

RRS ROOFTOP SYSTEMS

A Ruskin Company



- *Energy Recovery Ventilator*
- *200 CFM – 1000 CFM*
- *Low Profile*
- *Ideal for Meeting Rooms, Classrooms
and Small Retail*

The **Mini Ventilator**
Advantage

MiniVentilator

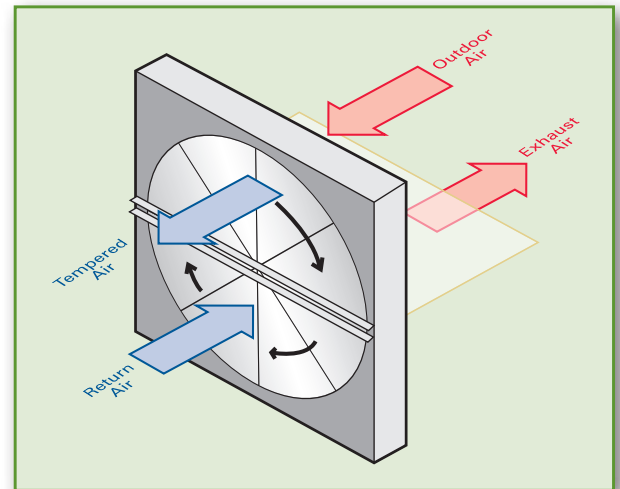
Ruskin MiniVentilator ERV's are 60%+ effective and perfect for applications requiring up to between 200 – 1000 CFM for ventilation. This range of ventilation requirement is typically found in classrooms, meeting rooms, and small retail. The MiniVentilator is designed for indoor installation and can be floor or ceiling mounted. A removable panel is utilized to allow for easy access to the enthalpy wheel and filters.

Using Desiccant Wheel Technology Provides Energy Recovery Benefits

Energy Savings, Exceptional Payback and Improved Comfort

Investing in energy recovery wheels in HVAC systems can provide payback in savings and comfort.

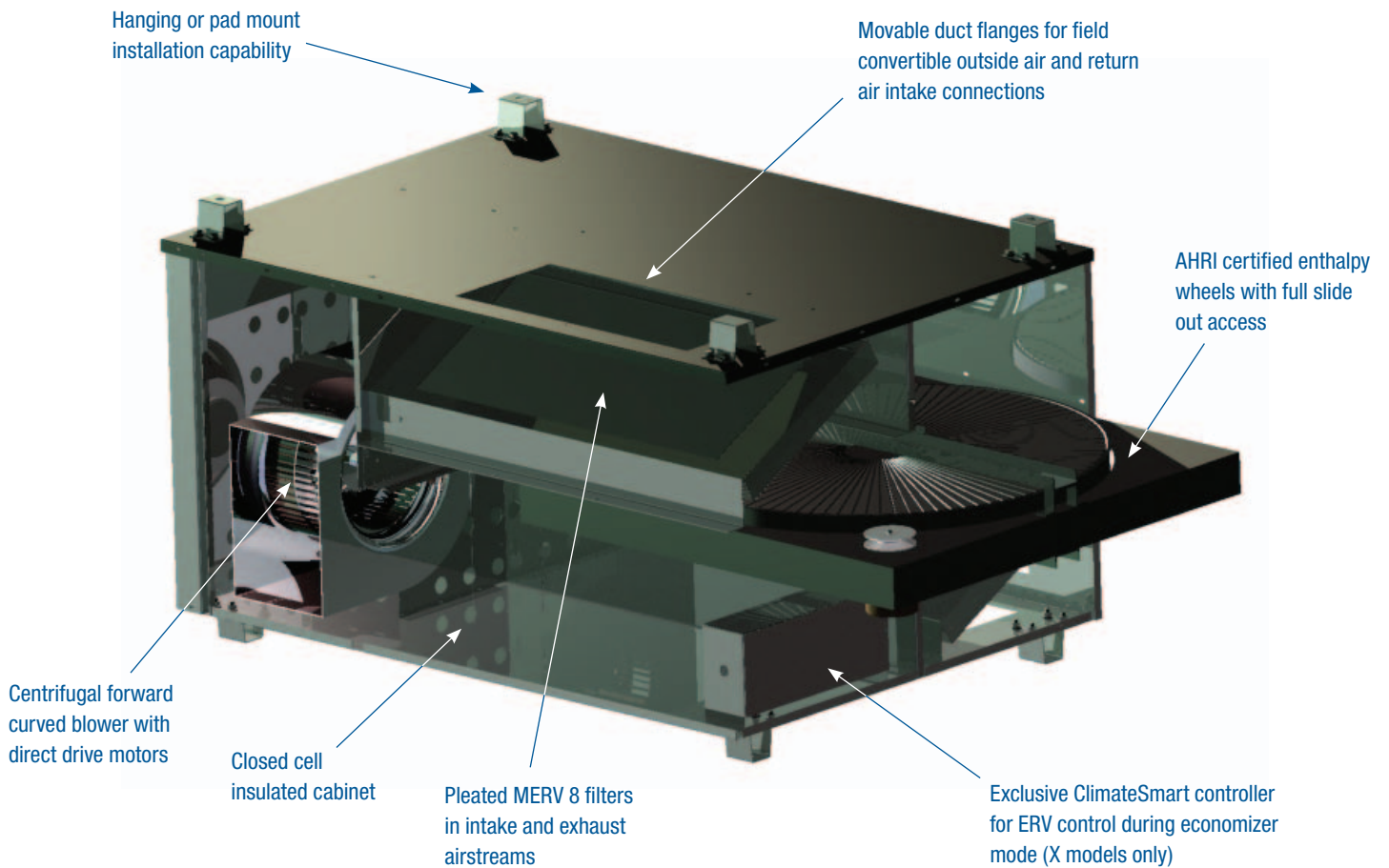
- Initial cost savings can be achieved by pre-conditioning the outdoor air, which can reduce the cooling load and tonnage required to meet that load. Free software is available at www.ruskin.com to calculate the load reductions and provide the energy and dollar savings in most areas of the United States and Canada.
- Most HVAC systems will use approximately 80% of the load to control space humidity. The Ruskin desiccant wheel technology will allow nearly 75% of the humidity entering through the outside air path to be exhausted to the outside through the exhaust airstream, which not only saves energy but improves comfort.



Advanced Controls

Certain outdoor air conditions allow HVAC systems to function in economizer mode, or free cooling. When such conditions exist, the preference is to remove the energy recovery from the system. Most ERV's have an economizer mode option, but the control is usually based upon outdoor temperature only. Ruskin's patent-pending **ClimateSmart Control System** has the ability to control not only the temperature but can also factor in the humidity utilizing the economizer function. For example, a unit with a temperature only economizer would allow air to pass through even if there is a high level of humidity in the air. The system then has to work to remove this excess humidity, thus lowering the efficiency of the system. Using the Ruskin ClimateSmart Control System allows the ERV to continue to work to reduce humidity levels before it enters the system, thus saving energy.





STANDARD DESIGN FEATURES ON ALL MODELS

- 200 – 1000 CFM
- Designed for indoor use
- Painted cabinet
- Hang or base mounting
- Provides air filtration with MERV 8 filters on intake and exhaust
- Access to filters and enthalpy wheel without tools
- Closed cell insulated cabinet
- Flanges on all intake / discharge connections
- Outdoor air intake can alternate between top and adjacent side
- Return air intake can alternate between bottom and adjacent side
- 110V single phase
- Motors thermally protected and suitable for use with speed controller
- Effectiveness of 60% or higher using AHRI certified enthalpy wheels

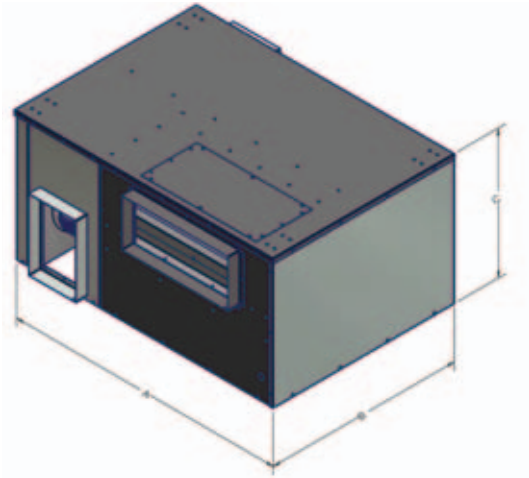
FACTORY INSTALLED OPTIONS ON MV250X, MV450X, MV750X

- Frost control
- Wheel rotation sensor
- ClimateSmart controller for economizer mode ERV control

FIELD INSTALLED OPTIONS

- Vibration isolation
- Remote speed controller
- Dirty filter sensor
- NEMA 250 Type 1 enclosure disconnect switch
- Electronic airflow measurement using pressure transducer
- 2" outdoor air and return air filter up to MERV 13
- Motorized intake damper (optional)

Cabinet Dimensions



Model	Overall Cabinet			Approximate Weight (lbs)	CFM Range
	A	B	C		
MV 250	40	29	18	190	150 – 500
MV 250X*	40	29	18	195	150 – 500
MV 450	40	29	18	190	400 – 750
MV 450X*	40	29	18	195	400 – 750
MV 750	43.6	30.6	22	220	700 – 1150
MV 750X*	43.6	30.6	22	225	700 – 1150

*X models are built with frost control, rotation sensor and ClimateSmart controller.

Typical Installation

