



High Efficiency Heating, Cooling and Indoor Air Quality Systems

HE-Z Zoning Series

Hi-Velocity Air Handler w/ Multiple Collar Options



Comes complete with
Pre-Installed Zone Panel,
Power Open/Close
Dampers and Actuators

2, 3 or 4 Zone packages available now!

Eliminate unsightly wiring and external controls

Save time and money on field installation and materials

Easy maintenance with all components in one accessible location

Compatible with standard **third party thermostats** and **smart thermostats**

HE-Z variable speed controls **eliminate dump zones** and **minimize power draws**

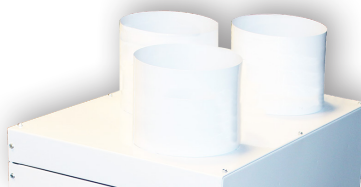
The **HE-Z Zoning package**, with multi-zone options, is available on our HE-Z Series Air Handlers. As stated by NRCan*, zoning can **reduce energy consumption up to 50%** with increased comfort.

The HE-Z Zoning package is designed for continuous circulation when the thermostat is satisfied, allowing for **increased filtration and fresh-air make-up** at all times. With the addition of adjustable dampers, by-pass can be adjusted for minimal circulation in all zones during demand times. With **fan power consumption as low as 50 watts**, the HE-Z Zoning package is the pinnacle in energy efficiency.

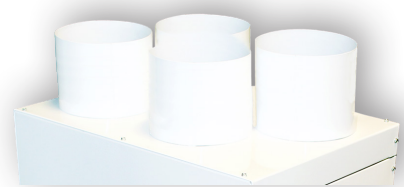
*NRCan (Natural Resources Canada)



2 Supply Collars



3 Supply Collars



4 Supply Collars

Matching Coils
Refrigerant Coils
RBM/RBM-I/RPM-E/
RCM/RCM-I-50, 70, 100
Chilled Water Coils
WBM/WCM-50, 70, 100
Hot Water Coils
HWC-50, 70, 100
Electrical Coils
ESH/VESH-650, 750, 1100



High Efficiency Heating, Cooling and Indoor Air Quality Systems

HE-Z Zoning Series

Hi-Velocity Air Handler w/ Multiple Collar Options



HE-Z-50 Z2, Z3, Z4

HE-Z-70 Z2, Z3, Z4

HE-Z-100 Z2, Z3, Z4

Hot Water Heating ⁽¹⁾	2 Ton Airflow (7.0 kW)		3 Ton Airflow (10.6 kW)		5 Ton Airflow (17.6 kW)	
Coil Type	6 Row/10 FPI		6 Row/10 FPI		6 Row/10 FPI	
Max. BTUH @ 190°F E.W.T. (kW @ 88°C)	59,400 (17.4 kW)		89,200 (26.1 kW)		134,000 (39.3 kW)	
Max. BTUH @ 180°F E.W.T. (kW @ 82°C)	54,500 (16.0 kW)		81,800 (24.0 kW)		122,900 (36.0 kW)	
Max. BTUH @ 170°F E.W.T. (kW @ 77°C)	49,600 (14.5 kW)		74,400 (21.8 kW)		111,800 (32.8 kW)	
Max. BTUH @ 160°F E.W.T. (kW @ 71°C)	44,600 (13.1 kW)		67,100 (19.7 kW)		100,700 (29.5 kW)	
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	39,700 (11.6 kW)		59,700 (17.5 kW)		89,700 (26.3 kW)	
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	34,700 (10.2 kW)		51,800 (15.2 kW)		78,400 (23.0 kW)	
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	29,700 (8.7 kW)		44,700 (13.1 kW)		67,100 (19.7 kW)	
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	24,800 (7.3 kW)		37,400 (11.0 kW)		56,200 (16.5 kW)	
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	20,100 (5.9 kW)		30,300 (8.9 kW)		45,500 (13.3 kW)	
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)		7 (0.44 L/s)		10 (0.63 L/s)	
Pressure Drop in Ft. H ₂ O (Drop in KPa)	3 (8.96 KPa)		6.5 (19.4 KPa)		6.8 (20.3 KPa)	
Chilled Water Cooling ⁽¹⁾	WBM/WCM-50		WBM/WCM-70		WBM/WCM-100	
Coil Type	6 Row/10 FPI		6 Row/10 FPI		6 Row/10 FPI	
WBM/WCM Modules in Cooling Mode	Total	Sensible	Total	Sensible	Total	Sensible
Max. BTUH @ 48°F E.W.T. (kW @ 8.9°C)	19,300 (5.7 kW)	13,700 (4.0 kW)	27,000 (7.9 kW)	19,200 (5.6 kW)	42,100 (12.3 kW)	30,300 (8.9 kW)
Max. BTUH @ 46°F E.W.T. (kW @ 7.8°C)	20,900 (6.1 kW)	14,200 (4.2 kW)	29,400 (8.6 kW)	20,000 (5.9 kW)	45,800 (13.4 kW)	32,100 (9.4 kW)
Max. BTUH @ 44°F E.W.T. (kW @ 6.7°C)	22,600 (6.6 kW)	14,900 (4.4 kW)	31,800 (9.3 kW)	21,000 (6.2 kW)	49,500 (14.5 kW)	33,700 (9.9 kW)
Max. BTUH @ 42°F E.W.T. (kW @ 5.6°C)	24,200 (7.1 kW)	15,700 (4.6 kW)	34,000 (10.0 kW)	21,800 (6.4 kW)	53,200 (15.6 kW)	35,100 (10.3 kW)
Max. BTUH @ 40°F E.W.T. (kW @ 4.4°C)	25,800 (7.6 kW)	16,300 (4.8 kW)	36,400 (10.7 kW)	23,000 (6.7 kW)	56,800 (16.6 kW)	36,400 (10.7 kW)
WBM/WCM Modules in Heating Mode	Total		Total		Total	
Max. BTUH @ 150°F E.W.T. (kW @ 66°C)	39,700 (11.6 kW)		59,700 (17.5 kW)		89,700 (26.3 kW)	
Max. BTUH @ 140°F E.W.T. (kW @ 60°C)	34,700 (10.2 kW)		51,800 (15.2 kW)		78,400 (23.0 kW)	
Max. BTUH @ 130°F E.W.T. (kW @ 54°C)	29,700 (8.7 kW)		44,700 (13.1 kW)		67,100 (19.7 kW)	
Max. BTUH @ 120°F E.W.T. (kW @ 49°C)	24,800 (7.3 kW)		37,400 (11.0 kW)		56,200 (16.5 kW)	
Max. BTUH @ 110°F E.W.T. (kW @ 43°C)	20,100 (5.9 kW)		30,300 (8.9 kW)		45,500 (13.3 kW)	
GPM Flow Ratings (L/s Flow Ratings)	5 (0.32 L/s)		7 (0.44 L/s)		10 (0.63 L/s)	
Pressure Drop in Ft. H ₂ O (Drop in KPa)	3 (8.97 KPa)		6.5 (19.4 KPa)		6.8 (20.3 KPa)	
Refrigerant Cooling ⁽¹⁾	RBM/RPM-E/RCM-50		RBM/RPM-E/RCM-70		RBM/RPM-E/RCM-100	
RBM/RPM-E/RCM Modules BTUH Refrigerant TX Cooling	1.5 - 2.0 Tons (5.3-7.0 kWh)		2.5 - 3.0 Tons (8.8-10.6 kWh)		3.5 - 5.0 Tons (12.3-17.6 kWh)	
Electrical Heating	ESH/VESH-650		ESH/VESH-750		ESH/VESH-1100	
Kilowatt Range (240v)	5 - 15 kW / 10 - 15 kW		5 - 18 kW / 10 - 18 kW		10 - 23 kW	
Specifications	HE-Z-50 Z2, Z3, Z4		HE-Z-70 Z2, Z3, Z4		HE-Z-100 Z2, Z3, Z4	
Max Rated CFM @ 1.2" E.S.P. (L/s @ 298 Pa)	500 (236 L/s)		750 (354 L/s)		1250 (590 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 - Watts	3/4hp - 310W		3/4hp - 530W		3/4hp - 720W	
Motor RPM	Variable		Variable		Variable	
Supply Air Size (2 Supply Collars)	2 x 8" round (203mm)		2 x 8" round (203mm)		2 x 10" round (254mm)	
Supply Air Size (3 Supply Collars)	2 x 8" round (203mm) 1 x 6" round (152mm)		3 x 8" round (203mm)		2 x 8" round (203mm) 1 x 10" round (254mm)	
Supply Air Size (4 Supply Collars)	4 x 6" round (152mm)		4 x 6" round (152mm)		4 x 8" round (203mm)	
Supply Maximum Length ⁽²⁾	70' (21.3m)		80' (24.4m)		100' (30.5m)	
Return Size Needed	12" (120 in ²) (305mm/774cm ²)		12" (120 in ²) (305mm/774cm ²)		14" (168 in ²)	
Minimum Outlets ⁽³⁾ (Total per Air Handler)	6 (HE) 12 (2")		10 (HE) 20 (2")		14 (HE) 28 (2")	
Maximum Outlets (Total per Air Handler)	13 (HE) 26 (2")		18 (HE) 36 (2")		30 (HE) 60 (2")	
Shipping Weight (no coil)	76/77/78 lbs (34.5/34.9/35.4 kg)		83/84/86 lbs (37.6/38.1/39.0 kg)		99/101/103 lbs (44.9/45.8/46.7 kg)	
Air Handler Dimensions (L x W x H) (Add 7 inches to height for collars)	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)	

⁽¹⁾ Maximum length is from the unit to the supply run end cap. More than one run per unit is allowable.

⁽²⁾ Minimum of **four HE outlets per ton** of cooling needed. (2" Duct = Minimum **eight 2" outlets per ton**)

⁽³⁾ Heating specs are rated at 68°F E.A.T., Cooling specs are rated at 80°F/67°F dB/wB

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