

Is your old Furnace ready for an upgrade?



LV-Z Series

Conventional Furnace Alternative

Features & Benefits

Versatility - The LV-Z Air Handler can be used with a boiler, dual purpose hot water heater, or heat pump for utilizing conventional duct systems. Cooling can be done with a chilled water or refrigerant coil.

Superior Fan Assembly - When used in new construction or retrofit installations with conventional duct systems, the higher static pressure provides for better air flow on long duct runs.

Compact - Attractive powder coated cabinets can be located in the highboy, horizontal or counter flow position and use considerably less space then the conventional style furnace.

Low Maintenance Cost - Quality components are selected for "off the shelf" replacement reducing operating and maintenance cost. Our single side access design reduces time in the field for replacements.

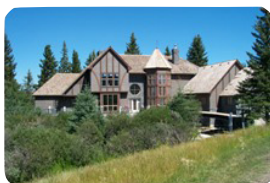
Quality Assured - All units are CSA and CE approved, with all water heating coils Warnock Hersey accepted for potable water service.



From the Manufacturers of

Hi-Velocity
Systems

Small Duct High Velocity Heating,
Cooling and IAQ Systems



Residential



Multi-family



Retrofit



Commercial

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For All of your Heating, Cooling and IAQ Needs

LV-Z Series

Conventional Furnace Alternative

Matching Coils
Refrigerant Coils
RBM/RPM-E/RCM-50, 70
Chilled Water Coils
WBM/WCM-50, 70,
WM-1750
Hot Water Coils
HWC-50, 70, 1750
Electrical Coils
ESH/VESH-650, 750, 2500

LV-Z-750

LV-Z-1050

LV-Z-1750

Hot Water Heating ⁽¹⁾	1.5 Ton Airflow (5.3 kW)	2 Ton Airflow (7.0 kW)	2.5 Ton Airflow (8.8 kW)	3 Ton Airflow (10.6 kW)	4 Ton Airflow (14.1 kW)	5 Ton Airflow (17.6 kW)
Coil	HWC-50	HWC-50	HWC-70 ⁽²⁾	HWC-70	HWC-1750	HWC-1750
Coil Type	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI	6 Row/12 FPI	6 Row/12 FPI
Max. BTUH @ 190°F E.W.T. (kW @ 88°C)	62,100 (18.2 kW)	76,000 (22.3 kW)	92,200 (27.0 kW)	112,700 (33.0 kW)	172,200 (50.5 kW)	201,500 (59.0 kW)
Max. BTUH @ 180°F E.W.T. (kW @ 82°C)	57,000 (16.7 kW)	69,700 (20.4 kW)	84,600 (24.8 kW)	103,300 (30.3 kW)	157,900 (46.3 kW)	184,800 (54.1 kW)
Max. BTUH @ 170°F E.W.T. (kW @ 77°C)	51,800 (15.2 kW)	63,300 (18.5 kW)	76,900 (22.5 kW)	93,900 (27.5 kW)	143,600 (42.1 kW)	168,100 (49.3 kW)
Max. BTUH @ 160°F E.W.T. (kW @ 71°C)	46,600 (13.7 kW)	57,000 (16.7 kW)	69,300 (20.3 kW)	84,600 (24.8 kW)	129,400 (37.9 kW)	151,300 (44.3 kW)
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	41,500 (12.2 kW)	50,700 (14.9 kW)	61,700 (18.1 kW)	75,200 (22.0 kW)	115,200 (33.8 kW)	134,600 (39.4 kW)
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	36,300 (10.6 kW)	44,400 (13.0 kW)	54,000 (15.8 kW)	65,900 (19.3 kW)	100,900 (29.6 kW)	118,000 (34.6 kW)
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	31,200 (9.1 kW)	38,100 (11.2 kW)	46,400 (13.6 kW)	56,600 (16.6 kW)	86,800 (25.4 kW)	101,300 (29.7 kW)
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	26,100 (7.6 kW)	31,800 (9.3 kW)	38,900 (11.4 kW)	47,300 (13.9 kW)	72,600 (21.3 kW)	84,800 (24.8 kW)
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	21,000 (6.2 kW)	25,600 (7.5 kW)	31,300 (9.2 kW)	38,100 (11.2 kW)	58,500 (17.1 kW)	68,200 (20.0 kW)
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)	5 (0.32 L/s)	7 (0.44 L/s)	7 (0.44 L/s)	10 (0.63 L/s)	10 (0.63 L/s)
Pressure Drop in FT. H ₂ O (Drop in KPa)	2.4 (7.17KPa)	2.4 (7.17KPa)	4.6 (13.75 KPa)	4.6 (13.75 KPa)	4.5 (13.45 KPa)	4.5 (13.45 KPa)
Chilled Water Cooling ⁽¹⁾	WBM/WCM-50	WBM/WCM-70 ⁽³⁾	WBM/WCM-70	WBM/WCM-100 ⁽³⁾	WM-1750	WM-1750
Coil Type	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI	6 Row/12 FPI	6 Row/12 FPI
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	18,700 (5.5 kW)	24,000 (7.0 kW)	28,300 (8.3 kW)	36,500 (10.7 kW)	51,600 (15.1 kW)	56,900 (16.7 kW)
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	20,400 (6.0 kW)	26,100 (7.6 kW)	30,800 (9.0 kW)	39,700 (11.6 kW)	56,000 (16.4 kW)	61,600 (18.0 kW)
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	22,000 (6.4 kW)	28,100 (8.2 kW)	33,300 (9.8 kW)	42,800 (12.5 kW)	60,400 (17.7 kW)	66,300 (19.4 kW)
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	23,600 (6.9 kW)	30,100 (8.8 kW)	35,800 (10.5 kW)	46,000 (13.5 kW)	64,800 (19.0 kW)	71,000 (20.8 kW)
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	25,100 (7.4 kW)	32,000 (9.4 kW)	38,200 (11.2 kW)	49,000 (14.4 kW)	69,000 (20.2 kW)	75,600 (22.2 kW)
S.H.R.						
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	77%	78%	76%	77%	77%	81%
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	74%	75%	73%	74%	74%	78%
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	71%	73%	71%	72%	72%	75%
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	69%	70%	69%	70%	69%	73%
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	68%	69%	67%	68%	68%	71%
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)	5 (0.32 L/s)	7 (0.44 L/s)	7 (0.44 L/s)	10 (0.63 L/s)	10 (0.63 L/s)
Pressure Drop in FT. H ₂ O (Drop in KPa)	2.71 (8.1 KPa)	3.05 (9.1 KPa)	5.44 (16.5 KPa)	6.42 (19.2 KPa)	5.33 (15.9 KPa)	5.33 (15.9 KPa)
Refrigerant Cooling ⁽¹⁾	RBM/RPM-E/ RCM-50/3rd Party		RBM/RPM-E/ RCM-70/3rd Party		N/A (3rd Party Only)	
RBM/RPM-E/RCM Modules BTUH Refrigerant TX Cooling	1.5 - 2.0 Tons (5.3-7.0 kW) 18,000 - 24,000 BTUH		2.5 - 3.0 Tons (8.8-10.6 kWh) 30,000 - 36,000 BTUH		3.5 - 5.0 Tons (12.3-17.6 kWh) 42,000 - 60,000 BTUH	
Electrical Heating	ESH/VESH-650		ESH/VESH-750		ESH/VESH-2500	
Kilowatt Range	5 - 15 kW		5 - 18 kW / 10 - 18 kW		10 - 25 kW	
Specifications	LV-Z-750		LV-Z-1050		LV-Z-1750	
Rated CFM @ 0.6" E.S.P. (L/s @ 149 Pa)	800 (378 L/s)		1200 (566 L/s)		2000 (944 L/s)	
Voltage	115/230/1/50/60 F.L.A. 8 amp		115/230/1/50/60 F.L.A. 8 amp		115/230/1/50/60 F.L.A. 8 amp	
Nominal Operating Amperage	4 Amps		6 Amps		8 Amps	
Integral Surge and Fuse System	Yes		Yes		Yes	
Horse Power - Nominal Watts	3/4hp - 420W		1/3hp - 515W		3/4hp - 695W	
Motor RPM	Variable		Variable		Variable	
Supply Air Size	13" x 17 1/4" (330mm X 438mm)		18" x 17 1/4" (457mm X 438mm)		22 1/2" x 22 1/2" (572mm X 572mm)	
Return Size Needed	152 in ² (0.1m ²)		182 in ² (0.12m ²)		240 in ² (0.15m ²)	
Shipping Weight (no coil)	63 lbs (28.6 kg)		71 lbs (32.2 kg)		107 lbs (48.5 kg)	
Air Handler Size (L x W x H)	14 1/2" x 18 1/4" x 32 5/16" (368mm x 464mm x 821mm)		19 1/2" x 18 1/4" x 32 5/16" (495mm x 464mm x 821mm)		26 3/4" x 24 1/4" x 38 3/4" (679mm x 616mm x 984mm)	

⁽¹⁾ Heating specs are rated at 68°F E.A.T., Cooling specs are rated at 80/67°F dB/wB.

⁽²⁾ WCM-100 will provide approximately the same heating capacities.

⁽³⁾ Use a full transition when using mismatched coil to ensure even airflow across the coil.

BTUH - British Thermal Units per Hour
E.W.T. - Entering Water Temperature
S.H.R. - Sensible Heat Ratio
GPM - US Gallons per Minute
L/s - Litres per Second
CFM - Cubic Feet per Minute

F.L.A. - Full-Load Amperage
RPM - Revolutions per Minute
E.S.P. - External Static Pressure
E.A.T. - Entering Air Temperature
dB/wB - Dry Bulb/Wet Bulb