

REFPLUS®

COMMERCIAL WALK-IN COOLERS AND FREEZERS

LSA Models

Ideal for coolers above +34°F

- Low Silhouette, draw through, high velocity units
- Capacity from 4000 to 39000 Btu/hr/10°F.T.D



LSE, LSR and LST Models

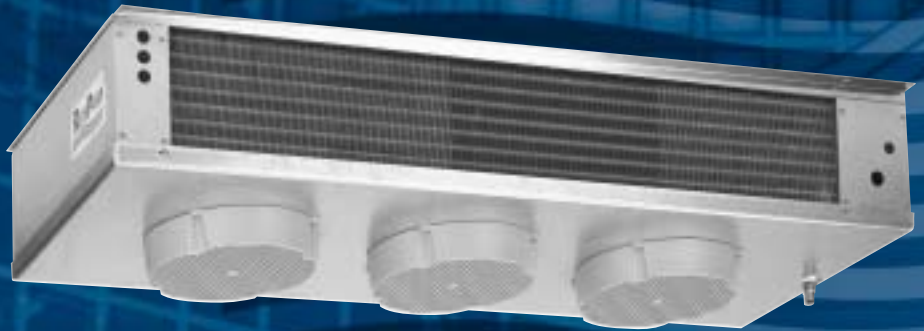
Ideal for coolers and freezers from -20°F to +34°F

- Low Silhouette draw through, high velocity units
- Capacity from 5000 to 36000 Btu/hr/10°F.T.D

LPA Models

Ideal for coolers above +34°F

- Low Profile, blow through, medium velocity units
- Capacity from 6000 to 42000 Btu/hr/10°F.T.D



LPE, LPG & LPH Models

Ideal for coolers above +26°F

- Low Profile, blow through, medium velocity units
- Capacity from 6000 to 42000 Btu/hr/10°F.T.D

LAA Models

Ideal for coolers above +34°F

- Low Air, blow through, low velocity units
- Capacity from 6500 to 45000 Btu/hr/10°F.T.D

LAE, LAG & LAH Models

Ideal for coolers above +26°F

- Low Air, blow through, low velocity units
- Capacity from 6500 to 45000 Btu/hr/10°F.T.D



LOW SILHOUETTE



LSA

APPLICATIONS: COOLERS ABOVE +34°F

AIR DEFROST SPECIFICATIONS

MODEL	CFM	CAPACITY BTUH				ELECTRICAL 120/1/60			R404A, R507 OPERATING CHARGE (lb.)
						FAN MOTOR		FUSE SIZE	
		8°F TD	10°F TD	12°F TD	15°F TD	QTY	FLA		
LSA 0400-1	970	3200	4000	4800	6000	1	1.35	15	0.9
LSA 0540-1	920	4320	5400	6480	8100	1	1.35	15	1.4
LSA 0650-1	870	5200	6500	7800	9750	1	1.35	15	1.8
LSA 0900-1	1700	7200	9000	10800	13500	2	2.70	15	2.1
LSA 1100-1	1600	8800	11000	13200	16500	2	2.70	15	2.8
LSA 1300-1	1720	10400	13000	15600	19500	2	2.70	15	3.4
LSA 1700-1	2760	13600	17000	20400	25500	3	4.05	15	3.8
LSA 2000-1	2680	16000	20000	24000	30000	3	4.05	15	5.1
LSA 2600-1	3440	20800	26000	31200	39000	4	5.40	15	6.7
LSA 3250-1	4300	26000	32500	39000	48750	5	6.75	15	8.3
LSA 3900-1	5160	31200	39000	46800	58500	6	8.10	15	10.0

For 4 fpi multiply capacity by 0.8

Wiring Diagram Figure 1

LSE

APPLICATIONS: COOLERS AND FREEZERS FROM -20°F TO +34°F

ELECTRIC DEFROST SPECIFICATIONS

MODEL	CFM	CAPACITY BTUH 10°F TD				FAN MOTOR		DEFROST HEATERS						R404A, R507 OPERATING CHARGE (lb.)
						240/1/60		240/1/60			208/3/60			
		-30°F	-20°F	0°F	+20°F	QTY	FLA	KW	FLA	FUSE	KW	FLA	FUSE	
LSE 0500-2	920	4050	4250	4625	5000	1	0.65	0.96	4.0	15	0.96	2.7	15	1.9
LSE 0600-2	880	4860	5100	5550	6000	1	0.65	0.96	4.0	15	0.96	2.7	15	2.6
LSE 0800-2	1640	6480	6800	7400	8000	2	1.30	1.50	6.3	15	1.50	4.2	15	2.9
LSE 1000-2	1700	8100	8500	9250	10000	2	1.30	1.50	6.3	15	1.50	4.2	15	3.9
LSE 1200-2	1760	9720	10200	11100	12000	2	1.30	1.92	8.0	15	1.92	5.3	15	4.8
LSE 1500-2	2760	12150	12750	13875	15000	3	1.95	2.88	12.0	15	2.88	8.0	15	5.3
LSE 1800-2	2640	14580	15300	16650	18000	3	1.95	2.88	12.0	15	2.88	8.0	15	7.1
LSE 2400-2	3520	19440	20400	22200	24000	4	2.60	3.84	16.0	20	3.84	10.7	15	9.4
LSE 3000-2	4400	24300	25500	27750	30000	5	3.25	4.80	20.0	25	4.80	13.3	20	11.6
LSE 3600-2	5280	29160	30600	33300	36000	6	3.90	5.76	24.0	30	5.76	16.0	20	13.9

For 4 fpi multiply capacity by 0.85

Wiring Diagram Figure 3

LSR, LST

APPLICATIONS: COOLERS AND FREEZERS FROM -20°F TO +34°F

GAS DEFROST SPECIFICATIONS

MODEL	CFM	CAPACITY BTUH 10°F TD				ELECTRICAL 120/1/60			R404A, R507 OPERATING CHARGE (lb.)
						FAN MOTOR		FUSE SIZE	
		-30°F	-20°F	0°F	+20°F	QTY	FLA		
LS(R)(T) 0500-1	950	4050	4250	4625	5000	1	1.35	15	1.4
LS(R)(T) 0600-1	910	4860	5100	5550	6000	1	1.35	15	1.8
LS(R)(T) 0800-1	1750	6480	6800	7400	8000	2	2.70	15	2.1
LS(R)(T) 1000-1	1880	8100	8500	9250	10000	2	2.70	15	2.8
LS(R)(T) 1200-1	1820	9720	10200	11100	12000	2	2.70	15	3.4
LS(R)(T) 1500-1	2820	12150	12750	13875	15000	3	4.05	15	3.8
LS(R)(T) 1800-1	2730	14580	15300	16650	18000	3	4.05	15	5.1
LS(R)(T) 2400-1	3640	19440	20400	22200	24000	4	5.40	15	6.7
LS(R)(T) 3000-1	4550	24300	25500	27750	30000	5	6.75	15	8.3
LS(R)(T) 3600-1	5460	29160	30600	33300	36000	6	8.10	15	10.0

For 4 fpi multiply capacity by 0.85

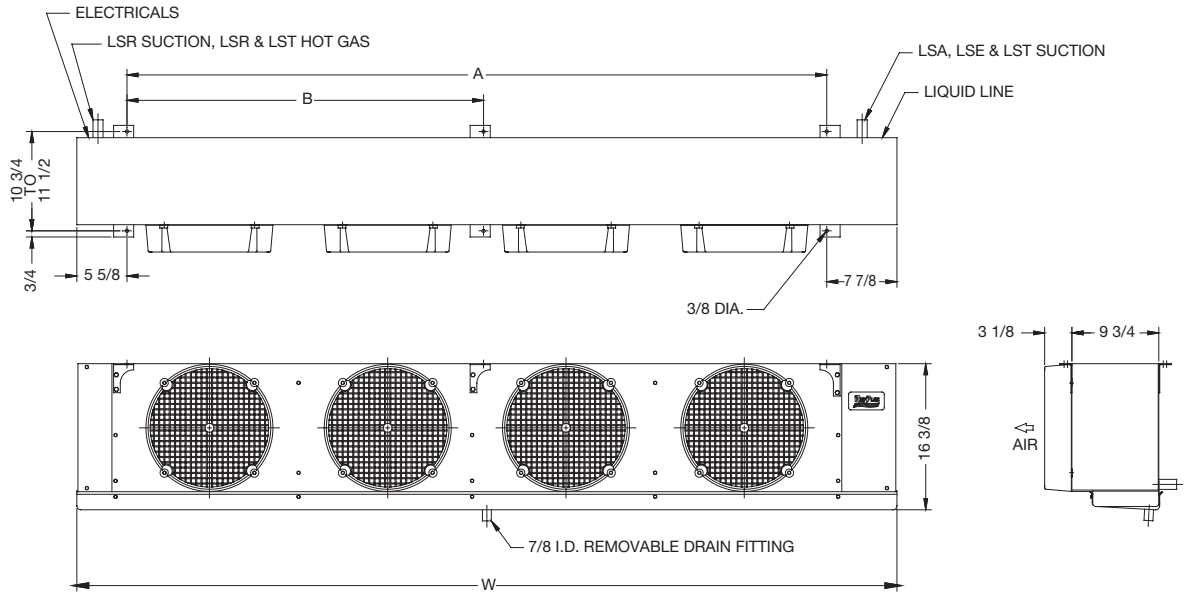
Wiring Diagram Figure 2

Use LSR model for reverse cycle defrost with gas drain pan (piping diagram Figure 5)

Use LST model for three pipe defrost with gas drain pan (piping diagram Figure 6)

Notes Operating charges are based on 30% liquid and 70% vapor at 25°F suction.
Fan motor heat is not included in rating, add 342 BTUH (100W) per fan motor to room load.

Use suffix 1 for 120/1/60 and suffix 2 for 240/1/60.
For 200-240/1/50 use suffix 2 and multiply capacity by 0.92.
For R134a or R-22 refrigerant charge multiply R-404A by 1.09.
Air throw for LS Series is 25 to 35 ft.



LS SERIES

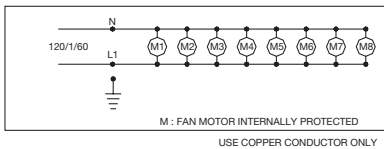
APPLICATIONS: COOLERS AND FREEZERS FROM -20°F TO +34°F

ELECTRIC DEFROST SPECIFICATIONS

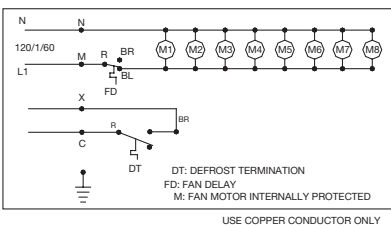
MODEL	SHIPPING WEIGHT (lb.)	MODEL	SHIPPING WEIGHT (lb.)	MODEL	SHIPPING WEIGHT (lb.)	UNIT DIMENSIONS INCHES			CONNECTION INCHES		
						W	A	B	LIQUID	SUCTION	LST HOT GAS
LSA 0400	36	-	-	-	-	32	18 1/2	-	1/2	5/8	1/2
LSA 0540	41	LSE 0500	44	LS(R)(T) 0500	42	32	18 1/2	-	1/2	5/8	1/2
LSA 0650	45	LSE 0600	48	LS(R)(T) 0600	46	32	18 1/2	-	1/2	5/8	1/2
LSA 0900	58	LSE 0800	62	LS(R)(T) 0800	60	44	30 1/2	-	1/2	5/8	1/2
LSA 1100	64	LSE 1000	68	LS(R)(T) 1000	66	44	30 1/2	-	1/2	7/8	1/2
LSA 1300	77	LSE 1200	82	LS(R)(T) 1200	79	52	38 1/2	-	1/2	7/8	1/2
LSA 1700	96	LSE 1500	108	LS(R)(T) 1500	100	72	58 1/2	-	1/2	7/8	1/2
LSA 2000	106	LSE 1800	116	LS(R)(T) 1800	112	72	58 1/2	-	1/2	7/8	1/2
LSA 2600	140	LSE 2400	150	LS(R)(T) 2400	145	92	78 1/2	40	1/2	7/8	1/2
LSA 3250	172	LSE 3000	185	LS(R)(T) 3000	178	112	98 1/2	40	1/2	1 1/8	5/8
LSA 3900	203	LSE 3600	219	LS(R)(T) 3600	211	132	118 1/2	60	1/2	1 1/8	5/8

WIRING DIAGRAMS

LSA, LPA & LAA FIGURE 1



LSR & LST FIGURE 2



LSE, LPE & LAE

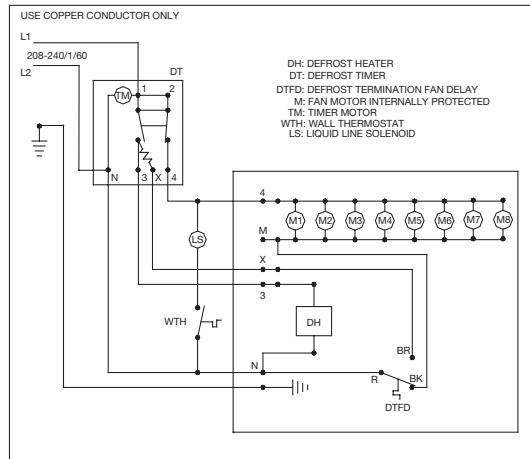
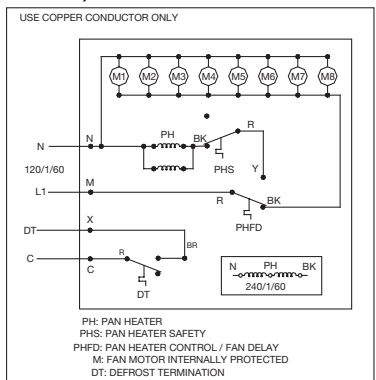


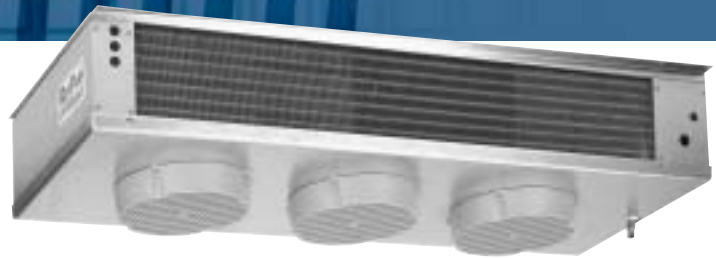
FIGURE 3

LPH, LAH
LPG, LAG

FIGURE 4



LOW PROFILE



LPA

APPLICATIONS: COOLERS ABOVE +34°F

AIR DEFROST

MODEL	CFM	CAPACITY BTUH				ELECTRICAL 120/1/60			R404A, R507 OPERATING CHARGE (lb.)
						FAN MOTOR		FUSE SIZE	
		8°F TD	10°F TD	12°F TD	15°F TD	QTY	FLA		
LPA 0600-1	930	4800	6000	7200	9000	1	1.35	15	1.5
LPA 0700-1	890	5600	7000	8400	10500	1	1.35	15	1.9
LPA 0950-1	1700	7600	9500	11400	14250	2	2.70	15	2.2
LPA 1200-1	1600	9600	12000	14400	18000	2	2.70	15	3.0
LPA 1400-1	1780	11200	14000	16800	21000	2	2.70	15	3.7
LPA 1800-1	2780	14400	18000	21600	27000	3	4.05	15	4.1
LPA 2100-1	2670	16800	21000	25200	31500	3	4.05	15	5.4
LPA 2800-1	3560	22400	28000	33600	42000	4	5.40	15	7.1
LPA 3500-1	4450	28000	35000	42000	52500	5	6.75	15	8.9
LPA 4200-1	5300	33600	42000	50400	63000	6	8.10	15	10.6

For 4 fpi multiply capacity by 0.85

Wiring Diagram Figure 1

LPE

APPLICATIONS: COOLERS FROM +26°F TO +34°F

ELECTRIC DEFROST

MODEL	CFM	CAPACITY BTUH				FAN MOTOR		DEFROST HEATERS						R404A, R507 OPERATING CHARGE (lb.)
						240/1/60		240/1/60			208/3/60			
		8°F TD	10°F TD	12°F TD	15°F TD	QTY	FLA	KW	FLA	FUSE	KW	FLA	FUSE	
LPE 0600-2	930	4800	6000	7200	9000	1	0.65	0.96	4.0	15	0.96	2.7	15	2.6
LPE 0700-2	890	5600	7000	8400	10500	1	0.65	0.96	4.0	15	0.96	2.7	15	3.5
LPE 0950-2	1700	7600	9500	11400	14250	2	1.30	1.50	6.3	15	1.50	4.2	15	4.0
LPE 1200-2	1600	9600	12000	14400	18000	2	1.30	1.50	6.3	15	1.50	4.2	15	5.3
LPE 1400-2	1780	11200	14000	16800	21000	2	1.30	1.92	8.0	15	1.92	5.3	15	6.6
LPE 1800-2	2780	14400	18000	21600	27000	3	1.95	2.88	12.0	15	2.88	8.0	15	7.3
LPE 2100-2	2670	16800	21000	25200	31500	3	1.95	2.88	12.0	15	2.88	8.0	15	9.7
LPE 2800-2	3560	22400	28000	33600	42000	4	2.60	3.84	16.0	20	3.84	10.7	15	12.8
LPE 3500-2	4450	28000	35000	42000	52500	5	3.25	4.80	20.0	25	4.80	13.3	20	15.9
LPE 4200-2	5300	33600	42000	50400	63000	6	3.90	5.76	24.0	30	5.76	16.0	20	19.0

For 4 fpi multiply capacity by 0.85

Wiring Diagram Figure 3

LPG, LPH

APPLICATIONS: COOLERS FROM +26°F TO +34°F

GAS DEFROST

MODEL	CFM	CAPACITY BTUH				ELECTRICAL 120/1/60					R404A, R507 OPERATING CHARGE (lb.)
						FAN MOTOR		DRAIN PAN HEATERS			
		8°F TD	10°F TD	12°F TD	15°F TD	QTY	FLA	KW	FLA	FUSE	
LP(G)(H)0600-1	930	4800	6000	7200	9000	1	1.35	0.32	2.7	15	1.5
LP(G)(H)0700-1	890	5600	7000	8400	10500	1	1.35	0.32	2.7	15	1.9
LP(G)(H)0950-1	1700	7600	9500	11400	14250	2	2.70	0.50	4.2	15	2.2
LP(G)(H)1200-1	1600	9600	12000	14400	18000	2	2.70	0.50	4.2	15	3.0
LP(G)(H)1400-1	1780	11200	14000	16800	21000	2	2.70	0.64	5.3	15	3.7
LP(G)(H)1800-1	2780	14400	18000	21600	27000	3	4.05	0.96	8.0	15	4.1
LP(G)(H)2100-1	2670	16800	21000	25200	31500	3	4.05	0.96	8.0	15	5.4
LP(G)(H)2800-1	3560	22400	28000	33600	42000	4	5.40	1.28	10.7	15	7.1
LP(G)(H)3500-1	4450	28000	35000	42000	52500	5	6.75	1.60	13.3	20	8.9
LP(G)(H)4200-1	5300	33600	42000	50400	63000	6	8.10	1.92	16.0	20	10.6

For 4 fpi multiply capacity by 0.85

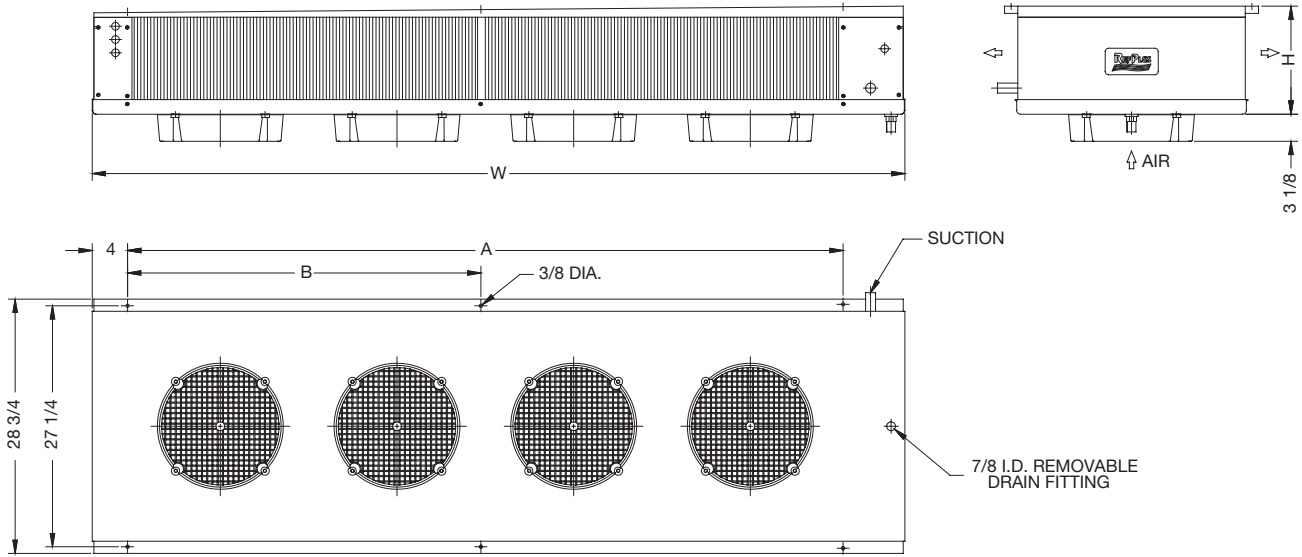
Wiring Diagram Figure 4

Use LPG model for reverse cycle defrost with electric drain pan (piping diagram Figure 8)

Use LPH model for three pipe defrost with electric drain pan (piping diagram Figure 7)

Notes Operating charges are based on 30% liquid and 70% vapor at 25°F suction.
Fan motor heat is not included in rating, add 342 BTUH (100W) per fan motor to room load.

Use suffix 1 for 120/1/60 and suffix 2 for 240/1/60.
For 200-240/1/50 use suffix 2 and multiply capacity by 0.92.
For R134a or R-22 refrigerant charge multiply R-404A by 1.09.
Air throw for LP Series is 12 to 18 ft.

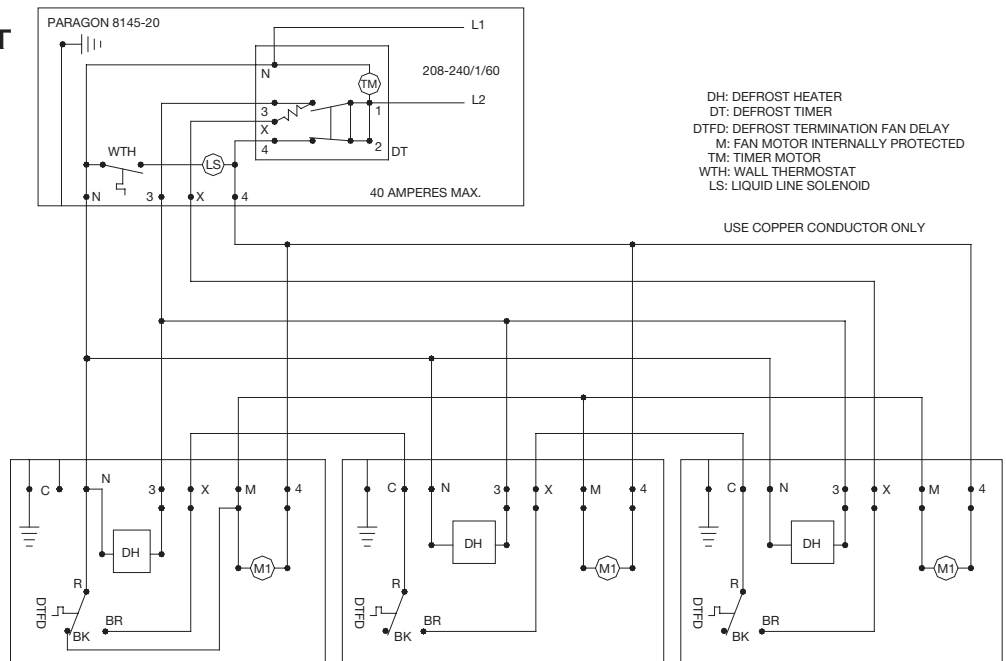


LP SERIES

ELECTRIC DEFROST SPECIFICATIONS

MODEL	SHIPPING WEIGHT (lb.)	MODEL	SHIPPING WEIGHT (lb.)	MODEL	SHIPPING WEIGHT (lb.)	UNIT DIMENSIONS INCHES				CONNECTION INCHES		
						W	H	A	B	LIQUID	SUCTION	LPT HOT GAS
LPA 0600	74	LPE 0600	79	LP(G)(H) 0600	75	32	12	21	-	1/2	5/8	1/2
LPA 0700	81	LPE 0700	87	LP(G)(H) 0700	82	32	12	21	-	1/2	5/8	1/2
LPA 0950	102	LPE 0950	11	LP(G)(H) 0950	105	44	12	33	-	1/2	5/8	1/2
LPA 1200	113	LPE 1200	124	LP(G)(H) 1200	115	44	12	33	-	1/2	7/8	1/2
LPA 1400	135	LPE 1400	148	LP(G)(H) 1400	137	52	12	41	-	1/2	7/8	1/2
LPA 1800	169	LPE 1800	185	LP(G)(H) 1800	173	72	12 1/4	61	-	1/2	7/8	1/2
LPA 2100	189	LPE 2100	209	LP(G)(H) 2100	193	72	12 1/4	61	-	1/2	7/8	1/2
LPA 2800	243	LPE 2800	269	LP(G)(H) 2800	248	92	12 1/4	81	40	1/2	7/8	1/2
LPA 3500	297	LPE 3500	330	LP(G)(H) 3500	304	112	12 1/2	101	40	1/2	1 1/8	5/8
LPA 4200	351	LPE 4200	391	LP(G)(H) 4200	359	132	12 1/2	121	60	1/2	1 1/8	5/8

WIRING DIAGRAM FOR MULTIPLE ELECTRIC DEFROST UNITS



LOW AIR



LAA

APPLICATIONS: COOLERS ABOVE +34°F

AIR DEFROST

MODEL	CFM	CAPACITY BTUH				ELECTRICAL 120/1/60			R404A, R507 OPERATING CHARGE (lb.)
						FAN MOTOR		FUSE SIZE	
		8°F _{TD}	10°F _{TD}	12°F _{TD}	15°F _{TD}	QTY	FLA		
LAA 0650-1	950	5200	6500	7800	9750	1	1.35	15	2.2
LAA 0760-1	900	6080	7600	9120	11400	1	1.35	15	3.0
LAA 0900-1	990	7200	9000	10800	13500	1	1.35	15	3.7
LAA 1200-1	1900	9600	12000	14400	18000	2	2.70	15	4.1
LAA 1500-1	1800	12000	15000	18000	22500	2	2.70	15	5.4
LAA 1800-1	1900	14400	18000	21600	27000	2	2.70	15	7.1
LAA 2700-1	2900	21600	27000	32400	40500	3	4.05	15	8.9
LAA 3000-1	3560	24000	30000	36000	45000	4	5.40	15	10.6
LAA 3800-1	4450	30400	38000	45600	57000	5	6.75	15	13.3
LAA 4500-1	5340	36000	45000	54000	67500	6	8.10	15	15.9

For 4 fpi multiply capacity by 0.85

Wiring Diagram Figure 1

LAE

APPLICATIONS: COOLERS FROM +26°F TO +34°F

ELECTRIC DEFROST

MODEL	CFM	CAPACITY BTUH				FAN MOTOR		DEFROST HEATERS						R404A, R507 OPERATING CHARGE (lb.)
						240/1/60		240/1/60			208/3/60			
		8°F _{TD}	10°F _{TD}	12°F _{TD}	15°F _{TD}	QTY	FLA	KW	FLA	FUSE	KW	FLA	FUSE	
LAE 0650-2	950	5200	6500	7800	9750	1	0.65	1.50	6.3	15	1.50	4.2	15	4.0
LAE 0760-2	900	6080	7600	9120	11400	1	0.65	1.50	6.3	15	1.50	4.2	15	5.3
LAE 0900-2	990	7200	9000	10800	13500	1	0.65	1.92	8.0	15	1.92	5.3	15	6.6
LAE 1200-2	1900	9600	12000	14400	18000	2	1.30	2.88	12.0	15	2.88	8.0	15	7.3
LAE 1500-2	1800	12000	15000	18000	22500	2	1.30	2.88	12.0	15	2.88	8.0	15	9.7
LAE 1800-2	1900	14400	18000	21600	27000	2	1.30	3.84	16.0	20	3.84	10.7	15	12.8
LAE 2700-2	2900	21600	27000	32400	40500	3	1.95	4.80	20.0	25	4.80	13.3	20	15.9
LAE 3000-2	3560	24000	30000	36000	45000	4	2.60	5.76	24.0	30	5.76	16.0	20	19.0
LAE 3800-2	4450	30400	38000	45600	57000	5	3.25	4.80	20.0	25	4.80	13.3	20	24.3
LAE 4500-2	5340	36000	45000	54000	67500	6	3.90	5.76	24.0	30	5.76	16.0	20	29.1

For 4 fpi multiply capacity by 0.85

Wiring Diagram Figure 3

LAG, LAH

APPLICATIONS: COOLERS FROM +26°F TO +34°F

GAS DEFROST

MODEL	CFM	CAPACITY BTUH				ELECTRICAL 120/1/60					R404A, R507 OPERATING CHARGE (lb.)
						FAN MOTOR		DRAIN PAN HEATERS			
		8°F _{TD}	10°F _{TD}	12°F _{TD}	15°F _{TD}	QTY	FLA	KW	FLA	FUSE	
LA(G)(H) 0650-1	950	5200	6500	7800	9750	1	1.35	0.50	4.2	15	2.2
LA(G)(H) 0760-1	900	6080	7600	9120	11400	1	1.35	0.50	4.2	15	3.0
LA(G)(H) 0900-1	990	7200	9000	10800	13500	1	1.35	0.64	5.3	15	3.7
LA(G)(H) 1200-1	1900	9600	12000	14400	18000	2	2.70	0.96	8.0	15	4.1
LA(G)(H) 1500-1	1800	12000	15000	18000	22500	2	2.70	0.96	8.0	15	5.4
LA(G)(H) 1800-1	1900	14400	18000	21600	27000	2	2.70	1.28	10.7	15	7.1
LA(G)(H) 2700-1	2900	21600	27000	32400	40500	3	4.05	1.60	13.3	20	8.9
LA(G)(H) 3000-1	3560	24000	30000	36000	45000	4	5.40	1.92	16.0	20	10.6
LA(G)(H) 3800-1	4450	30400	38000	45600	57000	5	6.75	1.60	13.3	20	13.3
LA(G)(H) 4500-1	5340	36000	45000	54000	67500	6	8.10	1.92	16.0	20	15.9

For 4 fpi multiply capacity by 0.85

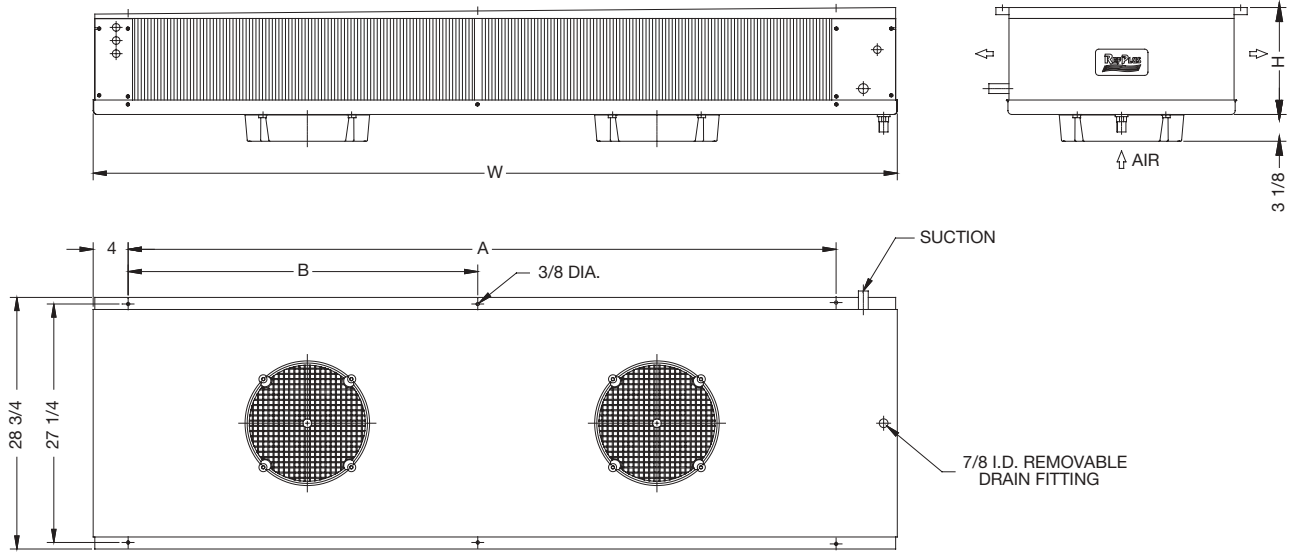
Wiring Diagram Figure 4

Use LAG model for reverse cycle defrost with electric drain pan (piping diagram Figure 8)

Use LAH model for three pipe defrost with electric drain pan (piping diagram Figure 7)

Notes Operating charges are based on 30% liquid and 70% vapor at 25°F suction.
Fan motor heat is not included in rating, add 342 BTUH (100W) per fan motor to room load.

Use suffix 1 for 120/1/60 and suffix 2 for 240/1/60.
For 200-240/1/50 use suffix 2 and multiply capacity by 0.92.
For R134a or R-22 refrigerant charge multiply R-404A by 1.09.
Air throw for LA Series is 10 to 15 ft.

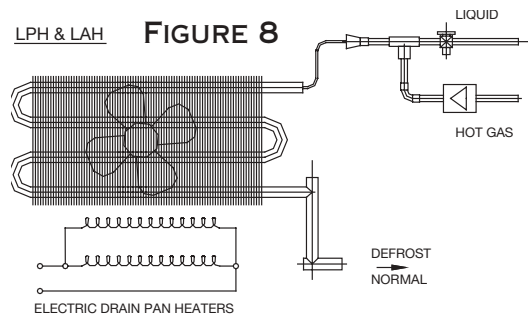
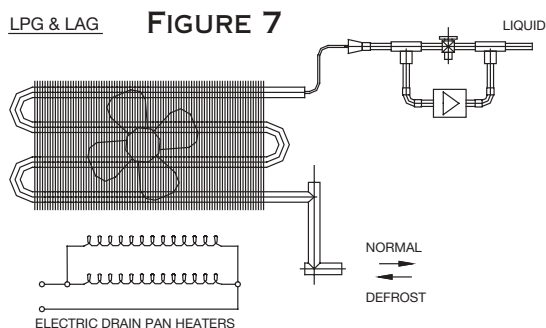
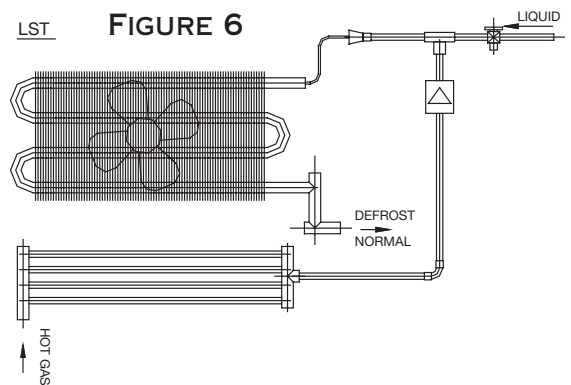
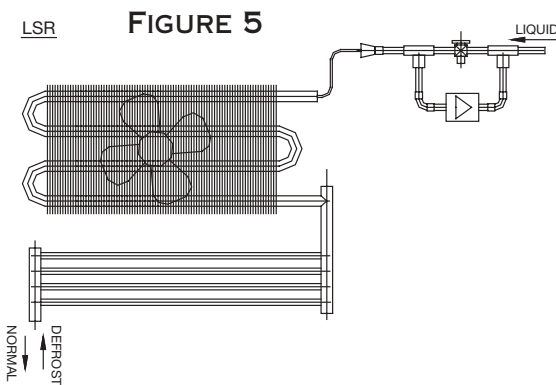


LA SERIES

ELECTRIC DEFROST SPECIFICATIONS

MODEL	SHIPPING WEIGHT (lb.)	MODEL	SHIPPING WEIGHT (lb.)	MODEL	SHIPPING WEIGHT (lb.)	UNIT DIMENSIONS INCHES				CONNECTION INCHES		
						W	H	A	B	LIQUID	SUCTION	LAT HOT GAS
LAA 0650	100	LAE 0650	107	LA(G)(H) 0650	103	44	12	33	-	1/2	5/8	1/2
LAA 0760	108	LAE 0760	123	LA(G)(H) 0760	112	44	12	33	-	1/2	5/8	1/2
LAA 0900	131	LAE 0900	141	LA(G)(H) 0900	133	52	12	41	-	1/2	5/8	1/2
LAA 1200	174	LAE 1200	187	LA(G)(H) 1200	180	72	12 1/4	61	-	1/2	7/8	1/2
LAA 1500	190	LAE 1500	219	LA(G)(H) 1500	198	72	12 1/4	61	-	1/2	7/8	1/2
LAA 1800	235	LAE 1800	256	LA(G)(H) 1800	240	92	12 1/4	81	40	1/2	7/8	1/2
LAA 2700	272	LAE 2700	315	LA(G)(H) 2700	284	112	12 1/2	101	40	1/2	7/8	1/2
LAA 3000	345	LAE 3000	412	LA(G)(H) 3000	370	132	12 1/2	121	60	1/2	7/8	1/2
LAA 3800	436	LAE 3800	508	LA(G)(H) 3800	455	112	17 1/2	101	40	7/8	1 1/8	5/8
LAA 4500	517	LAE 4500	605	LA(G)(H) 4500	541	132	17 1/2	121	60	7/8	1 1/8	5/8

GAS DEFROST PIPING DIAGRAM



COMMERCIAL WALK-IN UNIT COOLERS

APPLICATIONS:

- **LSA, LPA and LAA** Models are for coolers +34°F and above.
- **LPE, LAE, LPG, LAG, LPH and LAH** Models are for coolers +26°F and above.
- **LSE, LSR and LST** Models are for coolers and freezers ranging from -20°F to +34°F.

SPECIFICATIONS:

High velocity **LS** series are of a single coil construction for an air distribution directed towards the center of the cooler or the freezer. Fans draw air through the evaporator coil and discharge it through the fan guards on the front of the unit.

Medium velocity **LP** series and low velocity **LA** series are of a dual coil construction for an equal air distribution on both sides of the unit. The fans draw air upward through the fan guards and discharge it through each evaporator coil.

Coils are manufactured with seamless deoxidized heavy wall smooth copper tubes and aluminum plate fins. For maximum heat transfer, tubes are mechanically expanded into self-spaced plate fins with full collar for a permanent bond. Connections and bends are brazed with a high temperature-brazing alloy. Coils are factory leak tested at 400 psig and purged with -40°F dew point dry air. Coils are pressurized and sealed at 20 psig before assembly. Coils are circuited for HCFC and HFC refrigerants.

The casing material for **LS** and **LP** series is heavy-gauge textured aluminum. **LA** series is a heavy-gauge white painted aluminum. All units come with stainless steel or plated hardware for corrosion-free assembly. **LP** and **LA** series are provided with double drain pans to prevent condensation and sweating.

All units are provided with a removable 7/8" I.D. copper drain fitting for easier installation and cleaning.

Heavy-duty fan motors are provided for long life and dependable service. These motors are permanently lubricated by extra large oil reservoirs, 30,000 average operating hours, totally enclosed and thermally protected.

They are available for 120/1/60 or 208-240/1/60. The power consumption is 100 W on 60 HZ, and 110 W on 50 HZ. Note: 208/240/1/60 volt motors can also be used for 200-230/1/50.

Hubless fan blades are stamped aluminum for a lighter weight. Fan assemblies are statically and dynamically balanced for smooth and vibration-free operation.

Fan guards are injection-molded polymers for consistency of dimensions and full protection of moving parts. Fan guards are shaped to improve air throw and to reduce noise level. PVC-coated welded wire guards are optional.

All units are provided with large access panels. **LS** series have front and side doors, **LP** and **LA** series have a side access door.

LSE, LPE and LAE models are provided with a sealed non-adjustable, fan delay / defrost termination thermostat. All units feature incoloy low watt density tubular heaters. They are imbedded within the coil for positive defrost and high-energy efficiency. This reduces heat gain in coolers and freezers. All units use six heaters for 208-240/1/60 or 208-240/3/60 supply. These units can be factory or field wired for either single or three-phase supply without reducing watt input and unbalancing the phases.

LSR and **LST** models are provided with a sealed non-adjustable fan delay, defrost termination thermostat and a hot gas drain pan loop. An **LSR** model can be used for reverse cycle defrost, or **LST** model for three-pipe defrost.

LPG, LPH, LAG and LAH models are provided with an adjustable fan delay thermostat and a non-adjustable defrost termination thermostat, heater safety thermostat and electric drain pan heaters. **LPG** and **LAG** models must be used for reverse cycle defrost, or **LPH** and **LAH** models for three-pipe defrost.

All models are provided with terminal blocks for easier field wiring. Terminals are clearly identified to match wiring diagram supplied with the unit.

All walk-in unit coolers are of modular design using a minimum of different parts to simplify replacement and to reduce inventory.

Specifications are subject to change without notice.



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