



Small Duct High Velocity Heating, Cooling and Indoor Air Quality Systems

Builders Series and Multi-Family Fan Coils



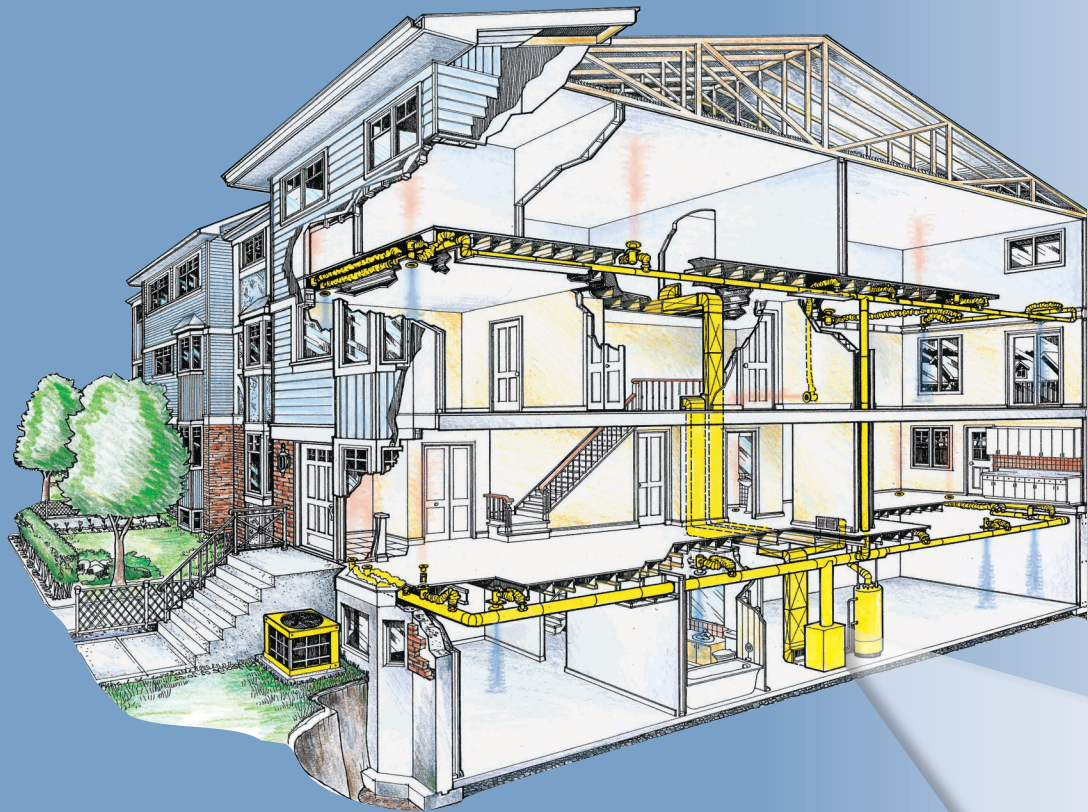
The Optimum
Multi-Family Heating,
Cooling and IAQ Solution

Manufactured by
**Energy
Saving**
PRODUCTS LTD

www.hi-velocity.com

When Every Square Foot Matters, Count On Hi-Velocity Systems™

Townhouse Construction



Save on Installation Costs

- Quick & Easy Installation
- Eliminates most drywall bulkheads
- Constant flow air circulation
- Adjustable vents maximize air control
- Flexible vent locations
- Air distribution from ceiling, floor or Sidewall
- 2" and HE Flexible Ducts

Reduce Installation Time!

Also Available: Non-Zoning HE-B Series

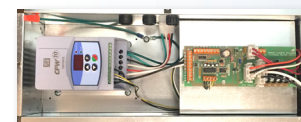
- Cost-Saving Series for applications that do not require zoning
- HEB Circuit Board allows for simple wiring with no fan speed adjustments necessary

Additional Components Easily Added

- Hi-Velocity Air Purification System
- Third-Party Humidifiers, HRV/ERV's

Improved Indoor Air Quality

- Draft free heating and cooling
- Even temperatures in every room
- Constant flow air circulation helps eliminate dust



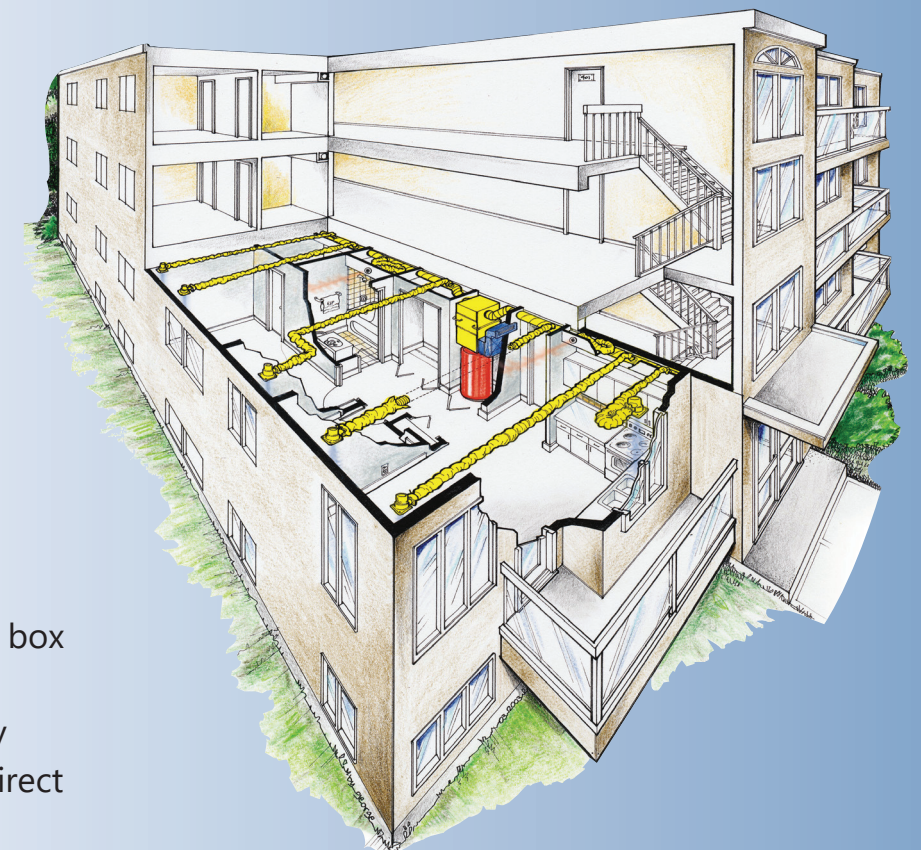
Featuring Inverter Drive Technology

- High Efficiency, reduce operating costs up to 50%
- 3-Phase motor will supply 1.5 to 5 tons (5.3 to 17.6 Kw) of air flow
- PSB Circuit Board allows for zoning right out of the box
- 110v supply comes standard, with optional 220v
- Utilizing Variable Frequency Drive (VFD) technology
- Dual function pressure sensing circuit board with direct control option

Multi-Positional Fan Coils

- Cooling capacities ranging from: 1.5 to 5 tons (5.3 to 17.6 Kw)
- Heating capacities up to: 140,000 BTU (41 Kw)
- Optional heating coil simply slides in place
- 3 independent field adjustable speeds:
 - Cooling
 - Heating
 - Constant Air Flow
- Installs, Vertically, Horizontally, Counter-Flow
- Single Side Access

Apartment Construction



1-888-652-2219

Manufactured by



www.hi-velocity.com

Hi-Velocity Builders Series Fan Coils

Model	HE-Z/B-50/51	HE-Z/B-70/71	HE-Z/B-100/101
Hot Water Heating	2 Ton Airflow (7.0 kW)	3 Ton Airflow (10.6 kW)	5 Ton Airflow (17.5 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)	5 (0.32 L/s)	7 (0.44 L/s)	10 (0.63 L/s)
Pressure Drop in FT. (m) H ₂ O	3 (9.15 KPa)	6.5 (19.8 KPa)	6.8 (20.7 KPa)
CFM @ 68°F E.A.T. (L/s @ 20°C E.A.T.)	470 (221 L/s)	700 (300 L/s)	1120 (528 L/s)

Chilled Water Cooling	2 Ton Airflow (7.0 kW)		3 Ton Airflow (10.6kW)		5 Ton Airflow (17.5 kW)	
Coil Type	6 Row/10 FPI		6 Row/10 FPI		6 Row/10 FPI	
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)
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)	5 (0.32 L/s)		7 (0.44 L/s)		10 (0.63 L/s)	
Pressure Drop in Ft. (m) H ₂ O	3 (9.15 KPa)		6.5 (19.8 KPa)		6.8 (20.7 KPa)	

Refrigerant Cooling	HE-Z-50	HE-Z-70	HE-Z-100
RPM Modules BTUH Refrigerant TX Cooling	1.5 - 2.0 Tons (3.5-6.4 kWh)	2.5 - 3.0 Tons (8.8-10.5 kWh)	3.5 - 5.0 Tons (12.3-17.5 kWh)

Electrical Heating	HE-Z-50	HE-Z-70	HE-Z-100
Kilowatt Range (240v)	5 - 15 kW	5 - 18 kW	5 - 23 kW

Fan Coil Specifications	HE-Z-50	HE-Z-70	HE-Z-100
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
Max Rated C.F.M. (L/s)	520 (245 L/s)	770 (363 L/s)	1260 (595 L/s)
Horse Power/Watts	3/4 - 310	3/4 - 530	3/4 - 720
R.P.M.	Variable	Variable	Variable
Integral Surge and Fuse System	Yes	Yes	Yes
Supply Air Size	8" round (203mm)	8" round (203mm)	10" round (254mm)
Supply Maximum Length ⁽¹⁾	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) (356mm/1084cm ²)
Minimum Outlets ⁽²⁾	12 (2") 6 (HE)	20 (2") 10 (HE)	28 (2") 14 (HE)
Maximum Outlets	24 (2") 12 (HE)	32 (2") 16 (HE)	52 (2") 26 (HE)
Shipping Weight	85 lbs (38.6 Kg)	97 lbs (44 Kg)	111 lbs (50.3 Kg)
Fan Coil Size	Length	32" (813mm)	32" (813mm)
	Width	14" (356mm)	19" (483mm)
	Height	18" (457mm)	18" (457mm)

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

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

BTUH - British Thermal Units per Hour
EWT - Entering Water Temperature
GPM - US Gallons per Minute

CFM - Cubic Feet per Minute
EAT - Entering Air Temperature
RPM - Revolutions per minute



Call 1-888-652-2219

Visit Us At

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Module-BLDb-HE-Z-Builders-Brochure-010118