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HEATCRAFT™ Worldwide Refrigeration

Low Profile Unit Coolers

Technical Guide

Models LCA | LCE | LCH

LARKIN

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Choose the most energy-efficient motor available for evaporators.

The EC motor is an energy sufficient option on Larkin Low Profile evaporators. Available on all new equipment or as an easy-to-install, drop-in replacement aftermarket part from InterLink™ Commercial Refrigeration Parts. Because they are a drop-in replacement for existing shaded pole and PSC motors, installation is quick and easy. It's a high impact, quick payback solution for reducing costs and achieving green initiatives without replacing the entire system.

EC motors by InterLink are up to 75% energy efficient - that's a 51-59% increase over shaded pole motors and a 30-35% increase over permanent-split capacitor (PSC) motors. With all of this added efficiency, you can count on more energy savings and lower operational costs while taking a step in the right direction toward conserving our planet's resources.

Nomenclature

LCA	120	A	G	B
Model Series	Capacity	Electrical Code	Control Option	Design Revision
LCA = Air defrost	# x 100 = BTUH (R-404A)	A = 115/1/60 (PSC)	G = intelliGen™	
LCA6 = Electric defrost, 6 FPI		B = 208-230/1/60 (PSC)		
LCE4 = Electric defrost, 4 FPI		C = 208-230/3/60 (PSC)		
LCH = Hot gas defrost		M = 460/1/60		
		AE = 115/1/60 (EC)		
		BE = 208-230/1/60 (EC)		
		CE = 208-230/3/60 (EC)		

Features & Benefits

Cabinet

- Cabinet design features front access panels on each side for easy access to electrical and refrigeration components.
- Sweat connections to reduce potential for leaks
- Internal panels are isolated for quiet operation.
- Liquid line solenoid wire harness is factory-installed for quick installation.
- Pre-drilled holes on the back of the unit for room thermostat

Coil

- Internally enhanced tubing and fin design for higher efficiency
- Coil heater slots have been enlarged for easier installation and replacement.
- Reduced heater wattages
- Hot gas loop on bottom of coil for easier access is standard for hot gas defrost models.
- Fixed defrost termination for electric, adjustable defrost termination for hot gas

Controls Options

- intelliGen™ Refrigeration Controller (iRC) units come with factory mounted, tested and calibrated with an electronic expansion valve, pressure transducer, temperature sensors, control board and User Interface. Standard features include Door Sensor, Product Load Input and Alarm Output.
- Optional Field installable intelliGen Webserver Card (iWC) enables local and remote monitoring on any Phone, Tablet or PC.
- Optional Field installable intelliGen Integration Card (iIC) enables connectivity to BACnet and Modbus.
- Quick Response Controller units come factory mounted with an electronic expansion valve, pressure transducer, temperature sensors and control board.
- Beacon II™ units come factory mounted with an electronic expansion valve, pressure transducer, temperature sensors and control board.

Motors

- Motors plug into wiring harness for easier servicing.
- EC motors available factory-installed or as a drop-in replacement through InterLink™ Commercial Refrigeration Parts in 115/1/60, 208-230/1/60 and 208-230/3/60 unit voltages.
- PSC and PSC (Totally Enclosed) motors for 115/1/60, 208-230/1/60 and 460/1/60 unit voltages
- PSC motors or EC motors are suitable for 50 Hz operation.

Drain Pan

- Large diameter drain hole (3/4" ID) is located towards the back of the unit.
- Extended drain pan heaters for more uniform defrost throughout the drain pan and additional heat in end compartments
- On 4-6 fan models, drain pan has a lanyard for easy and safe access.

Other Options

- Units available with factory installed mounted components: Expansion Valve, Mechanical Room Thermostat, Solenoid Valve with Dual Voltage Coil
  - Units available with mounted TXV and mounted TXV with solenoid valve
  - Pre-assembled units come with mounted TXV, liquid line solenoid valve and room thermostat.
  - Available in a master liquid line configuration
  - Pre-charged units come with mounted TXV, liquid line solenoid valve, room thermostat and quick connect fittings.
  - Various room thermostat variations including rear mount and front access versions
- Most models available with glycol circuiting (see glycol product brochure BN-GUCTB)
- Units available with stainless steel housing and drain pan
- Units available with copper fins. Air defrost units also available with polyester coated fins or various coil coatings options.
- Units available with insulated drain pan

Model LCA6 Air Defrost | 60 Hz

Model	Capacity				Fan Data		
	R-404A		R-407A/C/F, R-448A/R-449A		No.	CFM	m^3H
	10˚F TD 25˚F SST	6˚C TD 4˚C SST	10˚F TD 25˚F SST	6˚C TD 4˚C SST			
	BTUH	Watts	BTUH	Watts			
LCA640	4,000	1,200	4,600	1,300	1	730	1,240
LCA651	5,100	1,500	6,100	1,800	1	700	1,189
LCA662	6,200	1,800	7,400	2,200	1	650	1,104
LCA672	7,200	2,100	8,500	2,500	2	1,460	2,481
LCA690	9,000	2,600	10,600	3,100	2	1,400	2,379
LCA6110	11,000	3,200	13,200	3,900	2	1,400	2,379
LCA6135	13,500	4.000	16,000	4,700	3	1,300	2,209
LCA6160	16,000	4,700	19,000	5,600	3	2,100	3,568
LCA6185	18,500	5,400	21,900	6,400	4	2,100	3,568
LCA6215	21,500	6,300	26,100	7,600	4	2,800	4,758
LCA6260	26,000	7,600	30,700	9,000	5	3,250	5,522
LCA6310	31,000	9,100	36,500	10,700	6	3,900	6,627
LCA6350	35,000	10,300	42,000	123,000	6	3,900	6,627

Model LCA6 Air Defrost | 50 Hz †

Model	Capacity				Fan Data		
	R-404A		R-407A/C/F, R-448A/R-449A		No.	CFM	m^3H
	10˚F TD 25˚F SST	6˚C TD -4˚C SST	10˚F TD 25˚F SST	6˚C TD -4˚C SST			
	BTUH	Watts	BTUH	Watts			
LCA640	3,800	1,100	4,400	1,300	1	670	1,117
LCA651	4,940	1,400	5,800	1,700	1	630	1,071
LCA662	6,175	1,800	7,000	2,100	1	586	995
LCA672	6,650	1,900	8,100	2,400	2	1,315	2,234
LCA690	8,550	2,500	10,100	3,000	2	1,260	2,142
LCA6110	9,880	2,900	12,500	3,700	2	1,170	1,989
LCA6135	12,350	3,600	15,200	4,500	3	1,891	3,213
LCA6160	13,300	3,900	18,100	5,300	3	1,756	2,984
LCA6185	14,820	4,300	20,800	6,100	4	2,521	4,284
LCA6215	19,760	5,800	24,800	7,300	4	2,341	3,978
LCA6260	24,700	7,200	29,200	8,600	5	2,927	4,973
LCA6310	29,640	8,700	34,700	10,200	6	3,512	5,967
LCA6350	35,150	10,300	39,900	11,700	6	3,512	5,967

† For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

Model LCA6 Air Defrost | 60 Hz

Model	HP	Shaded Pole Motor				PSC, PSC-TE Motor						EC Motor			
		115/1/60		208-230/1/60		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
LCA640	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59
LCA651	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59
LCA662	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59
LCA672	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118
LCA690	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118
LCA6110	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118
LCA6135	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177
LCA6160	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177
LCA6185	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236
LCA6215	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236
LCA6260	1/15	9.0	580	5.0	610	5.0	410	2.5	455	2.0	585	4.7	285	2.6	295
LCA6310	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354
LCA6350	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354

Model LCA6 Air Defrost | 50 Hz

Model	HP	PSC Motor						EC Motor			
		110/1/50		220/1/50		380/1/50		110/1/50		220/1/50	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
LCA640	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59
LCA651	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59
LCA662	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59
LCA672	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118
LCA690	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118
LCA6110	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118
LCA6135	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177
LCA6160	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177
LCA6185	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236
LCA6215	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236
LCA6260	1/15	5.0	340	2.5	325	2.0	410	4.7	285	2.6	295
LCA6310	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354
LCA6350	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354

Model LCE6/LCE4 Electric Defrost | 60 Hz

	Model	Capacity				Fan Data		
		R-404A		R-407A/C/F, R-448A/R-449A				
		10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H
		BTUH	Watts	BTUH	Watts			
6 Fins Per Inch	LCE635	3,500	1,000	3,900	1,100	1	700	1,189
	LCE643	4,300	1,300	4,900	1,400	1	650	1,104
	LCE665	6,500	1,900	7,200	2,100	2	1,400	2,379
	LCE676	7,600	2,200	8,500	2,500	2	1,300	2,209
	LCE694	9,400	2,800	10,300	3,000	2	1,300	2,209
	LCE6120	12,000	3,500	13,500	4,000	3	2,100	3,568
	LCE6140	14,000	4,100	16,000	4,700	3	1,950	3,313
	LCE6160	16,000	4,700	17,900	5,200	4	2,600	4,418
	LCE6180	18,000	5,300	20,100	5,900	4	2,600	4,418
	LCE6200	20,000	5,900	22,400	6,600	5	3,250	5,522
	LCE6240	24,000	7,000	26,900	7,900	6	3,900	6,627
	LCE6270	27,000	7,900	31,400	9,200	6	3,900	6,627
4 Fins Per Inch	LCE441	4,100	1,200	4,500	1,300	1	690	1,172
	LCE457	5,700	1,700	6,200	1,800	2	1,440	2,447
	LCE467	6,700	2,000	7,400	2,200	2	1,380	2,345
	LCE482	8,200	2,400	9,100	2,700	2	1,380	2,345
	LCE4105	10,500	3,100	11,700	3,400	3	2,170	3,687
	LCE4139	13,900	4,100	15,200	4,500	4	2,760	4,690
	LCE4174	17,400	5,100	19,100	5,600	5	3,450	5,862
	LCE4208	20,800	6,100	23,000	6,700	6	4,140	7,035
	LCE4235	23,500	6,900	25,900	7,600	6	4,140	7,035

Model LCE6/LCE4 Electric Defrost | 50 Hz †

	Model	Capacity				Fan Data		
		R-404A		R-407A/C/F, R-448A/R-449A				
		10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H
		BTUH	Watts	BTUH	Watts			
6 Fins Per Inch	LCE635	3,300	1,000	3,700	1,000	1	630	1,070
	LCE643	4,100	1,200	4,700	1,300	1	585	994
	LCE665	6,200	1,800	6,800	2,000	2	1,260	2,141
	LCE676	7,200	2,100	8,100	2,400	2	1,170	1,988
	LCE694	8,900	2,600	9,800	2,900	2	1,170	1,988
	LCE6120	11,400	3,300	12,800	3,800	3	1,890	3,211
	LCE6140	13,300	3,900	15,200	4,500	3	1,755	2,982
	LCE6160	15,200	4,400	17,000	4,900	4	2,340	3,976
	LCE6180	17,100	5,000	19,100	5,600	4	2,340	3,976
	LCE6200	19,000	5,600	21,300	6,300	5	2,925	4,970
	LCE6240	22,800	6,700	25,600	7,500	6	3,510	5,964
	LCE6270	25,700	7,500	29,800	8,700	6	3,510	5,964
4 Fins Per Inch	LCE441	3,900	1,100	4,300	1,200	1	621	1,055
	LCE457	5,400	1,600	5,900	1,700	2	1,296	2,202
	LCE467	6,400	1,900	7,000	2,100	2	1,242	2,111
	LCE482	7,800	2,300	8,600	2,600	2	1,242	2,111
	LCE4105	10,000	2,900	11,100	3,200	3	1,953	3,318
	LCE4139	13,200	3,900	14,400	4,300	4	2,484	4,221
	LCE4174	16,500	4,800	18,100	5,300	5	3,105	5,276
	LCE4208	19,800	5,800	21,900	6,400	6	3,726	6,332
	LCE4235	22,300	6,500	24,600	7,200	6	3,726	6,332

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

† *For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)*

Model LCE6/LCE4 Electric Defrost | 60 Hz

	Model	HP	Shaded Pole Motor		PSC, PSC-TE Motor				EC Motor		Defrost Heaters			
			208-230/1/60		208-230/1/60		460/1/60		208-230/1/60		Watts	230/1/60	230/3/60	460/1/60
			Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps		
6 Fins Per Inch	LCE635	1/15	1.0	122	0.5	91	0.4	117	0.6	59	900	3.9	2.3	2.0
	LCE643	1/15	1.0	122	0.5	91	0.4	117	0.6	59	900	3.9	2.3	2.0
	LCE665	1/15	2.0	244	1.0	182	0.8	234	1.1	118	1,800	7.8	4.5	3.9
	LCE676	1/15	2.0	244	1.0	182	0.8	234	1.1	118	1,800	7.8	4.5	3.9
	LCE694	1/15	2.0	244	1.0	182	0.8	234	1.1	118	1,800	7.8	4.5	3.9
	LCE6120	1/15	3.0	366	1.5	273	1.2	351	1.6	177	2,700	11.7	6.8	5.9
	LCE6140	1/15	3.0	366	1.5	273	1.2	351	1.6	177	2,700	11.7	6.8	5.9
	LCE6160	1/15	4.0	488	2.0	364	1.6	468	2.1	236	3,600	15.7	9.0	7.8
	LCE6180	1/15	4.0	488	2.0	364	1.6	468	2.1	236	3,600	15.7	9.0	7.8
	LCE6200	1/15	5.0	610	2.5	455	2.0	585	2.6	295	4,500	19.6	11.3	9.8
	LCE6240	1/15	6.0	732	3.0	546	2.4	702	3.1	354	5,400	23.5	13.6	11.7
	LCE6270	1/15	6.0	732	3.0	546	2.4	702	3.1	354	5,400	23.5	13.6	11.7
	LCE441	1/15	1.0	122	0.5	91	0.4	117	0.6	59	900	3.9	2.3	2.0
4 Fins Per Inch	LCE457	1/15	2.0	244	1.0	182	0.8	234	1.1	118	1,800	7.8	4.5	3.9
	LCE467	1/15	2.0	244	1.0	182	0.8	234	1.1	118	1,800	7.8	4.5	3.9
	LCE482	1/15	2.0	244	1.0	182	0.8	234	1.1	118	1,800	7.8	4.5	3.9
	LCE4105	1/15	3.0	366	1.5	273	1.2	351	1.6	177	2,700	11.7	6.8	5.9
	LCE4139	1/15	4.0	488	2.0	364	1.6	468	2.1	236	3,600	15.7	9.0	7.8
	LCE4174	1/15	5.0	610	2.5	455	2.0	585	2.6	295	4,500	19.6	11.3	9.8
	LCE4208	1/15	6.0	732	3.0	546	2.4	702	3.1	354	5,400	23.5	13.6	11.7
	LCE4235	1/15	6.0	732	3.0	546	2.4	702	3.1	354	5,400	23.5	13.6	11.7

Model LCE6/LCE4 Electric Defrost | 50 Hz

	Model	HP	PSC Motor				EC Motor		Defrost Heaters			
			220/1/50		380/1/50		220/1/50		Watts	220/1/50	220/3/50	380/1/50
			Amps	Watts	Amps	Watts	Amps	Watts		Total Amps		
6 Fins Per Inch	LCE635	1/15	0.5	65	0.4	82	0.6	59	823	3.7	2.2	1.6
	LCE643	1/15	0.5	65	0.4	82	0.6	59	823	3.7	2.2	1.6
	LCE665	1/15	1.0	130	0.8	164	1.1	118	1,647	7.5	4.3	3.2
	LCE676	1/15	1.0	130	0.8	164	1.1	118	1,647	7.5	4.3	3.2
	LCE694	1/15	1.0	130	0.8	164	1.1	118	1,647	7.5	4.3	3.2
	LCE6120	1/15	1.5	195	1.2	246	1.6	177	2,470	11.2	6.5	4.9
	LCE6140	1/15	1.5	195	1.2	246	1.6	177	2,470	11.2	6.5	4.9
	LCE6160	1/15	2.0	260	1.6	328	2.1	236	3,294	15.0	8.6	6.5
	LCE6180	1/15	2.0	260	1.6	328	2.1	236	3,294	15.0	8.6	6.5
	LCE6200	1/15	2.5	325	2.0	410	2.6	295	4,117	18.7	10.8	8.1
	LCE6240	1/15	3.0	390	2.4	492	3.1	354	4,941	22.5	13.0	9.7
	LCE6270	1/15	3.0	390	2.4	492	3.1	354	4,941	22.5	13.0	9.7
4 Fins Per Inch	LCE441	1/15	0.5	65	0.4	82	0.6	59	823	3.7	2.2	1.6
	LCE457	1/15	1.0	130	0.8	164	1.1	118	1,647	7.5	4.3	3.2
	LCE467	1/15	1.0	130	0.8	164	1.1	118	1,647	7.5	4.3	3.2
	LCE482	1/15	1.0	130	0.8	164	1.1	118	1,647	7.5	4.3	3.2
	LCE4105	1/15	1.5	195	1.2	246	1.6	177	2,470	11.2	6.5	4.9
	LCE4139	1/15	2.0	260	1.6	328	2.1	236	3,294	15.0	8.6	6.5
	LCE4174	1/15	2.5	325	2.0	410	2.6	295	4,117	18.7	10.8	8.1
	LCE4208	1/15	3.0	390	2.4	492	3.1	354	4,941	22.5	13.0	9.7
	LCE4235	1/15	3.0	390	2.4	492	3.1	354	4,941	22.5	13.0	9.7

Model LCH6/LCH4 Hot Gas Defrost | 60 Hz

	Model	Capacity				Fan Data		
		R-404A		R-407A/C/F, R-448A/R-449A				
		10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H
		BTUH	Watts	BTUH	Watts			
6 Fins Per Inch	LCH635	3,500	1,000	3,900	1,100	1	700	1,189
	LCH643	4,300	1,300	4,900	1,400	1	650	1,104
	LCH665	6,500	1,900	7,200	2,100	2	1,400	2,379
	LCH676	7,600	2,200	8,500	2,500	2	1,300	2,209
	LCH694	9,400	2,800	10,300	3,000	2	1,300	2,209
	LCH6120	12,000	3,500	13,500	4,000	3	2,100	3,568
	LCH6140	14,000	4,100	16,000	4,700	3	1,950	3,313
	LCH6160	16,000	4,700	17,900	5,200	4	2,600	4,418
	LCH6180	18,000	5,300	20,100	5,900	4	2,600	4,418
	LCH6200	20,000	5,900	22,400	6,600	5	3,250	5,522
	LCH6240	24,000	7,000	26,900	7,900	6	3,900	6,627
	LCH6270	27,000	7,900	31,400	9,200	6	3,900	6,627
4 Fins Per Inch	LCE441	4,100	1,200	4,500	1,300	1	690	1,172
	LCE457	5,700	1,700	6,200	1,800	2	1,440	2,447
	LCE467	6,700	2,000	7,400	2,200	2	1,380	2,345
	LCE482	8,200	2,400	9,100	2,700	2	1,380	2,345
	LCE4105	10,500	3,100	11,700	3,400	3	2,170	3,687
	LCE4139	13,900	4,100	15,200	4,500	4	2,760	4,690
	LCE4174	17,400	5,100	19,100	5,600	5	3,450	5,862
	LCE4208	20,800	6,100	23,000	6,700	6	4,140	7,035
	LCE4235	23,500	6,900	25,900	7,600	6	4,140	7,035

Model LCH6/LCH4 Hot Gas Defrost | 50 Hz †

	Model	Capacity				Fan Data		
		R-404A		R-407A/C/F, R-448A/R-449A				
		10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST	No.	CFM	m³H
		BTUH	Watts	BTUH	Watts			
6 Fins Per Inch	LCH635	3,300	1,000	3,700	1,000	1	630	1,070
	LCH643	4,100	1,200	4,700	1,300	1	585	994
	LCH665	6,200	1,800	6,800	2,000	2	1,260	2,141
	LCH676	7,200	2,100	8,100	2,400	2	1,170	1,988
	LCH694	8,900	2,600	9,800	2,900	2	1,170	1,988
	LCH6120	11,400	3,300	12,800	3,800	3	1,890	3,211
	LCH6140	13,300	3,900	15,200	4,500	3	1,755	2,982
	LCH6160	15,200	4,400	17,000	4,900	4	2,340	3,976
	LCH6180	17,100	5,000	19,100	5,600	4	2,340	3,976
	LCH6200	19,000	5,600	21,300	6,300	5	2,925	4,970
	LCH6240	22,800	6,700	25,600	7,500	6	3,510	5,964
	LCH6270	25,700	7,500	29,800	8,700	6	3,510	5,964
4 Fins Per Inch	LCE441	3,900	1,100	4,300	1,200	1	621	1,055
	LCE457	5,400	1,600	5,900	1,700	2	1,296	2,202
	LCE467	6,400	1,900	7,000	2,100	2	1,242	2,111
	LCE482	7,800	2,300	8,600	2,600	2	1,242	2,111
	LCE4105	10,000	2,900	11,100	3,200	3	1,953	3,318
	LCE4139	13,200	3,900	14,400	4,300	4	2,484	4,221
	LCE4174	16,500	4,800	18,100	5,300	5	3,105	5,276
	LCE4208	19,800	5,800	21,900	6,400	6	3,726	6,332
	LCE4235	22,300	6,500	24,600	7,200	6	3,726	6,332

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

† For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

Model LCH6/LCH4 Hot Gas Defrost | 60 Hz

	Model	HP	Shaded Pole Motor				PSC, PSC-TE Motor						EC Motor				Drain Pan Heaters*			
			115/1/60		208-230/1/60		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60		Watts	115/1/60	230/1/60	460/1/60
			Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps		
6 Fins Per Inch	LCH635	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	LCH643	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	LCH665	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	LCH676	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	LCH694	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	LCH6120	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177	900	7.8	3.9	2.0
	LCH6140	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177	900	7.8	3.9	2.0
	LCH6160	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236	1,200	10.4	5.2	2.6
	LCH6180	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236	1,200	10.4	5.2	2.6
	LCH6200	1/15	9.0	580	5.0	610	5.0	410	2.5	455	2.0	585	4.7	285	2.6	295	1,500	13.0	6.5	3.3
	LCH6240	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9
	LCH6270	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9
4 Fins Per Inch	LCH441	1/15	1.8	116	1.0	122	1.0	82	0.5	91	0.4	117	1.1	57	0.6	59	300	2.6	1.3	0.7
	LCH457	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	LCH467	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	LCH482	1/15	3.6	232	2.0	244	2.0	164	1.0	182	0.8	234	2.0	114	1.1	118	600	5.2	2.6	1.3
	LCH4105	1/15	5.4	348	3.0	366	3.0	246	1.5	273	1.2	351	2.9	171	1.6	177	900	7.8	3.9	2.0
	LCH4139	1/15	7.2	464	4.0	488	4.0	328	2.0	364	1.6	468	3.8	228	2.1	236	1,200	10.4	5.2	2.6
	LCH4174	1/15	9.0	580	5.0	610	5.0	410	2.5	455	2.0	585	4.7	285	2.6	295	1,500	13.0	6.5	3.3
	LCH4208	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9
	LCH4235	1/15	10.8	696	6.0	732	6.0	492	3.0	546	2.4	702	5.6	342	3.1	354	1,800	15.7	7.8	3.9

Model LCH6/LCH4 Hot Gas Defrost | 50 Hz

	Model	HP	PSC Motor						EC Motor				Drain Pan Heaters*			
			110/1/50		220/1/50		380/1/50		110/1/50		220/1/50		Watts	110/1/50	220/3/50	380/1/50
			Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps		
6 Fins Per Inch	LCH635	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59	275	2.5	1.3	0.6
	LCH643	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59	275	2.5	1.3	0.6
	LCH665	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	LCH676	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	LCH694	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	LCH6120	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177	823	7.5	3.7	1.6
	LCH6140	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177	823	7.5	3.7	1.6
	LCH6160	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236	1,098	10.0	5.0	2.2
	LCH6180	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236	1,098	10.0	5.0	2.2
	LCH6200	1/15	5.0	340	2.5	325	2.0	410	4.7	285	2.6	295	1,372	12.5	6.2	2.7
	LCH6240	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2
	LCH6270	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2
4 Fins Per Inch	LCH441	1/15	1.0	68	0.5	65	0.4	82	1.1	57	0.6	59	275	2.5	1.3	0.6
	LCH457	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	LCH467	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	LCH482	1/15	2.0	136	1.0	130	0.8	164	2.0	114	1.1	118	549	5.0	2.5	1.1
	LCH4105	1/15	3.0	204	1.5	195	1.2	246	2.9	171	1.6	177	823	7.5	3.7	1.6
	LCH4139	1/15	4.0	272	2.0	260	1.6	328	3.8	228	2.1	236	1,098	10.0	5.0	2.2
	LCH4174	1/15	5.0	340	2.5	325	2.0	410	4.7	285	2.6	295	1,372	12.5	6.2	2.7
	LCH4208	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2
	LCH235	1/15	6.0	408	3.0	390	2.4	492	5.6	342	3.1	354	1,649	15.0	7.5	3.2

** Optional with electric drain pan*

Model LCA6 Air Defrost

Model	No. of Fans	Connections (in.)				Approx. Net Wt.	
		Coil Inlet OD	Suction OD	External Equalizer OD	Drain MPT	lbs.	kg
LCA640	1	1/2	5/8	1/4	3/4	28	13
LCA651	1	1/2	5/8	1/4	3/4	31	15
LCA662	1	1/2	7/8	1/4	3/4	34	16
LCA672	2	1/2	7/8	1/4	3/4	45	21
LCA690	2	1/2	7/8	1/4	3/4	49	23
LCA6110	2	1/2	7/8	1/4	3/4	51	24
LCA6135	3	1/2	7/8	1/4	3/4	67	31
LCA6160	3	1/2	7/8	1/4	3/4	69	32
LCA6185	4	1/2	1-1/8	1/4	3/4	82	38
LCA6215	4	1/2	1-1/8	1/4	3/4	84	39
LCA6260	5	1/2	1-1/8	1/4	3/4	103	47
LCA6310	6	1/2	1-1/8	1/4	3/4	124	57
LCA6350	6	1/2	1-3/8	1/4	3/4	127	58

LCE6/LCE4 Electric Defrost

	Model	No. of Fans	Connections (in.)				Approx. Net Wt.	
			Coil Inlet OD	Suction OD	External Equalizer OD	Drain MPT	lbs.	kg
6 Fins Per Inch	LCE635	1	1/2	5/8	1/4	3/4	24	11
	LCE643	1	1/2	5/8	1/4	3/4	29	14
	LCE665	2	1/2	5/8	1/4	3/4	43	20
	LCE676	2	1/2	7/8	1/4	3/4	45	21
	LCE694	2	1/2	7/8	1/4	3/4	48	22
	LCE6120	3	1/2	7/8	1/4	3/4	60	28
	LCE6140	3	1/2	7/8	1/4	3/4	62	29
	LCE6160	4	1/2	1-1/8	1/4	3/4	81	37
	LCE6180	4	1/2	1-1/8	1/4	3/4	84	39
	LCE6200	5	1/2	1-1/8	1/4	3/4	101	46
	LCE6240	6	1/2	1-1/8	1/4	3/4	121	55
	LCE6270	6	1/2	1-1/8	1/4	3/4	124	57
4 Fins Per Inch	LCE441	1	1/2	5/8	1/4	3/4	28	13
	LCE457	2	1/2	7/8	1/4	3/4	42	19
	LCE467	2	1/2	7/8	1/4	3/4	44	20
	LCE482	2	1/2	7/8	1/4	3/4	47	22
	LCE4105	3	1/2	7/8	1/4	3/4	59	27
	LCE4139	4	1/2	1-1/8	1/4	3/4	80	37
	LCE4174	5	1/2	1-1/8	1/4	3/4	100	46
	LCE4208	6	1/2	1-1/8	1/4	3/4	120	55
	LCE4235	6	1/2	1-1/8	1/4	3/4	123	56

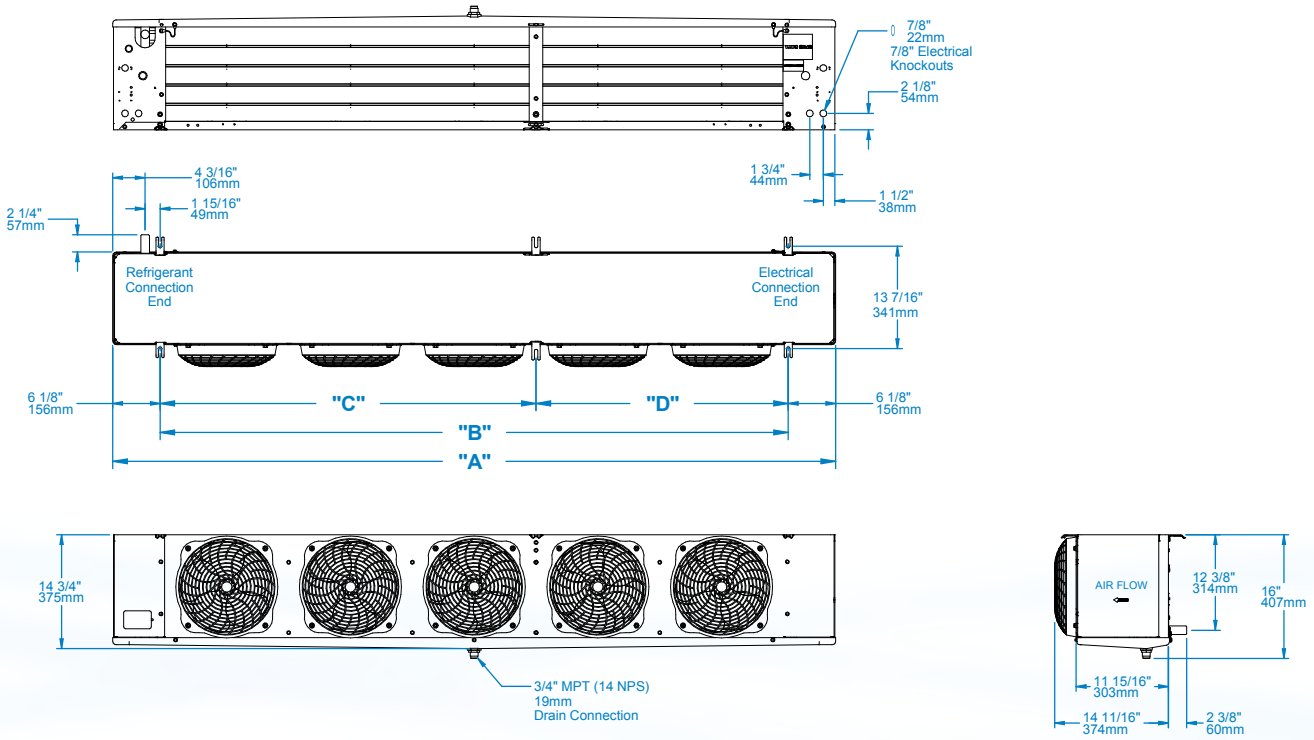
Model LCH6/LCH4 Hot Gas Defrost

	Model	No. of Fans	Connections (in.)					Approx. Net Wt.	
			Coil Inlet OD	Suction OD	External Equalizer OD	Side Port OD	Hot Gas Pan Conns. OD	lbs.	kg
6 Fins Per Inch	LCH635	1	5/8	5/8	1/4	3/8	5/8	26	12
	LCH643	1	5/8	5/8	1/4	3/8	5/8	31	15
	LCH665	2	5/8	5/8	1/4	3/8	5/8	45	21
	LCH676	2	5/8	7/8	1/4	3/8	5/8	47	22
	LCH694	2	7/8	7/8	1/4	3/8	5/8	50	23
	LCH6120	3	7/8	7/8	1/4	3/8	5/8	62	29
	LCH6140	3	7/8	7/8	1/4	3/8	5/8	64	30
	LCH6160	4	7/8	1-1/8	1/4	3/8	5/8	83	38
	LCH6180	4	1-1/8	1-1/8	1/4	3/8	5/8	86	40
	LCH6200	5	1-1/8	1-1/8	1/4	3/8	5/8	103	47
	LCH6240	6	1-1/8	1-1/8	1/4	3/8	5/8	123	56
	LCH6270	6	1-1/8	1-1/8	1/4	3/8	5/8	126	57
4 Fins Per Inch	LCH441	1	5/8	5/8	1/4	3/8	5/8	30	14
	LCH457	2	5/8	7/8	1/4	3/8	5/8	44	20
	LCH467	2	5/8	7/8	1/4	3/8	5/8	46	21
	LCH482	2	5/8	7/8	1/4	3/8	5/8	49	23
	LCH4105	3	7/8	7/8	1/4	3/8	5/8	61	28
	LCH4139	4	7/8	1-1/8	1/4	3/8	5/8	82	38
	LCH4174	5	7/8	1-1/8	1/4	3/8	5/8	102	47
	LCH4208	6	7/8	1-1/8	1/4	3/8	5/8	122	56
	LCH4235	6	1-1/8	1-1/8	1/4	3/8	5/8	125	57

The standard design for the Larkin Low Profile Evaporator incorporates a hot gas loop in the drain pan. Utilizing a hot gas loop is ideal for hot gas defrost applications where high temperature gas can be maintained to defrost both the evaporator drain pan and coil.

For applications where cooler (lower) temperature hot gas is used for defrosting, Bohn offers optional electric heater elements in the drain pan to ensure quick and efficient defrost of the drain pan allowing condensate to drain quickly, saving the hot gas for efficient evaporator coil defrost.

If the optional electric heating element drain pan is preferred, please specify when ordering. There is no additional charge.



Dimensional Data For All Models

Air Defrost Model	Electric and Hot Gas Defrost Model		No. of Fans	Dimensions							
				A		B		C		D	
6FPI	6FPI	4FPI		in	mm	in	mm	in	mm	in	mm
640	-	-	1	29.50	749.3	17.25	438.1	-	-	-	-
651	635	-	1	29.50	749.3	17.25	438.1	-	-	-	-
662	643	441	1	29.50	749.3	17.25	438.1	-	-	-	-
672	-	-	2	45.50	1,155.7	33.25	845	-	-	-	-
-	665	457	2	45.50	1,155.7	33.25	845	-	-	-	-
690	-	-	2	45.50	1,155.7	33.25	845	-	-	-	-
6110	676	467	2	45.50	1,155.7	33.25	845	-	-	-	-
-	694	482	2	45.50	1,155.7	33.25	845	-	-	-	-
-	6120	4105	3	61.50	1,562.1	49.25	1,251	-	-	-	-
6135	-	-	3	61.50	1,562.1	49.25	1,251	-	-	-	-
6160	6140	-	3	61.50	1,562.1	49.25	1,251	-	-	-	-
6185	6160	4139	4	77.50	1,968.5	65.25	1,657	-	-	-	-
6215	6180	4139	4	77.50	1,968.5	65.25	1,657	-	-	-	-
6260	6200	4274	5	93.50	2,374.9	81.25	2,064	48.63	1,235.1	32.63	828.7
6310	6240	4208	6	109.50	2,781.3	97.25	2,470	48.63	1,235.1	48.63	1,235.1
6350	6270	4235	6	109.50	2,781.3	97.25	2,470	48.63	1,235.1	48.63	1,235.1

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

	Shipped-loose			Factory-installed		
	TXV Bypass Assembly Kits			TXV Bypass Assembly Kits		
LCH 6 FPI	**SQE/SBF**	**EG**	**HFESC**	**SQE/SBF**	**EG**	**HFESC**
635-676	50169210	50169213	50169216	52733701	52733704	52733707
694-6160	50169211	50169214	50169217	52733702	52733705	52733708
6180-6270	50169212	50169215	50169218	52733703	52733706	52733709
LCH 4 FPI	**SQE/SBF**	**EG**	**HFESC**	**SQE/SBF**	**EG**	**HFESC**
441-482	50169210	50169213	50169216	52733701	52733704	52733707
4105-4208	50169211	50169214	50169217	52733702	52733705	52733708
4235	50169212	50169215	50169218	52733703	52733706	52733709

	Shipped-loose		Factory-installed	
	Drain Pan Loop Check Valve Kit	Suction Line Check Valve Kit	Drain Pan Loop Check Valve Kit	Suction Line Check Valve Kit
LCH 6 FPI				
635-676	50169304	50169304	52733601	52733801
694-6160	50169305	50169305	52733602	52733802
6180-6270	50169306	50169306	52733603	52733802
LCH 4 FPI				
441-482	50169304	50169304	52733801	52733801
4105-4208	50169305	50169305	52733802	52733802
4235	50169306	50169306	52733802	52733802

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 with a hot gas loop drain pan 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. The liquid refrigerant then feeds other evaporators on the cooling cycle, evaporates, and returns to the compressor through their suction lines.

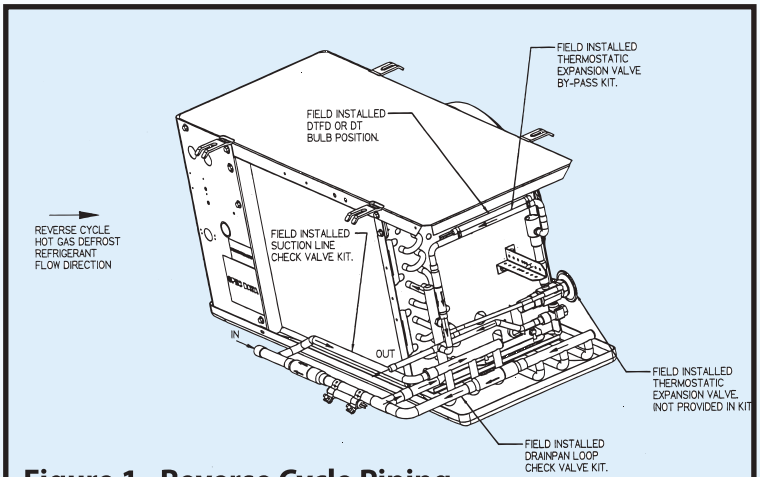


Figure 1. Reverse Cycle Piping

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 shipped-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 Flow Controls 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 shipped-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.

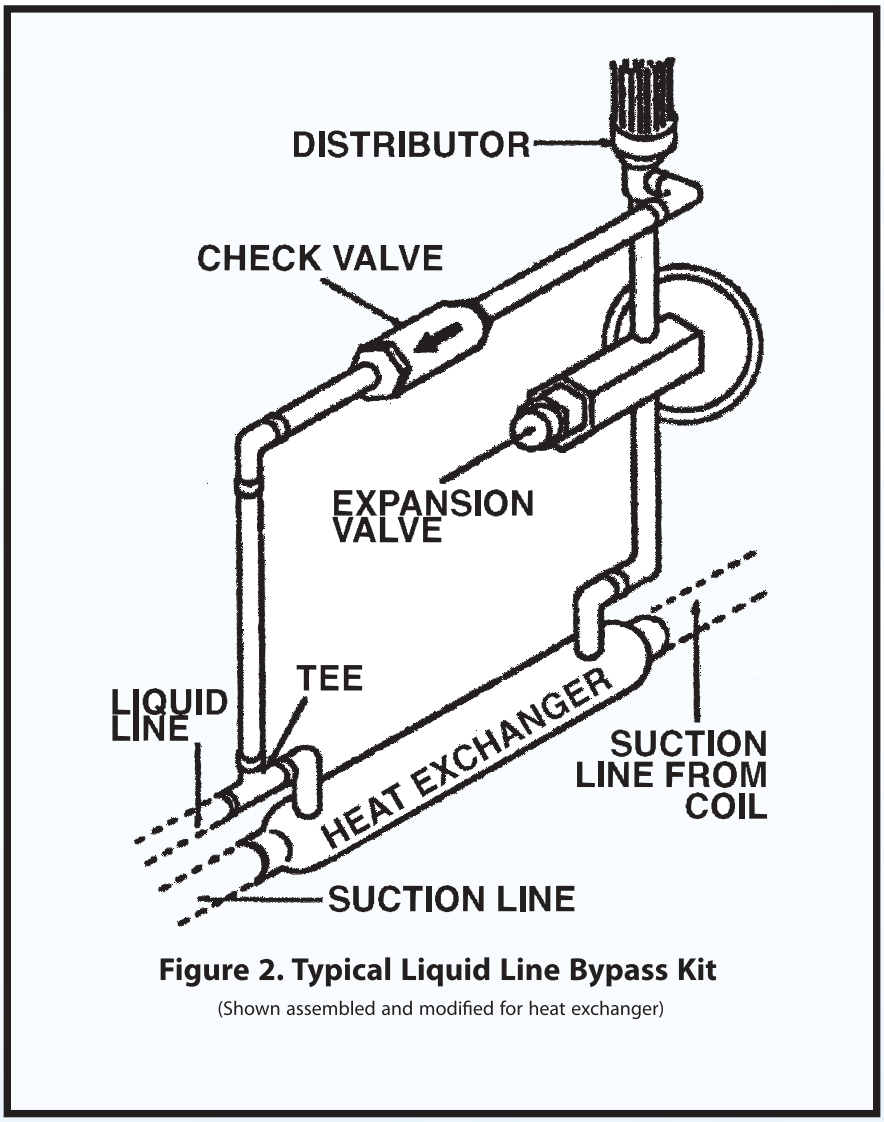


Figure 2. Typical Liquid Line Bypass Kit

(Shown assembled and modified for heat exchanger)

The hot gas defrost unit coolers conform 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 shipped-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 shipped-loose. The thermostatic expansion valve could be ordered separately and shipped-loose or the thermostatic expansion valve could be factory-installed with a liquid line for an additional cost.

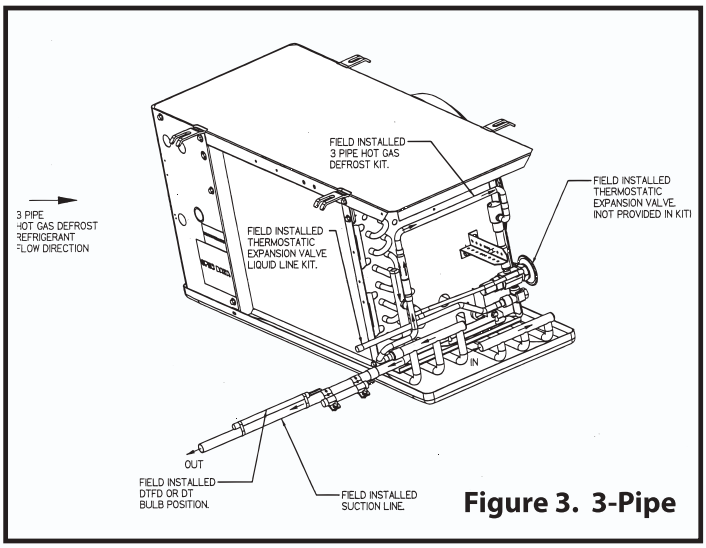


Figure 3. 3-Pipe

The liquid line is designed for the body styles of the Sporlan SQE, SBF, EG and the Flow Controls 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.

	Shipped-loose			Factory-installed		
	TXV Liquid Line			TXV Liquid Line		
LCH 6 FPI	**SQE/SBF**	**EG**	**EG**	**SQE/SBF**	**EG**	**HFESC**
635-676	50169410	50169413	50169416	52733901	52733904	52733907
694-6160	50169411	50169414	50169417	52733902	52733905	52733908
6180-6270	50169412	50169415	50169418	52733903	52733906	52733909
LCH 4 FPI	**SQE/SBF**	**EG**	**EG**	**SQE/SBF**	**EG**	**HFESC**
441-482	50169410	50169413	50169416	52733901	52733904	52733907
4105-4208	50169411	50169414	50169417	52733902	52733905	52733908
4235	50169412	50169415	50169418	52733903	52733906	52733909

For hot gas models with the hot gas loop drain pan only

When using the hot gas units with a hot gas loop drain pan on 0°F applications and below, an insulated drain pan is required.

	Shipped-loose	Factory-installed
	Drain Pan Loop Check Valve Kit	Drain Pan Loop Check Valve Kit
LCH 6 FPI		
635-676	50169504	52739601
694-6160	50169505	52739602
6180-6270	50169506	52739603
LCH 4 FPI		
441-482	50169504	52739601
4105-4208	50169505	52739602
4235	50169506	52739603

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No. Fans	Air Defrost	Electric & Hot Gas Defrost	
	6 FPI	6 FPI	4 FPI
1	640-662	635-643	441
2	672-6110	665-694	457-482
3	6135-6160	6120-6140	4105
4	6185-62215	6160-6180	4139
5	6260	6200	4174
6	6310-6350	6240-6270	4208-4235

Electric Defrost

Part #	Description	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	150 W	208-230/1/60	1
24752402	300 W	208-230/1/60	2
24752403	450 W	208-230/1/60	3
24752404	600 W	208-230/1/60	4
24752405	750 W	208-230/1/60	5
24752406	900 W	208-230/1/60	6
Drain Pan Heater			
24752501	150 W	208-230/1/60	1
24752502	300 W	208-230/1/60	2
24752503	450 W	208-230/1/60	3
24752504	600 W	208-230/1/60	4
24752505	750 W	208-230/1/60	5
24752506	900 W	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
4267W	Defrost Termination/Fan Delay — Adjustable type	1 - 6
2891040	Room Thermostat	1 - 6
5708L	Heater Safety — Klixon type	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

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(110)/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(220)/1/60(50) PSC	1 - 6
25308701	Motor 460(380)/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 & 208-230V motors	1 - 6
23103301	Motor Mount used with 460V motors	1 - 6
25317701	Motor 208-230/1/60 EC	1 - 6
25317801	Motor 115/1/60 EC	1 - 6

Cabinet Components

Part #	Description	No. Fans
40480*02	Painted Drain Pan Air Defrost	–
40481*03	Outer Painted Drain Pan HG	–
40480*01	Inner Drain Pan HG	–
40880802	Access Panel - Electric	1 - 6
40880702	Access Panel - Refrig.	1 - 6
40880902	Back Panel - Refrig.	1 - 6
40881002	Back Panel - Electric	1 - 6
40881202	End Panel - Hot Gas Refrig.	1 - 6
40480*04	Painted Drain Pan - Electric Defrost	–

** 1 for (1) fan, 2 for (2) fans, 3 for (3) fans, 4 for (4) fans, 5 for (5) fans*

Drain Fittings

Part #	Description	No. Fans
26914901	Drain Fitting Kit	1 - 6
50148802	Drain Fitting Elbow - Air	1 - 6
50148804	Drain Fitting Adapter - Air	1 - 6

Model LCA6 Air Defrost

Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	R-404A, R-507A	R-407A, R-407F, R-407C	R-448A, R-449A	R-22*
		OD	Length					
LCA640	1	3/8	6	1	---	---	---	---
LCA651	1	3/8	6	1	---	---	---	---
LCA662	1	3/16	15	2	L-1/2	L-1/2	L-3/4	L-1/3
LCA672	2	3/16	15	2	L-1/2	L-1/2	L-3/4	L-1/3
LCA690	2	3/16	15	3	L-3/4	L-3/4	L-1	L-1/2
LCA6110	2	3/16	15	3	L-3/4	L-3/4	L-1	L-1/2
LCA6135	3	3/16	15	5	L-1	L-1	L-1-1/2	L-3/4
LCA6160	3	3/16	15	5	L-1	L-1	L-1-1/2	L-3/4
LCA6185	4	3/16	15	5	L-1-1/2	L-1-1/2	L2	L-1
LCA6215	4	3/16	15	5	L-1-1/2	L-1-1/2	L2	L-1
LCA6260	5	3/16	15	9	L-2	L-2	L-2-1/2	L-1-1/2
LCA6310	6	3/16	15	9	L-2	L-2	L-3	L-1-1/2
LCA6350	6	3/16	15	10	L-2-1/2	L-2-1/2	L-4	L-2

Model LCE Electric Defrost

	Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	Low Temp. -30°F to 0°F SST -34°C to -18°C SST				Medium Temp. 10°F to 25°F SST -12°C to -4°C SST			
			OD	Length		R-404A, R-507A	R-407A, R-407F, R407C	R-448A, R-449A	R-22*	R-404A, R-507A	R-407A, R-407F, R407C	R-448A, R-449A	R-22*
6 Fins Per Inch	LCE635	1	3/16	15	2	L-1/2	L-1/3	L-1/2	L-1/4	L-1/3	L-1/4	L-1/3	L-1/4
	LCE643	1	3/16	15	2	L-1/2	L-1/2	L-3/4	L-1/3	L-1/3	L-1/3	L-1/2	L-1/4
	LCE665	2	3/16	15	4	L-3/4	L-3/4	L-1	L-1/2	L-1/2	L-1/2	L-3/4	L-1/3
	LCE676	2	3/16	15	4	L-1	L-1	L-1-1/2	L-3/4	L-3/4	L-3/4	L-1	L-1/2
	LCE694	2	3/16	15	5	L-1-1/2	L-1	L-1-1/2	L-3/4	L-3/4	L-3/4	L-1	L-1/2
	LCE6120	3	3/16	15	5	L-1-1/2	L-1-1/2	L-2	L-1	L-1	L-1	L-1-1/2	L-3/4
	LCE6140	3	3/16	15	6	L-2	L-1-1/2	L-2	L-1	L-1-1/2	L-1	L-1-1/2	L-3/4
	LCE6160	4	3/16	15	8	L-2	L-2	L-2-1/2	L-1-1/2	L-1-1/2	L-1-1/2	L-2	L-1
	LCE6180	4	3/16	15	10	L-2-1/2	L-2-1/2	L-3	L-1-1/2	L-1-1/2	L-1-1/2	L-2	L-1
	LCE6200	5	3/16	15	9	L-2-1/2	L-2-1/2	L-3	L-1-1/2	L-2	L-1-1/2	L-2	L-1
	LCE6240	6	3/16	15	9	L-3	L-3	L-4	L-2	L-2	L-2	L-2-1/2	L-1-1/2
	LCE6270	6	3/16	15	10	L-3	L-3	L-4	L-2	L-2-1/2	L-2-1/2	L-3	L-1-1/2
4 Fins Per Inch	LCE441	1	3/16	15	2	L-1/2	L-1/2	L-3/4	L-1/3	L-1/3	L-1/3	L-1/2	L-1/4
	LCE457	2	3/16	15	3	L-3/4	L-3/4	L-1	L-1/2	L-1/2	L-1/2	L-3/4	L-1/3
	LCE467	2	3/16	15	4	L-1	L-3/4	L-1	L-1/2	L-1/2	L-1/2	L-3/4	L-1/3
	LCE482	3	3/16	15	4	L-1	L-1	L-1-1/2	L-3/4	L-3/4	L-3/4	L-1	L-1/2
	LCE4105	4	3/16	15	5	L-1-1/2	L-1	L-1-1/2	L-1	L-1	L-3/4	L-1	L-3/4
	LCE4139	5	3/16	15	8	L-2	L-1-1/2	L-2	L-1	L-1-1/2	L-1	L-1-1/2	L-3/4
	LCE4174	6	3/16	15	8	L-2	L-2	L-2-1/2	L-1-1/2	L-1-1/2	L-1-1/2	L-2	L-1
	LCE4208	6	3/16	15	8	L-2-1/2	L-2-1/2	L-3	L-1-1/2	L-2	L-1-1/2	L-2	L-1-1/2
	LCE4235	6	3/16	15	10	L-3	L-3	L-4	L-2	L-2	L-2	L-2-1/2	L-1-1/2

Note: *Nozzles sized for 90-100°F liquid temperature at expansion valve.*
Contact Application Engineering for guidance if:
- *Liquid temperature is not 90-100°F*
- *Evaporator TD is not 10°-15°F (room temperature – saturated suction temperature)*

**R-22 Nozzles for informational purposes only. Not included with stocking evaporators.*

Caution: *Refrigeration system will not perform properly without correct nozzle!*

Model LCH Hot Gas Defrost

	Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	Low Temp. -30°F to 0°F SST -34°C to -18°C SST				Medium Temp. 10°F to 25°F SST -12°C to -4°C SST			
			OD	Length		R-404A, R-507A	R-407A, R-407F, R407C	R-448A, R-449A	R-22*	R-404A, R-507A	R-407A, R-407F, R407C	R-448A, R-449A	R-22*
6 Fins Per Inch	LCH635	1	1/4	15	2	J-1/2	J-1/2	J-3/4	J-1/4	J-1/3	J-1/4	J-1/3	J-1/4
	LCH643	1	1/4	15	2	J-1/2	J-1/2	J-3/4	J-1/3	J-1/3	J-1/3	J-1/2	J-1/4
	LCH665	2	1/4	15	4	J-1	J-3/4	J-1	J-1/2	J-1/2	J-1/2	J-3/4	J-1/3
	LCH676	2	1/4	15	4	J-1	J-1	J-1-1/2	J-3/4	J-3/4	J-3/4	J-1	J-1/2
	LCH694	2	1/4	15	5	G-1-1/2	G-1-1/2	G-2	G-3/4	G-3/4	G-3/4	G-1	G-1/2
	LCH6120	3	1/4	15	5	G-1-1/2	G-1-1/2	G-2	G-1	G-1	G-1	G-1-1/2	G-3/4
	LCH6140	3	1/4	15	6	G-2	G-2	G-2-1/2	G-1-1/2	G-1-1/2	G-1-1/2	G-1-1/2	G-3/4
	LCH6160	4	1/4	15	8	G-2	G-2	G-2-1/2	G-1-1/2	G-1-1/2	G-1-1/2	G-2	G-1
	LCH6180	4	1/4	15	10	E-2-1/2	E-2-1/2	E-3	E-1-1/2	E-1-1/2	E-1-1/2	E-2	E-1
	LCH6200	5	1/4	15	9	E-2-1/2	E-2-1/2	E-4	E-2	E-2	E-2	E-2-1/2	E-1-1/2
	LCH6240	6	1/4	15	9	E-3	E-3	E-4	E-2	E-2	E-2	E-2-1/2	E-1-1/2
	LCH6270	6	1/4	15	10	E-4	E-4	E-5	E-2-1/2	E-2-1/2	E-2-1/2	E-3	E-1-1/2
4 Fins Per Inch	LCH441	1	1/4	15	2	J-1/2	J-1/2	J-3/4	J-1/3	J-1/3	J-1/3	J-1/2	J-1/4
	LCH457	2	1/4	15	3	J-3/4	J-3/4	J-1	J-1/2	J-1/2	J-1/2	J-3/4	J-1/3
	LCH467	2	1/4	15	4	J-1	J-3/4	J-1	J-1/2	J-3/4	J-1/2	J-3/4	J-1/3
	LCH482	3	1/4	15	4	J-1	J-1	J-1-1/2	J-3/4	J-3/4	J-3/4	J-1	J-1/2
	LCH4105	4	1/4	15	5	G-1-1/2	G-1-1/2	G-2	G-1	G-1	G-1	G-1-1/2	G-3/4
	LCH4139	5	1/4	15	8	G-2	G-2	G-2-1/2	G-1-1/2	G-1-1/2	G-1	G-1-1/2	G-3/4
	LCH4174	6	1/4	15	8	G-2-1/2	G-2-1/2	G-3	G-1-1/2	G-1-1/2	G-1-1/2	G-2	G-1
	LCH4208	6	1/4	15	8	G-3	G-3	G-4	G-2	G-2	G-2	G-2-1/2	G-1-1/2
	LCH4235	6	1/4	15	10	E-3	E-3	E-4	E-2	E-2	E-2	E-2-1/2	G-1-1/2

Note: *Nozzles sized for 90-100°F liquid temperature at expansion valve.*
Contact Application Engineering for guidance if:
- *Liquid temperature is not 90-100°F*
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Notes

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

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