

REFPLUS[®]

TECHNICAL CATALOGUE



INDUSTRIAL
WALK-IN COOLERS
& FREEZERS
LM SERIES

ecoefficient+



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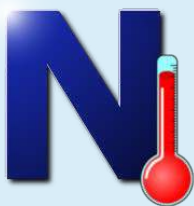
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Although this catalogue gives precise and useful product description and capabilities, we recommend the use of our **Nomis** software for a more accurate and up-to-date selection.

Nomis is a web-based refrigeration equipment selection and configuration platform. It can be used from your desktop computer, laptop, tablet or smart-phone. Request a Nomis access and discover just how easy it is to find the right equipment for your needs. Simply select an evaporator from our myriad choices, and then add the options that are right for your project. All technical and pricing information is updated continuously and is right there, at your finger tips.



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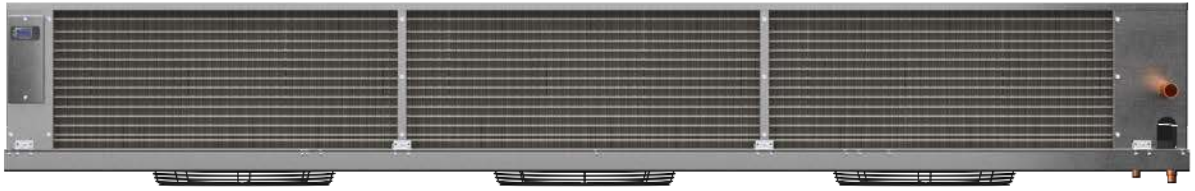
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- 1.Select Base Configuration
- 2.Select Options
- 3.Select Accessories
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To request a Nomis Access, simply go to www.refplus.com and click on Tools.

TEMPERATURE & CAPACITY RANGES



LMA | FOR COOLERS ABOVE +34°F

CAPACITY FROM 22,970 to 137,810 BTU/HR/10°F TD

LME | FOR COOLERS & FREEZERS FROM -30°F TO +34°F

CAPACITY FROM 22,970 to 137,810 BTU/HR/10°F TD

LMG, LMH, LMR & LMT

FOR COOLERS & FREEZERS FROM -30°F TO +34°F

CAPACITY FROM 22,970 to 137,810 BTU/HR/10°F TD

For operation outside the temperature ranges listed above, please contact RefPlus sales support.

L M A - 1 1 2 0 0 - 8 W

Unit Series

LM = Medium velocity, medium profile industrial walk-in

Option

W = Water/Glycol mixture

Defrost Type

A = Air defrost
E = Electric defrost
G = Reverse cycle hot gas defrost with electric drain pan
H = Three-pipe hot gas defrost with electric drain pan
R = Reverse cycle hot gas defrost with hot gas drain pan
T = Three-pipe hot gas defrost with hot gas drain pan

Model number / Nominal Capacity @ 10°F TD

11200 = 112 000 Btu/h
0431 = 4300 Btu/h

Unit Voltage

2: 240/1/60
5: 208-240/3/60
8: 575/3/60
9: 480/3/60

SPECIFICATIONS

The **LM** series is a medium profile, ceiling-mounted industrial walk-in cooler and freezer unit equipped with heavy duty medium-velocity fans. All models of this series are fully customizable and include a wiring diagram that meets the customer's requirements. The wiring diagram displays all the components with all the necessary protections and controls.

All models are dual coil construction for an air distribution on both sides of the unit. The fans draw air from below the unit and discharge it through the evaporator coils on both sides.

APPLICATIONS

LMA:

This air defrost blow-through model is for coolers with room temperature at +34°F and above.

LME:

This electric defrost blow-through model is for coolers and freezers with a room temperature from -30°F to +34°F.

LMG:

This model is a horizontal blow-through, reverse cycle hot gas defrost evaporator with electric drain pan for coolers and freezers with a room temperature from -30°F to +34°F.

LMH:

This model is a horizontal blow-through, three-pipe hot gas defrost evaporator with electric drain pan for coolers and freezers with a room temperature from -30°F to +34°F.

LMR:

This model is a horizontal blow-through, reverse cycle hot gas defrost evaporator with hot gas drain pan for coolers and freezers with a room temperature from -30°F to +34°F.

LMT:

This model is a horizontal blow-through, three-pipe hot gas defrost evaporator with hot gas drain pan for coolers and freezers with a room temperature from -30°F to +34°F.

ELECTRICAL

Standard electric and hot gas defrost evaporators include a defrost termination switch, a fan delay thermostat, a heater safety thermostat and terminal blocks for fan and heater connections. Optional RefPlus Guardian+ controller allows defrost, fan and electronic expansion valve operation without any other device being necessary. Other options include KE2 evaporator controller offerings, Kelvin Superheat Control with probes and sensors, disconnect switch, fuses or circuit breakers, hot gas bypass auxiliary side connection, etc. Contact Sales department for all custom options.

CONSTRUCTION

CABINET

Cabinets are made of heavy-gauge textured aluminium. All hardware is made from stainless or plated steel for long-term corrosion protection. Bolted construction allows for easy service and fan removal for coil cleaning and maintenance. Special materials are available such as full 316 stainless steel construction. These units are provided with front and side easy access doors.

DRAIN PAN

All **LM** models have two hinged drain pans, one underneath each coil. Drain pans are double pitched and units are sloped in a way that no condensate can be trapped inside. Each drain pan is equipped with a 7/8" I.D. removable drain fitting.

FANS

Heavy-duty fan motors are provided for long life and dependable service. These motors are permanently lubricated, totally enclosed and thermally protected. Fan motors are available for 208-240/1/60, 208-480/3/60 or 600/3/60. Contact RefPlus sales for 50 Hz.

Fan assemblies are statically and dynamically balanced for smooth and vibration-free operation. Fans have aluminum blades riveted to epoxy painted steel hub for light weight assembly.

Fan guards are epoxy coated for consistency of dimensions and full protection of moving parts. They are shaped to improve air throw and reduce noise level. Epoxy-coated welded wire guards are optional.

MOUNTING

All models are ceiling mounted standard. Consult Sales Department for other desired mounting options.

SPECIFICATIONS (CONTINUED)

COIL

Coils are manufactured with seamless deoxidized rifled copper tubes and aluminum corrugated fins. Tubes are mechanically expanded into self-spaced fins plates with full collar for a permanent bond and optimum heat transfer.

Connections and bends are brazed with high-temperature brazing alloy. Coils are factory leak tested at 400 psig and purged with a -40°F dew point dry air. Optional nitrogen charge is available.

Coils are circuited for all synthetic refrigerants throughout the evaporator operating range and are also available for CO₂ up to 650 PSI (ETL) and 700 PSI (CRN). Recircuited evaporators (SS headers, air or hot gas defrost only) can be rated up to 1741 PSI. Fin spacing is customizable to fit different applications from 6 FPI to 4 FPI. Optional tubing material can be smooth copper, heavy gauge copper for high pressure CO₂, cupro-nickel or 316 stainless steel.

Optional fin material can be hydrophobic epoxy aluminum, copper or 316 stainless steel. Optional coatings such as Blygold, Heresite or Electrofin are available for complete coil coverage.

DEFROST SYSTEMS

Electric defrost is done by the means of an internal heating element array, defrosting the coil from the inside out, allowing minimal heat losses in the room. With the help of an optional Refplus Guardian+ controller, pulsating current and temperature monitoring will allow for majority of frost being sublimated instead of thawed into running water, allowing for better energy efficiency and minimizing the risk of water overflowing.

Hot gas three-pipe defrost includes auxiliary side connection, running from downstream of the expansion valve, through the coil and in the drain pan before going to the suction line.

Hot gas reverse cycle defrost allows for two piping connections only, reducing installation costs on the evaporator. Included is a liquid line bypass with check valve allowing for single liquid line input while allowing hot gas flow to bypass the expansion valve.

Note: Specifications subject to change without notice.

STANDARD & OPTIONAL FEATURES

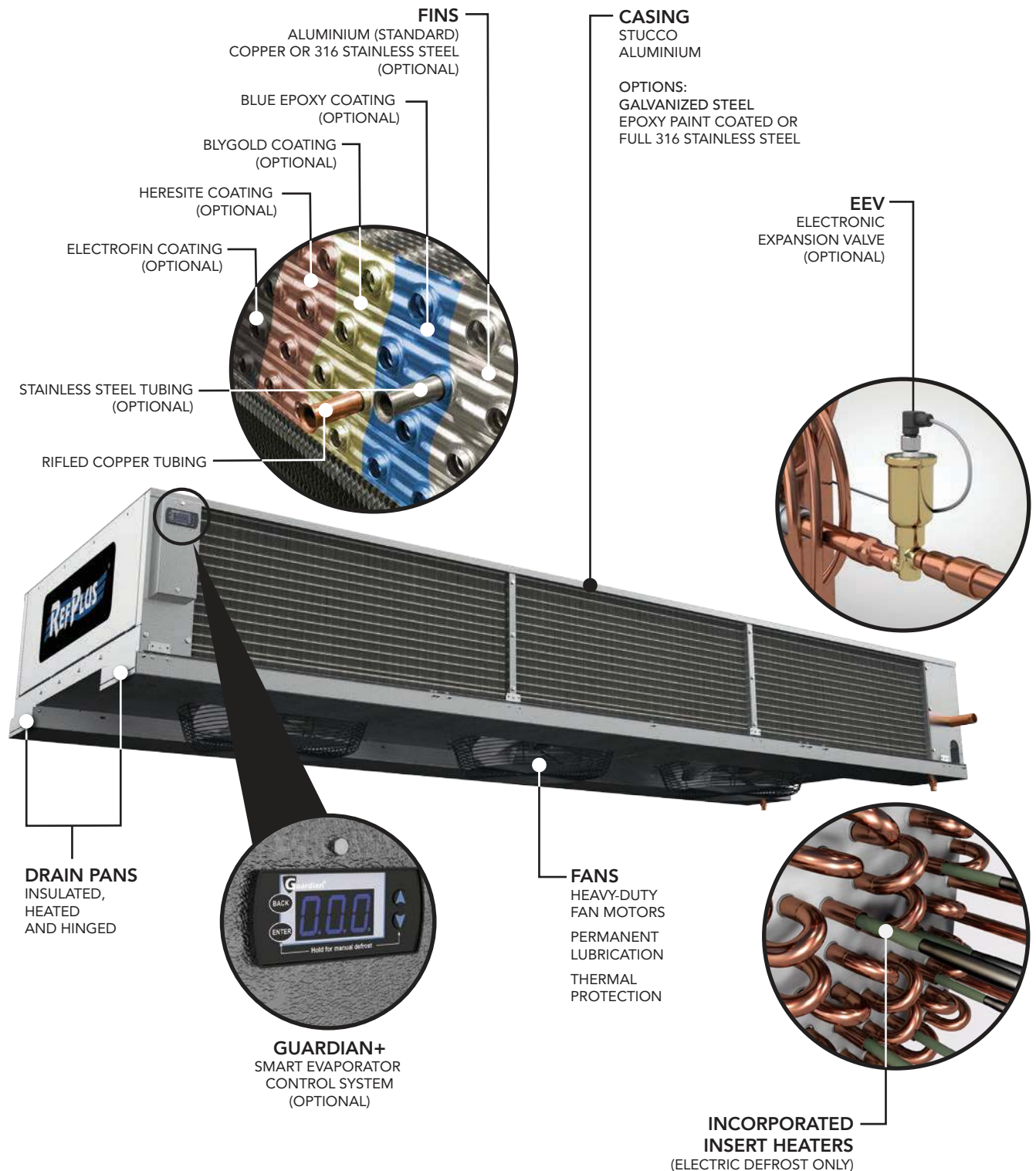
Standard Features

- PSC motors
- Air throw up to 40 feet each side
- Cabinet: Stucco aluminum
- Inserted Incoloy electric defrost heaters (LME model only)
- Hinged, insulated drain pan on all air and electric defrost models
- Ready for low GWP refrigerant and CO₂ applications
- Ceiling mountable
- Front-facing electrical board

Available Options

- EC motors
- Thermostatic or electronic expansion valve
- Guardian+ smart defrost controller with EC fan speed and electronic expansion valve control and one year free Smart Access
- Liquid line solenoid valve
- Shipped loose room thermostat
- Fans and heaters contactors with fuses or breakers
- Disconnect switch (fused or non-fused)
- Stainless steel casing and drain pan
- Custom painted casing and drain pan (epoxy)
- Black epoxy-coated welded wire guard
- Coil Coating (Blygold, Heresite or Electrofin)
- Custom coil design (FPI, material, geometry)
- Hydrophobic epoxy aluminum fins
- Auxiliary Side Connection for hot gas bypass
- Mounting bracket kit to match mounting holes of preceding generation with the same casing length

STANDARD & OPTIONAL FEATURES



LMA - AIR DEFROST

FOR COOLERS ABOVE +34°F

CAPACITIES

MODEL	CFM	CAPACITY (MBH) FOR R-448A (>85% RH)				CONNECTION (INCHES)		R-448A OPERATING CHARGE (LB.)	STANDARD UNIT SHIPPING WEIGHT (LB.)
		8°F TD	10°F TD	12°F TD	15°F TD	LIQUID	SUCTION		
LMA-02200	4,500	18.38	22.97	27.56	34.46	1/2	1 1/8	3.7	221
LMA-02800	4,400	23.38	29.23	35.08	43.85	1/2	1 1/8	5.55	236
LMA-03300	4,300	27.56	34.45	41.34	51.68	7/8	1 1/8	7.45	257
LMA-04400	9,000	36.75	45.94	55.13	68.91	7/8	1 3/8	7.01	394
LMA-05600	8,800	46.77	58.46	70.15	87.69	7/8	1 3/8	10.52	420
LMA-06600	8,600	55.12	68.90	82.68	103.35	7/8	1 3/8	14.03	462
LMA-08400	13,200	70.16	87.70	105.24	131.55	7/8	1 5/8	15.49	625
LMA-09900	12,900	82.69	103.36	124.03	155.04	1 3/8	1 5/8	20.65	672
LMA-11200	17,600	93.54	116.93	140.32	175.40	1 3/8	1 5/8	19.92	824
LMA-13200	17,200	110.25	137.81	165.37	206.72	1 3/8	1 5/8	26.55	872

ELECTRICAL

MODEL	MOTOR QTY	240/1/60			208-240/3/60			600/3/60			480/3/60		
		FAN MOTOR			FAN MOTOR			FAN MOTOR			FAN MOTOR		
		FLA	MCA	FUSE	FLA	MCA	FUSE	FLA	MCA	FUSE	FLA	MCA	FUSE
LMA-02200	1	4.00	5.00	15	2.00	2.50	15	0.80	1.00	15	0.95	1.19	15
LMA-02800	1	4.00	5.00	15	2.00	2.50	15	0.80	1.00	15	0.95	1.19	15
LMA-03300	1	4.00	5.00	15	2.00	2.50	15	0.80	1.00	15	0.95	1.19	15
LMA-04400	2	8.00	9.00	15	4.00	4.50	15	1.60	1.80	15	1.90	2.14	15
LMA-05600	2	8.00	9.00	15	4.00	4.50	15	1.60	1.80	15	1.90	2.14	15
LMA-06600	2	8.00	9.00	15	4.00	4.50	15	1.60	1.80	15	1.90	2.14	15
LMA-08400	3	12.00	13.00	15	6.00	6.50	15	2.40	2.60	15	2.85	3.09	15
LMA-09900	3	12.00	13.00	15	6.00	6.50	15	2.40	2.60	15	2.85	3.09	15
LMA-11200	4	16.00	17.00	20	8.00	8.50	15	3.20	3.40	15	3.80	4.04	15
LMA-13200	4	16.00	17.00	20	8.00	8.50	15	3.20	3.40	15	3.80	4.04	15

NOTES:

- Capacities are for R-448A. For other refrigerants, please refer to the refrigerant factor table (Page 11).
- Standard units are 6 FPI. For 4 FPI, multiply capacity by 0.8.
- Fan motor heat is not included in rating:
 - Add 1800 BTU/HR for standard 3-phase PSC motors
 - Add 1400 BTU/HR for optional EC motors

LME - ELECTRIC DEFROST

FOR COOLERS & FREEZERS FROM -30°F TO +34°F

CAPACITIES

MODEL	CFM	CAPACITY (MBH) FOR R-448A @ 10°F TD (>85% RH)				CONNECTION (INCHES)		R-448A OPERATING CHARGE (LB.)	STANDARD UNIT SHIPPING WEIGHT (LB.)
		-40°F	-20°F	0°F	+20°F	LIQUID	SUCTION		
LME-02200	4,500	17.69	19.52	21.25	22.97	1/2	1 1/8	4.77	268
LME-02800	4,400	22.51	24.85	27.04	29.23	1/2	1 1/8	8.13	279
LME-03300	4,300	26.53	29.28	31.87	34.45	7/8	1 1/8	10.03	310
LME-04400	9,000	35.37	39.05	42.49	45.94	7/8	1 3/8	9.06	394
LME-05600	8,800	45.02	49.69	54.08	58.46	7/8	1 3/8	15.34	504
LME-06600	8,600	53.06	58.57	63.74	68.90	7/8	1 3/8	19	567
LME-08400	13,200	67.53	74.54	81.12	87.70	7/8	1 5/8	22.6	625
LME-09900	12,900	79.58	87.85	95.60	103.36	7/8	1 5/8	27.91	811
LME-11200	17,600	90.03	99.39	108.16	116.93	1 3/8	1 5/8	26.6	977
LME-13200	17,200	106.11	117.14	127.47	137.81	1 3/8	1 5/8	34.54	1,038

ELECTRICAL

MODEL	MOTOR QTY	240/1/60				240/1/60				208-240/3/60				208-240/3/60			
		FAN MOTOR				HEATER				FAN MOTOR				HEATER			
		FLA	MCA	FUSE	KW	FLA	MCA	FUSE		FLA	MCA	FUSE	KW	FLA	MCA	FUSE	
LME-02200	1	4.00	5.00	15	3.84	16.00	20.00	20		2.00	2.50	15	5.11	12.29	15.36	20	
LME-02800	1	4.00	5.00	15	3.84	16.00	20.00	20		2.00	2.50	15	5.11	12.29	15.36	20	
LME-03300	1	4.00	5.00	15	5.76	24.00	30.00	30		2.00	2.50	15	7.67	18.45	23.06	25	
LME-04400	2	8.00	9.00	15	7.68	32.00	40.00	40		4.00	4.50	15	10.22	24.59	30.74	35	
LME-05600	2	8.00	9.00	15	7.68	32.00	40.00	40		4.00	4.50	15	10.22	24.59	30.74	35	
LME-06600	2	8.00	9.00	15	11.52	48.00	60.00	60		4.00	4.50	15	15.34	36.90	46.13	50	
LME-08400	3	12.00	13.00	15	11.52	48.00	60.00	60		6.00	6.50	15	15.34	36.90	46.13	50	
LME-09900	3	12.00	13.00	15	17.28	72.00	90.00	2 X 45		6.00	6.50	15	23.01	55.36	69.20	2 X 35	
LME-11200	4	16.00	17.00	20	17.28	72.00	90.00	2 X 45		8.00	8.50	15	23.01	55.36	69.20	2 X 35	
LME-13200	4	16.00	17.00	20	23.04	96.00	120.00	2 X 60		8.00	8.50	15	30.67	73.78	92.23	2 X 50	

MODEL	MOTOR QTY	600/3/60				600/3/60				480/3/60				480/3/60			
		FAN MOTOR				HEATER				FAN MOTOR				HEATER			
		FLA	MCA	FUSE	KW	FLA	MCA	FUSE		FLA	MCA	FUSE	KW	FLA	MCA	FUSE	
LME-02200	1	0.80	1.00	15	3.84	3.70	4.63	15		0.95	1.19	15	3.27	3.93	4.91	15	
LME-02800	1	0.80	1.00	15	3.84	3.70	4.63	15		0.95	1.19	15	3.27	3.93	4.91	15	
LME-03300	1	0.80	1.00	15	5.76	5.54	6.93	15		0.95	1.19	15	4.91	5.91	7.39	15	
LME-04400	2	1.60	1.80	15	7.68	7.39	9.24	15		1.90	2.14	15	6.55	7.88	9.85	15	
LME-05600	2	1.60	1.80	15	7.68	7.39	9.24	15		1.90	2.14	15	6.55	7.88	9.85	15	
LME-06600	2	1.60	1.80	15	11.52	11.09	13.86	15		1.90	2.14	15	9.82	11.81	14.76	15	
LME-08400	3	2.40	2.60	15	11.52	11.09	13.86	15		2.85	3.09	15	9.82	11.81	14.76	15	
LME-09900	3	2.40	2.60	15	17.28	16.63	20.79	25		2.85	3.09	15	14.73	17.72	22.15	25	
LME-11200	4	3.20	3.40	15	17.28	16.63	20.79	25		3.80	4.04	15	14.73	17.72	22.15	25	
LME-13200	4	3.20	3.40	15	23.04	22.17	27.71	30		3.80	4.04	15	19.64	23.62	29.53	30	

NOTES:

- Capacities are for R-448A. For other refrigerants, please refer to the refrigerant factor table (Page 11).
- Standard units are 6 FPI. For 4 FPI, multiply capacity by 0.8.
- Fan motor heat is not included in rating:
 - Add 1800 BTU/HR for standard 3-phase PSC motors
 - Add 1400 BTU/HR for optional EC motors

LMG/LMH/LMR/LMT - GAS DEFROST

FOR COOLERS & FREEZERS FROM -30°F TO +34°F

CAPACITIES

MODEL	CFM	CAPACITY (MBH) FOR R-448A @ 10°F TD (>85% RH)				CONNECTION (INCHES)			R-448A OPERATING CHARGE (LB.)	STANDARD UNIT SHIPPING WEIGHT (LB.)
		-40°F	-20°F	0°F	+20°F	LIQUID	SUCTION	HOT GAS (LMH & LMT)		
LM*-02200	4,500	17.69	19.52	21.25	22.97	1/2	1 1/8	7/8	3.7	242
LM*-02800	4,400	22.51	24.85	27.04	29.23	1/2	1 1/8	7/8	5.55	279
LM*-03300	4,300	26.53	29.28	31.87	34.45	7/8	1 1/8	7/8	7.45	279
LM*-04400	9,000	35.37	39.05	42.49	45.94	7/8	1 3/8	1 1/8	7.01	426
LM*-05600	8,800	45.02	49.69	54.08	58.46	7/8	1 3/8	1 1/8	10.52	452
LM*-06600	8,600	53.06	58.57	63.74	68.90	7/8	1 3/8	1 1/8	14.03	494
LM*-08400	13,200	67.53	74.54	81.12	87.70	7/8	1 5/8	1 3/8	15.49	662
LM*-09900	12,900	79.58	87.85	95.60	103.36	7/8	1 5/8	1 3/8	20.65	714
LM*-11200	17,600	90.03	99.39	108.16	116.93	1 3/8	1 5/8	1 3/8	19.92	877
LM*-13200	17,200	106.11	117.14	127.47	137.81	1 3/8	1 5/8	1 3/8	26.55	945

ELECTRICAL

MODEL	MOTOR QTY	240/1/60			240/1/60				208-240/3/60			208-240/3/60			
		FAN MOTOR			HEATER				FAN MOTOR			HEATER			
		FLA	MCA	FUSE	KW	FLA	MCA	FUSE	FLA	MCA	FUSE	KW	FLA	MCA	FUSE
LM*-02200	1	4.00	5.00	15	1.28	5.33	6.66	15	2.00	2.50	15	1.28	3.08	3.85	15
LM*-02800	1	4.00	5.00	15	1.28	5.33	6.66	15	2.00	2.50	15	1.28	3.08	3.85	15
LM*-03300	1	4.00	5.00	15	1.28	5.33	6.66	15	2.00	2.50	15	1.28	3.08	3.85	15
LM*-04400	2	8.00	9.00	15	3.84	16.00	20.00	20	4.00	4.50	15	2.56	6.16	7.70	15
LM*-05600	2	8.00	9.00	15	3.84	16.00	20.00	20	4.00	4.50	15	2.56	6.16	7.70	15
LM*-06600	2	8.00	9.00	15	3.84	16.00	20.00	20	4.00	4.50	15	2.56	6.16	7.70	15
LM*-08400	3	12.00	13.00	15	3.84	16.00	20.00	20	6.00	6.50	15	3.83	9.21	11.51	15
LM*-09900	3	12.00	13.00	15	3.84	16.00	20.00	20	6.00	6.50	15	3.83	9.21	11.51	15
LM*-11200	4	16.00	17.00	20	3.84	16.00	20.00	20	8.00	8.50	15	3.83	9.21	11.51	15
LM*-13200	4	16.00	17.00	20	3.84	16.00	20.00	20	8.00	8.50	15	3.83	9.21	11.51	15

MODEL	MOTOR QTY	600/3/60			600/3/60				480/3/60			480/3/60			
		FAN MOTOR			HEATER				FAN MOTOR			HEATER			
		FLA	MCA	FUSE	KW	FLA	MCA	FUSE	FLA	MCA	FUSE	KW	FLA	MCA	FUSE
LM*-02200	1	0.80	1.00	15	1.92	1.85	2.31	15	0.95	1.19	15	0.82	0.99	1.24	15
LM*-02800	1	0.80	1.00	15	1.92	1.85	2.31	15	0.95	1.19	15	0.82	0.99	1.24	15
LM*-03300	1	0.80	1.00	15	1.92	1.85	2.31	15	0.95	1.19	15	0.82	0.99	1.24	15
LM*-04400	2	1.60	1.80	15	3.84	3.70	4.63	15	1.90	2.14	15	1.64	1.97	2.46	15
LM*-05600	2	1.60	1.80	15	3.84	3.70	4.63	15	1.90	2.14	15	1.64	1.97	2.46	15
LM*-06600	2	1.60	1.80	15	3.84	3.70	4.63	15	1.90	2.14	15	1.64	1.97	2.46	15
LM*-08400	3	2.40	2.60	15	5.76	5.54	6.93	15	2.85	3.09	15	2.46	2.96	3.70	15
LM*-09900	3	2.40	2.60	15	5.76	5.54	6.93	15	2.85	3.09	15	2.46	2.96	3.70	15
LM*-11200	4	3.20	3.40	15	7.68	7.39	9.24	15	3.80	4.04	15	2.46	2.96	3.70	15
LM*-13200	4	3.20	3.40	15	7.68	7.39	9.24	15	3.80	4.04	15	2.46	2.96	3.70	15

NOTES:

- Capacities are for R-448A. For other refrigerants, please refer to the refrigerant factor table (Page 11).
- Standard units are 6 FPI. For 4 FPI, multiply capacity by 0.8.
- Use LMG model for reverse cycle hot gas defrost with electric drain pan.
- Use LMH model for three-pipe hot gas defrost with electric drain pan.
- Use LMR model for reverse hot gas cycle defrost with hot gas drain pan.
- Use LMT model for three-pipe hot gas defrost with hot gas drain pan.
- Fan motor heat is not included in rating:
 - Add 1800 BTU/HR for standard 3-phase PSC motors
 - Add 1400 BTU/HR for optional EC motors

FACTOR TABLES BASED ON R-448A DATA

**CAPACITY CONVERSION FACTOR
FOR OTHER REFRIGERANTS**

REFRIGERANT	FACTOR
R-404A	0.958
R-410A	1.053
R-22	0.976
R-134A	0.869
R-407F	1.008
R-407A	0.988
R-407C	0.988
R-449A	0.997
R-450A	0.810
R-513A	0.914

**OPERATING CHARGE CONVERSION
FACTOR FOR OTHER REFRIGERANTS**

REFRIGERANT	FACTOR
R-404A	0.945
R-410A	0.960
R-22	1.029
R-134A	1.026
R-407F	1.000
R-407A	1.000
R-407C	1.000
R-449A	1.000
R-450A	1.026
R-513A	1.026

**CAPACITY CONVERSION FACTOR
FOR OTHER FPI**

FPI	FACTOR
6	1.0
5	0.9
4	0.8

Note: For R744 (CO₂) application, please contact RefPlus Sales.

CALCULATION EXAMPLE

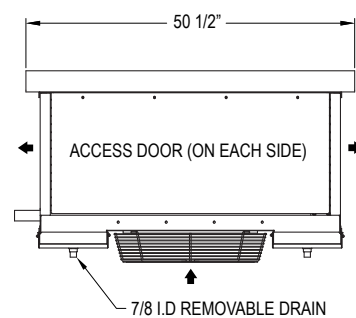
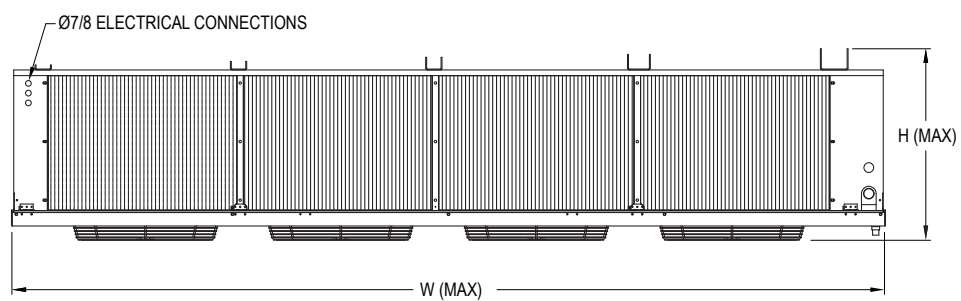
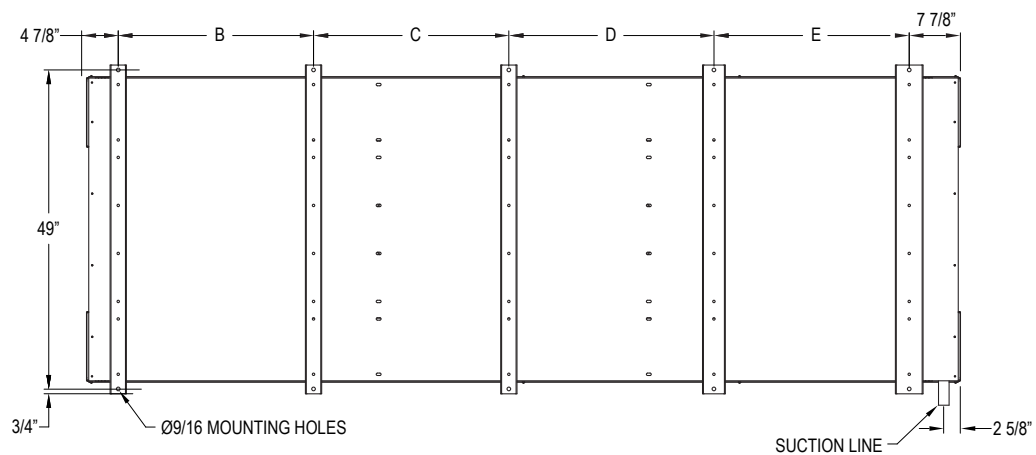
How to find capacity for an LME-08400 at -20°F SST, 10°F TD, R-407A with 4 FPI :

LME-08400 @ -20°F SST, 10°F TD, R-448A with 6 FPI = **74.54 MBH**

74.54 MBH x 0.988 (refrigerant factor) x 0.8 (FPI factor) = **58.92 MBH**

Notes: Capacity might slightly differ from Nomis (negligible difference).

UNIT DIMENSIONS

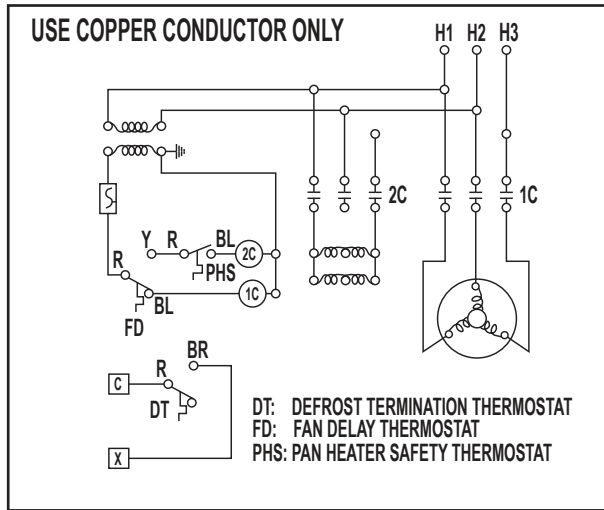


# FAN	UNIT DIMENSIONS (INCHES)					
	W*	H	B	C	D	E
1 X 1	54 1/4	22 5/8	41 1/2	-	-	-
1 X 2	94 1/4	23 3/8	40	41 1/2	-	-
1 X 3	134 1/4	24 1/4	40	41 1/2	40	-
1 X 4	134 1/4	29 1/4	30	30	31 1/2	30

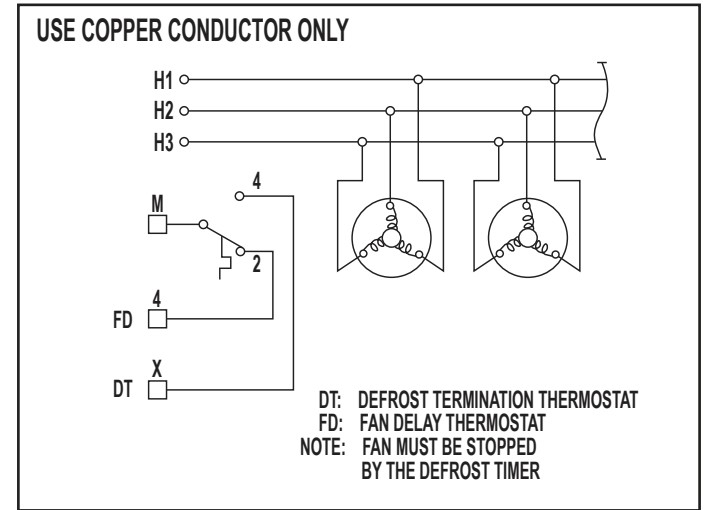
* ±1/2"

TYPICAL WIRING DIAGRAMS

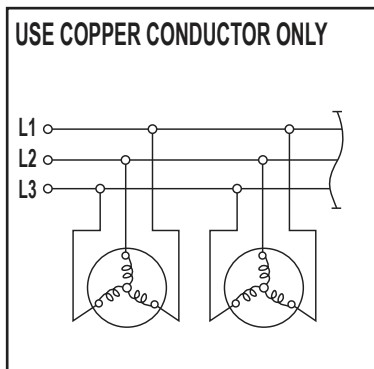
LMG & LMH



LMR & LMT

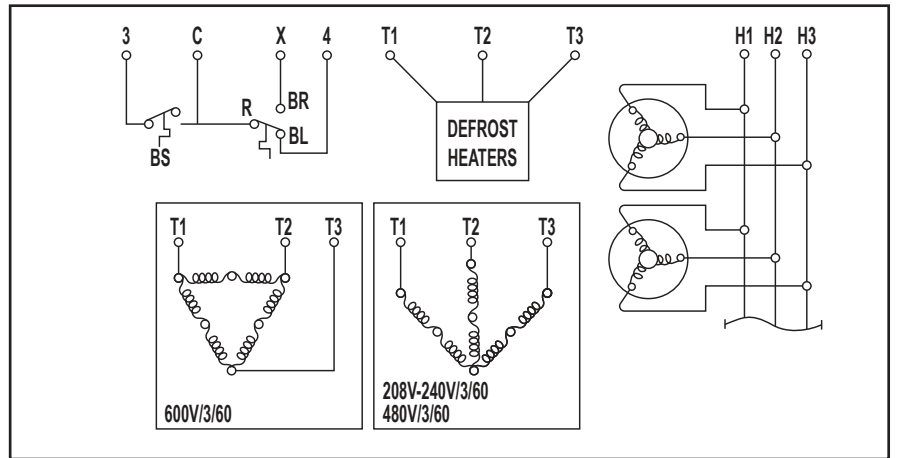


LMA

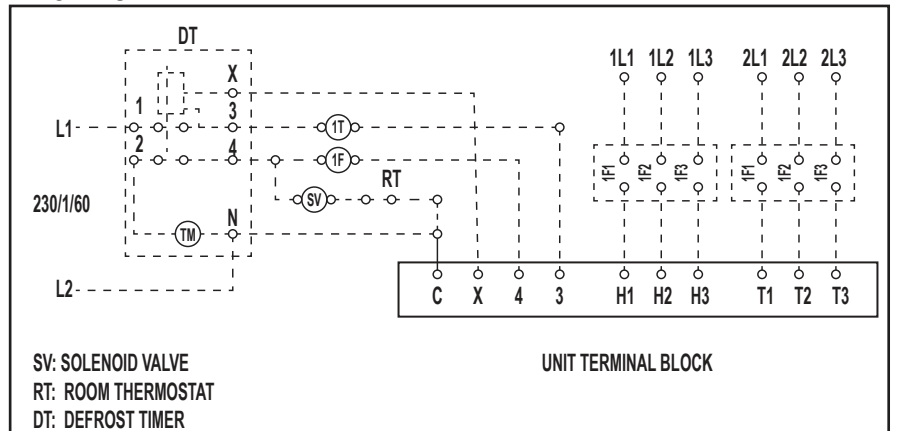


LME

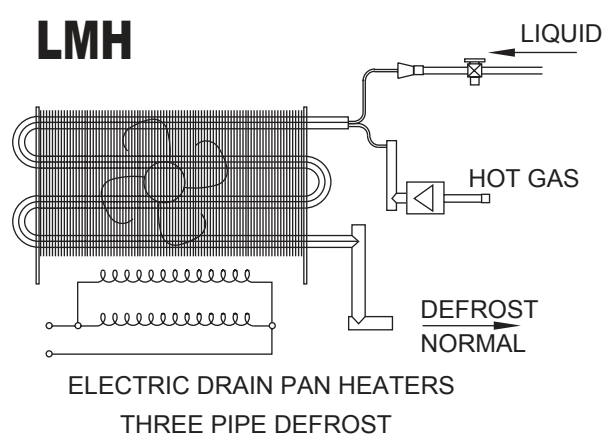
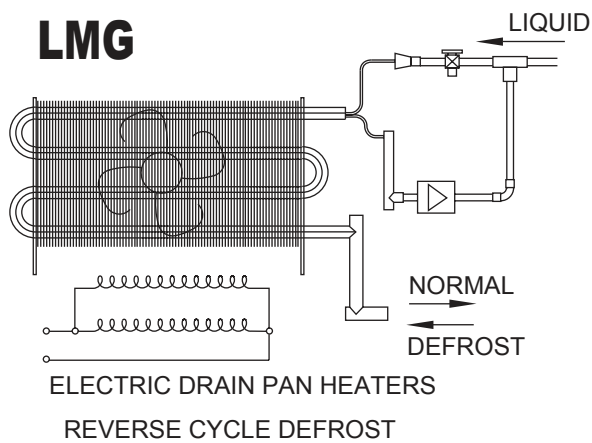
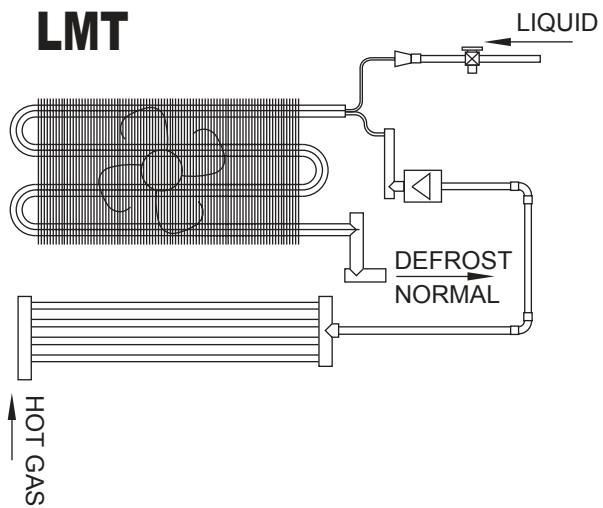
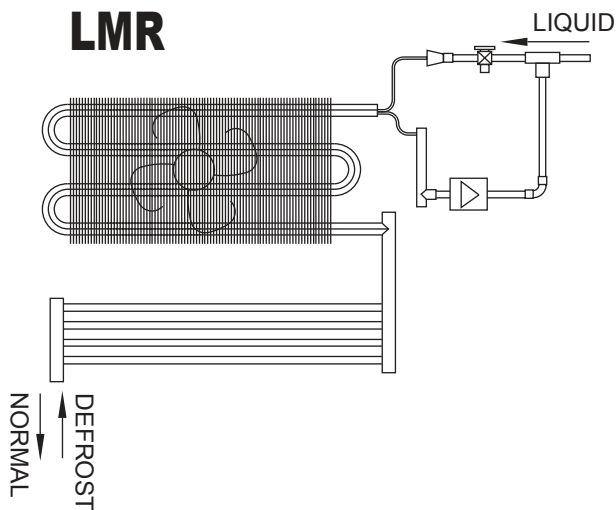
UNIT WIRING



PILOT DUTY



TYPICAL PIPING DIAGRAMS





Redefining Defrost & Temperature Control

Guardian+ controls both temperature and defrost, providing you with precision set-point and temperature measurement.

It also provides energy savings, 15 to 50% over mechanically controlled systems. Ideal for walk-in coolers, closed door display cases, refrigerated warehouses, meat prep rooms, walk-in freezers and blast freezers.

Guardian+ eliminates unnecessary defrosts typically associated with time-based alternatives thus reducing energy consumption & preserving product integrity.

It also eliminates multiple mechanical controls with precise electronic control.

- Accurate temperature control helps increase product shelf life
- Visual Alarming – High temp/Low temp/Sensor
- Compressor protection – Maximum starts per hour
- Local / Web-based access to monitor and control system operations (Smart Access)
- Key pad lockout prevents unauthorized adjustments



Improved Defrost Efficiency:

Off time defrost on schedule or custom defrost

Manual defrost

Minimizes frost on evaporator for superior efficiency

Eliminates ice formation on floors and ceilings for a safer working place

Eliminates ice formation on products

Post Defrost Indicator reduces service calls, alerts users when controller is coming out of defrost

First year **FREE** Smart Access remote monitoring!



Combine your selected unit with the Guardian+
defrost option to obtain an EcoEfficient+ system
and optimize your energy efficiency.

eco**efficient+**



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