

ECO-FLO ENERGY RECOVERY VENTILATOR

The ECO-FLO Energy Recovery Ventilator (ERV) is the all-in-one ventilation solution for new construction and renovation projects involving homes, apartments, offices, or commercial buildings. This compact unit is capable of exhausting stale air and supplying fresh filtered air. The ERV core extracts thermal energy and moisture from the exhausted air, and uses it to pre-treat the incoming supply air.

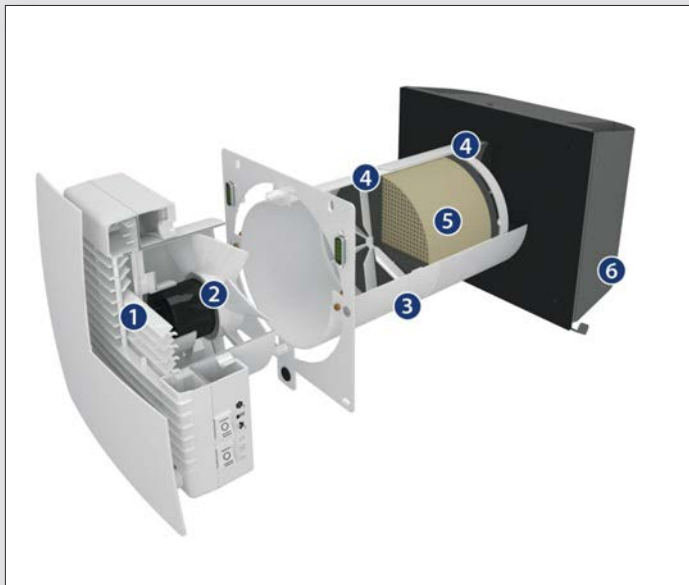


Design Features

- Extracts stale indoor air
- Recovers thermal energy from extracted air
- Supplies fresh, pre-treated air
- Maintains a comfortable humidity setting
- Moisture damage prevention
- Lowers heating and cooling costs throughout the year
- Low energy demand (5.61 W)
- Quiet operation (as low as 0.2 SONES)
- Multifunctional wireless remote control
- Plug-&-Play installation
- Air purification (MERV 6)
- Rated for continuous operation



Construction



1. Front Grille with Automatic Shutter
 - Easy access for filter cleaning or replacement
 - Made of high quality snow-white ABS plastic
2. Reversible Axial Fan
 - Efficient EC motor (5.7 cfm/W)
 - Integrated overheating protection
 - Ball bearings for longer service life
3. Telescopic Duct
 - 6" diameter
4. Air Filters (MERV 6)
 - Two filters provide air free of dust & pollen
 - Filters are washable for easy maintenance
5. ERV Core
 - Recovery efficiency of 90% @ 32 F
 - Anti-bacterial treatment
 - No defrost necessary
6. Exterior-Mounted Hood
 - Stainless steel
 - Corrosion proof

Applications

	One ECO-FLO Unit	Synchronous Pair	Multiple Units
Maximum Ventilation	343 square feet	686 square feet	Entire homes or commercial buildings

Modes of Operation

Natural Air Supply

- Automatic shutter is opened; fan does not run
- Air flows freely and is purified by filters

Air Supply

- Fan continuously draws fresh air in from outside
- Air is purified by the filters

Ventilation

- Operates at the selected speed in permanent supply or extract mode (see *User Guide* for details)
- Synchronized units can provide balanced ventilation

Regeneration

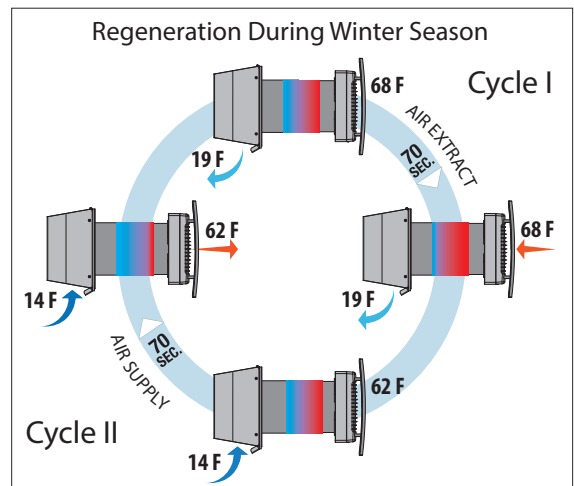
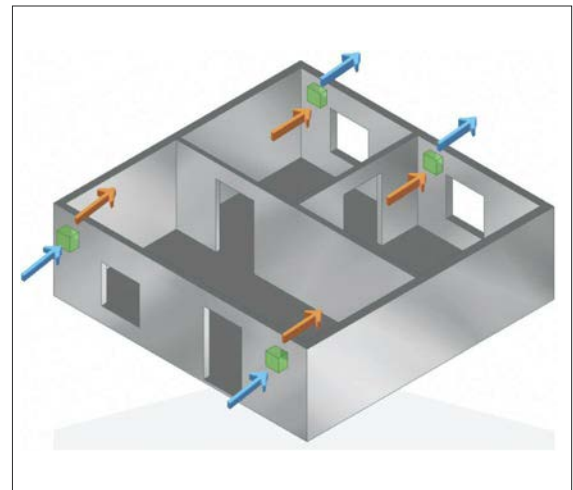
- Ventilator alternates between supply and exhaust operation every 70 seconds (**Cycle I** and **Cycle II** below)
- Thermal energy is recovered, and the humidity setting is maintained

Cycle I

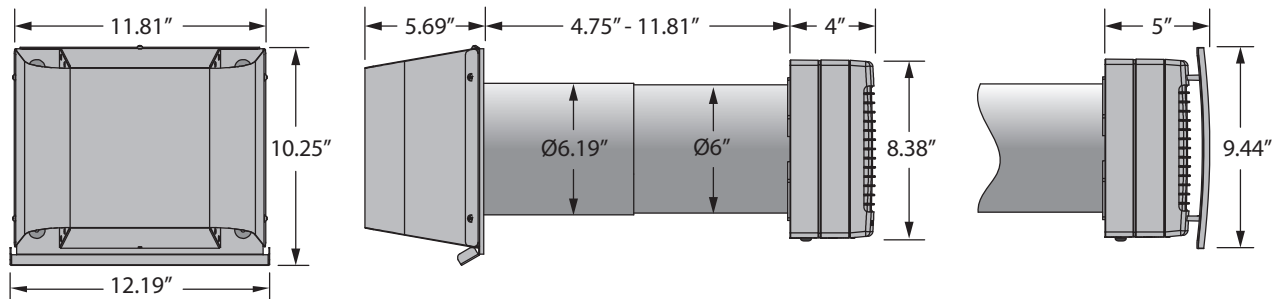
Warm stale air is extracted from the room. As it flows through the ERV core, it heats and moisturizes the core, transferring up to 90% of the heat energy. In 70 seconds, after the core has heated up, the ventilator switches to supplying air.

Cycle II

Fresh intake air from outside flows through the ERV core, absorbs the accumulated moisture and is heated to the room temperature. In 70 seconds, after the core has cooled down, the ventilator switches back to exhausting stale air and the cycle is renewed.



Specifications



		PERFORMANCE								
MODEL	MANUFACTURE CODE	THERMAL RECOVERY	SPEED	RPM	SONES @ 3M	WATTS	AMPS	CFM	TRANSPORTED AIR TEMP. (F)	POWER SUPPLY
ECO-FLO	RA1-50-2	90%	Low	600	0.2	3.80	0.024	8	From -4 up to 122	120 V 60 Hz 1 Phase
			Med	800	0.4	3.96	0.026	16		
			High	1450	0.5	5.61	0.039	32		