

Hi-Velocity Systems™

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

Commercial Applications

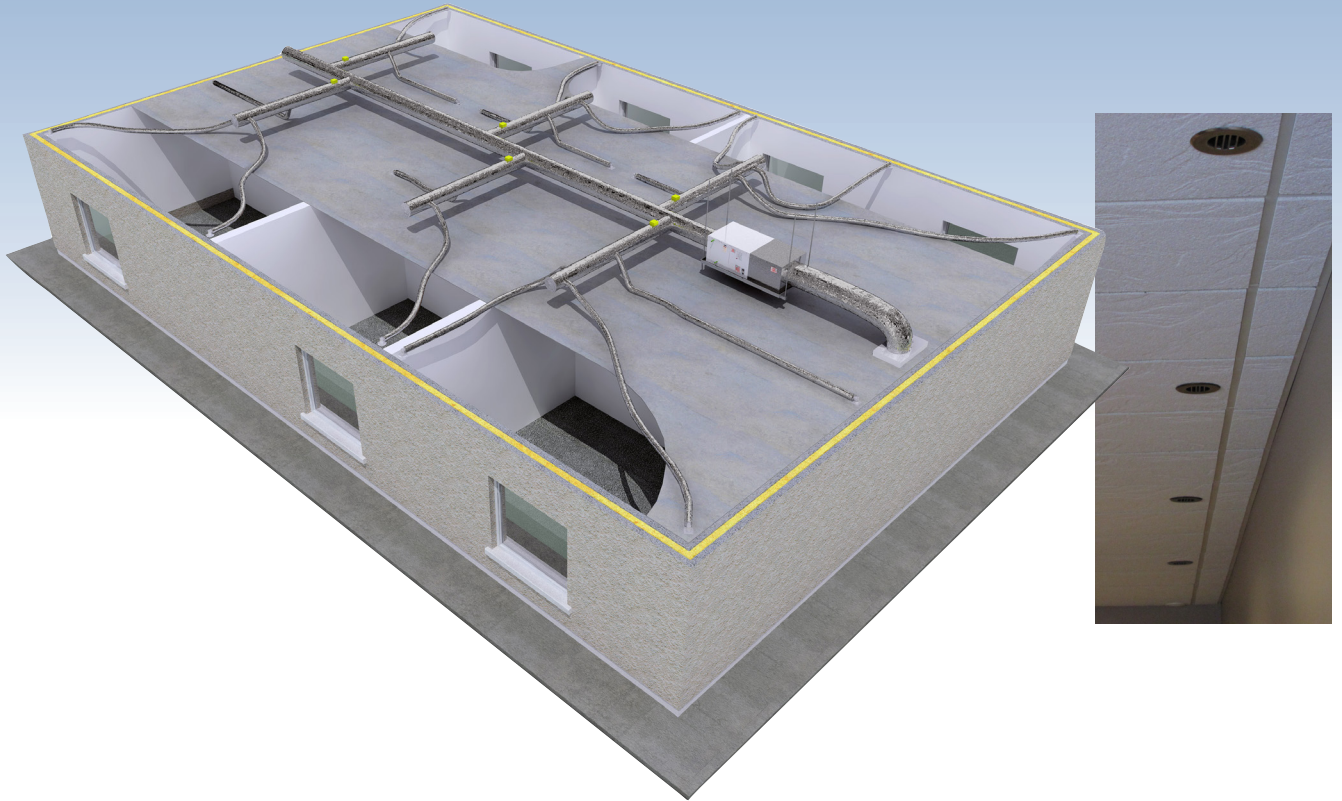


www.hi-velocity.com

Manufactured by

**Energy
Saving**
PRODUCTS LTD

The Hi-Velocity System is a Complete Indoor Comfort System that works on the principle of pressure rather than air velocity. Unlike a conventional furnace, the supply ductwork is all "small diameter" or "mini duct."



With the use of a high pressure area to low pressure area, the air in the room is continuously mixed, creating even temperatures from floor to ceiling.



Powered by a Variable Frequency Drive Motor, the Hi-Velocity System is an energy efficient high pressure air delivery system that can be designed to provide heating, cooling, filtration, ventilation, humidification and dehumidification. The motor quietly drives the system's fan continuously, limiting wear and tear and increasing the lifespan of the system.



When it comes to Indoor Air Quality, the Hi-Velocity System can answer all of your needs. Introducing conditioned fresh air from a HRV/ERV or simply bringing a fresh air supply into the return air of the system can make your office or commercial space much more comfortable.



Also available is the *Hi-Velocity Air Purification System*, containing three powerful technologies: an Electrostatic MERV-11 Filter to remove allergens, Photo-catalytic Oxidation to destroy toxic chemicals and eliminate odours, and finally ultraviolet light is used to kill germs on contact. See our website for more details.

Incorporating High Efficiency Energy Smart VFD Motors that can save up to 50% on operating costs, the Hi-Velocity System can be installed in 25% less time than a traditional forced air System.

Hi-Velocity Systems have been installed in Homes, Offices, Daycare Centres, Nursing Homes, Community Halls, Leisure Centers, Showrooms, Commercial Shops, and Factories.



Sacred Hearts Church in Boston, MA

- *Modular fan coil units can be installed in a variety of orientations.*
- *3 Independent Field Adjustable Speeds:*
 - Cooling
 - Heating
 - Constant Air Flow
- *Unmatched air delivery removes 30% more moisture from the air than conventional systems, reducing mold and mildew and providing superior Indoor Air Quality.*

System outlets are unobtrusive and have been designed to fit in and match the space they are installed into, creating a much more visually appealing effect than other possible applications.



White Plastic

Stainless Steel

Antique Brass

Brushed Chrome

Silver Vein

Copper Vein

Black Wrinkle

Unfinished Maple

Unfinished Oak

- *2" or 2 3/4" flex duct delivers air under a greater pressure than a conventional system. This increase in pressure forces the mixing of the air in the room, eliminating stratification while maintaining an equal temperature throughout the building.*
- *Smaller duct also allows for greater flexibility in installations while saving space.*



Subway Restaurant in North Dakota

For All of your Heating, Cooling and IAQ Needs

With a pressurized small diameter duct we condition the air differently than conventional forced air systems, continuously mixing the room air, and creating even temperatures from floor to ceiling.



Drilled outlets are commonly used to supply a large area with heating and cooling. These outlets can also be used to create a pressurized air curtain for bay doors, or large openings to the outside environment.



Comfort From Floor to Ceiling, Satisfaction From Room To Room.

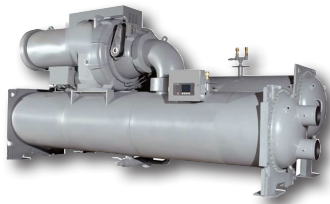
With Hi-Velocity Systems™, It's Not Just A Dream. It's Reality.

Heating Options



All of your favorite Brand Name Commercial Boilers, Dual-Purpose Hot Water Heaters, Heat Pumps, and Geothermal Systems can be used as heat sources with our hot water coils.

Cooling Options



Industrial Chillers, Heat Pumps, Geothermal Systems, and Condensing Units can all be used as cooling sources with our coils. The high pressure distribution network cools each level of a structure evenly.

Hi-Velocity System Options



The *RPM-E Cooling Module* comes Pre-Piped with the TXV (Thermal Expansion Valve), Site Glass, Access Ports and External Freeze Stat already installed. The liquid and suction lines have male solder connections at a standard width, making connections to the condenser lines quick and easy.

Hi-Velocity System Options



Designed specifically for the Hi-Velocity system, the **HWC Hot Water Coil** is a High Capacity Hydronic Heating water coil that comes pre-installed in the "H" Series fan coils, and can be field installed in the "BU" Series fan coils. To install, simply remove the front blower panels, and slide the coil into place.



The **WCM/WM Coil** is a High Capacity Hydronic Water Coil available as an add-on module to the Hi-Velocity System. Mainly used in the chilled water applications for cooling, this coil can also be used for heating with water temperatures of up to 130 degrees F.



We also manufacture the **ESH Slide-In Electric Module** for our system, that is easily installed without any external mounting or duct work required. This heater can be used for primary heating, or supplemental heat (auxiliary) for heat pumps.



Indoor Air Quality is integral to the comfort and health of a building's occupants. **The Hi-Velocity Air Purification System (HE PS)** contains three powerful technologies. First, an Electrostatic MERV-11 Filter removes allergens. Photo-catalytic Oxidation is then used to destroy toxic chemicals and eliminate odours. Finally, ultraviolet light is used to kill germs on contact. The result is clean, purified air for any home or office. Also available is the **SP-20C Portable Air Purification System**, with Toxic Chemical & Particulate Sensor.



Our **WEG and PSB Motor Control** allows for effective and efficient control of motor speed in conjunction with zoned Hi-Velocity Systems and a zone control package. The WEG Controller allows for use of the full range of the VFD Motor, increasing or decreasing motor speed as zone dampers open and close in the system, allowing for heating and cooling to be provided only when called for by individual zones. This robust and reliable product is also great for single zone applications.

Energy Saving Products Ltd., established in 1983, manufactures the Hi-Velocity Systems™ product line for residential, commercial and multi-family markets. Our facilities house Administration, Sales, Design, Manufacturing, as well as Research & Development complete with an in-house test lab. Energy Saving Products prides itself on Customer Service and provides design services and contractor support.

For all of your Heating, Cooling and Indoor Air Quality needs, the Hi-Velocity System is the right choice for you!



Small Duct High Velocity Heating, Cooling and IAQ Systems

Build Smart, Breathe *Easy*

Hi-Velocity HE-Z Fan Coils, **Green** Technology



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