

# LENNOX®

ENGINEERING DATA

ZONING SYSTEMS - 50HZ

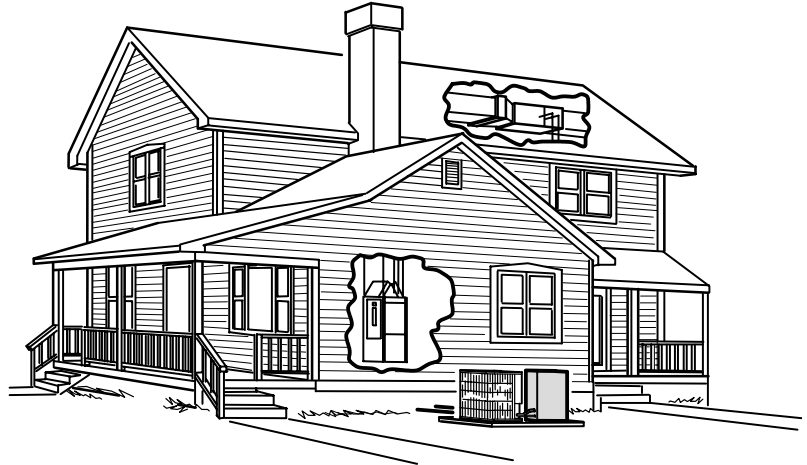
## RTM21

### ZoneMaster™ 2100 System Refrigerant Tank Module

Bulletin No. 490067  
August 1999  
Supersedes October 1994



Typical Application



#### FEATURES

##### Applications

- Expansion valve refrigerant system designed to give Lennox heating/cooling equipment the ability to condition up to five separate zoning applications.
- Consists of ZoneMaster 2100 Tank Module and HS29 condensing unit matched with multiple blower coil units or multiple furnaces with add-on coils.
- See Ratings table for match-ups and ratings available.  
Each zone individually sized for heating/cooling load and controlled by control panel in conjunction with a thermostat in each zone.
- Each evaporator coil is equipped with an expansion valve and a solenoid valve.
- Thermostats, expansion valves and evaporator control kits are not furnished and must be ordered extra.
- Single condensing unit with multiple heating/evaporator units configuration results in lower equipment and installation costs.
- See HS29 condensing unit bulletin in Cooling Units - Split System Condensing Units tab section for complete unit data.
- For matching blower-coil units, see tab section Blower Coil units.
- For matching add-on evaporator units, see tab section Coils.
- See tab section, Gas Units for furnace selection.

##### Cabinet

- Constructed of heavy gauge steel with a durable enamel paint finish and a removable cover.
- Control box conveniently located on front of unit for easy access.
- Shipping weight: 43 kg (95 lbs).

##### Control Box

- Contains low voltage terminal blocks for ease of connecting system components.
- Time delay function prevents short cycling of solenoid valves.
- Power requirements: 24VAC.
- All controls are pre-wired at the factory.

##### Service Valves

- Fully serviceable brass service valves prevent corrosion and provide easy access to refrigerant system.
- Suction valve can be fully shut off, while liquid valve may be backseated to manage refrigerant charge while servicing system.

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

### Expansion Valve Kits

- Must be ordered extra and field installed on certain evaporator unit.
- See Ratings table for kit requirement.
- One valve is required for each evaporator unit.

### Chatleff to Flare Adaptor Kits

- Kit LB-86361 (**58J97**) must be ordered extra and field installed on evaporator units with flare fittings.
- One kit required for each evaporator unit.

### Evaporator Unit Control Kit

- Kit (**62J90**) contains solenoid valve, sight glass and 9.5 mm (3/8 inch) (outside diameter) copper elbow.
- One kit required for each evaporator unit.

### Thermostats

- Thermostats are not furnished and must be ordered extra.
- See Lennox Price Book.
- One thermostat is required for each zone.
- Any single stage heat/single stage cool or any programmable thermostat may be used.

### Transformer

- 24 volt transformer for zone thermostat is not furnished and must be ordered extra.
- See Lennox Price Book.

## SPECIFICATIONS

Model No.	RTM21
Accumulator — diameter x height — mm (in.)	152 x 457 (6 x 18)
Receiver — diameter x height — mm (in.)	152 x 457 (6 x 18)
Receiver pump down capacity — kg (lbs.)	7.3 (16)
Liquid line connections (outside diameter) — mm (in.) sweat	(5) 16 (5/8)
Suction line connections (outside diameter) — mm (in.) sweat	(5) 28.6 (1-1/8)
Hot gas by-pass line connection (outside diameter) — mm (in.)	16 (5/8)
Electrical characteristics - 50hz	24 volt - 1 phase
Shipping weight — kg (lbs.) 1 package	43 (95)
OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA	
Control kit (for evaporator units)	<b>62J90</b>

## MINIMUM ZONE REQUIREMENTS

Unit Model No.	Condensing Unit Capacity		Minimum Zone Evaporator Capacity	
	kW	Tons	kW	Tons
RTM21	11.0	3	2.6	0.75
	14.0	4	2.6	0.75
	18.0	5	2.6	0.75

NOTE — The condensing unit should not operate on less than the equivalent size evaporator listed in the table. This can be accomplished with a single evaporator or two evaporators electrically or mechanically linked together.

## RATINGS

NOTE — The ratings in this table reflect typical unit combinations. Other combinations may be applied within system design limitations. Lennox recommends that the peak evaporator capacity not exceed the condensing unit capacity by more than 25%.

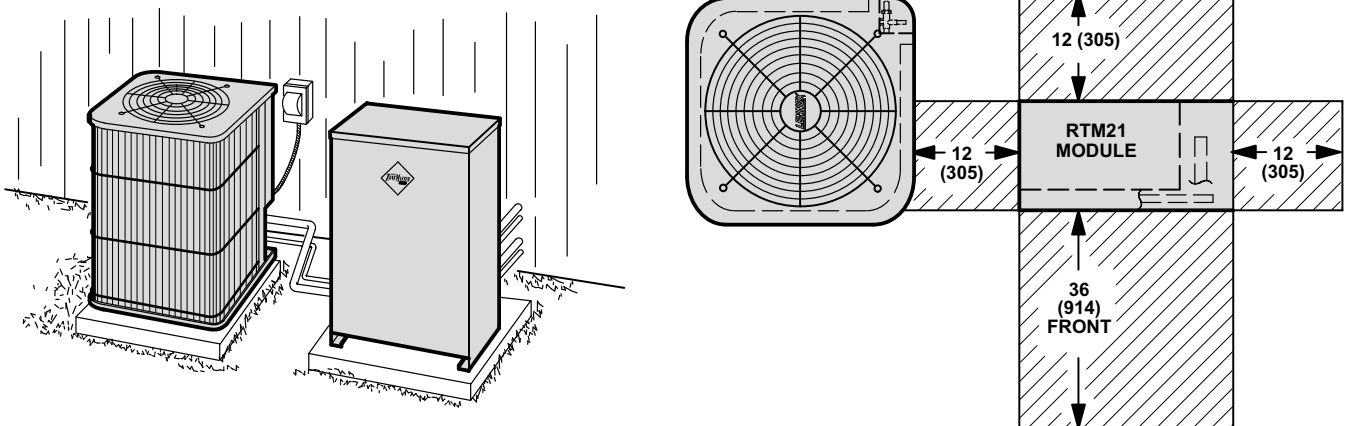
Condensing Unit Model Number (*Sound Rating Number-bels)	●Cooling Ratings					Evaporator Unit			①Expansion Valve Kit Required
	Total Cooling Capacity		Total Power Input kW	Coefficient of Performance (Output/Input)	Energy Efficiency Ratio (Btuh/Watt)	Up-Flow	Horizontal	LXWM WallMount or LXCM Ceiling Mount Blower Coil Unit	
	kW	Btuh							
HS29-036 (76)	10.9	37 100	3.6	3.0	10.4	----	----	(4) LXWM15 or (4) LXCM15	LB-85663L (26K49) and LB-86361 (58J97) One of each required per zone.
	11.3	38 400	3.6	3.1	10.6	----	----	(5) LXWM10 or (5) LXCM10	
HS29-048 (82)	13.1	44 700	4.8	2.8	9.4	----	----	(4) LXWM20 or (4) LXCM20	
	13.3	45 400	4.8	2.8	9.5	----	----	(5) LXWM15 or (5) LXCM15	
HS29-060 (80)	16.4	55 800	5.5	3.0	10.1	----	----	(5) LXWM20 or (5) LXCM20	
	16.6	56 500	5.7	2.9	9.9	(4) C23-26	----	----	
	17.1	58 200	5.8	3.0	10.1	(4) CB29M-21/26		----	Factory Installed

\*Sound rating number rated at test conditions for Air-Conditioning and Refrigeration Institute (ARI) Standard 270.

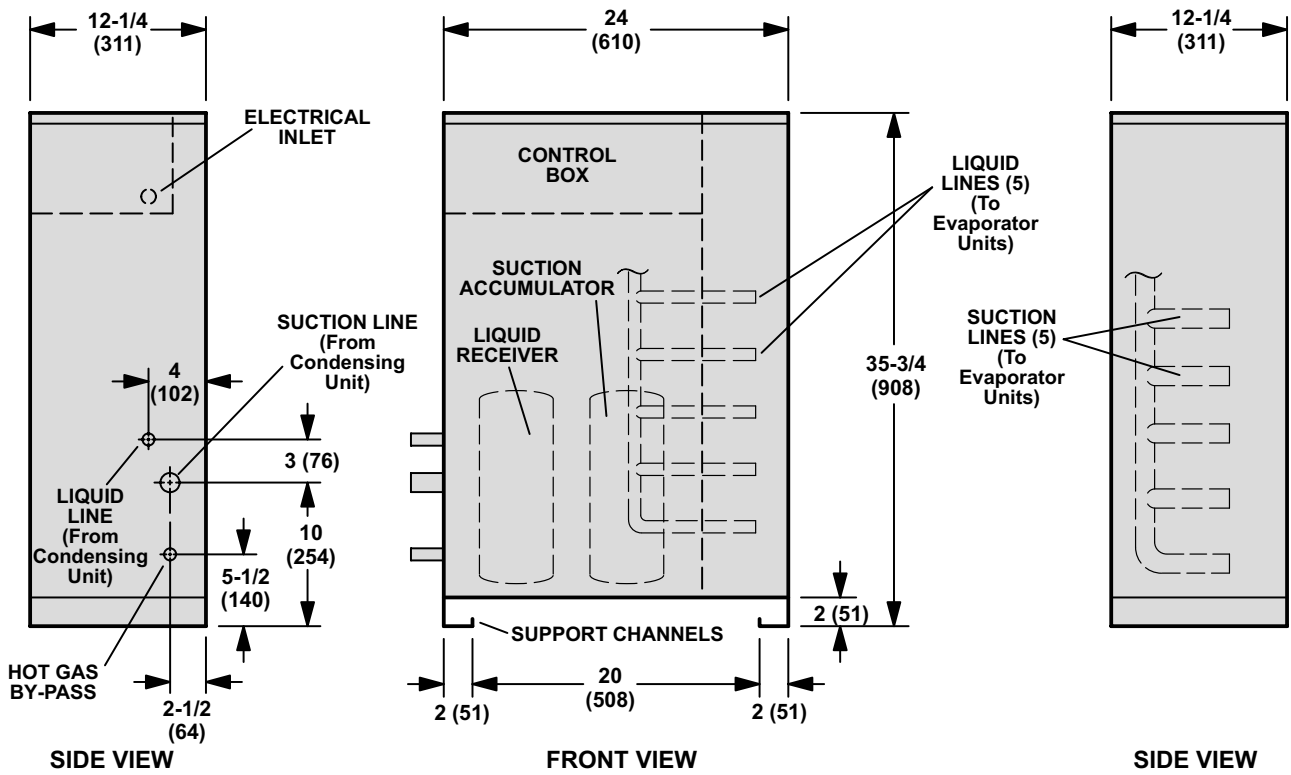
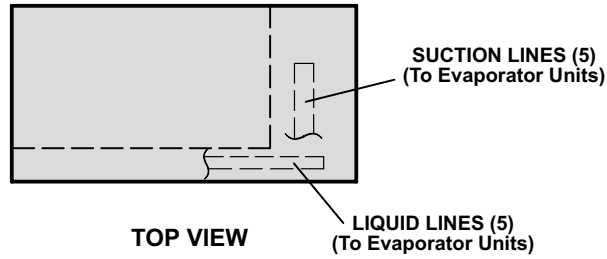
●The rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 210/240-89 while operating at rated voltage and air volumes.  
**Cooling Ratings** — 35°C (95°F) outdoor air temperature, 26.7°C (80°F) dry bulb and 19.4°C (67°F) wet bulb entering evaporator air with 6.0 m (20 feet) of connecting refrigerant lines.

①Expansion valve kit must be ordered extra. One required per zone. LXCM and LXWM units require a chatleff to flare adaptor kit (58J97).

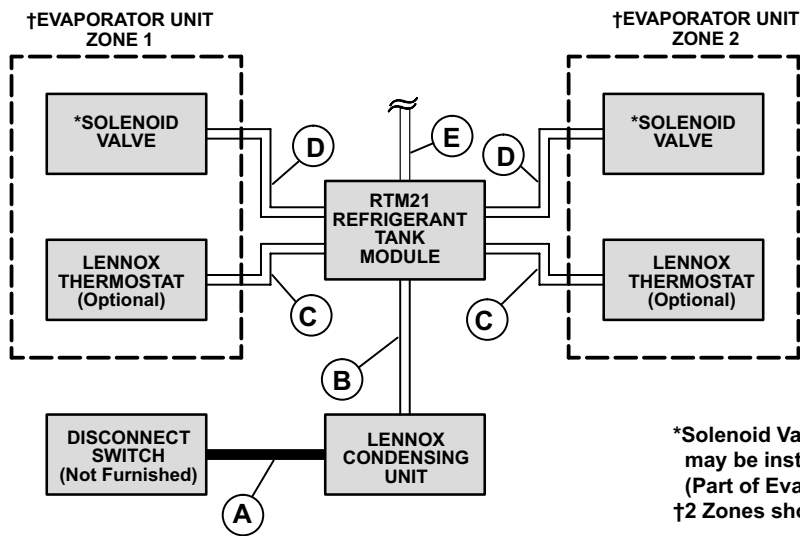
## INSTALLATION CLEARANCES - INCHES (MM)



**DIMENSIONS - INCHES (MM)**



## TYPICAL FIELD WIRING



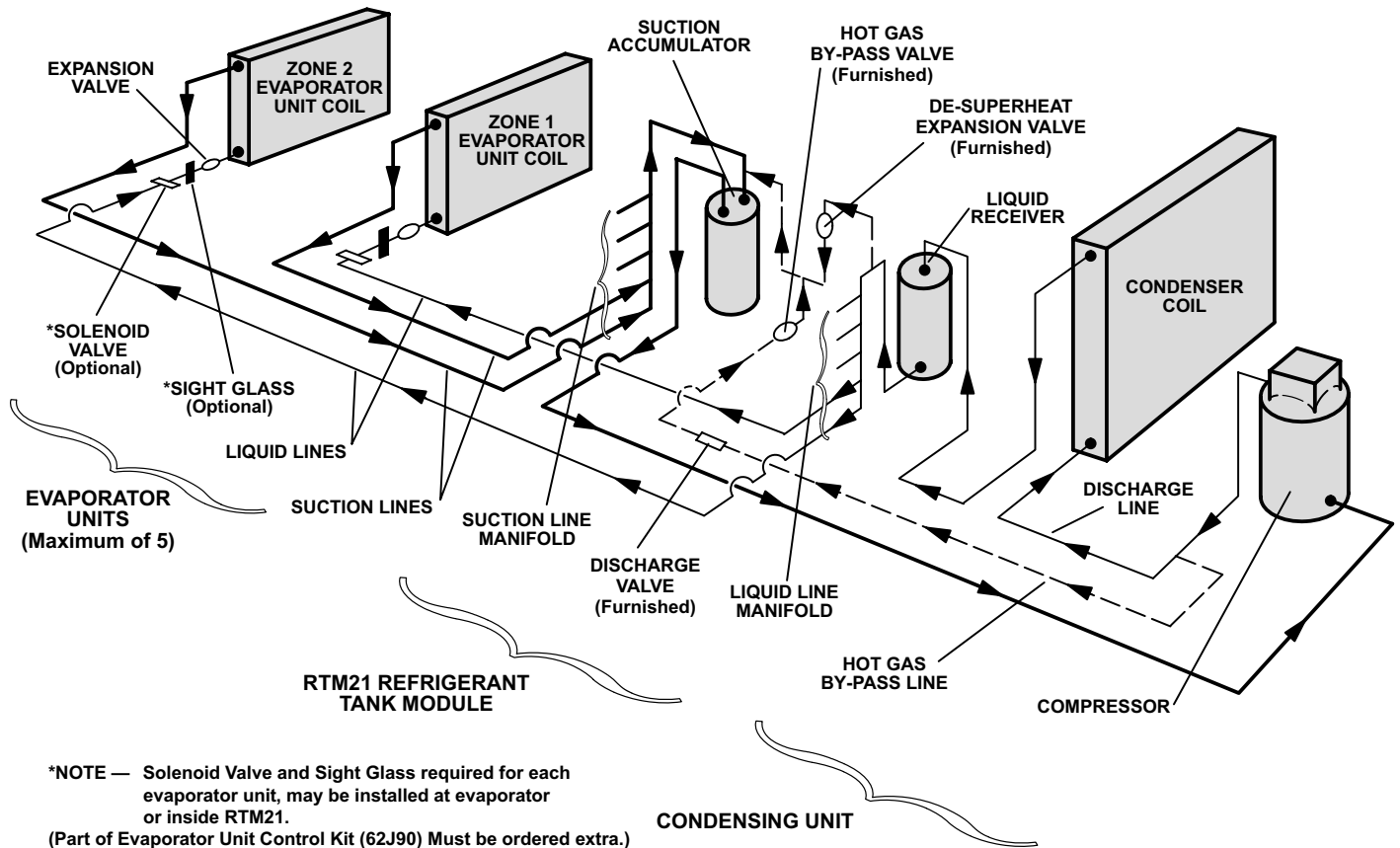
- A — Single Phase, Three Phase with Neutral or Three Phase — See Electrical Data
- B — Two wire 24V
- C — Two wire 24V
- D — Two wire 24V
- E — Two wire 24V power

NOTE — Field wiring not furnished by Lennox.

All wiring must conform to local electrical codes.

**\*Solenoid Valve required for each evaporator unit, may be installed at evaporator or inside RTM21. (Part of Evaporator Unit Control Kit (62J90)**  
**†2 Zones shown — May be up to 5 zones.**

## TYPICAL REFRIGERANT PIPING - TWO ZONE SYSTEM SHOWN



**\*NOTE — Solenoid Valve and Sight Glass required for each evaporator unit, may be installed at evaporator or inside RTM21. (Part of Evaporator Unit Control Kit (62J90) Must be ordered extra.)**

## RATINGS - 50 HZ

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data Section.

### HS29-036 (4) LXWM15 OR (4) LXCM15

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)		
			L/s	cfm	kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb
					24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	425	900	10.5	35 700	2.71	.67	.83	.99	9.9	33 700	2.93	.69	.86	1.00	9.3	31 800	3.15	.71	.90	1.00	8.7	29 700	3.36	.74	.94	1.00
	520	1100	10.9	37 100	2.75	.72	.92	1.00	10.3	35 100	2.98	.75	.95	1.00	9.7	33 100	3.21	.78	.99	1.00	9.1	31 100	3.44	.82	1.00	1.00
	615	1300	11.2	38 300	2.78	.78	.98	1.00	10.6	36 300	3.03	.81	1.00	1.00	10.1	34 400	3.27	.85	1.00	1.00	9.5	32 400	3.52	.89	1.00	1.00
19.4°C (67°F)	425	900	11.2	38 100	2.78	.52	.65	.79	10.6	36 000	3.02	.53	.66	.82	9.9	33 800	3.25	.54	.68	.86	9.3	31 600	3.47	.56	.71	.90
	520	1100	11.5	39 300	2.81	.55	.69	.87	10.9	37 100	3.05	.56	.71	.91	10.2	34 800	3.29	.58	.75	.95	9.5	32 400	3.52	.59	.78	.99
	615	1300	11.8	40 200	2.84	.58	.75	.95	11.1	37 900	3.09	.59	.78	.98	10.4	35 600	3.32	.61	.82	1.00	9.7	33 100	3.56	.63	.86	1.00
21.7°C (71°F)	425	900	12.0	40 900	2.86	.39	.51	.62	11.3	38 600	3.11	.39	.52	.64	10.6	36 200	3.36	.40	.53	.66	9.9	33 800	3.60	.40	.54	.68
	520	1100	12.3	42 000	2.89	.40	.54	.67	11.6	39 600	3.15	.40	.55	.69	10.9	37 100	3.40	.41	.56	.72	10.1	34 600	3.65	.42	.58	.75
	615	1300	12.5	42 800	2.92	.41	.57	.72	11.8	40 300	3.18	.42	.58	.75	11.0	37 700	3.43	.42	.60	.79	10.3	35 200	3.68	.43	.62	.84

### HS29-036 (5) LXWM10 OR (5) LXCM10

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)		
			L/s	cfm	kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb
					24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	545	1150	11.0	37 500	2.76	.72	.91	1.00	10.4	35 500	2.99	.74	.95	1.00	9.8	33 400	3.22	.76	.99	1.00	9.2	31 400	3.46	.80	1.00	1.00
	635	1350	11.3	38 700	2.79	.76	.98	1.00	10.8	36 700	3.04	.79	1.00	1.00	10.2	34 700	3.29	.83	1.00	1.00	9.6	32 700	3.53	.88	1.00	1.00
	730	1550	11.7	39 900	2.83	.82	1.00	1.00	11.1	37 900	3.08	.86	1.00	1.00	10.5	35 800	3.34	.90	1.00	1.00	9.9	33 700	3.59	.95	1.00	1.00
19.4°C (67°F)	545	1150	11.7	39 900	2.83	.55	.69	.86	11.0	37 600	3.08	.56	.71	.90	10.3	35 300	3.31	.57	.74	.95	9.6	32 900	3.54	.59	.77	.99
	635	1350	12.0	40 800	2.86	.57	.74	.94	11.3	38 400	3.10	.59	.76	.98	10.6	36 000	3.35	.61	.80	1.00	9.8	33 500	3.58	.63	.85	1.00
	730	1550	12.2	41 500	2.88	.60	.79	1.00	11.4	39 000	3.13	.62	.82	1.00	10.7	36 600	3.37	.64	.87	1.00	10.0	34 100	3.61	.66	.92	1.00
21.7°C (71°F)	545	1150	12.5	42 700	2.92	.40	.53	.67	11.8	40 300	3.17	.40	.55	.69	11.0	37 700	3.43	.41	.56	.71	10.3	35 100	3.67	.42	.58	.74
	635	1350	12.7	43 500	2.94	.41	.56	.71	12.0	41 000	3.20	.41	.58	.74	11.3	38 400	3.46	.42	.60	.77	10.5	35 700	3.71	.43	.62	.82
	730	1550	12.9	44 100	2.96	.42	.59	.76	12.2	41 500	3.22	.43	.61	.79	11.4	38 800	3.48	.43	.63	.84	10.6	36 100	3.73	.45	.65	.89

### HS29-048 (4) LXWM20 OR (4) LXCM20

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)		
			L/s	cfm	kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb
					24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	450	950	12.4	42 200	3.56	.65	.77	.90	11.8	40 100	3.82	.66	.79	.92	11.1	37 800	4.08	.67	.81	.95	10.4	35 500	4.34	.69	.84	.98
	545	1150	12.9	44 000	3.61	.68	.82	.96	12.2	41 700	3.89	.69	.85	.98	11.5	39 300	4.16	.71	.87	1.00	10.8	36 900	4.42	.74	.91	1.00
	635	1350	13.3	45 400	3.66	.71	.87	1.00	12.6	43 000	3.94	.73	.90	1.00	11.9	40 600	4.21	.76	.93	1.00	11.2	38 100	4.48	.78	.96	1.00
19.4°C (67°F)	450	950	13.3	45 400	3.66	.52	.62	.73	12.6	43 100	3.94	.52	.63	.75	12.0	40 800	4.22	.53	.64	.77	11.2	38 300	4.49	.54	.66	.80
	545	1150	13.8	47 100	3.71	.53	.65	.78	13.1	44 700	4.00	.54	.66	.81	12.4	42 200	4.29	.55	.68	.83	11.6	39 500	4.57	.56	.71	.86
	635	1350	14.2	48 400	3.75	.55	.69	.84	13.5	45 900	4.05	.56	.71	.86	12.7	43 200	4.34	.57	.73	.89	11.9	40 500	4.62	.59	.76	.93
21.7°C (71°F)	450	950	14.3	48 800	3.76	.40	.50	.59	13.6	46 400	4.06	.40	.51	.60	12.9	43 900	4.37	.40	.51	.62	12.1	41 200	4.66	.40	.52	.63
	545	1150	14.8	50 600	3.81	.40	.51	.63	14.1	48 000	4.12	.40	.52	.64	13.3	45 300	4.43	.41	.53	.66	12.5	42 500	4.73	.41	.54	.68
	635	1350	15.2	51 900	3.85	.41	.53	.66	14.4	49 200	4.17	.41	.54	.68	13.6	46 400	4.48	.42	.56	.70	12.7	43 500	4.78	.42	.57	.73

### HS29-048 (5) LXWM15 OR (5) LXCM15

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)		
			L/s	cfm	kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb			kW	Btuh	kW	Dry Bulb
					24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F				24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	545	1150	12.8	43 600	3.60	.68	.83	.96	12.1	41 400	3.88	.70	.85	.99	11.5	39 100	4.15	.72	.88	1.00	10.8	36 700	4.41	.74	.91	1.00
	635	1350	13.2	45 000	3.65	.72	.88	1.00	12.5	42 700	3.93	.74	.91	1.00	11.8	40 300	4.20	.76	.94	1.00	11.1	37 900	4.47	.79	.97	1.00
	730	1550	13.5	46 100	3.68	.76	.93	1.00	12.8	43 800	3.97	.78	.96	1.00	12.2	41 500	4.25	.81	.99	1.00	11.5	39 100	4.54	.84	1.00	1.00
19.4°C (67°F)	545	1150	13.7	46 600	3.70	.54	.66	.79	13.0	44 300	3.99	.54	.67	.81	12.3	41 800	4.27	.55	.69	.84	11.5	39 200	4.55	.56	.71	.87
	635	1350	14.0	47 900	3.73	.56	.69	.84	13.3	45 400	4.03	.57	.71	.87	12.5	42 800	4.32	.58	.73	.90	11.8	40 100	4.60	.59	.76	.94
	730	1550	14.3	48 800	3.76	.58	.73	.90	13.6	46 300	4.06	.59	.75	.93	12.8	43 600	4.35	.60	.78	.96	12.0	40 900	4.64	.62	.81	.99
21.7°C (71°F)	545	1150	14.7	50 000	3.80	.40	.52	.63	13.9	47 500	4.11	.41	.53	.65	13.2	44 900	4.41	.41	.54	.66	12.3	42 100	4.70	.41	.55	.68
	635	1350	15.0	51 200	3.83	.41	.54	.67	14.2	48 600	4.15	.41	.55	.69	13.4	45 800	4.45	.42	.56	.71	12.6	43 000	4.75	.42	.58	.73

# RATINGS - 50 HZ

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data Section.

## HS29-060 (5) LXWM20 OR (5) LXCM20

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F						
17.2°C (63°F)	755	1600	15.8	53 900	4.14	.69	.85	.99	15.1	51 400	4.48	.71	.88	1.00	14.3	48 900	4.83	.73	.90	1.00	13.6	46 500	5.18	.75	.93	1.00
	850	1800	16.1	55 000	4.18	.72	.90	1.00	15.4	52 500	4.52	.74	.92	1.00	14.7	50 000	4.88	.76	.95	1.00	13.9	47 500	5.23	.79	.98	1.00
	945	2000	16.4	56 100	4.20	.75	.94	1.00	15.7	53 500	4.56	.77	.96	1.00	15.0	51 100	4.92	.80	.98	1.00	14.2	48 600	5.29	.82	1.00	1.00
19.4°C (67°F)	755	1600	16.9	57 500	4.24	.54	.67	.81	16.1	54 900	4.60	.55	.68	.84	15.3	52 200	4.97	.56	.70	.86	14.5	49 500	5.34	.57	.72	.89
	850	1800	17.2	58 600	4.27	.55	.70	.86	16.4	55 800	4.64	.56	.71	.88	15.6	53 100	5.01	.57	.73	.91	14.7	50 300	5.38	.59	.76	.94
	945	2000	17.4	59 400	4.29	.57	.72	.90	16.6	56 600	4.66	.58	.75	.93	15.8	53 800	5.04	.59	.77	.95	14.9	51 000	5.41	.61	.80	.98
21.7°C (71°F)	755	1600	18.1	61 600	4.35	.40	.52	.64	17.2	58 800	4.74	.41	.53	.66	16.4	56 000	5.12	.41	.54	.67	15.6	53 100	5.52	.41	.55	.69
	850	1800	18.3	62 600	4.38	.41	.54	.67	17.5	59 800	4.77	.41	.55	.69	16.7	56 900	5.16	.41	.56	.71	15.8	53 900	5.56	.42	.57	.73
	945	2000	18.6	63 400	4.40	.41	.56	.70	17.7	60 500	4.79	.42	.57	.72	16.9	57 500	5.19	.42	.58	.74	16.0	54 600	5.59	.43	.59	.77

## HS29-060 (4) C23-26

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F						
17.2°C (63°F)	755	1600	15.9	54 100	4.15	.69	.85	.99	15.1	51 600	4.49	.71	.87	1.00	14.4	49 100	4.84	.72	.90	1.00	13.7	46 600	5.19	.74	.93	1.00
	895	1900	16.4	55 800	4.20	.73	.92	1.00	15.6	53 200	4.55	.75	.94	1.00	14.9	50 700	4.91	.78	.97	1.00	14.2	48 300	5.27	.80	.99	1.00
	1040	2200	16.8	57 300	4.23	.78	.97	1.00	16.1	54 800	4.60	.80	.99	1.00	15.3	52 300	4.97	.83	1.00	1.00	14.7	50 000	5.36	.86	1.00	1.00
19.4°C (67°F)	755	1600	16.9	57 700	4.25	.54	.67	.81	16.1	55 100	4.61	.55	.68	.83	15.4	52 500	4.98	.56	.70	.86	14.6	49 700	5.35	.57	.72	.89
	895	1900	17.4	59 300	4.29	.56	.71	.88	16.6	56 500	4.66	.57	.73	.90	15.7	53 700	5.03	.58	.75	.93	14.9	50 900	5.41	.60	.77	.96
	1040	2200	17.7	60 400	4.32	.59	.75	.94	16.9	57 500	4.69	.60	.78	.96	16.0	54 700	5.07	.61	.80	.99	15.2	51 800	5.45	.63	.83	1.00
21.7°C (71°F)	755	1600	18.1	61 800	4.36	.40	.52	.64	17.3	59 100	4.74	.40	.53	.66	16.5	56 200	5.13	.41	.54	.67	15.6	53 300	5.53	.41	.55	.69
	895	1900	18.6	63 300	4.40	.41	.55	.69	17.7	60 400	4.79	.41	.56	.70	16.8	57 400	5.19	.42	.57	.72	16.0	54 500	5.58	.42	.58	.74
	1040	2200	18.8	64 300	4.43	.42	.57	.73	18.0	61 400	4.82	.42	.59	.75	17.1	58 400	5.22	.43	.60	.78	16.2	55 300	5.63	.44	.62	.80

## HS29-060 (4)CB29M21/-26

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F						
17.2°C (63°F)	755	1600	16.3	55 600	4.19	.69	.85	.99	15.5	52 900	4.54	.70	.87	1.00	14.7	50 300	4.89	.72	.90	1.00	14.0	47 700	5.25	.74	.93	1.00
	895	1900	16.8	57 300	4.24	.73	.91	1.00	16.0	54 700	4.60	.75	.94	1.00	15.2	52 000	4.96	.77	.97	1.00	14.5	49 500	5.33	.80	.99	1.00
	1040	2200	17.3	58 900	4.28	.78	.97	1.00	16.5	56 300	4.65	.80	.99	1.00	15.8	53 800	5.04	.83	1.00	1.00	15.1	51 400	5.43	.86	1.00	1.00
19.4°C (67°F)	755	1600	17.4	59 400	4.30	.54	.66	.80	16.6	56 700	4.66	.55	.68	.83	15.8	53 900	5.04	.55	.69	.86	15.0	51 100	5.41	.56	.71	.89
	895	1900	17.9	61 100	4.34	.56	.71	.87	17.1	58 200	4.72	.57	.72	.90	16.2	55 300	5.10	.58	.75	.93	15.3	52 300	5.48	.59	.77	.96
	1040	2200	18.3	62 300	4.37	.58	.75	.94	17.4	59 300	4.76	.60	.78	.96	16.5	56 300	5.14	.61	.80	.99	15.6	53 400	5.53	.62	.83	1.00
21.7°C (71°F)	755	1600	18.7	63 700	4.41	.40	.52	.64	17.8	60 800	4.80	.40	.53	.65	17.0	57 900	5.20	.41	.54	.67	16.1	54 900	5.60	.41	.55	.69
	895	1900	19.1	65 300	4.46	.41	.55	.68	18.3	62 300	4.85	.41	.56	.70	17.3	59 200	5.26	.42	.57	.72	16.4	56 100	5.67	.42	.58	.74
	1040	2200	19.5	66 500	4.48	.42	.57	.72	18.6	63 400	4.89	.42	.58	.75	17.6	60 200	5.30	.43	.60	.77	16.7	57 000	5.71	.44	.61	.80