x 59
488	8	24	48.0	2-36	5200	2900	2600	6.0	4604	5698	56	
4810	10				6500	3200	2900	7.6	5756	7124	68	
516	6				4400	2600	2300	4.8	3561	4407	48	137 x 72
518	8	30	49.5	2-42	5400	3100	2700	6.3	4746	5874	60	
5110	10				6700	3500	3000	8.4	5934	7344	70	

SPECIFICATIONS

TWO FAN UNIT

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		¼" ESP		½" ESP		0" ESP		¼" ESP		½" ESP	
		BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM
2S-536	1½	18980	31000					17550	32000				
2S-538		22620	30000					20920	31500				
2S-5310		26000	29200					24700	30000				
2S-536	2	20540	36200	19240	31800			19000	38000	17870	32800		
2S-538		24960	35400	23140	30800			23320	37600	21400	32000		
2S-5310		28860	34600	26520	30000			27420	36200	25200	31200		
2L-536	3	20880	37000	19760	34200	19120	31200	19310	39000	18280	36000	17670	32400
2L-538		25480	36900	24400	33400	23140	30800	23560	38400	22900	35200	21900	32000
2L-5310		29380	35800	28000	32800	26520	30000	27920	37600	26600	34800	25200	31200
2L-536	5	23920	47600	22800	44400	21840	41200	22130	50000	21090	46800	20200	43800
2L-538		29380	46800	28000	43400	27000	40000	27980	48800	25900	45600	25000	42200
2L-5310		33800	45400	32240	42400	30680	38000	32120	47400	30620	44600	29140	40800
2L-536	7½	26260	56000	25740	54000	24400	49400	24290	57000	23810	55200	22570	51800
2L-538		33000	53200	31720	51200	29640	47200	30860	54200	29340	52400	27420	49400
2L-5310		36800	51800	35360	49600	33940	45800	34960	53400	33600	50800	31860	47800
2S-566	1½	19960	31800					17880	32800				
2S-568		23600	30800					21980	32200				
2S-5610		27260	30000					25900	31400				
2S-566	2	21360	37000	20440	33000			19320	38600	18280	33000		
2S-568		26140	36000	24200	32000			24180	37800	22380	32600		
2S-5610		30000	35200	27820	31400			28500	37000	26420	32000		
2L-566	3	21920	38000	20820	34600	20200	32000	19840	39400	18840	36400	18280	33000
2L-568		26700	37200	25280	34000	24000	31000	24700	38800	23380	35200	22200	32400
2L-5610		30920	36600	29220	33200	27720	30400	29360	38400	27760	34600	26340	31600
2L-566	5	25000	49000	23880	45400	22960	42200	22620	50400	21620	47000	20780	44600
2L-568		30900	47800	29500	45000	28000	41600	28580	49400	27200	46400	26080	43200
2L-5610		34840	46800	34000	44400	32480	41000	33100	48800	32300	45800	30860	42800
2L-566	7½	28560	58600	26700	55600	25200	51400	26000	60000	24160	55200	22800	52600
2L-568		34440	56000	32880	53600	31360	49800	32200	57600	30420	54500	29000	50800
2L-5610		38640	53800	37380	52000	35820	48000	36700	55000	35500	53600	33520	49800
2S-616	2	22200	37600					20000	39400				
2S-618		27300	36200					25240	38200				
2S-6110		31200	35600					29640	37600				
2L-616	3	22500	38400	21600	35200	20700	32200	20360	39800	19540	36000	18740	33600
2L-618		27600	37600	26000	34400	24600	31200	25540	39200	24040	35600	22760	32800
2L-6110		32000	37000	30000	33800	28800	30600	30400	38800	28500	35000	27360	32000
2L-616	5	25800	49400	24900	46000	23700	42800	23340	51600	22540	48000	21440	45000
2L-618		31800	48400	30600	45200	29400	41800	29420	50400	28300	47000	27200	44000
2L-6110		36600	47000	35100	44600	33600	41200	34780	49600	33340	46400	31920	43400
2L-616	7½	29110	60800	27900	55800	27000	52800	26340	63200	25240	58800	24440	55400
2L-618		36000	58800	34520	54600	32700	50800	33330	61400	31920	57400	30240	53200
2L-6110		40800	57400	39300	53600	37200	49200	38760	60400	37340	56200	35340	51600
2L-646	5	26880	49800	25920	47400	25280	43400	24320	51800	23460	49600	22880	45200
2L-648		32640	48800	31360	45800	30000	42400	30200	50800	29000	48000	27740	44400
2L-6410		37760	48200	36480	45000	34880	41800	35880	50200	34660	47200	33140	43800
2L-646	7½	30000	61800	29120	58400	27840	53600	27160	64600	26230	61000	25200	56000
2L-648		37440	60200	35840	56400	33920	51800	34640	63000	34640	59000	31380	54000
2L-6410		42560	59000	40600	55000	38720	50800	40420	61600	38600	57800	36780	53200

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
536	6				4700	2800	2400	5.0	3798	4701	56	
538	8	32	52.8	2-42	5700	3300	2800	6.6	5064	6269	64	137 x 76
5310	10				7100	3600	3100	8.2	6330	7837	72	
566	6				4900	2900	2500	5.4	4028	4984	56	
568	8	28	56.0	2-42	6000	3300	2900	7.2	5370	6648	68	161 x 68
5610	10				7400	3800	3300	9.0	6714	8310	80	
616	6				5300	3200	2700	5.8	4316	5340	64	
618	8	30	60.0	2-42	6300	3500	3100	7.8	5754	7122	72	161 x 72
6110	10				7900	3900	3500	9.8	7194	8904	84	
646	6				5400	3100	2900	6.4	4604	5696	68	
648	8	32	64.0	2-42	6700	3600	3300	8.6	6138	7596	76	161 x 76
6410	10				8400	4100	3700	10.8	7674	9498	88	

THREE FAN UNIT

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		1/4" ESP		1/2" ESP		0" ESP		1/4" ESP		1/2" ESP	
		BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM
3L-506	1	18810	31200					17430	32400				
3L-508		22500	30300					21600	31500				
3L-5010		26220	29700					25170	30900				
3L-506	1 1/2	19800	35700	18300	29700			18420	37200	17000	30600		
3L-508		24000	34500	21780	28200			23000	36000	20910	29100		
3L-5010		27480	33600	24750	27300			26400	34800	23760	28200		
3L-506	2	20280	38100	19290	34200			18870	39600	17940	35400		
3L-508		24490	37200	23520	33300			24000	38700	22590	34500		
3L-5010		28710	36000	26970	32700			27570	37500	25890	33300		
3H-506	3	23250	48000	22950	45000	21780	42300	21600	49800	21330	46800	20250	44100
3H-508		28710	46800	27900	43200	26490	40800	27360	48600	26790	44700	25440	42000
3H-5010		31950	45900	30450	42600	29700	39900	29460	47700	29220	44100	28710	41100
3S-556	1	20410	33300					19050	34600				
3S-558		24570	32700					23580	33100				
3S-5510		28120	31200					27000	32200				
3L-556	2	23760	45300	22140	39300			22100	46500	20600	40500		
3L-558		28890	43200	26730	37800			27450	44400	25390	39000		
3L-5510		32940	41500	30510	36700			31290	42700	28980	37800		
3L-556	3	24570	48900	23200	43200	21840	38100	22850	50900	21580	44800	20310	39600
3L-558		30000	47300	28400	41500	26200	36600	28800	49000	27250	43200	25160	37900
3L-5510		33860	45600	32220	40300	30000	35400	32490	47400	30930	42000	28800	36800
3H-556	5			25940	52900	24430	50600			24120	55000	23600	52500
3H-558				32220	51300	31400	49400			30930	53300	30200	51300
3H-5510				36850	50200	35760	48300			35370	52200	34320	50250
3L-586	1 1/2	22200	36000					20640	37800				
3L-588		27000	35400					25650	36300				
3L-5810		31200	34800					28720	35700				
3L-586	2	22800	38400	21300	33300			21180	39600	19800	34200		
3L-588		29100	37800	25500	32700			27090	39000	24240	33600		
3L-5810		32400	37620	29700	32100			29870	38400	27330	33000		
3H-586	3	25800	48600	24900	45000	24000	42000	24000	50100	23910	46500	22320	43200
3H-588		32100	47400	30600	44400	29400	41400	30480	48900	29070	45600	27900	42600
3H-5810		36300	46200	35400	43800	33900	40800	33390	47400	32580	45000	31200	42000
3S-606	1	21430	33900					19940	34800				
3S-608		25600	33000					24570	33900				
3S-6010		29480	32400					28290	33300				
3L-606	2	25200	47100	23700	41100			23430	48400	22030	42300		
3L-608		30900	45300	28800	39600			29670	46600	27650	40800		
3L-6010		35400	43800	33000	38700			33390	45000	31680	39900		
3L-606	3	25900	49800	24420	44100	23220	39300	24090	51700	22710	45700	21600	40800
3L-608		31500	48300	30000	42900	27990	38100	30240	50900	28800	44500	26880	39600
3L-6010		36000	47100	34240	41700	32160	36900	34500	48900	32870	43300	30870	38300
3H-606	5	27990	58200	27390	53500	26790	51800	26030	60400	25470	55600	24910	53700
3H-608		35130	57400	33940	52600	33000	50200	33720	59700	32580	54700	31680	52200
3H-6010		41400	55600	38700	51700	37810	49300	39730	57700	37140	53800	36300	51300

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
506	6				4700	2900	2500	4.8	3561	4407	48	
508	8	20	49.5	3-30	5600	3300	2800	6.3	4746	5874	60	193 x 52
5010	10				6900	3600	3200	8.4	5934	7344	72	
556	6				5000	3100	2600	5.	3928	4863	54	
558	8	22	54.6	3-36	6300	3500	3000	6.9	5237	6484	66	193 x 56
5510	10				7600	3900	3400	8.7	6546	8105	78	
586	6				5200	3150	2650	5.7	4316	5342	60	
588	8	20	60.0	3-30	6400	3700	3050	7.5	5755	7123	72	229 x 52
5810	10				7900	4000	3450	9.3	7194	8904	84	
606	6				5300	3200	2700	5.7	4280	5298	60	
608	8	24	59.5	3-36	6500	3800	3100	7.5	5707	7064	72	193 x 60
6010	10				8000	4100	3500	9.3	7134	8830	84	

SPECIFICATIONS

THREE FAN UNIT

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		¼" ESP		½" ESP		0" ESP		¼" ESP		½" ESP	
		BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM
3S-656	1½	24420	40500					22110	41100				
3S-658		29040	38700					27060	39300				
3S-6510		33660	37800					32000	38700				
3L-656	2	26730	48600	24750	41700			24420	49500	22530	42600		
3L-658		32340	47400	30000	40500			30360	48300	28200	41400		
3L-6510		37290	46800	34320	39300			35430	47700	32610	40200		
3L-656	3	28050	50400	25740	45900	24420	40500	25530	50700	23430	46800	22200	41400
3L-658		33990	49200	31680	44400	29370	39300	31950	50100	29760	45300	27450	40200
3L-6510		38940	48600	36300	43800	33990	38400	36990	49200	34470	44700	32280	39300
3L-656	5	30360	61800	29040	55800	27390	49200	27630	63000	26430	56700	24930	50100
3L-658		37620	60000	35310	53700	33000	47700	35340	61200	33000	54600	30840	49200
3L-6510		42240	57900	40260	52500	37950	47100	40140	59100	38250	53400	36000	48300
3S-706	1½	26220	43500					24380	45600				
3S-708		31380	41700					30150	43800				
3S-7010		35880	40800					34440	42600				
3S-706	2	28620	52500	26220	44700			26550	54600	24530	46500		
3S-708		34830	51300	32100	43500			33300	53100	30810	45300		
3S-7010		40000	50700	36570	42000			38430	52500	35100	43800		
3L-706	3	28980	54900	28290	50400	26580	45900	26960	56700	26310	52200	24720	47700
3L-708		35880	53700	34140	49200	32100	44700	34440	55200	32760	51300	30810	46500
3L-7010		40710	52200	39330	48600	36900	43800	39080	53700	37700	50400	35430	45600
3L-706	5	33000	67500	32430	65400	31050	59400	30690	70200	30160	68100	28880	61800
3L-708		41400	66000	39330	62700	37950	57300	39750	68700	37770	65100	36420	59700
3L-7010		46590	64200	44850	61200	42990	55800	44730	66600	43050	63600	41260	57900
3S-726	1½	25920	41100					23580	42000				
3S-728		30600	39900					28620	40800				
3S-7210		34920	38700					33180	39600				
3L-726	2	28080	48900	25920	42600			25560	49800	23910	43500		
3L-728		34200	48000	31320	41400			31980	48900	29280	42300		
3L-7210		39600	47400	36000	40800			37620	48300	34200	41700		
3L-726	3	28440	51000	27360	46200	25920	41100	25890	51900	24900	47100	23580	42000
3L-728		34920	49800	33120	45600	30690	40200	32640	50700	30960	46500	28950	41100
3L-7210		40320	48900	38160	44400	35280	39000	38280	49800	36240	45300	33330	39900
3L-726	5	32040	62400	30240	57000	28500	51300	29160	63600	27510	58200	25890	51900
3L-728		39240	60300	37080	54900	35280	50100	36690	61500	34680	56100	33000	51000
3L-7210		44640	58500	42480	53400	40320	48900	42390	59700	40350	54600	38280	49800
3S-746	1½	27540	44700					25620	46500				
3S-748		33000	43200					31080	45000				
3S-7410		37950	42000					36420	44100				
3S-746	2	29160	52800	27900	46200			27680	54900	25950	48000		
3S-748		36450	51300	33480	44700			34620	56400	32490	46500		
3S-7410		41670	50100	38700	43800			39990	53700	37140	45600		
3L-746	3	30510	55500	29010	50700	27750	45300	28380	57600	26980	52500	25800	47400
3L-748		37200	54300	35340	49800	33840	44700	34950	56400	33930	51600	32490	46500
3L-7410		42780	53400	40920	48900	38700	43800	41070	55500	39300	50700	37140	45600
3L-746	5	34800	70800	33480	66300	32730	61800	32370	73500	31140	68700	30730	64200
3L-748		43140	69900	41280	64500	39810	59400	41400	71700	39630	66900	36870	61800
3L-7410		49110	67500	48060	63000	45390	57900	47130	70200	46440	65400	42450	60300

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
656	6				5900	3500	2900	6.2	4749	5874	66	
658	8	22	66.0	3-36	7100	4000	3200	8.3	6330	7833	78	229 x 56
6510	10				8900	4500	3700	10.4	7914	9795	90	
706	6				6100	3600	2900	6.7	4985	6170	72	
708	8	28	69.3	3-42	7400	4100	3300	8.8	6647	8227	84	193 x 69
7010	10				9200	4600	3800	10.9	8309	10284	96	
726	6				6200	3800	3000	6.7	5181	6408	72	
728	8	24	72.0	3-36	7600	4200	3400	8.8	6906	8547	84	229 x 60
7210	10				9500	4700	3900	10.9	8634	10686	96	
746	6				6300	3700	3100	7.1	5345	6615	78	
748	8	30	74.3	3-42	7800	4300	3500	9.4	7127	8821	90	193 x 73
7410	10				9700	4800	4000	11.7	8908	11026	102	

THREE FAN UNIT

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		1/4" ESP		1/2" ESP		0" ESP		1/4" ESP		1/2" ESP	
		BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM	BTUH/°D	CFM
3S-796	1 1/2	28470	46500					26330	48000				
3S-798		33930	45000					31380	47200				
3S-7910		39000	43800					37000	45000				
3S-796	2	30810	54300	28860	47700			28500	57000	26800	49200		
3S-798		37400	53100	34710	46200			34980	56400	32100	48000		
3S-7910		43290	51900	39780	45000			41130	54300	37800	46800		
3L-796	3	31320	55500	29640	51300	28680	46800	28960	58500	27420	54000	26500	48600
3L-798		38220	54600	36660	50100	34710	46200	35340	57600	33900	52800	32850	48000
3L-7910		44070	53700	42000	49200	39780	45000	41880	56400	39900	52200	37800	46800
3L-796	5	35880	71400	34200	66600	32760	61800	33200	75000	31640	70200	30300	65700
3L-798		44070	70200	42000	65100	40500	60000	41970	73200	38850	68400	37500	63300
3L-7910		50700	68100	48360	63600	46020	57000	48180	71100	45930	66900	43710	61200
3L-796	7 1/2	39390	84000	38610	81000	36600	74100	36440	85500	35720	82800	33180	77700
3L-798		49500	79800	47580	76800	44460	70800	46290	81300	44000	78600	41130	74100
3L-7910		55200	77700	53040	74400	50910	68700	52440	80100	50400	76200	47790	71700
3S-846	1 1/2	29940	47700					26820	49200				
3S-848		35400	46200					32970	48300				
3S-8410		40890	45000					38850	47100				
3S-846	2	32000	55500	30660	49500			28980	57900	27420	49500		
3S-848		39210	54000	36300	48000			36270	56700	33570	48900		
3S-8410		45000	52800	41730	47100			42750	55500	39630	48000		
3L-846	3	32880	57000	31230	51900	30300	48000	29760	59100	28260	54600	27420	49500
3L-848		40000	55800	37920	51000	36000	46500	37050	58200	35670	52800	33300	48600
3L-8410		46380	55500	43830	49800	41580	45600	44040	57600	41640	51900	39510	47400
3L-846	5	37500	73500	35820	68100	34400	63300	33930	75600	32430	70500	31170	66900
3L-848		46350	71700	44250	67500	42000	62400	42870	74100	40920	69600	39120	64800
3L-8410		52260	70200	51000	66600	48720	61500	49650	73200	48450	68700	46290	64200
3L-846	7 1/2	42840	88200	40000	83400	37800	77100	39000	90000	36240	85800	34200	78900
3L-848		51660	84000	49320	80400	47000	74700	48300	85800	45630	83100	43500	76200
3L-8410		57960	80700	56070	78000	52920	72000	55000	82500	53250	80400	50280	74700
3S-906	2	33300	56400					30000	59100				
3S-908		40950	54300					37860	57300				
3S-9010		46800	53400					44460	56400				
3L-906	3	33780	57600	32400	52800	31000	48300	30540	59100	29310	54000	28110	50400
3L-908		41400	56400	39000	51600	36900	46800	38310	58800	36060	53460	34140	49200
3L-9010		48000	55500	45000	50700	44100	45900	45600	58200	42750	52500	41010	48000
3L-906	5	38700	74100	37350	69000	35500	64200	35010	77400	33810	72000	32160	67500
3L-908		47700	72600	45900	67800	44100	62700	44130	75600	42450	70500	40800	66000
3L-9010		54900	70600	52650	66900	50400	61800	52170	74400	50000	69600	47880	65100
3L-906	7 1/2	43650	91200	41850	83700	40500	79200	39510	94800	37860	88200	36660	83100
3L-908		54000	88200	51750	81900	49000	76200	49950	92100	47880	86100	45360	79800
3L-9010		61200	86100	58950	80400	55800	73800	58140	90600	56000	84300	53000	77400
3L-966	5	40820	74700	38800	69300	37920	65100	36480	77700	35190	74400	34320	67800
3L-968		48960	73200	47000	68100	45000	63600	45300	76200	43500	72000	41610	66600
3L-9610		56440	72300	54720	67500	52320	62700	53820	75300	51990	70800	49710	65700
3L-966	7 1/2	45000	92700	43180	87600	41760	80400	40740	96900	39540	91500	37800	84000
3L-968		56160	90300	53760	84600	50880	77700	51960	94500	51960	88500	47070	81000
3L-9610		63840	88500	60960	82500	58080	76200	60630	92400	57900	86700	55170	71800

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM	3FPI	4FPI			
796	6				6800	4000	3200	7.5	5698	7052	84	
798	8	32	79.2	3-42	8300	4700	3700	9.9	7597	9402	96	193 x 77
7910	10				10500	5100	4400	12.3	9496	11753	108	
846	6				7300	4300	3300	7.9	6042	7476	84	
848	8	28	84.0	3-42	8900	4900	3900	10.6	8055	9972	102	228 x 69
8410	10				11000	5500	4600	13.2	10071	12465	114	
906	6				7600	4400	3500	8.5	6474	8010	96	
908	8	30	90.0	3-42	9400	5100	4100	11.5	8631	10683	108	228 x 73
9010	10				11700	5700	4800	14.4	10791	13356	120	
966	6				8000	4500	3700	9.4	6906	8544	102	
968	8	32	96.0	3-42	9800	5650	4300	12.6	9207	11394	114	228 x 77
9610	10				12300	6000	5000	15.9	11511	14247	132	

SPECIFICATIONS

FOUR FAN UNIT

MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		1/4" ESP		1/2" ESP		0" ESP		1/4" ESP		1/2" ESP	
		BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM
4L-686	1	25650	42000					23720	43600				
4L-688		30780	41000					29550	42000				
4L-6810		35570	40000					34190	41600				
4L-686	1 1/2	26670	47900					24670	49800				
4L-688		32820	46400					31500	48000				
4L-6810		37620	45400					36110	46800				
4L-686	2	28000	51400	26000	46200			25900	53900	24050	46200		
4L-688		34200	50000	32100	45500			32800	52000	30820	45500		
4L-6810		39000	49300	36940	44800			37700	51300	35460	44800		
4H-686	3	31460	64000	30440	60200	29410	57000	29100	66500	28160	62600	26950	59300
4H-688		39000	62600	37620	58800	36520	55200	37440	65100	36110	61100	35000	57400
4H-6810		44460	61200	42750	57440	41380	53800	42680	63600	41000	59700	39700	55900
4S-756	1	27860	45200					25770	46500				
4S-758		33500	43600					32160	44900				
4S-7510		38400	42500					36860	43700				
4L-756	2	32380	62000	30120	54200			30370	63800	27860	56300		
4L-758		39160	59700	36140	51900			37590	61400	34690	53900		
4L-7510		44430	58200	41410	50700			42650	59900	39750	52700		
4L-756	3	33130	65800	31620	59600			30650	68400	29250	61900		
4L-758		40660	63500	38780	57700			39000	66000	37120	60000		
4L-7510		46310	61200	43670	55800			44450	63600	42000	58000		
4H-756	5	36520	76000	35770	71800	34640	69100	33780	79000	33090	74600	32000	71800
4H-758		44800	74800	44000	69900	42920	67500	43000	77800	42240	72600	41200	70200
4H-7510		51200	73600	50100	68400	48950	66400	49150	76500	48100	71100	46990	69000
4S-826	1 1/2	31160	51600					28820	52600				
4S-828		37310	49200					34880	50200				
4S-8210		42640	47500					40900	49500				
4L-826	2	34030	62500	30750	50800			31130	63500	28140	51800		
4L-828		41410	60500	37310	49200			38720	61500	34880	50200		
4L-8210		47560	59200	43050	48400			45180	60200	40500	48900		
4L-826	3	36850	66800	33120	59600	30750	50800	31890	67100	30300	60600	28140	51800
4L-828		42640	64100	40180	57600	37310	49200	39870	65400	37570	58600	34880	50200
4L-8210		48790	62500	46740	56300	43050	48400	46350	63800	44400	57300	40500	48900
4L-826	5	38540	79300	36900	72600	34400	63100	35260	80600	33760	73900	31340	65600
4L-828		47560	76900	45100	69300	41820	60700	44470	78200	42170	70600	39100	63100
4L-8210		54120	74400	51250	67700	47560	59200	51410	75700	48690	69000	45180	61600

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
686	6				6200	3900	3400	6.5	4928	6099	64	
688	8	20	68.5	4-30	7600	4400	3800	8.5	6570	8132	80	257 x 53
6810	10				9300	4900	4300	10.5	8231	10165	96	
756	6				7000	4300	3600	7.0	5417	6704	74	
758	8	22	75.3	4-36	8400	4800	4000	9.4	7223	8939	90	257 x 57
7510	10				10400	5400	4500	11.8	9028	11174	106	
826	6				7400	4450	3700	7.6	5896	7298	80	
828	8	24	82.1	4-36	8900	5050	4300	10.0	7864	9733	96	257 x 61
8210	10				11100	5700	5000	12.8	9832	12169	112	

FOUR FAN UNIT

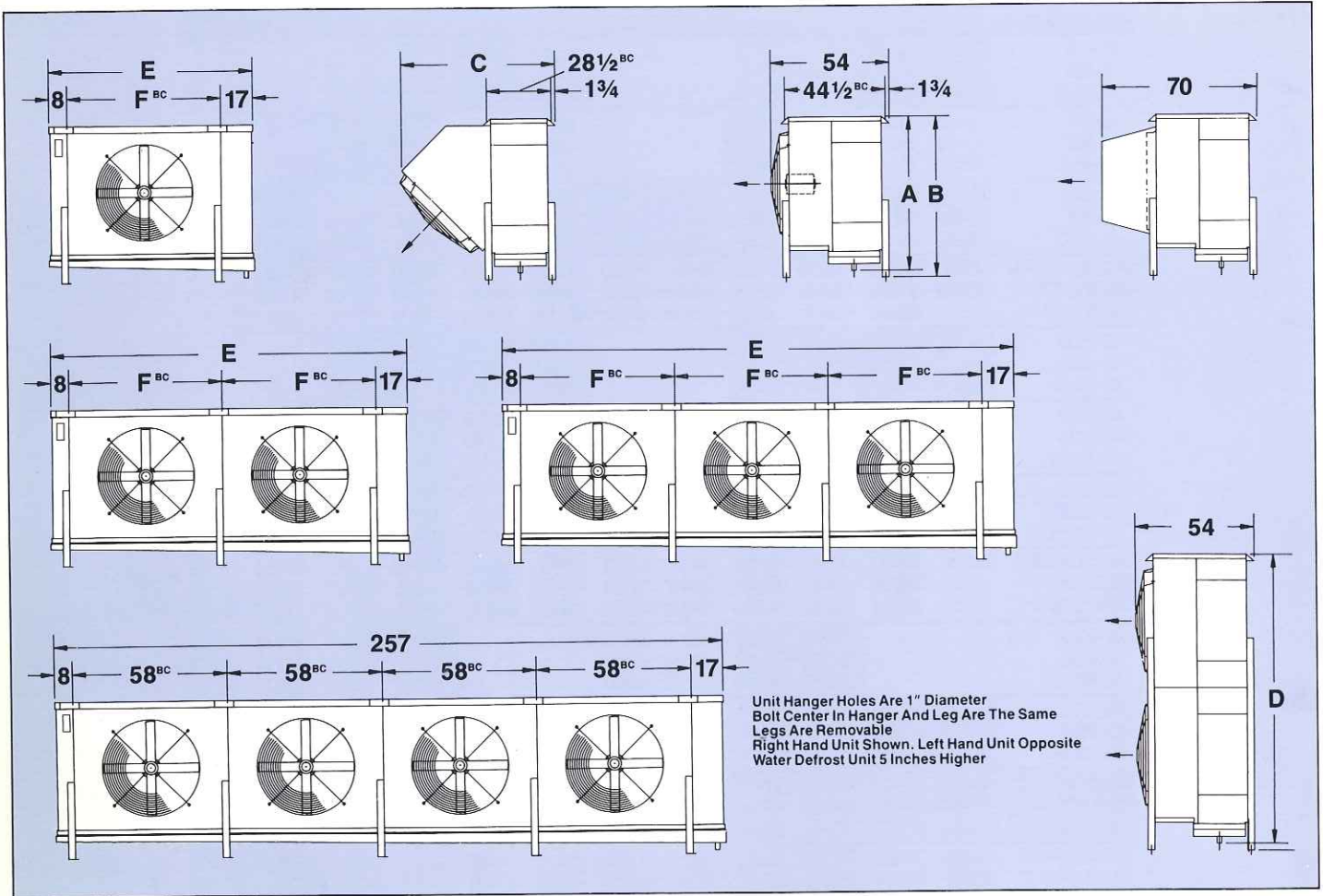
MODEL	HP EACH	4 FINS/INCH						3 FINS/INCH					
		0" ESP		¼" ESP		½" ESP		0" ESP		¼" ESP		½" ESP	
		BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM	BTUH/°TD	CFM
4S-956	1½	34560	57000					31280	59000				
4S-958		41280	55000					38180	58100				
4S-9510		47000	53330					45600	57500				
4S-956	2	38800	71000	36480	62600			35110	74400	33000	65100		
4S-958		47520	69100	44160	60700			43960	72400	40850	63500		
4S-9510		54720	67800	50880	59200			51980	71500	48340	62200		
4L-956	3	39840	73800	37920	67500	36480	62600	36050	77300	34320	71000	33000	65100
4L-958		47960	71900	46560	66000	44160	60700	45290	75400	43070	69500	40850	63500
4L-9510		55680	70400	53760	65100	51360	59700	52900	76800	51070	68500	48790	62600
4L-956	5	45600	93800	44160	87500	42240	81600	41270	97200	40000	92000	38230	85600
4L-958		56640	91000	54240	85600	51840	79800	52390	94900	50170	89100	47950	83700
4L-9510		64320	89100	61440	83200	59000	77800	61100	93000	58370	87100	56050	82700
4S-1036	1½	37480	60600					34670	61800				
4S-1038		45190	58500					43380	59600				
4S-10310		51350	56400					49290	57500				
4S-1036	2	40000	71900	38000	63400			37000	74700	35150	65900		
4S-1038		49300	70900	45700	61600			47300	73700	43870	64000		
4S-10310		57000	69800	52380	60000			54720	72600	50280	62400		
4L-1036	3	41100	74700	39540	68600			38000	77600	36570	71300		
4L-1038		50840	72900	48270	67000			48800	75800	46330	69700		
4L-10310		58540	71800	55400	66000			56190	74600	53240	68600		
4L-1036	5	47240	94800	46210	89500	44160	82100	43700	98500	42750	93000	40850	85300
4L-1038		58540	92700	56480	87300	53400	79400	56190	96400	54220	90700	51260	82500
4L-10310		66760	90600	64190	84700	61620	78900	64080	94200	61620	88000	59150	82000
4L-1036	7½			51350	104800	48270	97600			47500	108900	44650	101500
4L-1038				62130	101200	59560	93500			59640	105200	57110	97200
4L-10310				70860	97600	67270	90400			68020	101500	64570	94000
4S-1106	1½	38910	63100					35210	66200				
4S-1108		47130	60900					43600	63900				
4S-11010		53700	59300					51000	62200				
4S-1106	2	42740	73200	39600	64800			38680	76800	35840	67800		
4S-1108		51510	71500	47850	63100			47650	75100	44260	66100		
4S-11010		59180	70400	55000	60900			56220	74000	52250	63900		
4L-1106	3	43330	75400	41250	69200	39600	64800	39210	79600	37330	70600	35840	66800
4L-1108		52600	73700	50600	68000	47300	62000	48650	77400	46800	69300	43750	65600
4L-11010		60280	72600	58300	67000	55000	60900	57270	76300	55390	68300	52250	63900
4L-1106	5	49320	97200	47300	90600	45650	84400	44630	102000	42800	95300	41310	88600
4L-1108		60280	94400	58300	88400	56100	82100	55760	97300	53930	93100	51900	86300
4L-11010		69050	91700	67100	87300	64350	81100	65600	96400	63750	92000	61130	85200
4L-1106	7½	55500	116000	53900	109000	50600	99700	50220	120000	48780	116000	45790	106000
4L-1108		68200	109000	64900	103600	61600	95800	63100	112000	60000	110000	56980	101000
4L-11010		77000	106700	74250	100800	70400	92600	73150	110000	70540	107700	66880	99000

SHADED RATINGS FOR ROOM TEMPERATURE ABOVE +32°F TO PREVENT MOISTURE CARRYOVER

PHYSICAL DATA												
BASE MODEL	ROWS DEEP	TUBES HIGH	FACE AREA (SQ FT)	FANS NO-DIA	APPROX WEIGHT (lbs)			COIL VOL (CU FT)	TOTAL SURFACE (SQ FT)		WATER DEFROST (GPM)	DIMENSIONS LENGTH x HEIGHT (IN)
					STEEL	CU/AL	ALUM		3FPI	4FPI		
956	6				8500	4900	4000	9.0	6830	8455	96	
958	8	28	95.9	4-42	10300	5600	4700	12.1	9110	11276	112	257 x 70
9510	10				12800	6300	5400	15.0	11390	14098	128	
1036	6				8900	5300	4200	9.8	7388	9144	104	
1038	8	30	102.7	4-42	10900	6000	5000	13.3	9851	12192	120	257 x 74
10310	10				13500	6800	5700	16.6	12314	15240	136	
1106	6				9500	5450	4400	10.7	7909	9790	112	
1108	8	32	109.5	4-42	11450	6250	5200	14.4	10549	13057	128	257 x 78
11010	10				14000	7100	6000	18.1	13189	16324	144	

DIMENSIONS

STANDARD UNIT

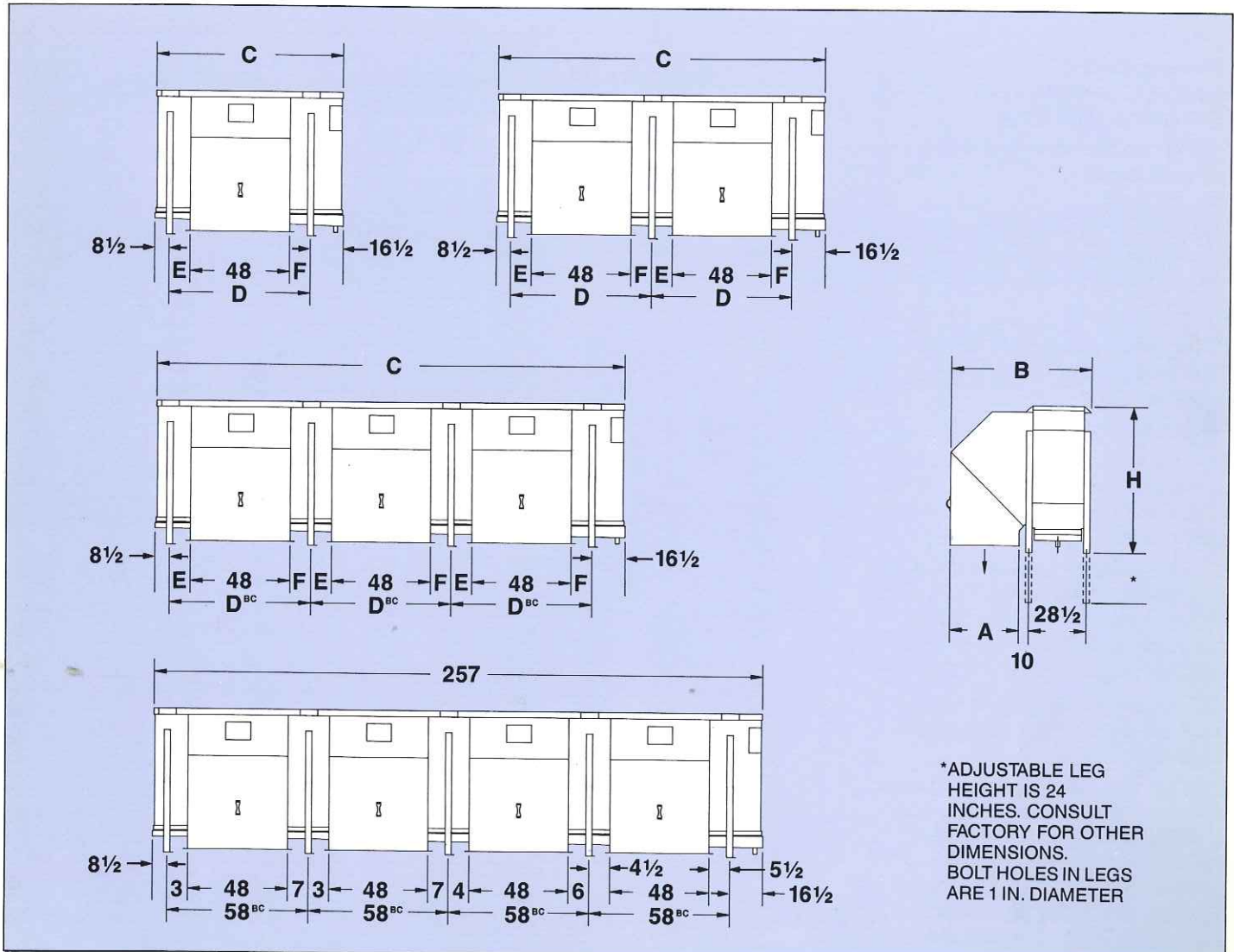


DO NOT USE FOR CONSTRUCTION. USE CERTIFIED PRINTS.

DIMENSIONS-INCHES							
BASE MODEL	NO OF FANS	A	B	C	D	E	F
17	1	50	53	—	95	81	56
21	1	50	53	—	95	93	68
22	1	54	57	67	104	93	68
24	1	58	61	67	112	93	68
28	1	67	70	71	129	93	68
31	1	71	74	71	138	93	68
32	1	75	78	71	145	93	68
33	2	51	53	—	96	137	56
36	2	55	57	67	105	137	56
40	2	59	61	67	113	137	56
41	2	51	53	—	96	161	68
44	2	55	57	67	105	161	68
46	2	68	71	71	130	137	56
48	2	59	61	67	113	161	68
51	2	72	74	71	139	137	56
53	2	76	78	71	147	137	56
56	2	68	70	71	129	161	68
61	2	72	74	71	139	161	68
64	2	75	78	71	147	161	68

DIMENSIONS-INCHES							
BASE MODEL	NO OF FANS	A	B	C	D	E	F
50	3	52	53	—	97	193	56
55	3	56	57	67	106	193	56
58	3	52	53	—	97	229	68
60	3	60	61	67	114	193	56
65	3	56	57	67	160	229	68
70	3	68	69	71	131	193	56
72	3	60	61	67	61	229	68
74	3	73	74	71	136	193	56
79	3	77	78	71	149	193	56
84	3	69	70	71	132	229	68
90	3	73	74	71	140	229	68
96	3	77	78	71	146	229	68
68	4	56	57	67	106	—	—
75	4	57	58	67	114	—	—
82	4	61	62	67	115	—	—
95	4	70	71	71	131	—	—
103	4	73	74	71	140	—	—
110	4	77	78	71	149	—	—

PENTHOUSE ARRANGEMENT



DO NOT USE FOR CONSTRUCTION. USE CERTIFIED PRINTS.

DIMENSIONS-INCHES								
BASE MODEL	NO OF FANS	A	B	C	D	E	F	H
22	1	25	67	93	68	8 1/2	11 1/2	54
24	1	25	67	93	68	8 1/2	11 1/2	58
28	1	29	71	93	68	8 1/2	11 1/2	67
31	1	29	71	93	68	8 1/2	11 1/2	71
32	1	29	71	93	68	8 1/2	11 1/2	75
36	2	25	67	137	56	2 1/2	5 1/2	57
40	2	25	67	137	56	2 1/2	5 1/2	61
44	2	25	67	161	68	8 1/2	11 1/2	57
46	2	29	71	137	56	2 1/2	5 1/2	71
48	2	25	67	161	68	8 1/2	11 1/2	61
51	2	29	71	137	56	2 1/2	5 1/2	74
53	2	29	71	137	56	2 1/2	5 1/2	78
56	2	29	71	161	68	8 1/2	11 1/2	70
61	2	29	71	161	68	8 1/2	11 1/2	74
64	2	29	71	161	68	8 1/2	11 1/2	78

DIMENSIONS-INCHES								
BASE MODEL	NO OF FANS	A	B	C	D	E	F	H
55	3	25	67	193	56	2 1/2	5 1/2	57
60	3	25	67	193	56	2 1/2	5 1/2	61
65	3	25	67	229	68	8 1/2	11 1/2	57
70	3	29	71	193	56	2 1/2	5 1/2	69
72	3	25	67	229	68	8 1/2	11 1/2	61
74	3	29	71	193	56	2 1/2	5 1/2	74
79	3	29	71	193	56	2 1/2	5 1/2	78
84	3	29	71	229	68	8 1/2	11 1/2	70
90	3	29	71	229	68	8 1/2	11 1/2	74
96	3	29	71	229	68	8 1/2	11 1/2	78
75	4	25	67	—	—	—	—	58
82	4	25	67	—	—	—	—	62
95	4	29	71	—	—	—	—	71
103	4	29	71	—	—	—	—	74
110	4	29	71	—	—	—	—	78

ELECTRIC DEFROST

Available models listed are limited to copper tube/aluminum fin or all aluminum coil models.

Tubular heaters inserted thru fin Turbo-Spacers, efficiently defrost the coil from the inside out.

Heaters are wired to a junction box located on the front at the refrigerant connection end of the unit.

When heater ampacity exceeds 48.0 amp, multiple circuits are required.

Heater Access:

On one fan units, heater access is required as shown in the table at the end opposite the refrigerant connections.

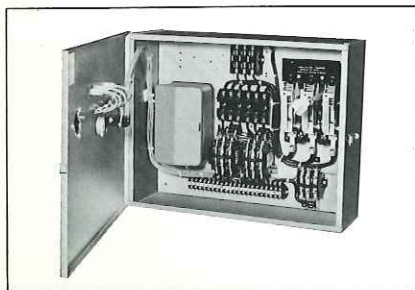
On two and three fan units, access is required as shown on both ends of the units. Eight inches less access is required at the refrigerant connection end of the unit.

ED models, not having drain pan heat, are applied in rooms above freezing.

EDL models have a tubular heater drain pan grid. Pans are foamed-in-place with polyurethane and have a mill galvanized bottom cover. Any designated electric defrost model may be EDL, however, 4 FPI is recommended for low temp. application to minus 20°F.

Temperature termination thermostats automatically terminate defrost and delay fans until the coil has been re-cooled.

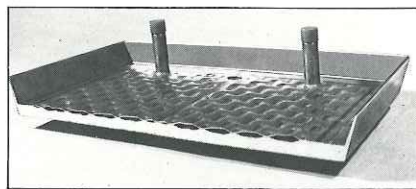
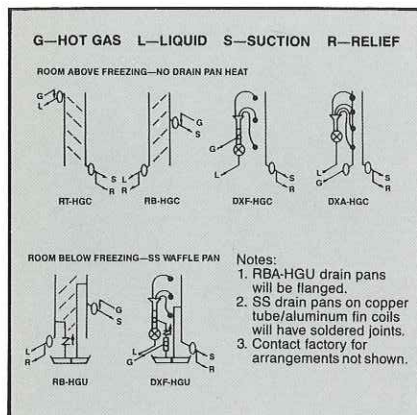
Optional Control Panel



Control panels—Factory wired control panels include main fused disconnect, time clocks, control transformer, fan motor starter(s), defrost heater contactor(s), terminal strips and on-off switch.

BASE MODEL	NO OF FANS	ED KW	ED HEATER AMPS			EDL KW	EDL HEATER AMPS			HEATER ACCESS (IN)
			208	230	460		208	230	460	
176	1	9.0	20.3	22.6	11.3	13.4	30.3	33.7	16.9	44
178		12.0	27.1	30.1	15.1	19.4	44.1	49.0	24.4	
226	1	14.4	32.5	36.1	18.1	19.4	43.9	48.7	24.4	64
228		18.0	40.6	45.0	22.5	24.0	57.3	60.3	30.2	
246	1	14.4	32.5	36.1	18.1	19.4	43.9	48.7	24.4	64
248		18.0	40.6	45.0	22.5	26.6	60.2	66.8	33.4	
286	1	18.0	40.7	45.2	22.6	23.0	52.0	57.8	28.9	64
288		21.6	48.8	54.2	27.1	30.2	68.3	75.9	38.0	
316	1	25.2	57.0	63.3	31.7	30.2	68.3	75.9	38.0	64
318		28.8	65.2	72.4	36.2	37.4	84.6	94.0	47.0	
326	1	25.2	57.0	63.3	31.7	30.2	68.3	75.9	38.0	64
328		28.8	65.2	72.4	36.2	37.4	84.6	94.0	47.0	
336	2	18.0	40.7	45.2	22.6	26.5	60.0	66.6	33.3	52
338		24.0	54.4	60.4	30.2	32.5	73.4	81.6	40.8	
366	2	24.0	54.4	60.4	30.2	32.5	73.4	81.6	40.8	52
368		30.0	67.6	75.0	37.5	38.5	86.4	96.0	48.0	
406	2	24.0	54.4	60.4	30.2	32.5	73.4	81.6	40.8	52
408		30.0	67.6	75.0	37.5	44.5	100.2	111.2	50.0	
446	2	28.8	65.3	72.5	32.8	39.0	88.2	98.0	49.0	64
448		36.0	81.1	90.0	45.0	46.2	104.5	116.1	58.1	
466	2	30.0	67.6	75.0	37.5	38.5	86.4	96.0	48.0	52
468		36.0	81.4	90.4	45.2	50.5	105.7	126.2	63.0	
486	2	28.8	65.3	72.5	32.8	39.0	88.2	98.0	49.0	64
488		36.0	81.1	90.0	45.0	53.4	120.8	134.2	67.1	
506	3	27.0	61.0	67.8	33.9	39.5	89.4	99.3	49.6	80
508		36.0	81.6	90.6	45.3	57.5	130.2	144.2	72.4	
516	2	36.0	81.4	90.4	45.2	44.5	100.7	111.9	55.9	52
518		42.0	95.0	105.6	52.8	56.5	127.8	142.0	71.0	
536	2	36.0	81.4	90.4	45.2	44.5	100.7	111.9	55.9	52
538		42.0	95.0	105.6	52.8	56.5	127.8	142.0	71.0	
556	3	36.0	81.6	90.6	45.3	48.5	109.8	122.0	61.0	80
558		45.0	102.6	114.0	57.0	66.5	N/A	N/A	84.2	
566	2	36.0	81.4	90.4	45.2	46.2	104.5	116.1	58.1	64
568		43.2	97.8	108.5	54.3	60.6	137.1	152.3	76.2	
606	3	36.0	81.6	90.6	45.3	48.5	109.8	122.0	61.0	80
608		45.0	102.6	114.0	57.0	66.5	N/A	N/A	84.2	
616	2	43.2	97.8	108.5	54.3	60.6	137.1	152.3	76.2	64
618		50.4	114.0	126.7	63.4	75.0	N/A	N/A	94.2	
646	2	43.2	97.8	108.5	54.3	60.6	137.1	152.3	76.2	64
648		50.4	114.0	126.7	63.4	75.0	N/A	N/A	94.2	
706	3	45.0	102.6	114.0	57.0	57.5	130.2	144.2	72.4	80
708		54.0	123.0	136.8	68.4	75.5	N/A	N/A	95.6	

HOT GAS DEFROST PIPING ARRANGEMENTS



For rooms below freezing (HGU), a unique hot gas pan is utilized. Two seam welded stainless steel sheets are hydraulically expanded forming a coil-less waffle pattern. Pans are insulated with foamed-in-place urethane between a mill galvanized

cover and the waffle. Pan to coil piping and check valve is included. **CAUTION:** It is recommended that all hot gas defrost systems be arranged so that the hot gas supply header is free from condensed liquid and the cycle includes a coil pump-out period with fans-on prior to opening the hot gas solenoid valve.

CONNECTION DATA

HOT DIP GALVANIZED STEEL COILS—REFRIGERANT CONNECTIONS

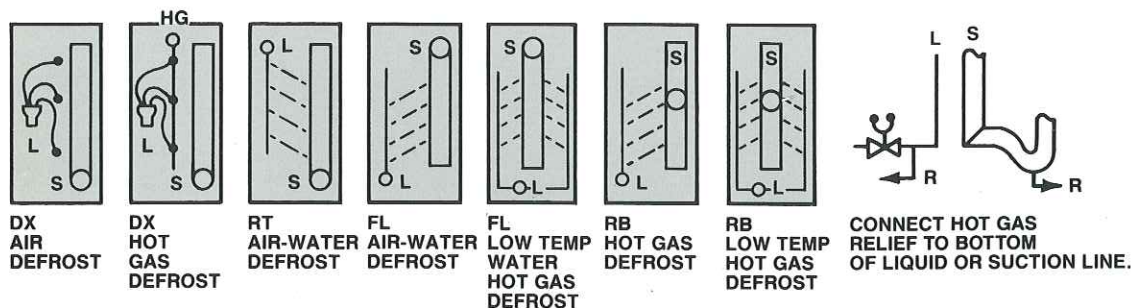
DESIGN CAPACITY TONS	RECIRCULATED R22							DX R717			RECIRCULATED R717							FLOODED R717			
	LIQ FEED	SST °F						LIQ FEED	SST °F		LIQ FEED	SST °F						LIQ LEG	SST °F		
		30	20	-20	-30	-40	30		20	30		20	-20	-30	-40	30	20		-20	-30	
5	3/4	1 1/2	1 1/2	2 1/2	2 1/2	2 1/2	3/4	1	1	3/4	1 1/4	1 1/4	1 1/2	2	2 1/2	1 1/2	2	2	2	2	
10	1	2	2	3	3	4	3/4	1 1/4	1 1/4	3/4	1 1/2	1 1/2	2 1/2	2 1/2	3	2	2	2 1/2	3	3	
15	1 1/4	2 1/2	2 1/2	4	4	4	3/4	1 1/4	1 1/2	1	1 1/2	2	2 1/2	3	3	2 1/2	2 1/2	2 1/2	3	4	
20	1 1/4	2 1/2	3	4	4	4	3/4	1 1/2	1 1/2	1	2	2	3	3	4	3	3	3	4	4	
25	1 1/4	3	3	4	4	5	3/4	1 1/2	2	1	2	2 1/2	3	4	4	3	3	3	4	4	
30	1 1/2	3	3	4	5	5	3/4	2	2	1 1/4	2 1/2	2 1/2	4	4	4	3	3	4	4	4	
35	1 1/2	3	4	5	5	5	3/4	2	2	1 1/4	2 1/2	2 1/2	4	4	5	4	4	4	5	5	
40	2	4	4	5	5	6	—	—	—	1 1/4	2 1/2	2 1/2	4	4	5	4	4	4	5	5	
45	2	4	4	5	6	6	—	—	—	1 1/4	2 1/2	3	4	4	5	4	4	4	5	5	
50	2	4	4	5	6	6	—	—	—	1 1/4	3	3	4	4	5	4	4	4	5	5	
60	2	4	4	5	6	6	—	—	—	1 1/2	3	3	4	5	6	4	4	5	5	6	

COPPER TUBE—ALUMINUM FIN COILS—REFRIGERANT CONNECTIONS

DESIGN CAPACITY TONS	DIRECT EXPANSION R22							DIRECT EXPANSION R502				2 TO 1 RECIRCULATED R22									
	LIQ FEED	SST °F						LIQ FEED	SST °F			LIQ FEED	SST °F								
		30	20	0	-20	-30	0		-20	-30	30		20	-20	-30	-40					
5	5/8	1 1/8	1 1/8	1 1/8	2 1/8	2 1/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	2 1/8	2 1/8	
10	7/8	1 5/8	1 5/8	2 1/8	2 1/8	2 5/8	7/8	2 1/8	2 5/8	2 5/8	1 1/8	2 1/8	2 1/8	2 5/8	2 5/8	1 1/8	2 1/8	2 1/8	2 5/8	3 1/8	3 1/8
15	7/8	2 1/8	2 1/8	2 1/8	2 5/8	3 1/8	1 1/8	2 5/8	3 1/8	3 1/8	1 1/8	2 5/8	2 5/8	3 1/8	3 1/8	1 1/8	2 5/8	2 5/8	3 1/8	4	4
20	1 1/8	2 1/8	2 1/8	2 5/8	3 1/8	(2 5/8)	1 1/8	2 5/8	(2 5/8)	(2 5/8)	1 1/8	2 5/8	(2 5/8)	(2 5/8)	1 1/8	2 5/8	2 5/8	4	4	4	4
25	1 1/8	2 1/8	2 5/8	(2 1/8)	(2 5/8)	(2 5/8)	(1 1/8)	(2 1/8)	(2 5/8)	(3 1/8)	1 1/8	2 5/8	(2 5/8)	(3 1/8)	1 1/8	2 5/8	3 1/8	4	4	4	4
30	1 1/8	2 5/8	2 5/8	(2 1/8)	(2 5/8)	(3 1/8)	(1 1/8)	(2 5/8)	(3 1/8)	(3 1/8)	1 1/8	3 1/8	3 1/8	(3 1/8)	1 1/8	3 1/8	3 1/8	4	4	4	5
35	1 1/8	2 5/8	2 5/8	(2 5/8)	—	—	—	—	—	—	1 1/8	3 1/8	3 1/8	4	5	6	6	6	6	6	6
40	(1 1/8)	(2 1/8)	(2 1/8)	—	—	—	—	—	—	—	1 1/8	3 1/8	3 1/8	4	5	6	6	6	6	6	6
45	(1 1/8)	(2 1/8)	(2 1/8)	—	—	—	—	—	—	—	1 1/8	3 1/8	4	5	6	6	6	6	6	6	6
50	(1 1/8)	(2 1/8)	(2 5/8)	—	—	—	—	—	—	—	2 1/8	4	4	5	6	6	6	6	6	6	6
60	1 3/8	(2 5/8)	(2 5/8)	—	—	—	—	—	—	—	2 1/8	4	4	5	6	6	6	6	6	6	6

END VIEW SHOWING COIL CONNECTION ORIENTATION

L—LIQUID S—SUCTION HG—HOT GAS SUPPLY R—DEFROST RELIEF



NOTES:

1. Refrigerant connection sizes may vary due to actual load, or thermal expansion valve selection.
2. Direct expansion halocarbon suction lines must be designed for oil return regardless of connection size.
3. Halocarbon connections larger than 3 1/8 will be STEEL unless otherwise specified.
4. Halocarbon coils with steel connections smaller than 3 1/8 are available.
5. Do not back-flow thru liquid balancing valves during hot gas defrost cycles. If necessary, a by-pass check valve.
6. Connections are based on recirculated liquid temperature being the same as saturated suction temperature.
7. Connection sizes not listed for direct expansion require special handling. Consult factory.
8. Connection sizes in parenthesis (2 1/8) require two connections of the size shown.



**MANUFACTURERS OF
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PRODUCT COOLERS, CONDENSERS,
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