

Reliability

Bulletin CC-B-16B

August 2004

(Replaces Bulletin CC-B-16A, 10/02)

Quality
CLIMATE CONTROL
Climate Control

Low Profile Unit Cooler **3,500 To 37,000 BTUH**

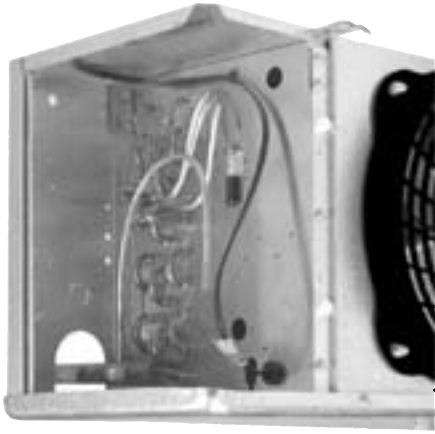


Model LSC - Air Defrost

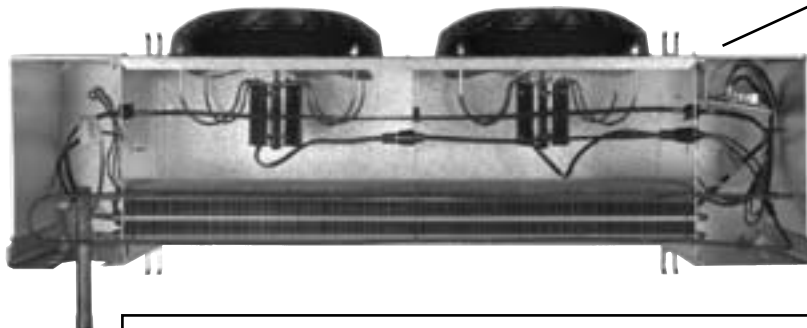
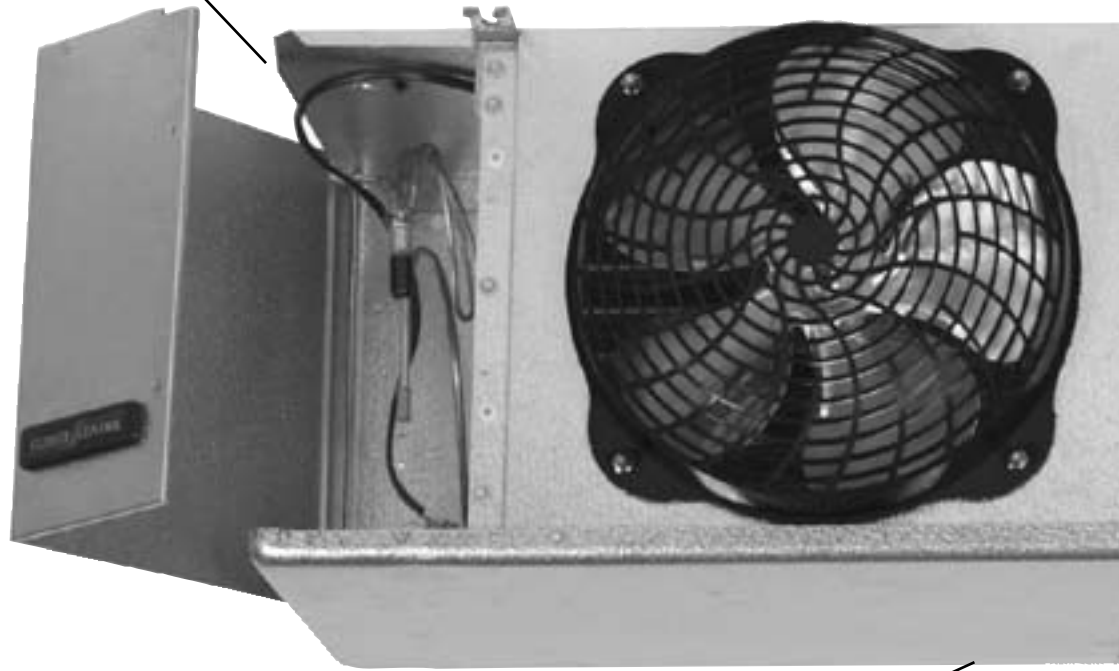
Model LSF/LFF - Electric Defrost

Model LSH - Hot Gas Defrost

CLIMATE CONTROL



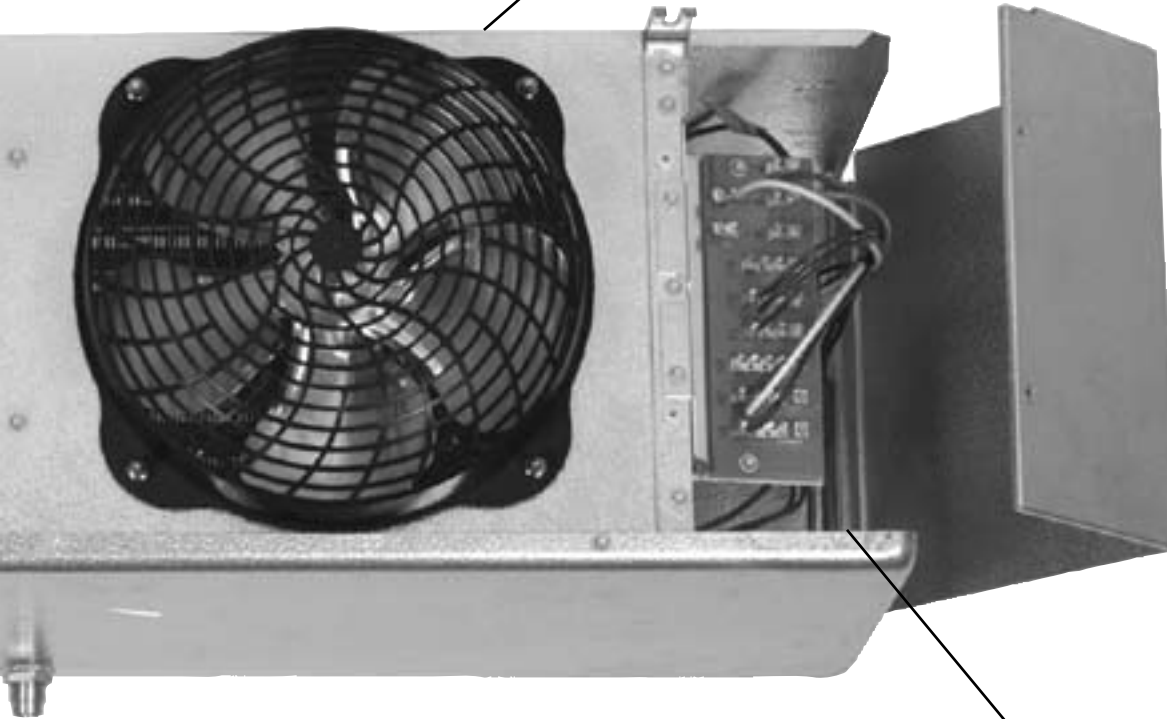
Front access to refrigeration components. Hanger bars are now located on the inside of the cabinet and powder coated for corrosion protection.



Motor harness and solenoid harness are easier to access from the bottom of the coil. The drain pan heater is located on the bottom of the coil, which allows the drain pan to be removed without the removal of the heater. The drain pan heater also extends into the end panels for more heat in the side panel cavities.



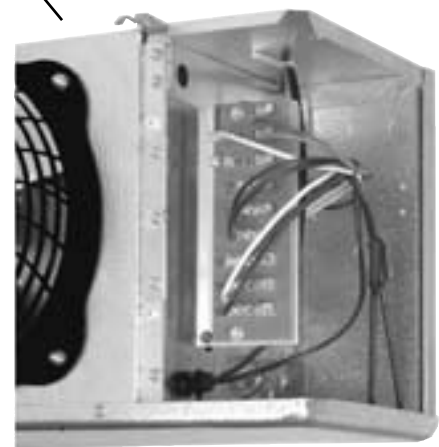
Improved plastic black guard design, (wire guard available as an option).



ALSO CLASSIFIED AS A COMPONENT IN ACCORDANCE WITH NSF 7 - 1999



Improved drain pan design. Drain pan hole is now located to the back of the drain pan and is larger in diameter 3/4" ID (3/4" MPT drain line fitting).



Front facing electric board for easy access. Optimized space in end panels.

Low Profile Unit Coolers 3,500 to 37,000 BTUH Air, Electric and Hot Gas Defrost

New capacities include: 3,500, 4,100, 4,700, 6,800, 7,000, 8,000, 10,200, 13,600, 17,000, 20,000, 20,400, 23,500 BTUH

Standard Features and Benefits

Cabinet:

- Extended model and capacity offerings to better match with Climate Control condensing units.
- New cabinet design features easy front access to electrical and refrigeration components.
- Smaller physical cabinet size with interior optimized space.
- Panels are isolated for quiet operation.
- Schrader valve on suction header
- Hanger bars are located inside the cabinet and are powder coated for corrosion protection.
- On 4-6 fan models, lanyards are included as a drain pan holder.
- The electric board is front-facing for easy access.
- Liquid line solenoid wire harness
- Pre-drilled holes on the back of the unit for room thermostat and controls.

Heaters and Coil:

- Internally enhanced tubing and fin design for higher efficiency.
- Coil heater slots have been enlarged.
- Reduced heater wattages.
- Hot gas loop on bottom of coil for easier access.
- Fixed defrost termination, adjustable for hot gas.
- Heater Safety Limit

Guards and Motors:

- Improved plastic black guard design.
- Motor harness and solenoid harness are at the bottom of the unit for easy access.
- Motor harness easily plugs in.

Drain Pan:

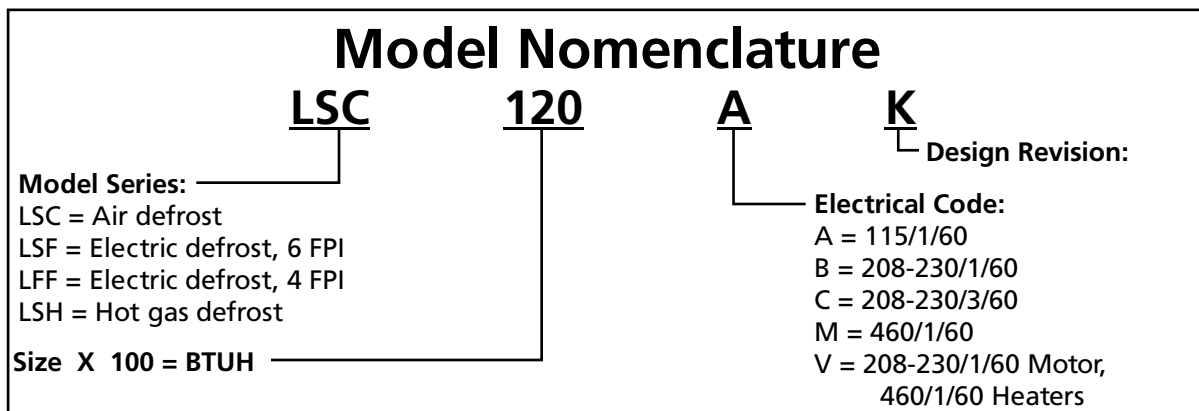
- Improved drain pan design.
- Drain hole is located to the back of the unit with larger diameter - 3/4" ID. (3/4" MPT)
- Drain pan heater is located at the bottom of the coil for easier access.
- Extended drain pan heaters for more heat in the end compartments.
- Drain pan heater design allows for more contact with coil and drain pan.

New Options:

- Totally enclosed PSC 115/1/60, 208-230/1/60 and 460/1/60 volt motors.
- 460/1/60 PSC motors.
- Beacon II™ compatible, board mounts inside the refrigeration access panel.



PSC Motors are an Energy Solutions option and are optimized to help you save money by increasing energy efficiency.



LSC Air Defrost Models 60 Hz. with Shaded Pole Motors

LSC Model Size	Capacity BTUH / Watts 10°F TD/ 6°C TD +25°F SST/-4°C SST		Fan Data			Shaded Pole Motor Data (Total Amps)/Watts				
			CFM / m ³ H	No.	HP	115/		208-230/ 1/60/ Watts		
						1/60/ Watts	1/60/ Watts			
LSC 040	4,000	1,170	730	1,240	1	1/15	1.8	116	1.0	122
LSC 052	5,200	1,520	700	1,189	1	1/15	1.8	116	1.0	122
LSC 065	6,500	1,900	650	1,104	1	1/15	1.8	116	1.0	122
LSC 070	7,000	2,050	1,460	2,481	2	1/15	3.6	232	2.0	244
LSC 090	9,000	2,640	1,400	2,379	2	1/15	3.6	232	2.0	244
LSC 104	10,400	3,050	1,400	2,379	2	1/15	3.6	232	2.0	244
LSC 120	12,000	3,500	1,300	2,209	2	1/15	3.6	232	2.0	244
LSC 130	13,000	3,810	1,300	2,209	2	1/15	3.6	232	2.0	244
LSC 140	14,000	4,100	2,100	3,568	3	1/15	5.4	348	3.0	366
LSC 156	15,600	4,570	2,100	3,568	3	1/15	5.4	348	3.0	366
LSC 180	18,000	5,270	1,950	3,313	3	1/15	5.4	348	3.0	366
LSC 208	20,800	6,100	2,800	4,758	4	1/15	7.2	464	4.0	488
LSC 260	26,000	7,620	3,250	5,522	5	1/15	9.0	580	5.0	610
LSC 312	31,200	9,140	3,900	6,627	6	1/15	10.8	696	6.0	732
LSC 370	37,000	10,840	3,900	6,627	6	1/15	10.8	696	6.0	732

LSC Air Defrost Models 60 Hz. with PSC Motors



LSC Model Size	Capacity BTUH / Watts 10°F TD/ 6°C TD +25°F SST/-4°C SST		Fan Data			PSC, PSC-TE Motor Data (Total Amps)/Watts						
			CFM / m ³ H	No.	HP	115/		460/ 1/60/ Watts				
						1/60/ Watts	208-230/ 1/60/ Watts					
LSC 040	4,000	1,170	730	1,240	1	1/15	1.0	82	0.5	91	0.4	117
LSC 052	5,200	1,520	700	1,189	1	1/15	1.0	82	0.5	91	0.4	117
LSC 065	6,500	1,900	650	1,104	1	1/15	1.0	82	0.5	91	0.4	117
LSC 070	7,000	2,050	1,460	2,481	2	1/15	2.0	164	1.0	182	0.8	234
LSC 090	9,000	2,640	1,400	2,379	2	1/15	2.0	164	1.0	182	0.8	234
LSC 104	10,400	3,050	1,400	2,379	2	1/15	2.0	164	1.0	182	0.8	234
LSC 120	12,000	3,500	1,300	2,209	2	1/15	2.0	164	1.0	182	0.8	234
LSC 130	13,000	3,810	1,300	2,209	2	1/15	2.0	164	1.0	182	0.8	234
LSC 140	14,000	4,100	2,100	3,568	3	1/15	3.0	246	1.5	273	1.2	351
LSC 156	15,600	4,570	2,100	3,568	3	1/15	3.0	246	1.5	273	1.2	351
LSC 180	18,000	5,270	1,950	3,313	3	1/15	3.0	246	1.5	273	1.2	351
LSC 208	20,800	6,100	2,800	4,758	4	1/15	4.0	328	2.0	364	1.6	468
LSC 260	26,000	7,620	3,250	5,522	5	1/15	5.0	410	2.5	455	2.0	585
LSC 312	31,200	9,140	3,900	6,627	6	1/15	6.0	492	3.0	546	2.4	702
LSC 370	37,000	10,840	3,900	6,627	6	1/15	6.0	492	3.0	546	2.4	702

LSF/LFF Electric Defrost Models 60 Hz. with Shaded Pole Motors

LSF/LFF Model Size	Capacity BTUH / Watts 10°F / 6°C TD -20°F / -29°C SST		Fan Data		Shaded Pole Motor Data (Total Amps)/Watts		Defrost Heaters (Total Amps)					
			CFM / m ³ H	No.	HP	208-230/ 1/60 Watts	Watts	230/ 1/60	230/ 3/60	460/ 1/60		
6 FPI Models												
LSF 035	3,500	1,025	700	1,189	1	1/15	1.0	122	900	3.9	2.3	2.0
LSF 040	4,000	1,170	700	1,189	1	1/15	1.0	122	900	3.9	2.3	2.0
LSF 047	4,700	1,380	650	1,104	1	1/15	1.0	122	900	3.9	2.3	2.0
LSF 065	6,500	1,900	1,400	2,379	2	1/15	2.0	244	1800	7.8	4.5	3.9
LSF 075	7,500	2,200	1,300	2,209	2	1/15	2.0	244	1800	7.8	4.5	3.9
LSF 090	9,000	2,640	1,300	2,209	2	1/15	2.0	244	1800	7.8	4.5	3.9
LSF 120	12,000	3,520	2,100	3,568	3	1/15	3.0	366	2700	11.7	6.8	5.9
LSF 140	14,000	4,100	1,950	3,313	3	1/15	3.0	366	2700	11.7	6.8	5.9
LSF 160	16,000	4,690	2,600	4,418	4	1/15	4.0	488	3600	15.7	9.0	7.8
LSF 180	18,000	5,280	2,600	4,418	4	1/15	4.0	488	3600	15.7	9.0	7.8
LSF 200	20,000	5,860	3,250	5,522	5	1/15	5.0	610	4500	19.6	11.3	9.8
LSF 240	24,000	7,030	3,900	6,627	6	1/15	6.0	732	5400	23.5	13.6	11.7
LSF 280	28,000	8,200	3,900	6,627	6	1/15	6.0	732	5400	23.5	13.6	11.7
4 FPI Models												
LFF 041	4,100	1,200	690	1,172	1	1/15	1.0	122	900	3.9	2.3	2.0
LFF 068	6,800	2,000	1,380	2,345	2	1/15	2.0	244	1800	7.8	4.5	3.9
LFF 080	8,000	2,340	1,380	2,345	2	1/15	2.0	244	1800	7.8	4.5	3.9
LFF 102	10,200	2,990	2,170	3,687	3	1/15	3.0	366	2700	11.7	6.8	5.9
LFF 136	13,600	3,990	2,760	4,690	4	1/15	4.0	488	3600	15.7	9.0	7.8
LFF 170	17,000	4,980	3,450	5,862	5	1/15	5.0	610	4500	19.6	11.3	9.8
LFF 204	20,400	5,980	4,140	7,035	6	1/15	6.0	732	5400	23.5	13.6	11.7
LFF 235	23,500	6,880	4,140	7,035	6	1/15	6.0	732	5400	23.5	13.6	11.7

Capacity Correction Factors For Electric and Hot Gas Defrost Units

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



LSF/LFF Electric Defrost Models 60 Hz. with PSC Motors

LSF/LFF Model Size	Capacity BTUH / Watts 10°F / 6°C TD -20°F / -29°C SST		Fan Data		PSC, PSE-TE			Defrost Heaters (Total Amps)						
					Motor Data (Amps/Watts)			Watts	230/ 1/60	230/ 3/60	460/ 1/60			
			HP	208-230/ 1/60 Watts	460/ 1/60 Watts									
6 FPI Models														
LSF 035	3,500	1,025	700	1,189	1	1/15	0.5	91	0.4	117	900	3.9	2.3	2.0
LSF 040	4,000	1,170	700	1,189	1	1/15	0.5	91	0.4	117	900	3.9	2.3	2.0
LSF 047	4,700	1,380	650	1,104	1	1/15	0.5	91	0.4	117	900	3.9	2.3	2.0
LSF 065	6,500	1,900	1,400	2,379	2	1/15	1.0	182	0.8	234	1800	7.8	4.5	3.9
LSF 075	7,500	2,200	1,300	2,209	2	1/15	1.0	182	0.8	234	1800	7.8	4.5	3.9
LSF 090	9,000	2,640	1,300	2,209	2	1/15	1.0	182	0.8	234	1800	7.8	4.5	3.9
LSF 120	12,000	3,520	2,100	3,568	3	1/15	1.5	273	1.2	351	2700	11.7	6.8	5.9
LSF 140	14,000	4,100	1,950	3,313	3	1/15	1.5	273	1.2	351	2700	11.7	6.8	5.9
LSF 160	16,000	4,690	2,600	4,418	4	1/15	2.0	364	1.6	468	3600	15.7	9.0	7.8
LSF 180	18,000	5,280	2,600	4,418	4	1/15	2.0	364	1.6	468	3600	15.7	9.0	7.8
LSF 200	20,000	5,860	3,250	5,522	5	1/15	2.5	455	2.0	585	4500	19.6	11.3	9.8
LSF 240	24,000	7,030	3,900	6,627	6	1/15	3.0	546	2.4	702	5400	23.5	13.6	11.7
LSF 280	28,000	8,200	3,900	6,627	6	1/15	3.0	546	2.4	702	5400	23.5	13.6	11.7
4 FPI Models														
LFF 041	4,100	1,200	690	1,172	1	1/15	0.5	91	0.4	117	900	3.9	2.3	2.0
LFF 068	6,800	2,000	1,380	2,345	2	1/15	1.0	182	0.8	234	1800	7.8	4.5	3.9
LFF 080	8,000	2,340	1,380	2,345	2	1/15	1.0	182	0.8	234	1800	7.8	4.5	3.9
LFF 102	10,200	2,990	2,170	3,687	3	1/15	1.5	273	1.2	351	2700	11.7	6.8	5.9
LFF 136	13,600	3,990	2,760	4,690	4	1/15	2.0	364	1.6	468	3600	15.7	9.0	7.8
LFF 170	17,000	4,980	3,450	5,862	5	1/15	2.5	455	2.0	585	4500	19.6	11.3	9.8
LFF 204	20,400	5,980	4,140	7,035	6	1/15	3.0	546	2.4	702	5400	23.5	13.6	11.7
LFF 235	23,000	6,880	4,140	7,035	6	1/15	3.0	546	2.4	702	5400	23.5	13.6	11.7

LSH Hot Gas Defrost Models 60 Hz. with Shaded Pole Motors

LSH Model Size	Capacity BTUH / Watts 10°F / 6°C TD -20°F / -29°C SST		Fan Data		Shaded Pole Motor Data (Total Amps)/Watts			Drain Pan Heater (Total Amps)*					
			CFM / m ³ H	No.	HP	115/ 1/60 Watts		115/ Watts	230/ 1/60	460/ 1/60	1/60		
						208-230/ 1/60 Watts	460/ 1/60 Watts						
6 FPI Models													
LSH 035	3,500	1,025	700	1,189	1	1/15	1.8	116	122	300	2.6	1.3	0.7
LSH 040	4,000	1,170	700	1,189	1	1/15	1.8	116	122	300	2.6	1.3	0.7
LSH 047	4,700	1,380	650	1,104	1	1/15	1.8	116	122	300	2.6	1.3	0.7
LSH 065	6,500	1,900	1,400	2,379	2	1/15	3.6	232	244	600	5.2	2.6	1.3
LSH 075	7,500	2,200	1,300	2,209	2	1/15	3.6	232	244	600	5.2	2.6	1.3
LSH 090	9,000	2,640	1,300	2,209	2	1/15	3.6	232	244	600	5.2	2.6	1.3
LSH 120	12,000	3,520	2,100	3,568	3	1/15	5.4	348	366	900	7.8	3.9	2.0
LSH 140	14,000	4,100	1,950	3,313	3	1/15	5.4	348	366	900	7.8	3.9	2.0
LSH 160	16,000	4,690	2,600	4,418	4	1/15	7.2	464	488	1,200	10.4	5.2	2.6
LSH 180	18,000	5,280	2,600	4,418	4	1/15	7.2	464	488	1,200	10.4	5.2	2.6
LSH 200	20,000	5,860	3,250	5,522	5	1/15	9.0	580	610	1,500	13.0	6.5	3.3
LSH 240	24,000	7,030	3,900	6,627	6	1/15	10.8	696	732	1,800	15.7	7.8	3.9
LSH 280	28,000	8,200	3,900	6,627	6	1/15	10.8	696	732	1,800	15.7	7.8	3.9
4 FPI Models													
LSH 041	4,100	1,200	690	1,172	1	1/15	1.8	116	122	300	2.6	1.3	0.7
LSH 068	6,800	2,000	1,380	2,345	2	1/15	3.6	232	244	600	5.2	2.6	1.3
LSH 080	8,000	2,340	1,380	2,345	2	1/15	3.6	232	244	600	5.2	2.6	1.3
LSH 102	10,200	2,990	2,170	3,687	3	1/15	5.4	348	366	900	7.8	3.9	2.0
LSH 136	13,600	3,990	2,760	4,690	4	1/15	7.2	464	488	1,200	10.4	5.2	2.6
LSH 170	17,000	4,980	3,450	5,862	5	1/15	9.0	580	610	1,500	13.0	6.5	3.3
LSH 204	20,400	5,980	4,140	7,035	6	1/15	10.8	696	732	1,800	15.7	7.8	3.9
LSH 235	23,500	6,880	4,140	7,035	6	1/15	10.8	696	732	1,800	15.7	7.8	3.9

* Optional with electric drain pan.



LSH Hot Gas Defrost Models 60 Hz. with PSC Motors

LSH Model Size	Capacity BTUH / Watts 10°F / 6°C TD -20°F / -29°C SST		Fan Data		PSC Motor Data (Total Amps)/Watts				Drain Pan Heater (Total Amps)					
			CFM / m ³ H	No.	HP	115/ 1/60 Watts		460/ 1/60 Watts		Watts	115/ 1/60	230/ 1/60	460/ 1/60	
						208-230/ 1/60 Watts	460/ 1/60 Watts							
6 FPI Models														
LSH 035	3,500	1,025	700	1,189	1	1/15	1.0	82	91	117	300	2.6	1.3	0.7
LSH 040	4,000	1,170	700	1,189	1	1/15	1.0	82	91	117	300	2.6	1.3	0.7
LSH 047	4,700	1,380	650	1,104	1	1/15	1.0	82	91	117	300	2.6	1.3	0.7
LSH 065	6,500	1,900	1,400	2,379	2	1/15	2.0	164	182	234	600	5.2	2.6	1.3
LSH 075	7,500	2,200	1,300	2,209	2	1/15	2.0	164	182	234	600	5.2	2.6	1.3
LSH 090	9,000	2,640	1,300	2,209	2	1/15	2.0	164	182	234	600	5.2	2.6	1.3
LSH 120	12,000	3,520	2,100	3,568	3	1/15	3.0	246	273	351	900	7.8	3.9	2.0
LSH 140	14,000	4,100	1,950	3,313	3	1/15	3.0	246	273	351	900	7.8	3.9	2.0
LSH 160	16,000	4,690	2,600	4,418	4	1/15	4.0	328	364	468	1,200	10.4	5.2	2.6
LSH 180	18,000	5,280	2,600	4,418	4	1/15	4.0	328	364	468	1,200	10.4	5.2	2.6
LSH 200	20,000	5,860	3,250	5,522	5	1/15	5.0	410	455	585	1,500	13.0	6.5	3.3
LSH 240	24,000	7,030	3,900	6,627	6	1/15	6.0	492	546	702	1,800	15.7	7.8	3.9
LSH 280	28,000	8,200	3,900	6,627	6	1/15	6.0	492	546	702	1,800	15.7	7.8	3.9
4 FPI Models														
LSH 041	4,100	1,200	690	1,172	1	1/15	1.0	82	91	117	300	2.6	1.3	0.7
LSH 068	6,800	2,000	1,380	2,345	2	1/15	2.0	164	182	234	600	5.2	2.6	1.3
LSH 080	8,000	2,340	1,380	2,345	2	1/15	2.0	164	182	234	600	5.2	2.6	1.3
LSH 102	10,200	2,990	2,170	3,687	3	1/15	3.0	246	273	351	900	7.8	3.9	2.0
LSH 136	13,600	3,990	2,760	4,690	4	1/15	4.0	328	364	468	1,200	10.4	5.2	2.6
LSH 170	17,000	4,980	3,450	5,862	5	1/15	5.0	410	455	585	1,500	13.0	6.5	3.3
LSH 204	20,400	5,980	4,140	7,035	6	1/15	6.0	492	546	702	1,800	15.7	7.8	3.9
LSH 235	23,500	6,880	4,140	7,035	6	1/15	6.0	492	546	702	1,800	15.7	7.8	3.9

* Optional with electric drain pan.

LSC Air Defrost Models 50 Hz. with PSC Motors

LSC Model Size	Capacity BTUH / Watts 6°C TD -4°C SST		Fan Data			PSC Motor Data (Amps/Watts)						
			CFM / m ³ H	No.	HP	110/ 1/50 Watts	220/ 1/50 Watts	380/ 1/50 Watts				
LSC 040	3,800	1,112	670	1,117	1	1/15	1.0	68	0.5	65	0.4	82
LSC 052	4,940	1,445	630	1,070	1	1/15	1.0	68	0.5	65	0.4	82
LSC 065	6,175	1,807	586	995	1	1/15	1.0	68	0.5	65	0.4	82
LSC 070	6,650	1,946	1,315	2,234	2	1/15	2.0	136	1.0	130	0.8	164
LSC 090	8,550	2,502	1,260	2,142	2	1/15	2.0	136	1.0	130	0.8	164
LSC 104	9,880	2,891	1,260	2,142	2	1/15	2.0	136	1.0	130	0.8	164
LSC 120	11,400	3,335	1,170	1,989	2	1/15	2.0	136	1.0	130	0.8	164
LSC 130	12,350	3,613	1,170	1,989	2	1/15	2.0	136	1.0	130	0.8	164
LSC 140	13,300	3,891	1,891	3,213	3	1/15	3.0	204	1.5	195	1.2	246
LSC 156	14,820	4,336	1,891	3,213	3	1/15	3.0	204	1.5	195	1.2	246
LSC 180	17,100	5,003	1,756	2,984	3	1/15	3.0	204	1.5	195	1.2	246
LSC 208	19,760	5,781	2,521	4,284	4	1/15	4.0	272	2.0	260	1.6	328
LSC 260	24,700	7,226	2,927	4,973	5	1/15	5.0	340	2.5	325	2.0	410
LSC 312	29,640	8,672	3,512	5,967	6	1/15	6.0	408	3.0	390	2.4	492
LSC 370	35,150	10,284	3,512	5,967	6	1/15	6.0	408	3.0	390	2.4	492

LSF/LFF Electric Defrost Models 50 Hz. with PSC Motors



LSF/LFF Model Size	Capacity BTUH / Watts 6°C TD -29°C SST		Fan Data		PSC Motor Data (Amps/Watts)				Defrost Heaters (Total Amps)					
			CFM / m ³ H	No.	HP	220/ 1/50 Watts	380 1/50 Watts	Watts	220/ 1/50	220/ 3/50	380/ 1/50			
6 FPI Models														
LSF 035	3,325	974	630	1,070	1	1/15	0.5	65	0.4	82	823	3.7	2.2	1.6
LSF 040	3,800	1,113	630	1,070	1	1/15	0.5	65	0.4	82	823	3.7	2.2	1.6
LSF 047	4,465	1,308	586	995	1	1/15	0.5	65	0.4	82	823	3.7	2.2	1.6
LSF 065	6,175	1,809	1,260	2,142	2	1/15	1.0	130	0.8	164	1647	7.5	4.3	3.2
LSF 075	7,125	2,087	1,170	1,989	2	1/15	1.0	130	0.8	164	1647	7.5	4.3	3.2
LSF 090	8,550	2,504	1,170	1,989	2	1/15	1.0	130	0.8	164	1647	7.5	4.3	3.2
LSF 120	11,400	3,339	1,891	3,213	3	1/15	1.5	195	1.2	246	2470	11.2	6.5	4.9
LSF 140	13,300	3,896	1,756	2,984	3	1/15	1.5	195	1.2	246	2470	11.2	6.5	4.9
LSF 160	15,200	4,452	2,341	3,978	4	1/15	2.0	260	1.6	328	3294	15.0	8.6	6.5
LSF 180	17,100	5,009	2,341	3,978	4	1/15	2.0	260	1.6	328	3294	15.0	8.6	6.5
LSF 200	19,000	5,565	2,927	4,973	5	1/15	2.5	325	2.0	410	4117	18.7	10.8	8.1
LSF 240	22,800	6,678	3,512	5,967	6	1/15	3.0	390	2.4	492	4941	22.5	13.0	9.7
LSF 280	26,600	7,791	3,512	5,967	6	1/15	3.0	390	2.4	492	4941	22.5	13.0	9.7
4 FPI Models														
LFF 041	3,895	1,141	621	1,056	1	1/15	0.5	65	0.4	82	823	3.7	2.2	1.6
LFF 068	6,460	1,892	1,243	2,111	2	1/15	1.0	130	0.8	164	1647	7.5	4.3	3.2
LFF 080	7,600	2,226	1,243	2,111	2	1/15	1.0	130	0.8	164	1647	7.5	4.3	3.2
LFF 102	9,690	2,838	1,954	3,320	3	1/15	1.5	195	1.2	246	2470	11.2	6.5	4.9
LFF 136	12,920	3,784	2,485	4,223	4	1/15	2.0	260	1.6	328	3294	15.0	8.6	6.5
LFF 170	16,150	4,731	3,107	5,279	5	1/15	2.5	325	2.0	410	4117	18.7	10.8	8.1
LFF 204	19,380	5,677	3,128	6,334	6	1/15	3.0	390	2.4	492	4941	22.5	13.0	9.7
LFF 235	22,325	6,539	3,728	6,334	6	1/15	3.0	390	2.4	492	4941	22.5	13.0	9.7

LSH Hot Gas Defrost Models 50 Hz. with PSC Motors

LSH Model Size	Capacity BTUH / Watts 6°C TD -29°C SST	Fan Data		PSC, PSC-TE Motor Data (Amps/Watts)			Defrost Heaters (Total Amps)*						
		CFM / m³H	No.	HP	110/ 1/50 Watts	220/ 1/50 Watts	380 1/50 Watts	Watts	110/ 1/50	220/ 3/50	380/ 1/50*		
6 FPI Models													
LSH 035	3,325 974	630 1,070	1	1/15	1.0 68	0.5 65	0.4 82	275	2.5	1.3	0.6		
LSH 040	3,800 1,113	630 1,070	1	1/15	1.0 68	0.5 65	0.4 82	275	2.5	1.3	0.6		
LSH 047	4,465 1,308	586 995	1	1/15	1.0 68	0.5 65	0.4 82	275	2.5	1.3	0.6		
LSH 065	6,175 1,809	1,260 2,142	2	1/15	2.0 136	1.0 130	0.8 164	549	5.0	2.5	1.1		
LSH 075	7,125 2,087	1,170 1,989	2	1/15	2.0 136	1.0 130	0.8 164	549	5.0	2.5	1.1		
LSH 090	8,550 2,504	1,170 1,989	2	1/15	2.0 136	1.0 130	0.8 164	549	5.0	2.5	1.1		
LSH 120	11,400 3,339	1,891 3,213	3	1/15	3.0 204	1.5 195	1.2 246	823	7.5	3.7	1.6		
LSH 140	13,300 3,896	1,756 2,984	3	1/15	3.0 204	1.5 195	1.2 246	823	7.5	3.7	1.6		
LSH 160	15,200 4,452	2,341 3,978	4	1/15	4.0 272	2.0 260	1.6 328	1098	10.0	5.0	2.2		
LSH 180	17,100 5,009	2,341 3,978	4	1/15	4.0 272	2.0 260	1.6 328	1098	10.0	5.0	2.2		
LSH 200	19,000 5,565	2,927 4,973	5	1/15	5.0 340	2.5 325	2.0 410	1372	12.5	6.2	2.7		
LSH 240	22,800 6,678	3,512 5,967	6	1/15	6.0 408	3.0 390	2.4 492	1649	15.0	7.5	3.2		
LSH 280	26,600 7,791	3,512 5,967	6	1/15	6.0 408	3.0 390	2.4 492	1649	15.0	7.5	3.2		
4 FPI Models													
LSH 041	3,895 1,141	621 1,056	1	1/15	1.0 68	0.5 65	0.4 82	275	2.5	1.3	0.6		
LSH 068	6,460 1,892	1,243 2,111	2	1/15	2.0 136	1.0 130	0.8 164	549	5.0	2.5	1.1		
LSH 080	7,600 2,226	1,243 2,111	2	1/15	2.0 136	1.0 130	0.8 164	549	5.0	2.5	1.1		
LSH 102	9,690 2,838	1,954 3,320	3	1/15	3.0 204	1.5 195	1.2 246	823	7.5	3.7	1.6		
LSH 136	12,920 3,784	2,485 4,223	4	1/15	4.0 272	2.0 260	1.6 328	1098	10.0	5.0	2.2		
LSH 170	16,150 4,731	3,107 5,279	5	1/15	5.0 340	2.5 325	2.0 410	1372	12.5	6.2	2.7		
LSH 204	19,380 5,677	3,728 6,334	6	1/15	6.0 408	3.0 390	2.4 492	1649	15.0	7.5	3.2		
LSH 235	22,325 6,539	3,728 6,334	6	1/15	6.0 408	3.0 390	2.4 492	1649	15.0	7.5	3.2		

* Optional with electric drain pan.

Air Defrost Physical Data

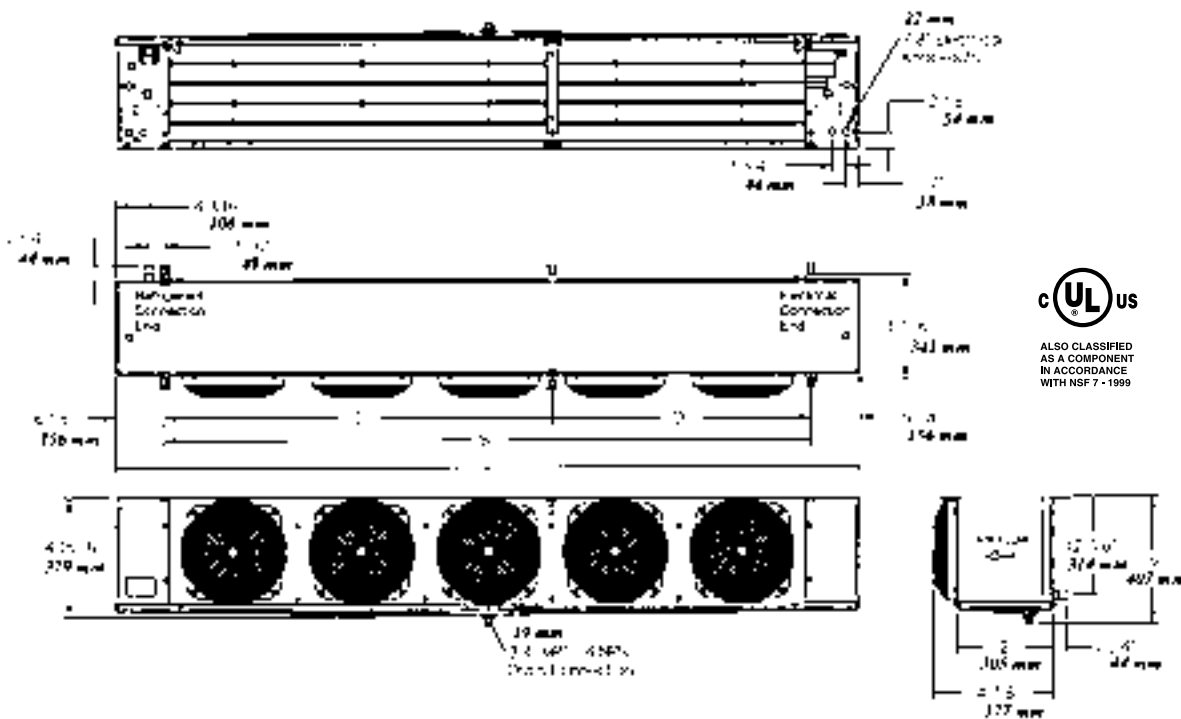
LSC Model Size	No. of Fans	Connections (Inches)				Approx. Net Wt. Lbs / kg
		Coil Inlet	Suction	External Equalizer	Drain	
LSC 040	1	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	28 13
LSC 052	1	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	31 15
LSC 065	1	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	34 16
LSC 070	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	45 21
LSC 090	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	48 22
LSC 104	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	49 23
LSC 120	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	51 24
LSC 130	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	53 25
LSC 140	3	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	63 29
LSC 156	3	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	67 31
LSC 180	3	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	69 32
LSC 208	4	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	82 38
LSC 260	5	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	103 47
LSC 312	6	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	124 57
LSC 370	6	1/2 OD	1 3/8 ID	1/4 OD	3/4 MPT	127 58

Electric Defrost Physical Data

LSF/LFF Model Size	No. of Fans	Connections (Inches)				Approx. Net Wt. Lbs / kg
		Coil Inlet	Suction	External Equalizer	Drain	
6 FPI Models						
LSF 035	1	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	24 11
LSF 040	1	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	26 12
LSF 047	1	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	29 14
LSF 065	2	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	43 20
LSF 075	2	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	45 21
LSF 090	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	48 22
LSF 120	3	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	60 28
LSF 140	3	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	62 29
LSF 160	4	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	81 37
LSF 180	4	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	84 39
LSF 200	5	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	101 46
LSF 240	6	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	121 55
LSF 280	6	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	124 57
4 FPI Models						
LFF 041	1	1/2 OD	5/8 ID	1/4 OD	3/4 MPT	28 13
LFF 068	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	44 21
LFF 080	2	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	47 22
LFF 102	3	1/2 OD	7/8 ID	1/4 OD	3/4 MPT	59 27
LFF 136	4	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	80 37
LFF 170	5	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	100 46
LFF 204	6	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	120 55
LFF 235	6	1/2 OD	1 1/8 ID	1/4 OD	3/4 MPT	123 56

Hot Gas Defrost Physical Data

LSH Model Size	No. of Fans	Connections (Inches)						Approx. Net Wt. Lbs / kg
		Coil Inlet	Suction	External Equalizer	Drain	Side Port	Hot Gas Pan Conns.	
6 FPI Models								
LSH 035	1	5/8 ODF	5/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	26 12
LSH 040	1	5/8 ODF	5/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	28 13
LSH 047	1	5/8 ODF	5/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	31 15
LSH 065	2	5/8 ODF	5/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	45 21
LSH 075	2	5/8 ODF	7/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	47 22
LSH 090	2	7/8 ODF	7/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	50 23
LSH 120	3	7/8 ODF	7/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	62 29
LSH 140	3	7/8 ODF	7/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	64 30
LSH 160	4	7/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	83 38
LSH 180	4	1-1/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	86 40
LSH 200	5	1-1/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	103 47
LSH 240	6	1-1/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	123 56
LSH 280	6	1-1/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	126 57
4 FPI Models								
LSH 041	1	5/8 ODF	5/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	30 14
LSH 068	2	5/8 ODF	7/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	46 21
LSH 080	2	5/8 ODF	7/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	49 23
LSH 102	3	7/8 ODF	7/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	61 28
LSH 136	4	7/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	82 38
LSH 170	5	7/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	102 47
LSH 204	6	7/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	122 56
LSH 235	6	1-1/8 ODF	1 1/8 ID	1/4 OD	3/4 MPT	1/2 OD	7/8 OD	125 57



Dimensional Data For All Models

Air Defrost Models	Electric and Hot Gas Defrost Models		No. of Fans	Dimensions (Inches / mm)			
	6 FPI	4 FPI		A	B	C	D
040	035	—	1	29.50 749.3	17.25 438.1	—	—
052	040	—	1	29.50 749.3	17.25 438.1	—	—
065	047	041	1	29.50 749.3	17.25 438.1	—	—
070	—	—	2	45.50 1155.7	33.25 845	—	—
090	065	—	2	45.50 1155.7	33.25 845	—	—
104	—	—	2	45.50 1155.7	33.25 845	—	—
120	075	068	2	45.50 1155.7	33.25 845	—	—
130	090	080	2	45.50 1155.7	33.25 845	—	—
140	120	102	3	61.50 1562.1	49.25 1251	—	—
156	—	—	3	61.50 1562.1	49.25 1251	—	—
180	140	—	3	61.50 1562.1	49.25 1251	—	—
208	160	—	4	77.50 1968.5	65.25 1657	—	—
—	180	136	4	77.50 1968.5	65.25 1657	—	—
260	200	170	5	93.50 2374.9	81.25 2064	48.63 1235.1	32.63 828.7
312	240	204	6	109.50 2781.3	97.25 2470	48.63 1235.1	48.63 1235.1
370	280	235	6	109.50 2781.3	97.25 2470	48.63 1235.1	48.63 1235.1

NOTE: Hanger brackets will accept 3/8" / 9.5 mm hanger rods.

Standard Nozzle Selection

Air Defrost

Fan #	Model	Distributor Tube		# Circuits	R404A	R-22
		OD	Length			
1	040	3/16	15	1	-	-
1	052	3/16	15	1	-	-
1	065	3/16	15	2	L-1/2	L-1/3
2	070	3/16	15	2	L-1/2	L-1/3
2	090	3/16	15	3	L-3/4	L-1/2
2	104	3/16	15	3	L-3/4	L-1/2
2	120	3/16	15	3	L-1	L-3/4
2	130	3/16	15	4	L-1	L-3/4
3	140	3/16	15	4	L-1	L-3/4
3	156	3/16	15	5	L-1 1/2	L-1
3	180	3/16	15	5	L-1 1/2	L-1
4	208	3/16	15	5	L-1 1/2	L-1
5	260	3/16	15	9	L-2	L-1 1/2
6	312	3/16	15	9	L-2 1/2	L-2
6	370	3/16	15	10	L-3	L-2

Electric Defrost

#Fans	Model	Distributor Tube		#Circuits	Low Temp. -30°F to 0°F SST		Medium Temp. +10°F to +25°F SST	
		OD	Length		R404A	R-22	R404A	R-22
6 FPI								
1	035	3/16	15	2	L-1/2	L-1/4	L-1/3	L-1/4
1	040	3/16	15	2	L-1/2	L-1/4	L-1/3	L-1/4
1	047	3/16	15	2	L-1/2	L-1/3	L-1/3	L-1/3
2	065	3/16	15	4	L-3/4	L-1/2	L-1/2	L-1/2
2	075	3/16	15	4	L-1	L-3/4	L-3/4	L-1/2
2	090	3/16	15	5	L-1	L-3/4	L-3/4	L-1/2
3	120	3/16	15	5	L-1 1/2	L-1	L-1	L-3/4
3	140	3/16	15	6	L-1 1/2	L-1	L-1 1/2	L-1
4	160	3/16	15	8	L-2	L-1	L-1 1/2	L-1
4	180	3/16	15	10	L-2	L-1 1/2	L-1 1/2	L-1
5	200	3/16	15	9	L-2 1/2	L-1 1/2	L-2	L-1 1/2
6	240	3/16	15	9	L-2 1/2	L-2	L-2	L-1 1/2
6	280	3/16	15	10	L-3	L-2	L-2 1/2	L-2
4 FPI								
1	041	3/16	15	2	L-1/2	L-1/3	L-1/3	L-1/4
2	068	3/16	15	4	L-3/4	L-1/2	L-1/2	L-1/3
2	080	3/16	15	4	L-1	L-3/4	L-3/4	L-1/2
3	102	3/16	15	5	L-1	L-3/4	L-3/4	L-3/4
4	136	3/16	15	8	L-1 1/2	L-1	L-1	L-3/4
5	170	3/16	15	8	L-2	L-1 1/2	L-1 1/2	L-1
6	204	3/16	15	8	L-2 1/2	L-1 1/2	L-2	L-1 1/2
6	235	3/16	15	10	L-2 1/2	L-2	L-2	L-1 1/2

Hot Gas Defrost

#Fans	Model	Distributor Tube		#Circuits	Low Temp. -30°F to 0°F SST		Medium Temp. +10°F to +25°F SST	
		OD	Length		R404A	R-22	R404A	R-22
6 FPI								
1	035	1/4	15	2	J-1/2	J-1/4	J-1/3	J-1/4
1	040	1/4	15	2	J-1/2	J-1/3	J-1/3	J-1/4
1	047	1/4	15	2	J-3/4	J-1/3	J-1/2	J-1/4
2	065	1/4	15	4	J-1	J-1/2	J-3/4	J-1/3
2	075	1/4	15	4	J-1	J-3/4	J-3/4	J-1/2
2	090	1/4	15	5	G-1 1/2	G-3/4	G-3/4	G-1/2
3	120	1/4	15	5	G-1 1/2	G-1	G-1	G-3/4
3	140	1/4	15	6	G-2	G-1	G-1 1/2	G-1
4	160	1/4	15	8	G-2	G-1 1/2	G-1 1/2	G-1
4	180	1/4	15	10	E-2 1/2	E-1 1/2	E-1 1/2	E-1
5	200	1/4	15	9	E-2 1/2	E-2	E-2	E-1 1/2
6	240	1/4	15	9	E-3	E-2	E-2	E-1 1/2
6	280	1/4	15	10	E-4	E-2 1/2	E-2 1/2	E-2
4 FPI								
1	041	1/4	15	2	J-1/2	J-1/3	J-1/3	J-1/4
2	068	1/4	15	4	J-1	J-1/2	J-3/4	J-1/2
2	080	1/4	15	4	J-1	J-3/4	J-3/4	J-1/2
3	102	1/4	15	5	G-1 1/2	G-3/4	G-1	G-3/4
4	136	1/4	15	8	G-2	G-1	G-1 1/2	G-1
5	170	1/4	15	8	G-2	G-1 1/2	G-1 1/2	G-1
6	204	1/4	15	8	G-2 1/2	G-2	G-2	G-1 1/2
6	235	1/4	15	10	E-3	E-2	E-2	E-1 1/2

Ship Loose				Factory Installed		
TXV Bypass Assembly Kits				TXV Bypass Assembly Kits		
LSH 6 FPI	SQE/SBF	EG	HFESC	SQE/SBF	EG	HFESC
035 - 075	50169210	50169213	50169216	52733701	52733704	52733707
090 - 160	50169211	50169214	50169217	52733702	52733705	52733708
180 - 280	50169212	50169215	50169218	52733703	52733706	52733709
LSH 4 FPI						
041 - 080	50169210	50169213	50169216	52733701	52733704	52733707
102 - 204	50169211	50169214	50169217	52733702	52733705	52733708
235	50169212	50169215	50169218	52733703	52733706	52733709

Ship Loose			Factory Installed	
Drain Pan Loop Check Valve Kit			Suction Line Check Valve Kit	
LSH 6 FPI				
035 - 065	50169304	50169604	52733601	52733801
075 - 140	50169305	50169605	52733602	52733802
160 - 280	50169306	50169606	52733603	52733803
LSH 4 FPI				
041	50169304	50169604	52733601	52733801
068 - 102	50169305	50169605	52733602	52733802
136 - 235	50169306	50169606	52733603	52733803

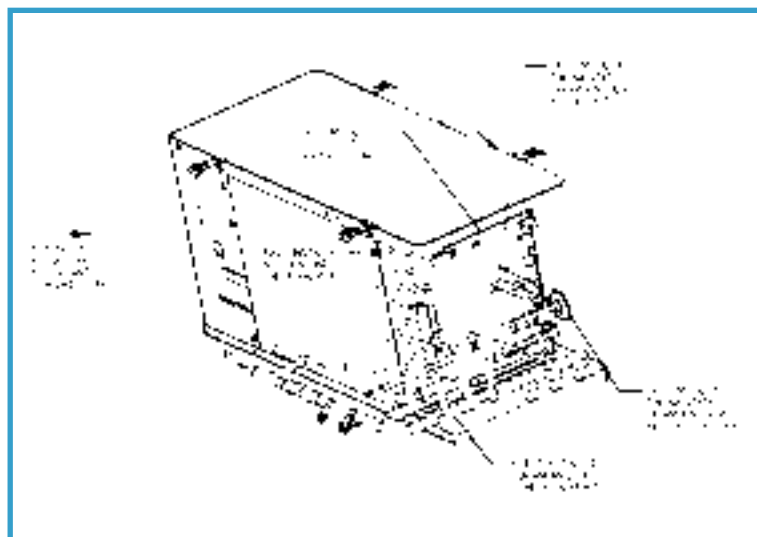
**Recommendation is that both check valve kits are ordered:
(For hot gas models with the hot gas loop drain pan ONLY)**

Note: The drain pan check valve kit can be ordered as an independent item. But the suction line check valve kit must be ordered with the drain pan check valve kit in order to complete the piping.

Note: When using the HOT GAS units on 0°F applications and below, an insulated drain pan is required.

The Hot Gas unit coolers can be used in reverse cycle hot gas defrost systems using multiple evaporators connected to one condensing unit. Generally, not more than one-third of the system defrosts at one time. During the reverse cycle defrost, the reversing valve; located in the compressor discharge line, diverts hot gas through the suction line to the evaporator. See piping view in Figure 1. The suction line check valve directs the hot gas through the drain pan loop which prevents condensate in the pan from freezing. The hot gas exits the loop at the pan loop outlet header and enters the evaporator through the check valve assembly. As the hot gas defrosts the coil, heat is removed from the hot gas and eventually it condenses into a liquid and exits the coil at the distributor sideport. The liquid then flows through the check valve of the thermostatic expansion valve bypass assembly, around the thermostatic expansion valve, and into the system liquid line.

Figure 1 Reverse Cycle Piping



The liquid refrigerant then feeds other evaporators on the cooling cycle, evaporates, and returns to the compressor through their suction lines.

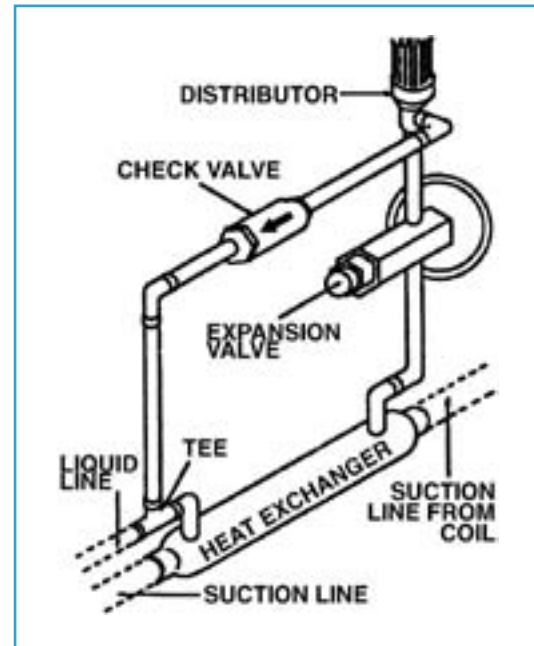
In the refrigeration cycle, the thermostatic expansion valve bypass assembly check valve only allows refrigerant flow through the thermostatic expansion valve and into the evaporator coil. As the refrigerant vapor exits the coil at the suction line, the check valve of the drain pan loop check valve assembly prevents the refrigerant vapor flow through the drain pan loop.

Factory engineered assemblies (kits) are available for both ship loose and factory installed at an additional cost to complete the reverse cycle piping and components. The suction line check valve assembly includes the suction line check valve and the piping for both the suction line and the connection to the drain pan loop inlet header. In order for the suction line check valve assembly to be mounted, the drain pan loop check valve assembly must be used. The drain pan loop check valve assembly includes the check valve, suction line tee and a bent pipe. The thermostatic expansion valve bypass assembly option includes the check valve, tee and necessary piping. In order for the thermostatic expansion valve bypass assembly option to be complete, a thermostatic expansion valve must be selected by the sales engineer. The thermostatic expansion valve bypass assembly option is dependent on the body style of the thermostatic expansion valves which includes the Sporlan SQE, SBF, EG and the Alco HFESC body styles. The factory installed thermostatic expansion valve bypass assembly option must have the thermostatic expansion valve selection included on the order for the Hot Gas unit cooler.

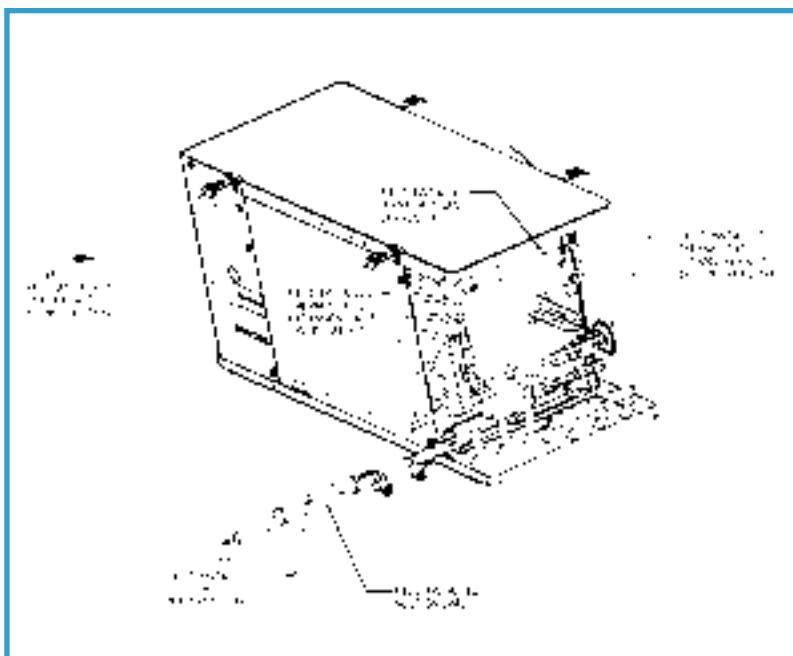
To increase the efficiency, higher performance and greater system protection, a heat exchanger may be beneficial to the system. In order to use a heat exchanger, the thermostatic expansion valve bypass assembly option must be modified. See the piping view in Figure 2. The modification includes rerouting the pipe from the thermostatic expansion valve bypass check valve to the inlet connection of the liquid line to the heat exchanger. A pipe needs to be routed from the liquid line outlet connection of the heat exchanger to the inlet connection of the thermostatic expansion valve.

The electrical control option includes an adjustable defrost termination and fan delay control (DTFD) which is standard. For an additional cost, an optional (2) control electrical system is available with one adjustable control for defrost termination (DT) and one fixed control for the fan delay (FD). For both the DTFD and DT adjustable controls, the remote bulb position is with the bulb strapped to the piping of the thermostatic expansion valve bypass assembly option between the distributor sideport and the check valve. When the thermostatic expansion valve bypass assembly is ship loose, the installer will need to position the remote bulb. When the thermostatic expansion valve bypass assembly is factory installed, the remote bulb should already be properly installed.

Figure 2. Typical Liquid Line Bypass Kit
(Shown assembled and modified for heat exchanger)



The Hot Gas defrost unit cools conforms to the standard 3-pipe hot gas system using a check valve assembly, an electrical control to terminate the defrost, and a hot gas solenoid valve. The check valve assembly transports the hot gas between the drain pan loop and the sideport distributor of the coil. The check valve assembly kit is available for ship loose or factory installed for an additional cost. The electrical control option includes an adjustable defrost termination and fan delay control (DTFD) which is standard. An optional (2) control electrical system is available with one adjustable control for defrost termination (DT) and one fixed control for the fan delay (FD) for an additional cost. For both the DTFD and DT adjustable controls, the remote bulb position is with the bulb strapped to the suction line to insure a complete defrost. The remote bulb is positioned by the installer. The hot gas solenoid valve must be ordered separately and will be ship loose. The thermostatic expansion valve could be ordered separately and ship loose or the thermostatic expansion valve could be factory installed with a liquid line for an additional cost. The liquid line is designed for the body styles of the Sporlan SQE, SBF, EG and the Alco HFESC thermostatic expansion valves. The thermostatic expansion valve needs to be selected by the sales engineer. In a typical 3-pipe, multiple evaporator system, the compressor discharge defrosts the evaporator. The liquid/vapor mixture of refrigerant after defrost, however, returns to the common suction line of the system. In order to provide sufficient re-evaporation of the liquid vapor mixture and sufficient heat for defrost, no more than one-third of the system should be defrosted at one time. Some means of control in the 3-pipe hot gas system should be supplied to regulate the large amount of liquid returning to the compressor, Refrigerant slugging can otherwise damage the compressor.



		Ship Loose			Factory Installed		
		TXV Liquid Line			TXV Liquid Line		
LSH 6 FPI	SQE/SBF	EG	HFESC	SQE/SBF	EG	HFESC	
035 - 075	50169410	50169413	50169416	52733901	52733904	52733907	
090 - 160	50169411	50169414	50169417	52733902	52733905	52733908	
180 - 280	50169412	50169415	50169418	52733903	52733906	52733909	
LSH 4 FPI							
041 - 080	50169410	50169413	50169416	52733901	52733904	52733907	
102 - 204	50169411	50169414	50169417	52733902	52733905	52733908	
235	50169412	50169415	50169418	52733903	52733906	52733909	

For Hot Gas models with the Hot Gas loop drain pan only

When using the HOT GAS units on 0°F applications and below, an insulated drain pan is required.

	Ship Loose	Factory Installed
	Drain Pan Loop Check Valve Kit	Drain Pan Loop Check Valve Kit
LSH 6 FPI		
035 - 075	50169504	52739601
090 - 160	50169505	52739602
180 - 280	50169506	52739603
LSH 4 FPI		
041 - 080	50169504	52739601
102 - 204	50169505	52739602
235	50169506	52739603

Motor / Fan Blade / Fan Guards

Part #	Description	No. Fans
25300101	Motor 115/1/60 Shaded Pole	1 - 6
25300201	Motor 208-230/1/60 Shaded Pole	1 - 6
25309501	Motor 115/1/60/50 Totally Enclosed PSC	1 - 6
25309601	Motor 208-230/1/60/50 Totally Enclosed PSC	1 - 6
25309701	Motor 460/1/60/50 Totally Enclosed PSC	1 - 6
25309801	Motor 208-230/1/60/50 PSC	1 - 6
25308701	Motor 460/1/60/50 PSC	1 - 6
5140C	Fan Blade	1 - 6
37000701	Fan Guard - Molded	1 - 6
37000601	Fan Guard - Wire	1 - 6
23104901	Motor mount used with 115 & 230V motors	1 - 6
23103301	Motor mount used with 460V motors	1 - 6

Cabinet Components

Part #	Description	No. of Fans
40480101	Drain Pan Air & Hot Gas Defrost	1
40480201	Drain Pan Air & Hot Gas Defrost	2
40480301	Drain Pan Air & Hot Gas Defrost	3
40480401	Drain Pan Air & Hot Gas Defrost	4
40480501	Drain Pan Air & Hot Gas Defrost	5
40480601	Drain Pan Air & Hot Gas Defrost	6
40480103	Drain Pan Electric Defrost	1
40480205	Drain Pan Electric Defrost	2
40480305	Drain Pan Electric Defrost	3
40480403	Drain Pan Electric Defrost	4
40480503	Drain Pan Electric Defrost	5
40480603	Drain Pan Electric Defrost	6
40880801	Access Panel - Elect	1 - 6
40880701	Access Panel - Refrig	1 - 6
40880901	Back Panel - Refrig	1 - 6
40881001	Back Panel - Elect	1 - 6
40881201	End Panel - Hot Gas Refrig	1 - 6

Hot Gas Defrost – Electric Drain Pan Option Drain Pan Heater (1 per unit)

Part #	Description	Voltage	No. Fans
24752101	300 W	115/1/60	1
24752102	600 W	115/1/60	2
24752103	900 W	115/1/60	3
24752104	1200 W	115/1/60	4
24752105	1500 W	115/1/60	5
24752106	1800 W	115/1/60	6
24752201	300 W	208-230/1/60	1
24752202	600 W	208-230/1/60	2
24752203	900 W	208-230/1/60	3
24752204	1200 W	208-230/1/60	4
24752205	1500 W	208-230/1/60	5
24752206	1800 W	208-230/1/60	6
24752301	300 W	460/1/60	1
24752302	600 W	460/1/60	2
24752303	900 W	460/1/60	3
24752304	1200 W	460/1/60	4
24752305	1500 W	460/1/60	5
24752306	1800 W	460/1/60	6

Electric Defrost

Part #	Desc.	Voltage	No. Fans
Coil Heater			
24752001	300 W	208-230/1/60	1
24752002	600 W	208-230/1/60	2
24752003	900 W	208-230/1/60	3
24752004	1200 W	208-230/1/60	4
24752005	1500 W	208-230/1/60	5
24752006	1800 W	208-230/1/60	6
Bottom Coil Heater			
24752401	150W	208-230/1/60	1
24752402	300W	208-230/1/60	2
24752403	450W	208-230/1/60	3
24752404	600W	208-230/1/60	4
24752405	750W	208-230/1/60	5
24752406	900W	208-230/1/60	6
Drain Pan Heater			
24752501	150W	208-230/1/60	1
24752502	300W	208-230/1/60	2
24752503	450W	208-230/1/60	3
24752504	600W	208-230/1/60	4
24750205	750W	208-230/1/60	5
24750206	900W	208-230/1/60	6

Electrical Components

Part #	Description	No. Fans
22512601	Terminal Strip	1 - 6
5709L	Defrost Termination / Fan Delay - Klixon type	1 - 6
4267-W	Defrost Termination / Fan Delay - Adjustable type	1 - 6
4131Y	Room Thermostat	1 - 6
5708L	Heater Safety - Klixon type	1 - 6

Drain Fittings

Part #	Description	No. Fans
26914901	Drain Plug	1 - 6
26915101	Drain Nut	1 - 6
5469	Drain Washer	1 - 6

No. Fans	Air Defrost		Electric & Hot Gas	
	6 FPI	6 FPI	4FPI	
1	040-065	035-047	041	
2	070-130	065-090	068-080	
3	140-180	120-140	102	
4	208	160-180	136	
5	260	200	170	
6	312-370	240-280	204-235	



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