

Is your old Furnace ready for an upgrade?

Brochure-LV-Series-120121



LV Air Handler

Conventional Furnace Alternative

Features & Benefits

Versatility - The LV Lo-Velocity 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 than the conventional style furnace.

Factory Pre-Wired - Printed Circuit Board is heating and cooling ready. Pre-wiring reduces field labour and eliminates field control problems.

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.



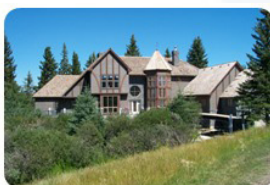
From the Manufacturers of



Small Duct High Velocity Heating,
Cooling and IAQ Systems

Find a Distributor in your area:

www.hi-velocity.com



Residential



Multi-family



Retrofit



Commercial

For All of your Heating, Cooling and IAQ Needs



LV Series

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	LV-50	LV-70	LV-120	LV-140
Hot Water Heating⁽¹⁾	2 Ton Airflow (7.0 kW)	3 Ton Airflow (10.6 kW)	4 Ton Airflow (14.1 kW)	5 Ton Airflow (17.6 kW)
Coil Type	6 row/10 FPI	6 row/10 FPI	6 row/10 FPI	6 row/10 FPI
Max. BTUH @ 190°F E.W.T. (kW @ 88°C)	74,300 (21.8 kW)	98,900 (29.0 kW)	148,700 (43.6 kW)	177,000 (51.9 kW)
Max. BTUH @ 180°F E.W.T. (kW @ 82°C)	68,000 (19.9 kW)	90,500 (26.1 kW)	136,100 (39.9 kW)	162,000 (47.5 kW)
Max. BTUH @ 170°F E.W.T. (kW @ 77°C)	61,600 (18.0 kW)	82,100 (24.0 kW)	123,500 (36.2 kW)	147,000 (43.1 kW)
Max. BTUH @ 160°F E.W.T. (kW @ 71°C)	55,400 (16.2 kW)	73,800 (21.6 kW)	110,900 (32.5 kW)	132,000 (38.7 kW)
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	49,100 (14.4 kW)	65,400 (19.2 kW)	98,400 (28.8 kW)	117,000 (34.3 kW)
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	42,800 (12.5 kW)	57,100 (16.7 kW)	85,900 (25.2 kW)	102,100 (30.0 kW)
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	36,600 (10.7 kW)	48,800 (14.3 kW)	76,400 (22.4 kW)	87,300 (25.6 kW)
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)	6 (0.38 L/s)	10 (0.63 L/s)	10 (0.63 L/s)
Pressure Drop in Ft. H ₂ O (Drop in KPa)	3 (8.97 KPa)	5 (14.94 KPa)	7 (20.92 KPa)	7 (20.92 KPa)
Chilled Water Cooling⁽¹⁾	WBM/WCM-50	WBM/WCM-70	WBM/WCM-100	WBM/WCM-100
Coil Type	6 row/10 FPI	6 row/10 FPI	6 row/10 FPI	6 row/10 FPI
WBM/WCM Modules in Cooling Mode				
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	22,547 (6.6 kW)	34,486 (10.1 kW)	50,968 (14.9 kW)	56,100 (16.4 kW)
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	24,149 (7.1 kW)	37,046 (10.9 kW)	54,761 (16.0 kW)	60,237 (17.7 kW)
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)	6 (0.38 L/s)	10 (0.63 L/s)	10 (0.63 L/s)
Pressure Drop in Ft. H ₂ O (Drop in KPa)	3 (8.97 KPa)	5 (14.94 KPa)	7 (20.92 KPa)	7 (20.92 KPa)
WBM/WCM Modules in Heating Mode				
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	23,400 (6.9 kW)	31,200 (9.1 kW)	46,900 (13.7 kW)	56,200 (16.5 kW)
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	29,000 (8.5 kW)	38,800 (11.4 kW)	58,300 (17.1 kW)	70,000 (20.5 kW)
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)	6 (0.38 L/s)	10 (0.63 L/s)	10 (0.63 L/s)
Pressure Drop in Ft. H ₂ O (Drop in KPa)	3 (8.97 KPa)	5 (14.94 KPa)	7 (20.92 KPa)	7 (20.92 KPa)
Refrigerant Cooling⁽¹⁾	RBM/RPM-E/RCM-50	RBM/RPM-E/RCM-70	N/A	N/A
RBM/RPM-E/RCM Modules BTUH Refrigerant TX Cooling	1.5-2.0 Tons (5.3-7.0 kW)	2.5-3.0 Tons (8.8-10.6 kW)	-	-
Electrical Heating	ESH/VESH-650	ESH/VESH-750	ESH/VESH-1100	ESH/VESH-1100
Kilowatt Range	10 - 15 kW / 5 - 15 kW	10 - 18 kW / 5 - 18 kW	10 - 23 kW	10 - 23 kW
Specifications	LV-50	LV-70	LV-120	LV-140
Max Rated CFM @ 0.5" E.S.P. (L/s @ 125 Pa)	750 (354 L/s)	1000 (472 L/s)	1500 (708 L/s)	2000 (944 L/s)
Voltage	115/1/50/60 F.L.A. 8 amp	115/1/50/60 F.L.A. 8 amp	115/1/50/60 F.L.A. 8 amp	115/1/50/60 F.L.A. 8 amp
Nominal Operating Amperage	4.2	4.2	4.2	7.5
Integral Surge and Fuse System	Yes	Yes	Yes	Yes
Horse Power	1/3	1/3	1/3	1/2
Motor RPM	1075	1075	1075	1625
Slo-Blo Fuse AMPs	2	2	2	2
Supply Air Size	13" x 17 ¹ / ₄ " (330mm x 438mm)	18" x 17 ¹ / ₄ " (457mm x 438mm)	24" x 17 ¹ / ₄ " (610mm x 438mm)	24" x 17 ¹ / ₄ " (610mm x 438mm)
Return Size Needed	140 in ² (0.09m ²)	170 in ² (0.10m ²)	220 in ² (0.14m ²)	220 in ² (0.14m ²)
Shipping Weight (no coil)	57 lbs (25.9 kg)	63 lbs (28.6 kg)	77 lbs (34.9 kg)	83 lbs (37.6 kg)
Air Handler Dimensions (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)	25 1/2" x 18 1/4" x 32 5/16" (648mm x 464mm x 821mm)	25 1/2" x 18 1/4" x 32 5/16" (648mm x 464mm x 821mm)

⁽¹⁾ Heating specs are rated at 65°F E.A.T., Cooling specs are rated at 80/67°F dB/wB

- Ratings based on water ONLY and will be reduced with glycol
- All dimensions may vary +/- by up to 0.5 of an inch.
- Smaller condensers may be matched to the air handler when needed, TXV to be matched with condenser size.
- Models LV-50 and LV-70 are factory wired for medium motor operating speed.

BTUH - British Thermal Units per Hour
E.W.T. - Entering Water Temperature
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