

Is your old Furnace ready for an upgrade?



LV-Z Series

Conventional Furnace Alternative

Features & Benefits

Versatility - The LV-Z fan coil 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 Manufacturer of



Small Duct High Velocity Heating, Cooling and IAQ Systems



Residential



Multi-family



Retrofit



Commercial

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Module-LVZb-LV-Z-Series-Brochure-060113

For All of your Heating, Cooling and IAQ Needs

LV-Z Series

Conventional Furnace Alternative

Specifications

Matching Coils
Chilled Water Coils
WCM-50, WCM-70, WM-100
Hot Water Coils
HWC-50, HWC-70, HWC-100
Electrical Coils
ESH-750

Hot Water Heating

	LV-Z 1050				LV-Z 1750		
Coil Type	70/1050	70/1050	70/1050*1	70/1050*1	1750	1750	1750
Tonnage (kW)	1.5 (5.27kW)	2 (7.03 kW)	2.5 (8.78 kW)	3 (10.54 kW)	3.5 (12.30 kW)	4 (14.05 kW)	5 (17.57 kW)
Max. BTUH @ 190°F E.W.T. (kW @ 88°C)	50,100 (14.67)	63,200 (18.51)	75,200 (22.02)	86,000 (25.18)	112,800 (33.03)	125,500 (36.75)	149,200 (43.69)
Max. BTUH @ 180°F E.W.T. (kW @ 82°C)	45,900 (13.44)	58,000 (16.98)	69,000 (20.20)	78,900 (23.10)	103,400 (30.28)	115,100 (33.70)	136,800 (40.06)
Max. BTUH @ 170°F E.W.T. (kW @ 77°C)	41,800 (12.24)	52,800 (15.46)	62,700 (18.36)	71,700 (20.99)	94,200 (27.58)	104,700 (30.66)	124,400 (36.43)
Max. BTUH @ 160°F E.W.T. (kW @ 71°C)	37,700 (11.04)	47,500 (13.91)	56,500 (16.54)	64,600 (18.92)	84,800 (24.83)	94,300 (27.61)	112,100 (32.82)
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	33,600 (9.84)	42,300 (12.39)	50,300 (14.73)	57,400 (16.81)	75,500 (22.11)	83,900 (24.57)	99,700 (29.19)
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	29,400 (8.61)	37,000 (10.83)	43,900 (12.85)	50,100 (14.67)	66,100 (19.35)	73,400 (21.49)	87,000 (25.47)
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	25,200 (7.38)	31,700 (9.28)	37,500 (10.98)	42,700 (12.50)	56,600 (16.57)	62,800 (18.39)	74,400 (21.79)
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	21,100 (6.18)	26,500 (7.76)	31,500 (9.22)	35,900 (10.51)	47,400 (13.88)	52,600 (15.40)	62,300 (18.24)
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	17,100 (5.01)	21,400 (6.27)	25,500 (7.47)	29,100 (8.52)	38,300 (11.21)	42,600 (12.47)	50,500 (14.79)
GPM Flow ratings (L/s Flow Ratings)	5 (.32)	5 (.32)	5 (.32)	5 (.32)	10 (.63)	10 (.63)	10 (.63)
Pressure Drop FT. (m) H ₂ O (Drop in KPa)	3.9 (.97)	3.9 (.97)	3.9 (.97)	3.9 (.97)	3.1 (.77)	3.1 (.77)	3.1 (.77)
CFM @ 68°F E.A.T. (L/s @ 20°C E.A.T.)	420 (198)	560 (264)	700 (330)	840 (396)	980 (463)	1120 (529)	1400 (661)

Chilled Water Cooling

	LV-Z 1050				LV-Z 1750		
Coil Type	70/1050	70/1050	100/1050*2	100/1050*2	1750	1750	1750
E.W.T.							
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	20,200 (5.91)	23,800 (6.97)	31,500 (9.22)	34,900 (10.22)	46,700 (13.67)	50,400 (14.76)	56,200 (16.46)
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	22,000 (6.44)	25,800 (7.55)	34,200 (10.01)	37,900 (11.10)	50,700 (14.85)	54,600 (15.99)	60,900 (17.83)
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	23,700 (6.94)	27,800 (8.14)	37,000 (10.83)	40,800 (11.95)	55,000 (16.10)	58,800 (17.22)	65,500 (19.18)
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	25,400 (7.44)	29,900 (8.76)	39,600 (11.60)	43,800 (12.83)	58,300 (17.07)	62,900 (18.42)	70,000 (20.50)
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	27,000 (7.91)	31,800 (9.31)	42,200 (12.36)	46,600 (13.64)	62,100 (18.18)	66,900 (19.59)	74,500 (21.81)
S.H.R.							
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	69%	72%	71%	73%	69%	71%	74%
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	67%	70%	68%	70%	67%	68%	71%
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	65%	67%	66%	68%	65%	66%	69%
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	63%	66%	65%	66%	64%	65%	67%
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	62%	64%	63%	65%	62%	63%	65%
GPM Flow ratings (L/s Flow Ratings)	5 (.32)	5 (.32)	7 (.44)	7 (.44)	10 (.63)	10 (.63)	10 (.63)
Pressure Drop FT. (m) H ₂ O (Drop in KPa)	4.5 (1.12)	4.5 (1.12)	4.5 (1.12)	4.5 (1.12)	3.6 (.90)	3.6 (.90)	3.6 (.90)
CFM@80°F dB/67°F wB E.A.T.	525 (248)	700 (330)	875 (413)	1050 (496)	1225 (578)	1400 (661)	1750 (826)
(L/s @ 27dB/ wB 19°C)							

Electrical Heating

	LV-Z 1050	LV-Z 1750
Kilowatt Range	5 - 18 Kw	N/A

Fancoil

	LV-Z 1050	LV-Z 1750
Voltage	115/230/1/50/60 F.L.A. 8 amp	
Max Rated C.F.M. (Max Rated L/s)	1200 (566)	1750 (826)
Horse Power/Watts	1/3 HP EPC - 515w	3/4 HP EPC - 695w
R.P.M.	Variable	Variable
Integral Surge and Fuse System	Yes	Yes
Supply Air Size	15" X 16" (381mm X 406mm)	22.5" X 22.5" (572mm X 572mm)
Return Size Needed	182 in ² (0.12m ²)	240 in ² (0.12m ²)
Shipping Weight	95 lbs (43 kg)	125 lbs (43 kg)
Fan Coil Size	Length 32.5" (826mm)	39" (991mm)
	Width 19.5" (495mm)	26.75" (679mm)
	Height 18.5" (470mm)	24.25" (616mm)

*1 - WCM-100 will provide the same heating capacities at 7 GPM and 3.9 FT. H₂O (0.44L/s and 0.97 kPa)

*2 - Use a full transition when using the WCM-100 to ensure even airflow across the coil. The WCM-70 is not to be used at these airflow rates.

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