

Is your old Furnace ready for an upgrade?



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.



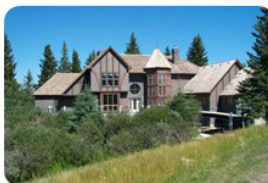
From the Manufacturers of

Hi-Velocity Systems

Small Duct High Velocity Heating,
Cooling and IAQ Systems

Find a Distributor in your area:

www.hi-velocity.com



Residential



Multi-family



Retrofit



Commercial

LV Series



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