

Hi-Velocity Systems™

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

HV Series

- Quiet Operation • Constant Air Circulation • Easy Installation & Maintenance
- Space Saving Small Diameter Ducts • Superior Heating, Cooling and IAQ
- Many Attractive Vent Plate Options • Eliminate Hot and Cold Spots



White Plastic

Stainless Steel

Antique Brass

Brushed Chrome

Silver Vein

Copper Vein

Black Wrinkle

Unfinished Maple

Unfinished Oak

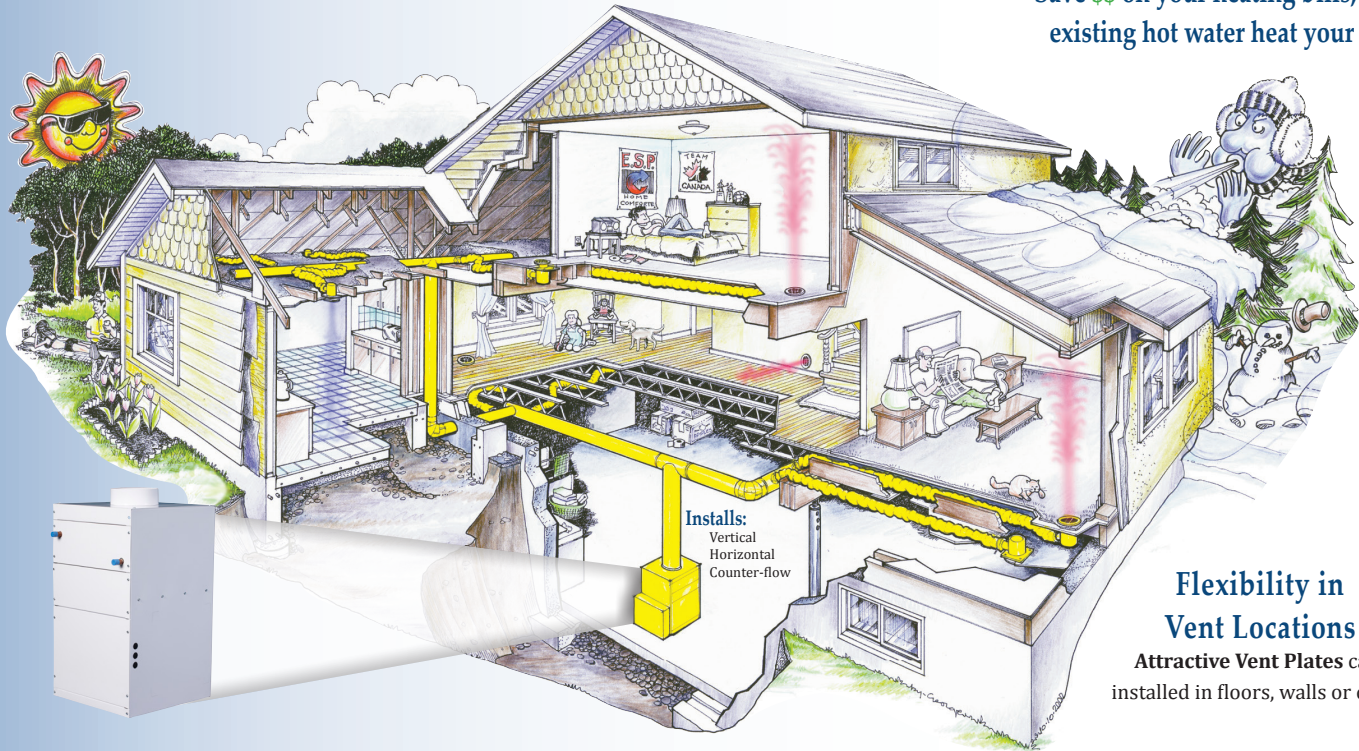
www.hi-velocity.com

Hi-Velocity Systems™

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

Comfort From Floor to Ceiling, Satisfaction From Room To Room.
See what makes us *Different*.

Save \$\$ on your heating bills, let your existing hot water heat your house!



Flexibility in Vent Locations

Attractive Vent Plates can be installed in floors, walls or ceilings.



Our Vent Plates can be stained, painted or even wallpapered to **match your decor!**

Third Party Components Easily Added

- Humidifiers
- HRV/ERVs

Improved Indoor Air Quality

- **Draft free** heating and cooling
- **Even temperatures** in every room
- Constant air circulation helps eliminate dust
- Cooling mode can remove 30% more moisture from the air!

Single Side Access Fan Coils

- **Cooling Capacities** ranging from: 1.5 to 5 tons (5.3 to 17.6 Kw)
- **Heating Capacities** up to: 140,000 btuh (41 Kw)
- Optional **Heating Coil** simply slides in place
- Comes **Pre-Wired** for Heating, Cooling and Ventilation so no additional controls are needed



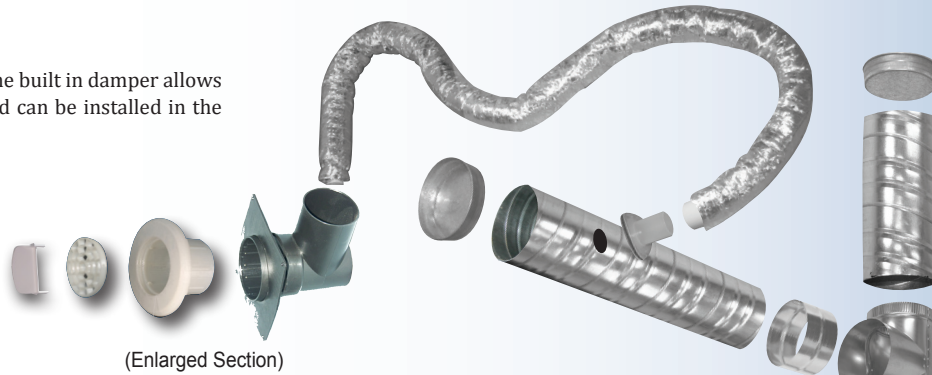
Manufactured by
Energy Saving
PRODUCTS LTD.

The Modern Solution for all of your Heating, Cooling and Indoor Air Quality Needs.

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Rough-In Boot

Is quickly and easily installed, the built in damper allows for individual room comfort and can be installed in the floor, ceiling or sidewall.



Damper Key

Designed to fit into the vent plate to allow for easy airflow adjustment.

(Enlarged Section)

Branch Take-Off

Shaped to fit the plenum making it easier to install and includes a gasket for an airtight seal.

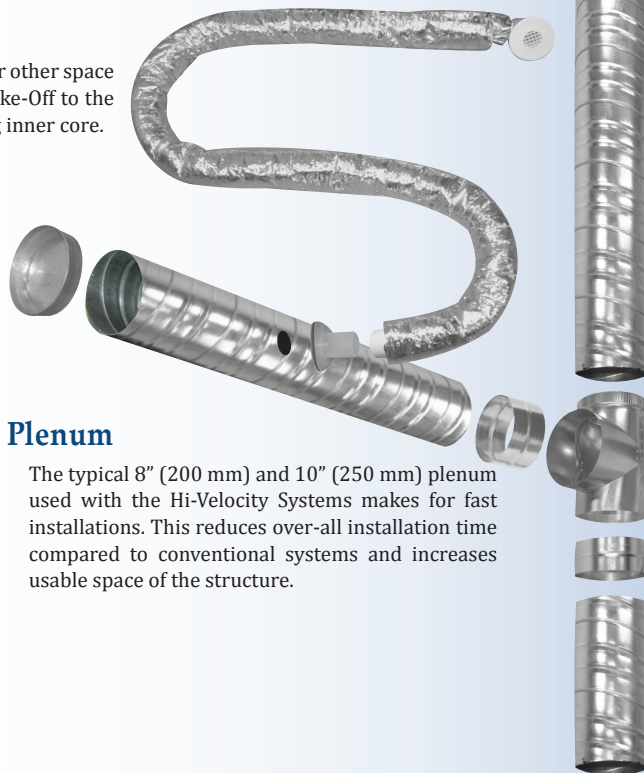
Two Inch & HE Assembled Flexible Duct

The flexible duct can be installed along joists, in between walls or other space confined areas quickly and easily. Attached from the Branch Take-Off to the Rough-In Boot delivering the air quietly with a sound absorbing inner core.



HE PS

Pair with the HE PS Hi-Velocity Air Purification System for unsurpassed Indoor Air Quality. See our website for details!



Plenum

The typical 8" (200 mm) and 10" (250 mm) plenum used with the Hi-Velocity Systems makes for fast installations. This reduces over-all installation time compared to conventional systems and increases usable space of the structure.

Heating and Cooling Modules

Many coil options are available for the Hi-Velocity unit to meet the challenges of today's demands.

Heating

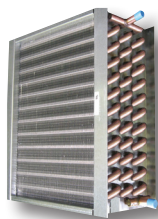
Can be supplied by:
Dual Purpose Hot Water Heaters, Boiler, Heat Pump, Geothermal and Electric Strip Coil.

Cooling

Can be supplied by:
Refrigerant, Chilled Water, Heat Pump and Geothermal.



Electric Strip Coils



Hot Water Coils



Chilled Water Modules



Refrigerant Modules



HV Series Fan Coil

For All of your Heating, Cooling and IAQ Needs

Model	HV-50/51	HV-70/71	HV-100/101
Hot Water Heating			
	2 Ton Airflow	3 Ton Airflow	5 Ton Airflow
Coil Type	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI
Max. BTUH @ 190°F E.W.T.	59,610 (17.5 kW)	81,935 (24.0 kW)	123,685 (36.2 kW)
Max. BTUH @ 180°F E.W.T.	54,646 (16.0 kW)	75,144 (22.0 kW)	113,444 (33.2 kW)
Max. BTUH @ 170°F E.W.T.	49,716 (14.6 kW)	68,387 (20.0 kW)	103,238 (30.3 kW)
Max. BTUH @ 160°F E.W.T.	44,786 (13.1 kW)	61,596 (18.1 kW)	92,998 (27.3kW)
Max. BTUH @ 150°F E.W.T.	39,856 (11.7 kW)	54,839 (16.1 kW)	82,792 (24.3 kW)
Max. BTUH @ 140°F E.W.T.	34,789 (10.2 kW)	47,980 (14.1 kW)	72,382 (21.2 kW)
Max. BTUH @ 130°F E.W.T.	29,757 (8.7 kW)	41,086 (12.3 kW)	61,971 (18.2 kW)
Max. BTUH @ 120°F E.W.T.	24,895 (7.3 kW)	34,398 (10.1 kW)	51,902 (15.2 kW)
Max. BTUH @ 110°F E.W.T.	20,136 (5.9 kW)	27,811 (8.2 kW)	42,003 (12.3 kW)
GPM Flow ratings	5 (0.32 L/s)	7 (0.44 L/s)	10 (0.63 L/s)
Pressure Drop in FT. H ₂ O	3 (9.15 KPa)	6.5 (19.8 KPa)	6.8 (20.7 KPa)
CFM @ 68°F E.A.T.	500	750	1100
Chilled Water Cooling			
	2 Ton Airflow	3 Ton Airflow	5 Ton Airflow
Coil Type (WCM Modules in Cooling Mode)	6 Row/10 FPI	6 Row/10 FPI	6 Row/10 FPI
Max. BTUH @ 44°F E.W.T.	24,400 (7.2 kW)	35,000 (10.3 kW)	51,000 (14.9 kW)
Max. BTUH @ 42°F E.W.T.	26,000 (7.6 kW)	37,800 (11.1 kW)	55,000 (16.1 kW)
(WCM Modules in Heating Mode)			
Max. BTUH @ 110°F E.W.T.	20,136 (5.9 kW)	27,811 (8.2 kW)	42,003 (12.3 kW)
Max. BTUH @ 120°F E.W.T.	24,895 (7.3 kW)	34,398 (10.1 kW)	51,902 (15.2kW)
GPM Flow Ratings	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			
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			
Kilowatt Range	5 - 15 kW	5 - 18 kW	5 - 23 kW
Fan Coil Specifications			
C.F.M. @ 1.2° E.S.P.	550	750	1100
Horse Power	1/4	1/3	1/2
R.P.M.	1625	1625	1625
Amps @ 115/1/60	4.5	5.0	7.5
Slo-Blo Fuse (AMPs)	2	2	2
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⁾	14 (2") 7 (HE)	20 (2") 10 (HE)	30 (2") 15 (HE)
Maximum Outlets	20 (2") 10 (HE)	29 (2") 14 (HE)	45 (2") 22 (HE)
Shipping Weight	80 lbs (36.2 Kg)	95 lbs (43.1 Kg)	115 lbs (52.2 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)



Call **1-888-652-2219**

Visit Us At

www.hi-velocity.com

