UNILUX
HVAC INDUSTRIES

Integrated ERV System

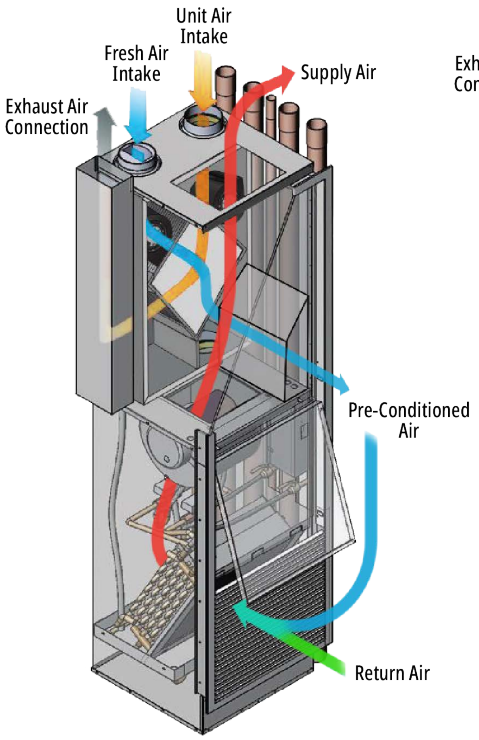
Available with Vertical Stack Fan Coils and Heat Pumps

Leading Manufacturer of High-Rise Residential HVAC Equipment

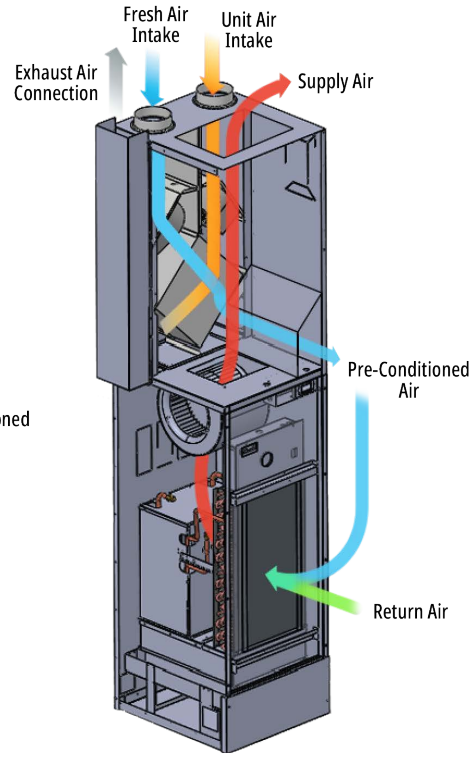
Elevate home comfort and energy efficiency with Unilux HVAC's patented integrated ERV systems.

Unilux HVAC offers an all-in-one HVAC solution, seamlessly integrating heating, cooling, and ventilation. Multiple dampers and temperature sensors ensure freeze prevention in low-temperature areas.

This integrated ERV system provides superior indoor air quality, by incorporating a higher level of filtration to the living space. The design also provides an extra layer of dehumidification by ensuring that all outside air is pre-conditioned.



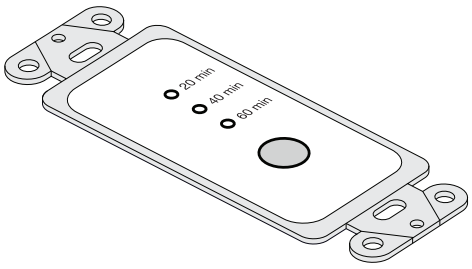
Fan Coil



Heat Pump

Wall Timer Controls

Energy Recovery Ventilator (ERV) wall timer controls are designed to be both easy to use and simple to install. Each control fits neatly inside any 2" x 4" service box and includes a retaining screw plus a white decorative wall plate for a clean, finished look. Typically located in the washroom, these controls allow residents to manage their energy recovery ventilator. To comply with building codes, the ERV runs continuously on a low fan speed to bring in fresh outside air and exhaust stale indoor air; however, when additional ventilation is needed, such as during showering or cooking, residents can use the controls to increase airflow by setting a 20, 40, or 60-minute timer for high-speed air exchange.



Unilux HVAC Industries | 1 (905) 851-3981 | info@uniluxhvac.com | 7930 Huntington Rd Unit A, Woodbridge, ON

Features, Options, and Performance

1. ERV Motor/Blower Assembly
2 motor/blower assemblies with single inlet centrifugal impeller types with forward curved blades. Motors are Electronically Commutated Modulation (ECM) motors. These motors are IP-44, shielded bearing, high efficiency types with internal thermal overload protection. Motors meet CSA standards and are UL approved.

2. Freeze Protection
Unilux HVAC has developed and patented an integrated design that has three temperature sensors trigger a motorized spring return damper to isolate the core and introduce exhaust air to the unit. This ensures the core temperature remains above 32°F (O°C) to prevent the core from freezing and rendering the ERV inoperable, without the need for an electric heater.

3. Controls
ECM motors using pulse width modulation. Motor speed is controlled using a rotary switch with the following settings: 25 CFM, 50 CFM, 75 CFM, 100 CFM and off. Timer switches are available with 20-40-60 minute options for high speed operation.

4. Filters
2 washable foam filters.

Unilux HVAC Patented Integrated HRV/ERV
U.S. Patent No. 8939826
CDN Patent No. 2746405

ERV Performance				
	Summer			Winter
CFM	Sensible Eff. Cooling	Latent Eff. Cooling	Total Eff. Cooling	Sensible Eff. Heating
25	87.25	44.53	60.90	87.13
50	81.20	41.70	56.95	80.90
75	75.68	38.95	53.15	75.13
100	70.50	36.20	49.50	69.80

Our state-of-the-art designs are demanded by today's best developers, engineers and owners. Contact us to learn why Unilux HVAC is the preferred choice of professionals throughout North America for vertical stack HVAC solutions.

1 (905) 851-3981

info@uniluxhvac.com

7930 Huntington Road Unit A
Woodbridge, ON L4H 4M8

UNILUX
HVAC INDUSTRIES