



LV-Z Series Specifications

Low Velocity Fan Coil w/ VFD

Matching Coils
Chilled Water Coils
 WCM-70/1050, 100/1050
Hot Water Coils
 HWC-50, 70, 100
Electrical Coils
 ESH-750 (5-18 kW)

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)	3.5 Ton Airflow (12.30 kW)	4 Ton Airflow (14.1 kW)	5 Ton Airflow (17.6 kW)
Coil	70/1050	70/1050	70/1050 ⁽²⁾	70/1050 ⁽²⁾	1750	1750	1750
Coil Type	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI	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)	50,100 (14.67 kW)	63,200 (18.51 kW)	75,200 (22.02 kW)	86,000 (25.18 kW)	112,800 (33.03 kW)	125,500 (36.75 kW)	149,200 (43.69 kW)
Max. BTUH @ 180°F E.W.T. (kW @ 82°C)	45,900 (13.44 kW)	58,000 (16.98 kW)	69,000 (20.20 kW)	78,900 (23.10 kW)	103,400 (30.28 kW)	115,100 (33.70 kW)	136,800 (40.06 kW)
Max. BTUH @ 170°F E.W.T. (kW @ 77°C)	41,800 (12.24 kW)	52,800 (15.46 kW)	62,700 (18.36 kW)	71,700 (20.99 kW)	94,200 (27.58 kW)	104,700 (30.66 kW)	124,400 (36.43 kW)
Max. BTUH @ 160°F E.W.T. (kW @ 71°C)	37,700 (11.04 kW)	47,500 (13.91 kW)	56,500 (16.54 kW)	64,600 (18.92 kW)	84,800 (24.83 kW)	94,300 (27.61 kW)	112,100 (32.82 kW)
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	33,600 (9.84 kW)	42,300 (12.39 kW)	50,300 (14.73 kW)	57,400 (16.81 kW)	75,500 (22.11 kW)	83,900 (24.57 kW)	99,700 (29.19 kW)
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	29,400 (8.61 kW)	37,000 (10.83 kW)	43,900 (12.85 kW)	50,100 (14.67 kW)	66,100 (19.35 kW)	73,400 (21.49 kW)	87,000 (25.47 kW)
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	25,200 (7.38 kW)	31,700 (9.28 kW)	37,500 (10.98 kW)	42,700 (12.50 kW)	56,600 (16.57 kW)	62,800 (18.39 kW)	74,400 (21.79 kW)
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	21,100 (6.18 kW)	26,500 (7.76 kW)	31,500 (9.22 kW)	35,900 (10.51 kW)	47,400 (13.88 kW)	52,600 (15.40 kW)	62,300 (18.24 kW)
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	17,100 (5.01 kW)	21,400 (6.27 kW)	25,500 (7.47 kW)	29,100 (8.52 kW)	38,300 (11.21 kW)	42,600 (12.47 kW)	50,500 (14.79 kW)
GPM Flow ratings (L/s Flow Ratings)	5 (0.32 L/s)	5 (0.32 L/s)	5 (0.32 L/s)	5 (0.32 L/s)	10 (0.63 L/s)	10 (0.63 L/s)	10 (0.63 L/s)
Pressure Drop in FT. H ₂ O (Drop in KPa)	3.9 (11.66 KPa)	3.9 (11.66 KPa)	3.9 (11.66 KPa)	3.9 (11.66 KPa)	3.1 (9.27 KPa)	3.1 (9.27 KPa)	3.1 (9.27 KPa)

Chilled Water Cooling ⁽¹⁾	WCM-70/1050		WCM-100/1050		WM-1750		
Coil Type	70/1050	70/1050	100/1050 ⁽³⁾	100/1050 ⁽³⁾	1750	1750	1750
E.W.T.							
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	20,200 (5.91 kW)	23,800 (6.97 kW)	31,500 (9.22 kW)	34,900 (10.22 kW)	46,700 (13.67 kW)	50,400 (14.76 kW)	56,200 (16.46 kW)
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	22,000 (6.44 kW)	25,800 (7.55 kW)	34,200 (10.01 kW)	37,900 (11.10 kW)	50,700 (14.85 kW)	54,600 (15.99 kW)	60,900 (17.83 kW)
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	23,700 (6.94 kW)	27,800 (8.14 kW)	37,000 (10.83 kW)	40,800 (11.95 kW)	55,000 (16.10 kW)	58,800 (17.22 kW)	65,500 (19.18 kW)
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	25,400 (7.44 kW)	29,900 (8.76 kW)	39,600 (11.60 kW)	43,800 (12.83 kW)	58,300 (17.07 kW)	62,900 (18.42 kW)	70,000 (20.50 kW)
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	27,000 (7.91 kW)	31,800 (9.31 kW)	42,200 (12.36 kW)	46,600 (13.64 kW)	62,100 (18.18 kW)	66,900 (19.59 kW)	74,500 (21.81 kW)
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 (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)	10 (0.63 L/s)
Pressure Drop in FT. H ₂ O (Drop in KPa)	4.5 (13.45 KPa)	4.5 (13.45 KPa)	4.5 (13.45 KPa)	4.5 (13.45 KPa)	3.6 (10.76 KPa)	3.6 (10.76 KPa)	3.6 (10.76 KPa)

Electrical Heating	HV-750 ESH	N/A
Kilowatt Range	5 - 18 kW	N/A

Fan Coil Specifications	LV-Z-1050	LV-Z-1750
Max Rated CFM @ 1" E.S.P. (L/s @ 249 Pa)	1200 (566 L/s)	1750 (826 L/s)
Voltage	115/230/1/50/60 F.L.A. 8 amp	115/230/1/50/60 F.L.A. 8 amp
Nominal Operating Amperage	6 Amps	8 Amps
Integral Surge and Fuse System	Yes	Yes
Horse Power/Watts	1/3hp - 515W	3/4hp - 695W
Motor RPM	Variable	Variable
Supply Air Size	15" X 16" (381mm X 406mm)	22 1/2" X 22 1/2" (572mm X 572mm)
Return Size Needed	182 in ² (0.12m ²)	240 in ² (0.12m ²)
Shipping Weight (no coil)	95 lbs (43 kg)	125 lbs (43 kg)
Fan Coil Size	Length Width Height	Length Width Height
	32 5/16" (821mm) 19 1/2" (495mm) 18 1/4" (464mm)	38 3/4" (984mm) 26 3/4" (679mm) 24 1/4" (616mm)

⁽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 the WCM-100 to ensure even airflow across the coil. The WCM-70 is not to be used at these airflow rates.

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