



Heating and Cooling

# VENTILATION Solutions

For superior  
ventilation solutions,  
**think inside  
the diamond.**

**Bring your building to life  
with fresh, outside air.**

When you think of the diamond standard for VRF products over the past 100 years, you think of Mitsubishi Electric. Those same high standards for performance and efficiency extend into our ventilation solutions too. With a wide variety of products with flexible configurations, and first class customer service and support, look to us as your one stop for comfort excellence.



[BringYourBuildingToLife.ca](http://BringYourBuildingToLife.ca)



# The Diamond Standard for Ventilation

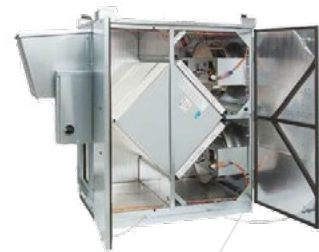
For more than two decades, Mitsubishi Electric has been pioneering Energy Recovery Ventilation solutions for high profile commercial and residential projects all across Canada, delivering the premium level of expertise you've come to know and trust. Whether you're utilizing standalone controls or taking advantage of integration with Mitsubishi Electric's M-Net® communications, our ventilation solutions are as simple to use as they are to install. Not only will they help position your building to fulfill green initiatives and stringent LEED standards, an ERV will also significantly improve the quality of occupant comfort and help bring your building to life with the power of fresh, outside air.



## Energy Recovery Ventilator

A commercially oriented system that delivers high performance, Lossnay® and the Mitsubishi Electric patented Lossnay® core functions virtually anywhere.

- Cross-Flow Static-Plate Technology offers near-zero air leakage and cross contamination
- Up to 80% sensible efficiency, maximizing heat transfer
- Humidity Control with no condensate drains or pipes required
- Independent blower control for balanced, negative or positive pressure ventilation capability
- High efficiency filters with standard MERV 7 rating (MERV 14 or 16 options)
- Demand control strategy using precise CO2 control
- Free Cooling with integrated bypass damper
- In-house built Sirocco fan that is tailor made for Lossnay® providing premium performance and ultra-low quiet operation
- 10 year warranty on ERV core
- Easy and low maintenance, long service life, and very minimal break downs
- Greenspec Listed – Contribution to LEED Credits



## Energy Recovery Ventilator

From single home residential projects to larger commercial building applications, RenewAire® has the flexibility of multitude of configurations to suit almost any need.

- Up to 70% of latent energy recovered from exhaust air
- Cross-flow static-plate technology offers maximized heat transfer efficiency, easy and low maintenance with no moving parts, and long service life
- Wide air flow ranges between 40 – 11,000 CFM
- Flexible configurations
- Indoor or outdoor models
- No condensate drains or pipes required
- 10 year warranty on ERV core
- Standard or enhanced programmable controls (on commercial models) with optional BACnet MSTP/IP protocols
- RenewAire® core is AHRI certified with a near-zero Exhaust Transfer Ratio (EATR) at rated air flow



## Dedicated Outdoor Air System

This fully packaged heating and air conditioning solution is perfect for commercial buildings.

- Direct-drive plenum fans with factory-mounted variable frequency drives (VFD) to handle up to 18,000 CFM and 3-inch wg external static pressure
- 2-inch double-wall construction w/ R13 foam insulation on entire casing (little to no thermal bridging)
- Demand control strategies such as Occupied/Unoccupied modes using integrated time clock, CO2 control, or static pressure control
- High turndown burner of up to 16:1 on a single furnace for seamless modulation
- Standard DDC controls for stand alone operation or M-NET communication option to integrate with VRF controls
- Inverter duty compressors that meet latest AHRI 920 standard
- Fully modulating hot gas reheat for dehumidification
- Packaged air-sourced heat pump with ERV and integrated back-up heat to meet latest decarbonization standards (back-up heat options: Gas Heat, Electric Coil, or Hot Water Coil)
- Energy recovery wheel or static core options available
- Low sound condenser fans w/ EC motor on lead condenser fan
- Standard Permator™ coating on outer casing. This coating is compliant with ASTM B117 Non-Scribe Rated for 2500 Hours
- M-NET communication option for all-in-one controls integrating w/ VRF system





# geniox



## Semi-Custom Air Handling Unit

The Systemair Geniox is the next generation in air handlers. It is designed to combine performance, quality and flexibility only found in full custom AHU's with the lead time and convenience of a modular air handling unit. Plus, with Geniox+, you get the Geniox unit with a fully integrated VRF system, making it an efficient and easy way to provide fresh air to a Mitsubishi Electric VRF system. High efficient filtration options for better IAQ (MERV 8/13, MERV 9/14).

- Flexible design with modular sections allowing many uses (DOAS, MUA, ERV, or integrated VRF module)
- Double-wall panel, 2.4" R-14 injected foam insulation
- High performance casing with thermal break design providing best choice for minimal energy loss
- Heat and Energy Recovery options (Wheel or static plate cores)
- Customized controls to cater to specific BMS needs (furnished with in-house fully tested, preconfigured controller or deliver w/ factory installed 3rd party controls)
- High efficient blower/motor assemblies (with EC motors or AC motors with VFDs)
- VRF LEV kit installed in factory for turn-key solution for contractor (factory installed LEV coil, solenoid valves and controller)



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