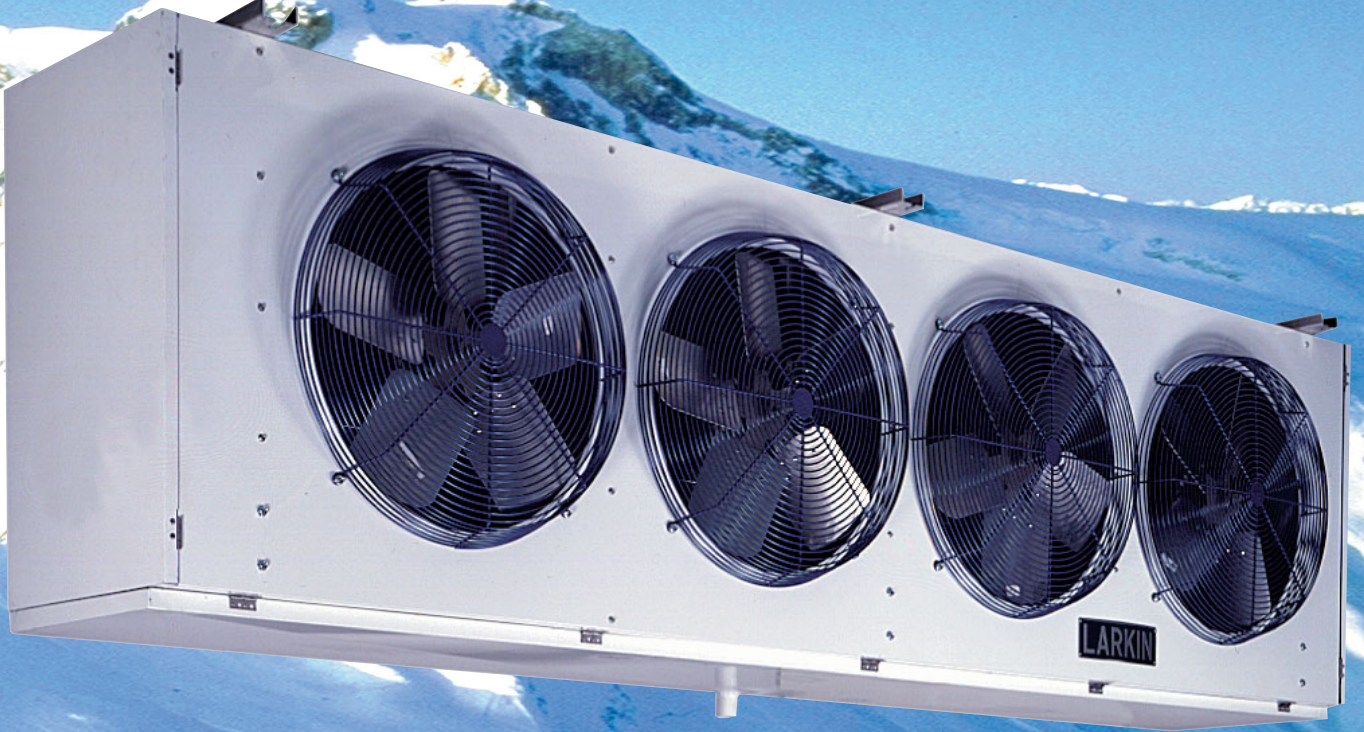




Bulletin LH-02
August 2002
(Replaces LH-98, March 1998)

THINK COLD. THINK LARKIN.



**WAREHOUSE/INDUSTRIAL
UNIT COOLER**

Warehouse/Industrial Unit Coolers

Larkin introduces its latest line of warehouse/industrial unit coolers for warehouse cooler/freezer applications. With a wider capacity range and the patented Thermo-Flex coil design, these warehouse/industrial unit coolers provide efficient, reliable operation. Larkin has designed many features and options into this product line to give you a superior heavy duty evaporator.



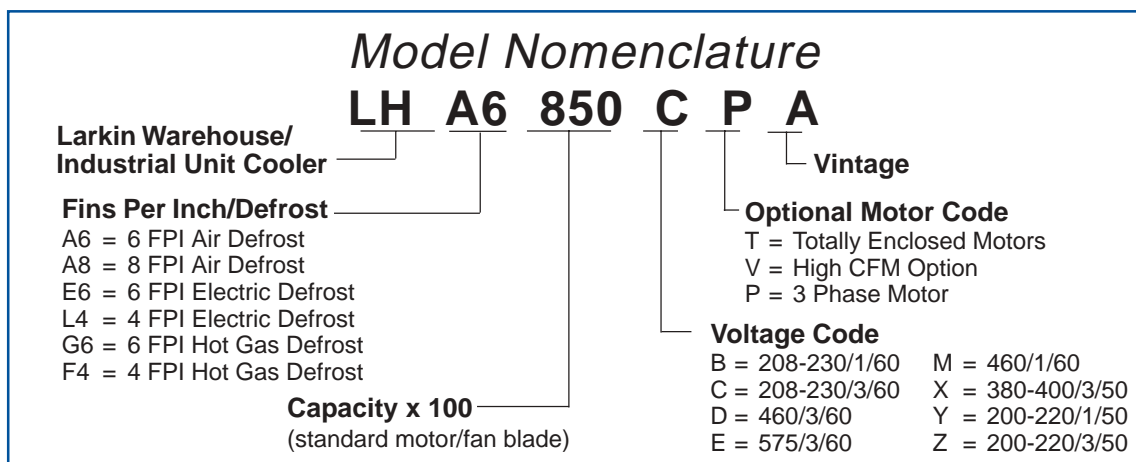
Standard Features

- Aluminum cabinet with bonded white enamel finish for attractive appearance and durability
- Thermoflex (five-year limited warranty) is innovative, eliminates leaks, reduces risk of refrigerant loss
- 850 rpm motors are quiet and reliable
- Liquid line solenoid wiring harness for faster installation
- Suction Schrader fitting for easier suction temperature measurement
- Hinged drain pan and access panels for easy servicing
- Captive fasteners on access panels for easy servicing — no fumbling with loose bolts and nuts
- Adjustable defrost control can be customized per application
- Long air throw is ideal for large warehouse and industrial applications
- Standardized terminal board for easier field wiring
- Complete hot gas defrost model offering meets more applications

Optional Features

- High CFM motor and fan combinations (208-230/3/60 and 460/3/60)
- Totally enclosed motors (208-230/3/60 and 460/3/60)
- Low temperature motors for blast cooling and freezing (-31°F to -50°F)
- Long air throw collars for large warehouse and industrial applications
- More factory mounted features for easier field installation (consult factory)
- Insulated drain pan

Nomenclature

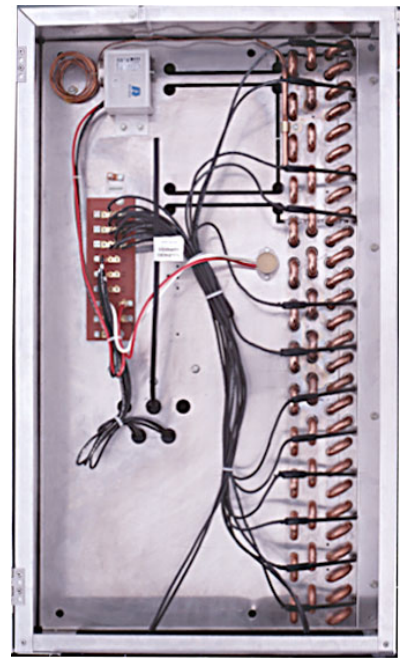


Thermo-Flex™ Coil Design

Larkin's innovative coil design utilizes a new and unique approach to coil expansion that virtually *eliminates* the possibility of leaks at tube sheets and coil supports. Our engineers conceived the design through intense analysis of the cause of common coil failures. Through the use of accelerated test procedures and computer simulation, our engineers pinpointed the primary stress points of a coil during its operation.

The **Thermo-Flex™** coil design for the unit cooler (patent #5,584,340) allows the coil to "flex" during periods of defrost which result in expansion of the coil surface. By eliminating the possibility of wear at critical stress areas, the integrity and longevity of the unit are dramatically increased.

The result is a product which greatly enhances overall system reliability and reduces risk of costly refrigerant loss. **To prove our claim, Larkin offers a five-year limited guarantee against leaks at tube sheets and center supports for all large unit coolers.**

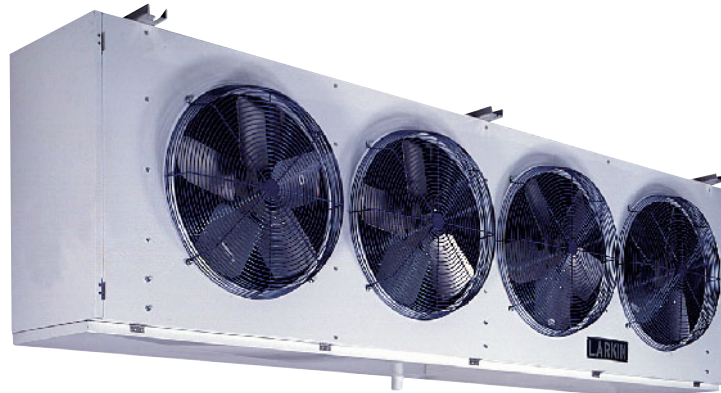


Standard Features

Units ship in upright position for ease of installation.



Hinged access doors on both ends of the unit.



Hinged drain pan for ease of servicing and cleaning.



Electrical panel features solenoid wiring harness and color coded wiring connections on the terminal board.

Air Defrost Capacity & Electrical Data - 60Hz

60 Hz. Data

AIR DEFROST MODEL SIZE	CAPACITY BTUH / watts 10F TD +25F SST	FAN DATA						STANDARD MOTOR DATA							
		CFM / m3h	No.	DIA. In./mm	AIR THROW Ft./m		HP Ea.	Total Amps							
					Std	w/Collar		208-230/1/60		460/1/60		460 /3/60	575 /3/60		
Wired 1 phase	Wired 3 phase	208-230 /3/60	Wired 1 phase	Wired 3 phase											
6 FPI MODELS															
LHA6 520	52000 15200	9000 15300	2	24	610	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8
LHA6 630	63000 18500	9000 15300	2	24	610	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8
LHA6 750	75000 22000	12600 21400	3	24	610	70	85	1/2+	9.6	5.5	7.8	—	3.0	3.9	2.7
LHA6 850	85000 24900	12600 21400	3	24	610	70	85	1/2+	9.6	5.5	7.8	—	3.0	3.9	2.7
LHA6 930	93000 27200	16800 28600	4	24	610	70	85	1/2+	12.8	8.7	10.4	—	4.7	5.2	3.6
LHA6 1100	110000 32200	16800 28600	4	24	610	70	85	1/2+	12.8	8.7	10.4	—	4.7	5.2	3.6
LHA6 1170	117000 34300	20700 35200	3	30	762	100	115	1	—	—	13.8	—	—	6.9	7.8
LHA6 1400	140000 41000	20700 35200	3	30	762	100	115	1	—	—	13.8	—	—	6.9	7.8
LHA6 1610	161000 47200	24300 41300	3	30	762	100	115	1-1/2	—	—	19.8	—	—	9.9	7.8
LHA6 1900	190000 55600	26550 45100	3	30	762	120	140	1-1/2	—	—	21.0	—	—	10.5	8.4
LHA6 2200	220000 64400	30400 51700	4	30	762	120	140	1-1/2	—	—	26.4	—	—	13.2	10.4
LHA6 2440	244000 71500	35400 60200	4	30	762	120	140	1-1/2	—	—	28.0	—	—	14.0	11.2
8 FPI MODELS															
LHA8 2160	216000 63300	25950 44100	3	30	762	120	140	1-1/2	—	—	21.0	—	—	10.5	8.4
LHA8 2500	250000 73200	29600 50300	4	30	762	120	140	1-1/2	—	—	26.4	—	—	13.2	10.4
LHA8 2780	278000 81400	34600 58800	4	30	762	120	140	1-1/2	—	—	28.0	—	—	14.0	11.2

+ 208-230/3/60 and 460/3/60 motors are 3/4 HP.

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Electric Defrost Capacity & Electrical Data - 60Hz.

60 Hz. Data

Electric Defrost Model Size	Capacity BTUH / watts 10°F TD -20°F SST	Fan Data					Standard Motor Data										Defrost Heaters		
		Standard CFM / m ³	No.	Dia. In./mm	Air Throw (Ft / m) Std w/Collar		HP Ea.	Total Amps						Watts	Total Amps				
								208-230/1/60		208-230 /3/60	460/1/60		460 /3/60		575 /3/60	208-23 /3/60	460 /3/60	575 /3/60	
								Wired 1 phase	Wired 3 phase		Wired 1 phase	Wired 3 phase							
6 FPI MODELS																			
LHE6 450	45000 <i>13200</i>	9000 <i>15300</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	9900	27.5	13.9	11.1	
LHE6 550	55000 <i>16100</i>	9000 <i>15300</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	9900	27.5	13.9	11.1	
LHE6 640	64000 <i>18700</i>	12600 <i>21400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	12900	35.8	18.1	14.5	
LHE6 740	74000 <i>21700</i>	12600 <i>21400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	12900	35.8	18.1	14.5	
LHE6 810	81000 <i>23700</i>	16800 <i>28600</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	17050	47.8	24.3	19.1	
LHE6 950	95000 <i>27800</i>	16800 <i>28600</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	17050	47.8	24.3	19.1	
LHE6 1020	102000 <i>29900</i>	20700 <i>35200</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	21400	64.2	32.1	22.8	
LHE6 1200	120000 <i>35100</i>	20700 <i>35200</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	21400	64.2	32.1	22.8	
LHE6 1390	139000 <i>40700</i>	24300 <i>41300</i>	3	30	100	115	1-1/2	—	—	19.8	—	—	9.9	7.8	21400	64.2	32.1	22.8	
LHE6 1650	165000 <i>48300</i>	26550 <i>45100</i>	3	30	120	140	1-1/2	—	—	21.0	—	—	10.5	8.4	33600	87.2	47.5	34.9	
LHE6 2120	212000 <i>62100</i>	35400 <i>60200</i>	4	30	120	140	1-1/2	—	—	28.0	—	—	14.0	11.2	49600	128.4	70.0	56.0	
4 FPI MODELS																			
LHL4 400	40000 <i>11700</i>	9400 <i>16000</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	9900	27.5	13.9	11.1	
LHL4 480	48000 <i>14100</i>	9400 <i>16000</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	9900	27.5	13.9	11.1	
LHL4 560	56000 <i>16400</i>	13200 <i>22400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	12900	35.8	18.1	14.5	
LHL4 650	65000 <i>19000</i>	13200 <i>22400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	12900	35.8	18.1	14.5	
LHL4 710	71000 <i>20800</i>	17600 <i>29900</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	17050	47.8	24.3	19.1	
LHL4 840	84000 <i>24600</i>	17600 <i>29900</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	17050	47.8	24.3	19.1	
LHL4 890	89000 <i>26100</i>	21600 <i>36700</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	21400	64.2	32.1	22.8	
LHL4 1050	105000 <i>30800</i>	21600 <i>36700</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	21400	64.2	32.1	22.8	
LHL4 1220	122000 <i>35700</i>	25200 <i>42800</i>	3	30	100	115	1-1/2	—	—	19.8	—	—	9.9	7.8	21400	64.2	32.1	22.8	
LHL4 1440	144000 <i>42200</i>	27600 <i>46900</i>	3	30	120	140	1-1/2	—	—	21.0	—	—	10.5	8.4	33600	87.2	47.5	34.9	
LHL4 1860	186000 <i>54500</i>	36800 <i>62600</i>	4	30	120	140	1-1/2	—	—	28.0	—	—	14.0	11.2	49600	128.4	70.0	56.0	

+ 208-230/3/60 and 460/3/60 motors are 3/4 HP.

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Hot Gas Defrost Capacity & Electrical Data - 60Hz.

60 Hz. Data

Hot Gas Defrost Model SIZE	Capacity BTUH / watts 10°F TD -20°F SST	Fan Data						Standard Motor Data								Drain Pan Heaters (Std) *			
		Std. CFM / m ³ h	No.	Dia. In./mm	Air Throw (Ft. / m)		HP Ea.	Total Amps						Watts	Total Amps				
					Std	w/Collar		208-230/1/60		460/1/60		460 /3/60	575 /3/60		208-230 /1/60	460 /1/60	575 /1/60		
								Wired 1 phase	Wired 3 phase	Wired 1 phase	Wired 3 phase								
6 FPI MODELS																			
LHG6 450	45000 <i>13200</i>	9000 <i>15300</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	2100	9.2	4.6	3.7	
LHG6 550	55000 <i>16100</i>	9000 <i>15300</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	2100	9.2	4.6	3.7	
LHG6 640	64000 <i>18700</i>	12600 <i>21400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	2700	11.8	5.9	4.7	
LHG6 740	74000 <i>21700</i>	12600 <i>21400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	2700	11.8	5.9	4.7	
LHG6 810	81000 <i>23700</i>	16800 <i>28600</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	4000	17.4	8.7	6.9	
LHG6 950	95000 <i>27800</i>	16800 <i>28600</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	4000	17.4	8.7	6.9	
LHG6 1020	102000 <i>29900</i>	20700 <i>35200</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	4000	17.4	8.7	6.9	
LHG6 1200	120000 <i>35100</i>	20700 <i>35200</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	4000	17.4	8.7	6.9	
LHG6 1390	139000 <i>40700</i>	24300 <i>41300</i>	3	30	100	115	1-1/2	—	—	19.8	—	—	9.9	7.8	4000	17.4	8.7	6.9	
LHG6 1650	165000 <i>48300</i>	26550 <i>45100</i>	3	30	120	140	1-1/2	—	—	21.0	—	—	10.5	8.4	4200	18.2	9.1	7.3	
LHG6 2120	212000 <i>62100</i>	35400 <i>60200</i>	4	30	120	140	1-1/2	—	—	28.0	—	—	14.0	11.2	6200	17.7++	13.4	10.8	
4 FPI MODELS																			
LHF4 400	40000 <i>11700</i>	9400 <i>16000</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	2100	9.2	4.6	3.7	
LHF4 480	48000 <i>14100</i>	9400 <i>16000</i>	2	24	70	85	1/2+	6.4	—	5.2	3.4	—	2.6	1.8	2100	9.2	4.6	3.7	
LHF4 560	56000 <i>16400</i>	13200 <i>22400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	2700	11.8	5.9	4.7	
LHF4 650	65000 <i>19000</i>	13200 <i>22400</i>	3	24	70	85	1/2+	—	5.5	7.8	—	3.0	3.9	2.7	2700	11.8	5.3	4.7	
LHF4 710	71000 <i>20800</i>	17600 <i>29900</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	4000	17.4	8.7	6.9	
LHF4 840	84000 <i>24600</i>	17600 <i>29900</i>	4	24	70	85	1/2+	—	8.7	10.4	—	4.7	5.2	3.6	4000	17.4	8.7	6.9	
LHF4 890	89000 <i>26100</i>	21600 <i>36700</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	4000	17.4	8.7	6.9	
LHF4 1050	105000 <i>30800</i>	21600 <i>36700</i>	3	30	100	115	1	—	—	13.8	—	—	6.9	7.8	4000	17.4	8.7	6.9	
LHF4 1220	122000 <i>35700</i>	25200 <i>42800</i>	3	30	100	115	1-1/2	—	—	19.8	—	—	9.9	7.8	4000	17.4	8.7	6.9	
LHF4 1440	144000 <i>42200</i>	27600 <i>46900</i>	3	30	120	140	1-1/2	—	—	21.0	—	—	10.5	8.4	4200	18.2	9.1	7.3	
LHF4 1860	186000 <i>54500</i>	36800 <i>62600</i>	4	30	120	140	1-1/2	—	—	28.0	—	—	14.0	11.2	6200	17.7++	13.4	10.8	

+ 208-230/3/60 and 460/3/60 motors are 3/4 HP.
 ++ : This Model with 3 Phase Drain Pan Heaters
 * : Hot Gas Drain Pan Available

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Electric Defrost High CFM Capacity & Electrical Data - 60Hz.

Electric Defrost Model Size	Capacity BTUH / watts 10°F TD -20°F SST	Fan Data					Standard Motor Data			Defrost Heaters			
		Std CFM / m ³ h	No.	Dia. In./mm	Air Throw (Ft / m)		HP Ea.	Total Amps		Watts	Total Amps		
					Std	w/Collar		208-230 /3/60	460 /3/60		208-230 /3/60	460 /3/60	575 /3/60
6 FPI MODELS													
LHE6 450°V	49500 <i>14500</i>	11300 <i>19200</i>	2	24	85	100	2	12.0	6.0	9900	27.5	13.9	11.1
LHE6 550°V	60500 <i>17700</i>	11300 <i>19200</i>	2	24	85	100	2	12.0	6.0	9900	27.5	13.9	11.1
LHE6 640°V	70400 <i>20600</i>	15900 <i>27000</i>	3	24	85	100	2	18.0	9.0	12900	35.8	18.1	14.5
LHE6 740°V	81400 <i>23800</i>	15900 <i>27000</i>	3	24	85	100	2	18.0	9.0	12900	35.8	18.1	14.5
LHE6 810°V	89100 <i>26100</i>	21200 <i>36000</i>	4	24	85	100	2	24.0	12.0	17050	47.8	24.3	19.5
LHE6 950°V	104000 <i>30500</i>	21200 <i>36000</i>	4	24	85	100	2	24.0	12.0	17050	47.8	24.3	19.5
LHE6 1020°V	107100 <i>31400</i>	23300 <i>39600</i>	3	30	110	130	3	24.6	12.3	21400	64.2	32.1	22.8
LHE6 1200°V	126000 <i>36900</i>	23300 <i>39600</i>	3	30	110	130	3	24.6	12.3	21400	64.2	32.1	22.8
LHE6 1390°V	146000 <i>42800</i>	27200 <i>46200</i>	3	30	110	130	3	24.6	12.3	21400	64.2	32.1	22.8
LHE6 1650°V	174000 <i>51000</i>	29700 <i>50500</i>	3	30	130	150	3	24.6	12.3	33600	87.2	47.5	34.9
LHE6 2120°V	223000 <i>65300</i>	39600 <i>67300</i>	4	30	130	150	3	32.8	16.4	49600	128.4	70.0	56.0
4 FPI MODELS													
LHL4 400°V	42000 <i>12300</i>	12200 <i>20700</i>	2	24	85	100	2	12.0	6.0	9900	27.5	13.9	11.1
LHL4 480°V	50400 <i>14800</i>	12200 <i>20700</i>	2	24	85	100	2	12.0	6.0	9900	27.5	13.9	11.1
LHL4 560°V	58800 <i>17200</i>	17000 <i>28900</i>	3	24	85	100	2	18.0	9.0	12900	35.8	18.1	14.5
LHL4 650°V	68300 <i>20000</i>	17000 <i>28900</i>	3	24	85	100	2	18.0	9.0	12900	35.8	18.1	14.5
LHL4 710°V	74600 <i>21800</i>	22600 <i>38400</i>	4	24	85	100	2	24.0	12.0	17050	47.8	24.3	19.5
LHL4 840°V	88200 <i>25800</i>	22600 <i>38400</i>	4	24	85	100	2	24.0	12.0	17050	47.8	24.3	19.5
LHL4 890°V	91200 <i>26700</i>	23800 <i>40500</i>	3	30	110	130	3	24.6	12.3	21400	64.2	32.1	22.8
LHL4 1050°V	107600 <i>31500</i>	23800 <i>40500</i>	3	30	110	130	3	24.6	12.3	21400	64.2	32.1	22.8
LHL4 1220°V	125000 <i>36600</i>	32800 <i>55800</i>	3	30	110	130	3	24.6	12.3	21400	64.2	32.1	22.8
LHL4 1440°V	147000 <i>43100</i>	30600 <i>52000</i>	3	30	130	150	3	24.6	12.3	33600	87.2	47.5	34.9
LHL4 1860°V	190000 <i>55600</i>	40800 <i>69400</i>	4	30	130	150	3	32.8	16.4	49600	128.4	70.0	56.0

Note: High CFM models can handle external static pressure up to 1/2" of water
 Note: High CFM models are designed for operation below +15°F S.S.T.
 Note: CFM is at 0.0 external static pressure

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Hot Gas Defrost High CFM Capacity & Electrical Data - 60Hz.

60 Hz. Data

Hot Gas Defrost Model Size	Capacity BTUH / watts 10°F TD -20°F SST	Fan Data						Standard Motor Data			Drain Pan Heaters (Std) *			
		Std CFM / m ³ h	No.	Dia. In. / mm	Air Throw (Ft / m)		HP Ea.	Total Amps		Watts	Total Amps			
					Std	w/Collar		208-230 /3/60	460 /3/60		208-230 /1/60	460 /1/60	575 /1/60	
6 FPI MODELS														
LHG6 450*V	49500 <i>14500</i>	11300 <i>19200</i>	2	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	12.0	6.0	2100	9.2	4.6	3.7
LHG6 550*V	60500 <i>17700</i>	11300 <i>19200</i>	2	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	12.0	6.0	2100	9.2	4.6	3.7
LHG6 640*V	70400 <i>20600</i>	15900 <i>27000</i>	3	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	18.0	9.0	2700	11.8	5.9	4.7
LHG6 740*V	81400 <i>23800</i>	15900 <i>27000</i>	3	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	18.0	9.0	2700	11.8	5.9	4.7
LHG6 810*V	89100 <i>26100</i>	21200 <i>36000</i>	4	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	24.0	12.0	4000	17.4	8.7	6.9
LHG6 950*V	104000 <i>30500</i>	21200 <i>36000</i>	4	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	24.0	12.0	4000	17.4	8.7	6.9
LHG6 1020*V	107100 <i>31400</i>	23300 <i>39600</i>	3	30	110 <i>762</i>	130 <i>30</i>	130 <i>40</i>	3	24.6	12.3	4000	17.4	8.7	6.9
LHG6 1200*V	126000 <i>36900</i>	23300 <i>39600</i>	3	30	110 <i>762</i>	130 <i>30</i>	130 <i>40</i>	3	24.6	12.3	4000	17.4	8.7	6.9
LHG6 1390*V	146000 <i>42800</i>	27200 <i>46200</i>	3	30	110 <i>762</i>	130 <i>30</i>	130 <i>40</i>	3	24.6	12.3	4000	17.4	8.7	6.9
LHG6 1650*V	174000 <i>51000</i>	29700 <i>50500</i>	3	30	130 <i>762</i>	150 <i>40</i>	150 <i>50</i>	3	24.6	12.3	4200	18.2	9.1	7.3
LHG6 2120*V	223000 <i>65300</i>	39600 <i>67300</i>	4	30	130 <i>762</i>	150 <i>40</i>	150 <i>50</i>	3	32.8	16.4	6200	17.7+	13.4	10.8
4 FPI MODELS														
LHF4 400*V	42000 <i>12300</i>	12200 <i>20700</i>	2	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	12.0	6.0	2100	9.2	4.6	3.7
LHF4 480*V	50400 <i>14800</i>	12200 <i>20700</i>	2	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	12.0	6.0	2100	9.2	4.6	3.7
LHF4 560*V	58800 <i>17200</i>	17000 <i>28900</i>	3	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	18.0	9.0	2700	11.8	5.9	4.7
LHF4 650*V	68300 <i>20000</i>	17000 <i>28900</i>	3	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	18.0	9.0	2700	11.8	5.3	4.7
LHF4 710*V	74600 <i>21800</i>	22600 <i>38400</i>	4	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	24.0	12.0	4000	17.4	8.7	6.9
LHF4 840*V	88200 <i>25800</i>	22600 <i>38400</i>	4	24	85 <i>610</i>	100 <i>30</i>	100 <i>30</i>	2	24.0	12.0	4000	17.4	8.7	6.9
LHF4 890*V	91200 <i>26700</i>	23800 <i>40500</i>	3	30	110 <i>762</i>	130 <i>30</i>	130 <i>40</i>	3	24.6	12.3	4000	17.4	8.7	6.9
LHF4 1050*V	107600 <i>31500</i>	23800 <i>40500</i>	3	30	110 <i>762</i>	130 <i>30</i>	130 <i>40</i>	3	24.6	12.3	4000	17.4	8.7	6.9
LHF4 1220*V	125000 <i>147000</i>	32800 <i>55800</i>	3	30	110 <i>762</i>	130 <i>30</i>	130 <i>40</i>	3	24.6	12.3	4000	17.4	8.7	6.9
LHF4 1440*V	147000 <i>43100</i>	30600 <i>52000</i>	3	30	130 <i>762</i>	150 <i>40</i>	150 <i>50</i>	3	24.6	12.3	4200	18.2	9.1	7.3
LHF4 1860*V	190000 <i>55600</i>	40800 <i>69400</i>	4	30	130 <i>762</i>	150 <i>40</i>	150 <i>50</i>	3	32.8	16.4	6200	17.7+	13.4	10.8

+ : This model with 3 Phase Drain Pan Heaters

* : Hot Gas Drain Pan Available

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Note: High CFM models can handle external static pressure up to 1/2" of water

Note: High CFM models are designed for operation below +15°F S.S.T.

Note: CFM is at 0.0 external static pressure

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Air Defrost Capacity & Electrical Data - 50Hz

Air Defrost Model Size	Capacity BTUH / watts 6° C TD -4° C SST	Fan Data					Standard Motor Data					
		CFM / m ³ h	No.	Dia. In. / mm	Air Throw (Ft / m)		HP Ea.	Total Amps			380 /3/50	
					Std	w/Collar		220/1/50 Wired 1 phase	380/1/50 Wired 1 phase	Wired 3 phase		
6 FPI MODELS												
LHA6 520	47800 <i>14000</i>	8100 <i>23400</i>	2	24	60 <i>610</i>	80 <i>18</i>	24 <i>24</i>	1/2+	6.4	3.4	—	2.6
LHA6 630	58000 <i>17000</i>	8100 <i>23400</i>	2	24	60 <i>610</i>	80 <i>18</i>	24 <i>24</i>	1/2+	6.4	3.4	—	2.6
LHA6 750	69000 <i>20200</i>	11300 <i>32700</i>	3	24	60 <i>610</i>	80 <i>18</i>	24 <i>24</i>	1/2+	9.6	—	3.0	3.9
LHA6 850	78200 <i>22900</i>	11300 <i>32700</i>	3	24	60 <i>610</i>	80 <i>18</i>	24 <i>24</i>	1/2+	9.6	—	3.0	3.9
LHA6 930	85600 <i>25100</i>	15100 <i>43800</i>	4	24	60 <i>610</i>	80 <i>18</i>	24 <i>24</i>	1/2+	12.8	—	4.7	5.2
LHA6 1100	101200 <i>29600</i>	15100 <i>43800</i>	4	24	60 <i>610</i>	80 <i>18</i>	24 <i>24</i>	1/2+	12.8	—	4.7	5.2
LHA6 1170	107600 <i>31500</i>	18600 <i>53900</i>	3	30	90 <i>762</i>	100 <i>27</i>	30 <i>30</i>	1	—	—	—	6.9
LHA6 1400	128800 <i>37700</i>	18600 <i>53900</i>	3	30	90 <i>762</i>	100 <i>27</i>	30 <i>30</i>	1	—	—	—	6.9
LHA6 1610	148100 <i>43400</i>	21900 <i>63200</i>	3	30	90 <i>762</i>	100 <i>27</i>	30 <i>30</i>	1-1/2	—	—	—	9.9
LHA6 1900	174800 <i>51200</i>	23900 <i>69000</i>	3	30	110 <i>762</i>	130 <i>34</i>	40 <i>40</i>	1-1/2	—	—	—	10.5
LHA6 2200	202400 <i>59300</i>	27400 <i>79100</i>	4	30	110 <i>762</i>	130 <i>34</i>	40 <i>40</i>	1-1/2	—	—	—	13.2
LHA6 2440	224500 <i>65800</i>	31900 <i>92100</i>	4	30	110 <i>762</i>	130 <i>34</i>	40 <i>40</i>	1-1/2	—	—	—	14.0
8 FPI MODELS												
LHA8 2160	198700 <i>58200</i>	23400 <i>67500</i>	3	30	110 <i>762</i>	130 <i>34</i>	40 <i>40</i>	1-1/2	—	—	—	10.5
LHA8 2500	230000 <i>67400</i>	26700 <i>77000</i>	4	30	110 <i>762</i>	130 <i>34</i>	40 <i>40</i>	1-1/2	—	—	—	13.2
LHA8 2780	255800 <i>74900</i>	31200 <i>90000</i>	4	30	110 <i>762</i>	130 <i>34</i>	40 <i>40</i>	1-1/2	—	—	—	14.0

+ 380/3/50 motors are 3/4 HP

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Electric Defrost Capacity & Electrical Data - 50Hz.

50 Hz. Data

Electric Defrost Model Size	Capacity BTUH / watts 6° C TD -29° C SST	Fan Data						Standard Motor Data				Defrost Heaters	
		Standard CFM / m ³ h	No.	Dia. In. / mm	Air Throw (Ft / m)		HP Ea.	Total Amps			Total Amps		
					Std	w/Collar		380/1/50		380 /3/50	Watts	380 /3/50	
							Wired 1 phase	Wired 3 phase					
6 FPI MODELS													
LHE6 450	41400 <i>12100</i>	8100 <i>23400</i>	2	24	60	80	1/2+	3.4	—	2.6	6760	11.5	
LHE6 550	50600 <i>14800</i>	8100 <i>23400</i>	2	24	60	80	1/2+	3.4	—	2.6	6760	11.5	
LHE6 640	58900 <i>17300</i>	11300 <i>32700</i>	3	24	60	80	1/2+	—	3.0	3.9	8800	15.0	
LHE6 740	68100 <i>19900</i>	11300 <i>32700</i>	3	24	60	80	1/2+	—	3.0	3.9	8800	15.0	
LHE6 810	74500 <i>21800</i>	15100 <i>43800</i>	4	24	60	80	1/2+	—	4.7	5.2	11640	20.1	
LHE6 950	87400 <i>25600</i>	15100 <i>43800</i>	4	24	60	80	1/2+	—	4.7	5.2	11640	20.1	
LHE6 1020	93800 <i>27500</i>	18600 <i>53900</i>	3	30	90	100	1	—	—	6.9	14600	26.5	
LHE6 1200	110400 <i>32300</i>	18600 <i>53900</i>	3	30	90	100	1	—	—	6.9	14600	26.5	
LHE6 1390	127900 <i>37500</i>	21900 <i>63200</i>	3	30	90	100	1-1/2	—	—	9.9	14600	26.5	
LHE6 1650	151800 <i>44500</i>	23900 <i>69000</i>	3	30	110	130	1-1/2	—	—	10.5	22930	39.2	
LHE6 2120	195000 <i>57100</i>	31900 <i>92100</i>	4	30	110	130	1-1/2	—	—	14.0	33850	57.8	
4 FPI MODELS													
LHL4 400	36800 <i>10800</i>	8500 <i>24500</i>	2	24	60	80	1/2+	3.4	—	2.6	6760	11.5	
LHL4 480	44200 <i>12900</i>	8500 <i>24500</i>	2	24	60	80	1/2+	3.4	—	2.6	6760	11.5	
LHL4 560	51500 <i>15100</i>	11900 <i>34300</i>	3	24	60	80	1/2+	—	3.0	3.9	8800	15.0	
LHL4 650	59800 <i>17500</i>	11900 <i>34300</i>	3	24	60	80	1/2+	—	3.0	3.9	8800	15.0	
LHL4 710	65300 <i>19100</i>	15900 <i>45700</i>	4	24	60	80	1/2+	—	4.7	5.2	11640	20.1	
LHL4 840	77300 <i>22600</i>	15900 <i>45700</i>	4	24	60	80	1/2+	—	4.7	5.2	11640	20.1	
LHL4 890	81900 <i>24000</i>	19500 <i>56200</i>	3	30	90	100	1	—	—	6.9	14600	26.5	
LHL4 1050	96600 <i>28300</i>	19500 <i>56200</i>	3	30	90	100	1	—	—	6.9	14600	26.5	
LHL4 1220	112200 <i>32900</i>	22700 <i>65500</i>	3	30	90	100	1-1/2	—	—	9.9	14600	26.5	
LHL4 1440	132500 <i>38800</i>	24900 <i>71800</i>	3	30	110	130	1-1/2	—	—	10.5	22930	39.2	
LHL4 1860	171100 <i>50100</i>	33100 <i>95800</i>	4	30	110	130	1-1/2	—	—	14.0	33850	57.8	

+ 380/3/50 motors are 3/4 HP

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Hot Gas Defrost Capacity & Electrical Data - 50Hz.

50 Hz. Data

Hot Gas Defrost Model Size	Capacity BTUH / watts 6° C TD -29° C SST	Fan Data						Standard Motor Data					Defrost Heaters (Std) *	
		Std. CFM / m³h	No.	Dia. In./mm	Air Throw (Ft. / m)		HP Ea.	Total Amps			Total Amps			
					Std	w/Collar		220/1/50 Wired 1 phase	380/1/50 Wired 1 phase	380/1/50 Wired 3 phase	380 /3/50	Watts	380 /1/50	
6 FPI MODELS														
LHG6 450	41400 <i>12100</i>	8100 <i>23400</i>	2	24	60	80	1/2+	6.4	3.4	—	2.6	1430	3.8	
LHG6 550	50600 <i>14800</i>	8100 <i>23400</i>	2	24	60	80	1/2+	6.4	3.4	—	2.6	1430	3.8	
LHG6 640	58900 <i>17300</i>	11300 <i>32700</i>	3	24	60	80	1/2+	9.6	—	3.0	3.9	1840	4.9	
LHG6 740	68100 <i>19900</i>	11300 <i>32700</i>	3	24	60	80	1/2+	9.6	—	3.0	3.9	1840	4.9	
LHG6 810	74500 <i>21800</i>	15100 <i>43800</i>	4	24	60	80	1/2+	12.8	—	4.7	5.2	2730	7.2	
LHG6 950	87400 <i>25600</i>	15100 <i>43800</i>	4	24	60	80	1/2+	12.8	—	4.7	5.2	2730	7.2	
LHG6 1020	93800 <i>27500</i>	18600 <i>53900</i>	3	30	90	100	1	—	—	—	6.9	2730	7.2	
LHG6 1200	110400 <i>32300</i>	18600 <i>53900</i>	3	30	90	100	1	—	—	—	6.9	2730	7.2	
LHG6 1390	127900 <i>37500</i>	21900 <i>63200</i>	3	30	90	100	1-1/2	—	—	—	9.9	2730	7.2	
LHG6 1650	151800 <i>44500</i>	23900 <i>69000</i>	3	30	110	130	1-1/2	—	—	—	10.5	2870	7.5	
LHG6 2120	195000 <i>57100</i>	31900 <i>92100</i>	4	30	110	130	1-1/2	—	—	—	14.0	4230	11.1	
4 FPI MODELS														
LHF4 400	36800 <i>10800</i>	8500 <i>24500</i>	2	24	60	80	1/2+	6.4	3.4	—	2.6	1430	3.8	
LHF4 480	44200 <i>12900</i>	8500 <i>24500</i>	2	24	60	80	1/2+	6.4	3.4	—	2.6	1430	3.8	
LHF4 560	51500 <i>15100</i>	11900 <i>34300</i>	3	24	60	80	1/2+	—	—	3.0	3.9	1840	4.9	
LHF4 650	59800 <i>17500</i>	11900 <i>34300</i>	3	24	60	80	1/2+	—	—	3.0	3.9	1840	4.9	
LHF4 710	65300 <i>19100</i>	15900 <i>45700</i>	4	24	60	80	1/2+	—	—	4.7	5.2	2730	7.2	
LHF4 840	77300 <i>22600</i>	15900 <i>45700</i>	4	24	60	80	1/2+	—	—	4.7	5.2	2730	7.2	
LHF4 890	81900 <i>24000</i>	19500 <i>56200</i>	3	30	90	100	1	—	—	—	6.9	2730	7.2	
LHF4 1050	96600 <i>28300</i>	19500 <i>56200</i>	3	30	90	100	1	—	—	—	6.9	2730	7.2	
LHF4 1220	112200 <i>32900</i>	22700 <i>65500</i>	3	30	90	100	1-1/2	—	—	—	9.9	2730	7.2	
LHF4 1440	132500 <i>38800</i>	24900 <i>71800</i>	3	30	110	130	1-1/2	—	—	—	10.5	2870	7.5	
LHF4 1860	171100 <i>50100</i>	33100 <i>95800</i>	4	30	110	130	1-1/2	—	—	—	14.0	4230	11.1	

+ : 380/3/50 motors are 3/4 HP
* : Hot Gas Drain Pan Available

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Electric Defrost High CFM Capacity & Electrical Data - 50Hz.

50 Hz. Data

Electric Defrost Model Size	Capacity BTUH / watts 6°C TD -29°F SST	Fan Data					Standard Motor Data		Defrost Heaters		
		Std CFM / m³h	No.	Dia. In./mm	Air Throw Ft./m		Total Amps		Total Amps		
					Std	w/Collar	HP Ea.	380 /3/50	Watts	380 /3/50	
6 FPI MODELS											
LHE6 450*V	45500 <i>13300</i>	10200 <i>17300</i>	2	24	610	80	90	2	6.0	6760	11.5
LHE6 550*V	55700 <i>16300</i>	10200 <i>17300</i>	2	24	610	80	90	2	6.0	6760	11.5
LHE6 640*V	64800 <i>19000</i>	14300 <i>24300</i>	3	24	610	80	90	2	9.0	8800	15.0
LHE6 740*V	74900 <i>21900</i>	14300 <i>24300</i>	3	24	610	80	90	2	9.0	8800	15.0
LHE6 810*V	82000 <i>24000</i>	19100 <i>32500</i>	4	24	610	80	90	2	12.0	11640	20.1
LHE6 950*V	95700 <i>28000</i>	19100 <i>32500</i>	4	24	610	80	90	2	12.0	11640	20.1
LHE6 1020*V	98500 <i>28800</i>	21000 <i>35700</i>	3	24	610	100	120	3	12.3	14600	26.5
LHE6 1200*V	115900 <i>33900</i>	21000 <i>35700</i>	3	24	610	100	120	3	12.3	14600	26.5
LHE6 1390*V	134300 <i>39300</i>	24500 <i>41700</i>	3	24	610	100	120	3	12.3	14600	26.5
LHE6 1650*V	160100 <i>46900</i>	26700 <i>45400</i>	3	24	610	120	140	3	12.3	22930	39.2
LHE6 2120*V	205200 <i>60100</i>	35700 <i>60700</i>	4	24	610	120	140	3	16.4	33850	57.8
4 FPI MODELS											
LHL4 400*V	38600 <i>11300</i>	11000 <i>18700</i>	2	24	610	80	90	2	6.0	6760	11.5
LHL4 480*V	46400 <i>13600</i>	11000 <i>18700</i>	2	24	610	80	90	2	6.0	6760	11.5
LHL4 560*V	54100 <i>15800</i>	15300 <i>26000</i>	3	24	610	80	90	2	9.0	8800	15.0
LHL4 650*V	62800 <i>18400</i>	15300 <i>26000</i>	3	24	610	80	90	2	9.0	8800	15.0
LHL4 710*V	68600 <i>20100</i>	20400 <i>34700</i>	4	24	610	80	90	2	12.0	11640	20.1
LHL4 840*V	81100 <i>23800</i>	20400 <i>34700</i>	4	24	610	80	90	2	12.0	11640	20.1
LHL4 890*V	83900 <i>24600</i>	21400 <i>36400</i>	3	24	610	100	120	3	12.3	14600	26.5
LHL4 1050*V	99000 <i>29000</i>	21400 <i>36400</i>	3	24	610	100	120	3	12.3	14600	26.5
LHL4 1220*V	115000 <i>33700</i>	29500 <i>50200</i>	3	24	610	100	120	3	12.3	14600	26.5
LHL4 1440*V	135200 <i>39600</i>	27600 <i>46900</i>	3	24	610	120	140	3	12.3	22930	39.2
LHL4 1860*V	174800 <i>51200</i>	36700 <i>62400</i>	4	24	610	120	140	3	16.4	33850	57.8

Note: High CFM models can handle external static pressure up to 1/2" of water
 Note: High CFM models are designed for operation below +15°F S.S.T.
 Note: CFM is at 0.0 external static pressure

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Hot Gas High CFM Capacity & Electrical Data - 50Hz.

50 Hz. Data

Hot Gas Model Size	Capacity BTUH / watts 6°C TD -29°F SST	Fan Data					Standard Motor Data		Drain Pan Heaters (Std.)	
		Std CFM / m³h	No.	Dia. In./mm	Air Throw Ft./m		Total Amps		Total Amps	
					Std	w/Collar	HP Ea.	380 /3/50	Watts	380 /1/50
6 FPI MODELS										
LHG6 450*V	45500 <i>13300</i>	10200 <i>17300</i>	2	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	6.0	1430	3.8
LHG6 550*V	55700 <i>16300</i>	10200 <i>17300</i>	2	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	6.0	1430	3.8
LHG6 640*V	64800 <i>19000</i>	14300 <i>24300</i>	3	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	9.0	1840	4.9
LHG6 740*V	74900 <i>21900</i>	14300 <i>24300</i>	3	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	9.0	1840	4.9
LHG6 810*V	82000 <i>24000</i>	19100 <i>32500</i>	4	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	12.0	2730	7.2
LHG6 950*V	95700 <i>28000</i>	19100 <i>32500</i>	4	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	12.0	2730	7.2
LHG6 1020*V	98500 <i>28800</i>	21000 <i>35700</i>	3	24 <i>610</i>	100 <i>30</i>	120 <i>37</i>	3	12.3	2730	7.2
LHG6 1200*V	115900 <i>33900</i>	21000 <i>35700</i>	3	24 <i>610</i>	100 <i>30</i>	120 <i>37</i>	3	12.3	2730	7.2
LHG6 1390*V	134300 <i>39300</i>	24500 <i>41700</i>	3	24 <i>610</i>	100 <i>30</i>	120 <i>37</i>	3	12.3	2730	7.2
LHG6 1650*V	160100 <i>46900</i>	26700 <i>45400</i>	3	24 <i>610</i>	120 <i>37</i>	140 <i>43</i>	3	12.3	2870	7.5
LHG6 2120*V	205200 <i>60100</i>	35700 <i>60700</i>	4	24 <i>610</i>	120 <i>37</i>	140 <i>43</i>	3	16.4	4230	11.1
4 FPI MODELS										
LHF4 400*V	38600 <i>11300</i>	11000 <i>18700</i>	2	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	6.0	1430	3.8
LHF4 480*V	46400 <i>13600</i>	11000 <i>18700</i>	2	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	6.0	1430	3.8
LHF4 560*V	54100 <i>15800</i>	15300 <i>26000</i>	3	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	9.0	1840	4.9
LHF4 650*V	62800 <i>18400</i>	15300 <i>26000</i>	3	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	9.0	1840	4.9
LHF4 710*V	68600 <i>20100</i>	20400 <i>34700</i>	4	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	12.0	2730	7.2
LHF4 840*V	81100 <i>23800</i>	20400 <i>34700</i>	4	24 <i>610</i>	80 <i>24</i>	90 <i>27</i>	2	12.0	2730	7.2
LHF4 890*V	83900 <i>24600</i>	21400 <i>36400</i>	3	24 <i>610</i>	100 <i>30</i>	120 <i>37</i>	3	12.3	2730	7.2
LHF4 1050*V	99000 <i>29000</i>	21400 <i>36400</i>	3	24 <i>610</i>	100 <i>30</i>	120 <i>37</i>	3	12.3	2730	7.2
LHF4 1220*V	115000 <i>33700</i>	29500 <i>50200</i>	3	24 <i>610</i>	100 <i>30</i>	120 <i>37</i>	3	12.3	2730	7.2
LHF4 1440*V	135200 <i>39600</i>	27600 <i>46900</i>	3	24 <i>610</i>	120 <i>37</i>	140 <i>43</i>	3	12.3	2870	7.5
LHF4 1860*V	174800 <i>51200</i>	36700 <i>62400</i>	4	24 <i>610</i>	120 <i>37</i>	140 <i>43</i>	3	16.4	4230	11.1

Note: High CFM models can handle external static pressure up to 1/2" of water
 Note: High CFM models are designed for operation below +15° S.S.T.
 Note: CFM is at 0.0 external static pressure

Note: TD = Temperature Difference = (Room temperature - saturated suction temperature)

Capacity Correction Factors for Electric and Hot Gas Defrost Units

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Saturated Suction Temperature °C	-7	-23	-29	-34	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

Physical Specifications - Air Defrost

Air Defrost Model Size	No. of Fans	Connections (Inches)				Approx. Net Wt. Lbs / kg
		Coil Inlet	Suction	External Equalizer	Drain	
6 FPI MODELS						
520	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	270 <i>120</i>
630	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	300 <i>140</i>
750	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	390 <i>180</i>
850	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	430 <i>200</i>
930	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	515 <i>230</i>
1100	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	565 <i>260</i>
1170	3	1-5/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	738 <i>330</i>
1400	3	1-5/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	800 <i>360</i>
1610	3	1-3/8 ODF (2 conns)	2-1/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	850 <i>390</i>
1900	3	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1160 <i>530</i>
2200	4	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1500 <i>680</i>
2440	4	1-5/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1600 <i>730</i>
8 FPI MODELS						
2160	3	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1160 <i>530</i>
2500	4	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1500 <i>680</i>
2780	4	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1600 <i>730</i>

Physical Data

Physical Specifications - Electric Defrost

Electric Defrost Model Size	No. of Fans	Connections (Inches)				Approx. Net Wt. Lbs / kg
		Coil Inlet	Suction	External Equalizer	Drain	
6 FPI MODELS						
450	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	280 <i>130</i>
550	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	310 <i>140</i>
640	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	405 <i>180</i>
740	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	445 <i>200</i>
810	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	535 <i>240</i>
950	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	585 <i>270</i>
1020	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	753 <i>340</i>
1200	3	1-5/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	815 <i>370</i>
1390	3	1-3/8 ODF (2 conns)	2-1/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	865 <i>390</i>
1650	3	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1175 <i>530</i>
2120	4	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1620 <i>730</i>
4 FPI MODELS						
400	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	277 <i>130</i>
480	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	306 <i>140</i>
560	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	400 <i>180</i>
650	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	440 <i>200</i>
710	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	528 <i>240</i>
840	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	578 <i>260</i>
890	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	744 <i>340</i>
1050	3	1-5/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	805 <i>370</i>
1220	3	1-3/8 ODF (2 conns)	2-1/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	854 <i>390</i>
1440	3	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1160 <i>530</i>
1860	4	1-3/8 ODF	2-5/8 ODF	1/4 ODF	1-1/4 FPT	1600 <i>730</i>

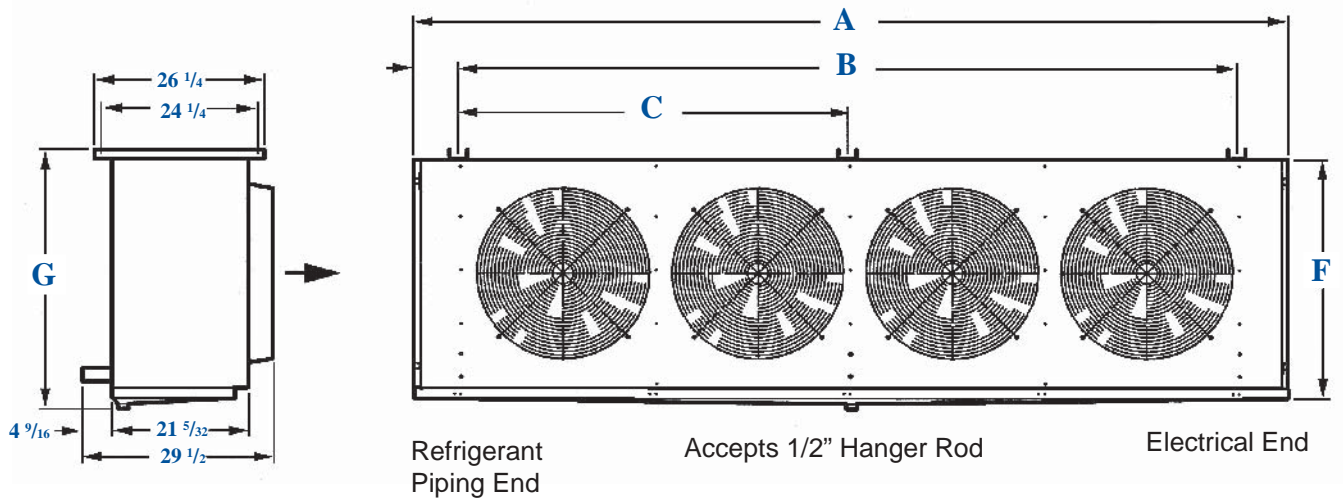
Physical Specifications - Hot Gas Defrost

Physical Data

Hot Gas Defrost Model Size	No. of Fans	Connections (Inches)						Approx. Net Wt. Lbs / kg
		Coil Inlet	Suction	External Equalizer	Drain	Hot Gas Side Port	Hot Gas Drain Pan Ref. Conn. (when supplied)	
6 FPI MODELS								
450	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	5/8	1-1/8	280 130
550	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	5/8	1-1/8	310 140
640	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	405 180
740	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	445 200
810	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	535 240
950	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	585 270
1020	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-3/8	753 340
1200	3	1-5/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	1-1/8	1-3/8	815 370
1390	3	1-3/8 ODF (2 conns)	2-1/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	7/8 (2 conns)	1-3/8	865 390
1650	3	1-3/8 ODF (2 conns)	2-5/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	7/8 (2 conns)	1-5/8+	1175 530
2120	4	1-3/8 ODF (2 conns)	2-5/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	7/8 (2 conns)	1-5/8+	1620 730
4 FPI MODELS								
400	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	5/8	1-1/8	277 130
480	2	1-1/8 ODF	1-5/8 ODF	1/4 ODF	1-1/4 FPT	5/8	1-1/8	306 140
560	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	400 180
650	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	440 200
710	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	528 240
840	4	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-1/8	578 260
890	3	1-3/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	7/8	1-3/8	744 340
1050	3	1-5/8 ODF	2-1/8 ODF	1/4 ODF	1-1/4 FPT	1-1/8	1-3/8	805 370
1220	3	1-3/8 ODF (2 conns)	2-1/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	7/8 (2 conns)	1-3/8	854 390
1440	3	1-3/8 ODF (2 conns)	2-5/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	7/8 (2 conns)	1-5/8+	1160 530
1860	4	1-3/8 ODF (2 conns)	2-5/8 ODF (2 conns)	1/4 ODF (2 conns)	1-1/4 FPT	7/8 (2 conns)	1-5/8+	1600 730

+Opposite End Connections

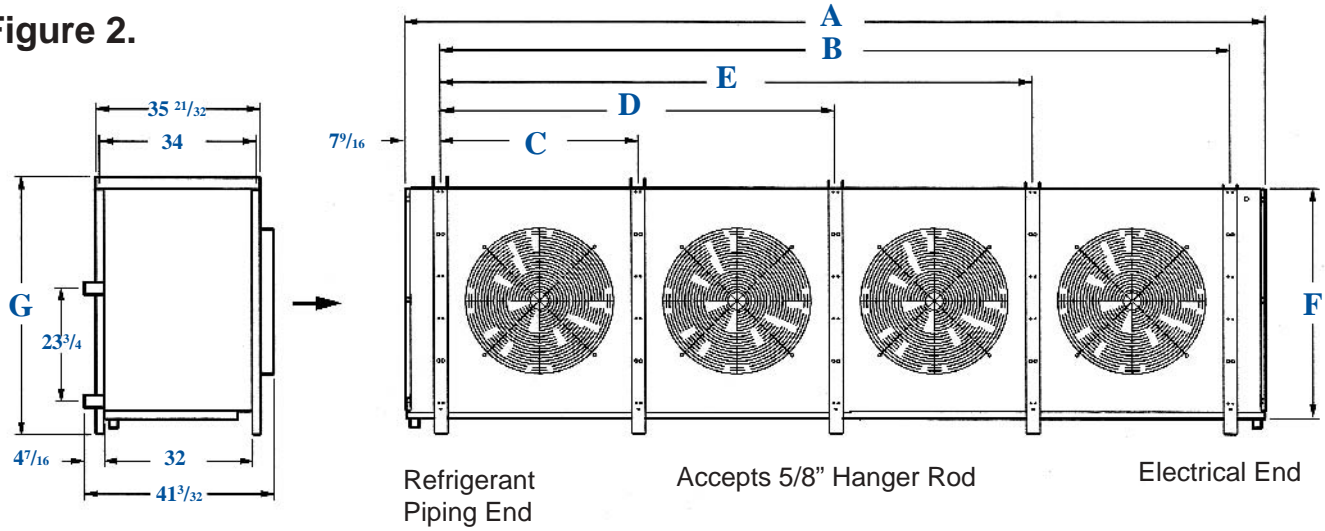
Figure 1.



Dimensional Data

Air Defrost Models			Electric & Hot Gas Defrost Models						Dimensions (In / mm)					
6 FPI	6 FPI	4 FPI	Figure	A	B	C	F	G	A	B	C	F	G	
520	450	400	1	83 3/32	68 1/8	---	37 3/16	40 11/32	2111	1730	---	945	1025	
630	550	480	1	83 3/32	68 1/8	---	37 3/16	40 11/32	2111	1730	---	945	1025	
750	640	560	1	105 5/32	90 3/16	45 3/32	37 3/16	40 11/32	2671	2291	1145	945	1025	
850	740	650	1	105 5/32	90 3/16	45 3/32	37 3/16	40 11/32	2671	2291	1145	945	1025	
930	810	710	1	135 7/32	120 1/4	60 1/8	37 3/16	40 11/32	3435	3054	1527	945	1025	
1100	950	840	1	135 7/32	120 1/4	60 1/8	37 3/16	40 11/32	3435	3054	1527	945	1025	

Figure 2.



Dimensional Data

Air Defrost Models		Electric & Hot Gas Defrost Models		Dimensions (In / mm)							
6 FPI	8 FPI	6 FPI	4 FPI	Figure	A	B	C	D	E	F	G
1170	—	1020	890	2	135 13/32 3435	120 9/32 3055	40 3/32 1018	80 3/16 2037	—	44 1/2 1130	50 5/16 1278
1400	—	1200	1050	2	135 13/32 3439	120 9/32 3055	40 3/32 1018	80 3/16 2037	—	44 1/2 1130	50 5/16 1278
1610	—	1390	1220	2	135 13/32 3439	120 9/32 3055	40 3/32 1018	80 3/16 2037	—	50 7/32 1276	55 13/16 1418
1900	2160	1650	1440	2	142 1/2 3620	127 25/32 3246	42 19/32 1082	85 3/16 2164	—	50 7/32 1276	55 13/16 1418
2200	2500	—	—	2	185 1/2 4712	170 3/8 4328	42 19/32 1082	85 3/16 2164	127 25/32 3246	44 1/2 1130	50 5/16 1278
2440	2780	2120	1860	2	185 1/2 4712	170 3/8 4328	42 19/32 1082	85 3/16 2164	127 25/32 3246	50 7/32 1276	56 1/4 1429

Air Throw

ELECTRIC & HOT GAS DEFROST MODELS		STD MTR RPM	STD HP EA	AIR THROW	AIR THROW w/ Collar	OPT HIGH CFM MTR RPM	OPT HP EA	AIR THROW	AIR THROW w/ Collar
6 FPI	4 FPI								
450 - 950	400 - 840	850	1/2	70	85	1750	2	80	100
1020 - 1390	890 - 1220	850	1 & 1-1/2	100	120	1750	3	115	145
1650 - 2120	1440 - 1860	1140	1-1/2	120	145	1750	3	130	150

+ Three Phase Motors are 1140 RPM

Air throw data based on 30 ft. ceiling height with no obstructions where velocity drops to 50 fpm.

Motor / Fan Blade / Guards

Part Number	Description	
25305701	Motor 208-230V/ 1PH PSC	1/2 HP 850 RPM
25305801	Motor 460V/ 1PH PSC	1/2 HP 850 RPM
7072102	Motor 208-230/460V/ 3PH	3/4 HP 1140 RPM
2538000	Motor 208-230/460V/ 3PH	1 HP 850 RPM
25301701	Motor 208-230/460V/ 3PH	1-1/2 HP 850 RPM
25301801	Motor 208-230/460V/ 3PH	1-1/2 HP 1140 RPM
25307901	Motor 575V/ 3PH	1/2 HP 1140 RPM
25301901	Motor 575V/ 3PH	1-1/2 HP 850 RPM
25302001	Motor 575V/ 3PH	1-1/2 HP 1140 RPM
25301001	Motor 208-230/460V/ 3PH	1 HP 1140 RPM TE
25301101	Motor 208-230/460V/ 3PH	1-1/2 HP 1140 RPM TE
5916F	Motor 208-230/460V/ 3PH	2 HP 1750 RPM
5926J	Motor 208-230/460V/ 3PH	3 HP 1750 RPM
25308901	Motor 208-230/460V/3PH	1 HP 1140 RPM TE (LT)
22901101	Fan Blade 24" 850 RPM	
5133C	Fan Blade 24" 1140 RPM	
22901201	Fan Blade 24" 1750 RPM Cast Aluminum	
22900101	Fan Blade 30" 1140 RPM	
22900301	Fan Blade 30" 850 RPM	
22900401	Fan Blade 30" 850 RPM	
22901401	Fan Blade 30" 1750 RPM Cast Aluminum	
22901501	Fan Blade 30" 1140 RPM	
23102202	Fan Guard 24" Blue	
23102302	Fan Guard 30" Blue	

Coil Defrost Heaters

Part Number	Description	Unit Voltage	Model Size	Wire Lead Color Code
24711201	Heater 230V 1300W	208-230V & 460V	400,450,480,550	Black
24711202	Heater 230V 1700W	208-230V & 460V	560,640,650,740	Black
24711203	Heater 230V 2300W	208-230V & 460V	710,810,840,890,950,1020 1050,1200,1220,1390	Black
24711801	Heater 288V 1300W	575V	400,450,480,550	Black , Red
24711802	Heater 288V 1700W	575V	560,640,650,740	Black , Red
24711803	Heater 288V 2300W	575V	710,810,840,890,950,1020 1050,1200,1220,1390	Black , Red
23308101	Heater Clip	—	400 - 1390	—
24712301	Heater 230V 2100W	208-230V & 460V	1440, 1650	Black
24711403	Heater 230V 1550W	208-230V & 460V	1860, 2120	Black
24712302	Heater 288V 2100W	575V	1440, 1650	Black, Red
24712003	Heater 288V 1550W	575V	1860, 2120	Red
23307101	Heater Clip	—	1440 - 2120	—

Cabinet Sheet Metal

Air Defrost Model Size	Electric, Hot Gas Defrost Model Size	Drain Pan*	Side Panel	Left Back Panel (Refrig. conn.)
520,630	400, 450, 480, 550	40402006	40834902	40834702
750,850	560,640,650,740	40401806	40834902	40834702
930,1100	710,810,840,950	40401406	40834902	40834702
1170,1400	890,1020,1050,1200	40402106	40868202	40868102
1610	1220, 1390	40402106	40846502	40846402
1900, 2160	1440, 1650	40410406	40858402	40858602
2200, 2500	—	40410704	40858202	40858502
2440,2780	1860, 2120	40410704	40858402	40858602

* includes provisions to mount drain pan heaters.

Miscellaneous Components

Part Number	Description
4131-Y	Room thermostat
4267-W	Defrost termination and fan delay thermostat adjustable type
5893-Q	Defrost termination thermostat adjustable type
5708-L	Heater limit thermostat

Note: Contact factory for hot gas defrost components not listed.

Drain Pan Defrost Heaters

Part Number	Description	Unit Voltage	Model Size	Wire Lead Color Code
24711301	Heater 230V 1050W	208-230V & 460V	400,450,480,550	Black
24711302	Heater 230V 1350W	208-230V & 460V	560,640,650,740	Black
24710305	Heater 230V 2000W	208-230V & 460V	710,810,840,890,950,1020 1050,1200,1220,1390	Black
24710306	Heater 230V 2100W	208-230V & 460V	1440, 1650	Black
24711402	Heater 230V 1550W	208-230V & 460V	1860, 2120	Black
24711901	Heater 288V 1050W	575V	400,450,480,550	Black, Red
24711902	Heater 288V 1350W	575V	560,640,650,740	Black, Red
24711105	Heater 575V 2000W	575V	710,810,840,890,950,1020 1050,1200,1220,1390	Black , Red
24711106	Heater 575V 2100W	575V	1440, 1650	Black , Red
24712002	Heater 288W 1550W	575V	1860, 2120	Red

Standard Nozzle Selections

Standard Nozzle Selections

TYPE	No.of Fans	Distributor Tube		Model	No.of Circuits	HFC-404A Nozzle*	HCFC-22 Nozzle
		OD	Length				
Air Defrost	2	3/16	25.5	520	14	E-4	E-2-1/2
	2	3/16	25.5	630	14	E-5	E-3
	3	3/16	25.5	750	21	C-6	C-4
	3	3/16	25.5	850	28	C-6	C-4
	4	3/16	25.5	930	21	C-8	C-4
	4	3/16	25.5	1100	28	C-10	C-5
	3	3/16	28	1170	25	C-10	C-5
	3	3/16	28	1400	34	A-12	A-8
	3	3/16	21.5	1610	19 x 2	C-6 x 2	C-4 x 2
	3	1/4	32	1900	24	C-17	C-12
	3	1/4	32	2160	19	C-20	C-12
	4	1/4	32	2200	21	C-20	C-12
	4	1/4	32	2440	32	A-20	A-15
	4	1/4	32	2500	21	C-20	C-15
4	1/4	32	2780	24	C-25	C-17	
Electric Defrost	2	3/16	25.5	400 / 450	14	E-5	E-3
	2	3/16	25.5	480 / 550	14	E-8	E-4
	3	3/16	25.5	560 / 640	21	C-8	C-5
	3	3/16	25.5	650 / 740	28	C-10	C-5
	4	3/16	25.5	710 / 810	21	C-12	C-6
	4	3/16	25.5	840 / 950	28	C-15	C-8
	3	3/16	28	890 / 1020	25	C-15	C-8
	3	3/16	28	1050 / 1200	34	A-17	A-10
	3	3/16	21.5	1220 / 1390	19 x 2	C-10 x 2	C-5 x 2
	3	1/4	32	1440 / 1650	24	C-20	C-17
4	1/4	32	1860 / 2120	32	A-30	A-20	
Hot Gas Defrost	2	3/16	25.5	400 / 450	14	E-5	E-3
	2	3/16	25.5	480 / 550	14	E-6	E-4
	3	3/16	25.5	560 / 640	21	C-8	C-5
	3	3/16	25.5	650 / 740	28	C-10	C-5
	4	3/16	25.5	710 / 810	21	C-12	C-6
	4	3/16	25.5	840 / 950	28	C-12	C-8
	3	3/16	28	890 / 1020	25	C-15	C-10
	3	3/16	28	1050 / 1200	34	A-17	A-12
	3	3/16	21.5	1220 / 1390	19 x 2	C-10 x 2	C-4 x 2
	3	5/16	19.5	1440 / 1650	16 x 2	C-12 x 2	C-8 x 2
4	5/16	19.5	1860 / 2120	16 x 2	C-15 x 2	C-10 x 2	

* also suitable for HFC-507, CFC-502, HFC-134a, HCFC-401A, HCFC-402A.

Nozzles sized for 90-100F liquid temp. at expansion valve. Refer to I & M manual if liquid temp. is not 90-100F. Consult factory or representative if evaporator TD is not 10-15F, (room temp - saturated suction temp). Consult factory or representative for electric and hot gas defrost models when used at a saturated suction temperature greater than 0°F.

CAUTION: REFRIGERATION SYSTEM WILL NOT PERFORM PROPERLY WITHOUT CORRECT NOZZLE!

Visit our web site at www.heatcraftprd.com for Technical Literature Online.

*Since product improvement is a continuing effort at Heatcraft,
we reserve the right to make changes in specifications without notice.*



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