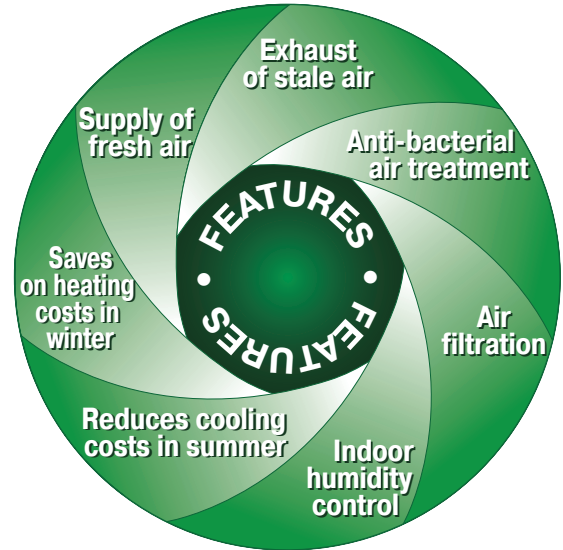


## TWINFRESH COMFO RA1-50-2

SINGLE ROOM ERV UNITS



THE MOST INNOVATIVE VENTILATION FOR BUILDINGS UNDER CONSTRUCTION AND RENOVATION

Replace Your Mechanical Ventilation with TwinFresh Comfo

### BENEFITS:

- Unique Single Room Energy Recovery Ventilator
- Efficient supply and exhaust ventilation up to 30 CFM
- Sensible Recovery Efficiency up to 88 %
- Reversible DC motors with low energy demand from 4.50 W
- Efficacy 2.14 CFM/W – twice as high as the Energy Star requirements
- Multifunctional wireless remote control
- Silent operation from 0.2 Sones
- Stainless steel outer hood:
  - Modern design that fits any exterior
  - 100% corrosion proof
- Easy mounting and maintenance
- Air purification with total MERV 5 filters
- Rated for continuous operation
- Frost- and condensate-free

Tel: 888-640-0925  
Fax: 513-268-4597

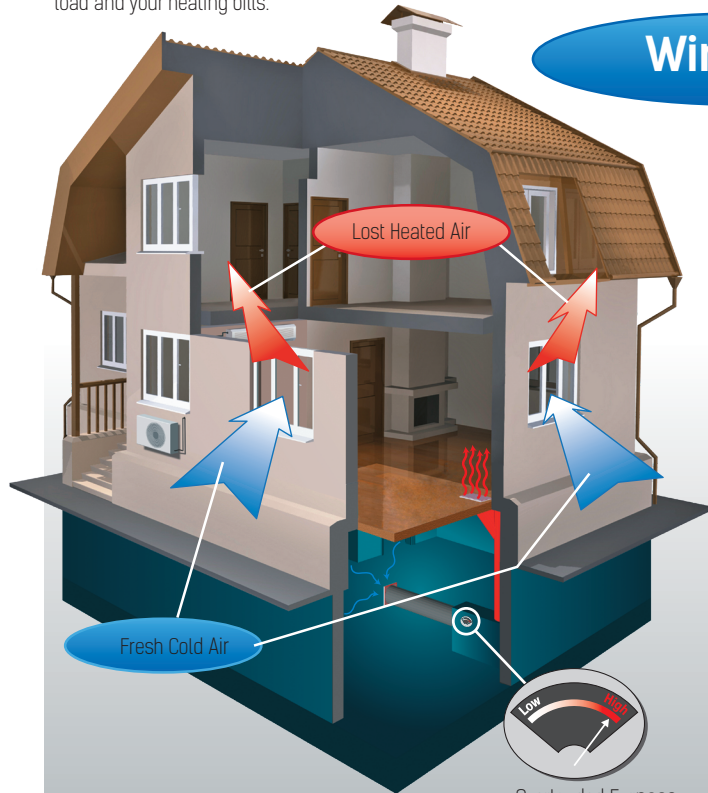
Sales@ventsus.com  
VentsUS.com  
400 Murray Rd,  
Cincinnati, OH 45217



**EFFICIENT ENERGY RECOVERY VENTILATION IN WINTER AND SUMMER**

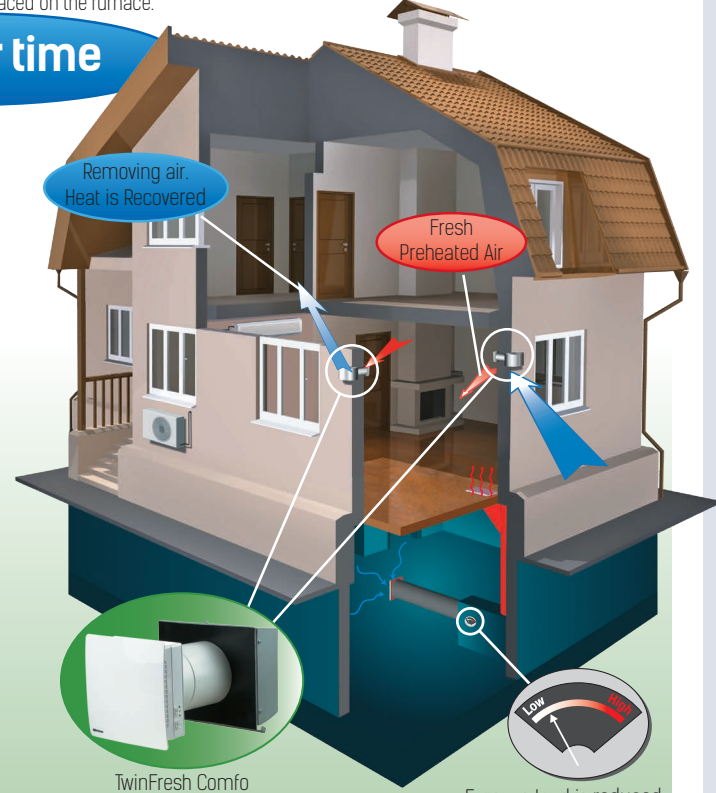
Random cracks or opening a window lets cooler fresh air into the house but at the same time it lets the heated air out. This ventilation method increases both furnace load and your heating bills.

In cold season, Twin Fresh recovers energy from the exhausted air to pre-treat the air entering the house. It not only helps to save on energy cost but also reduces the load placed on the furnace.



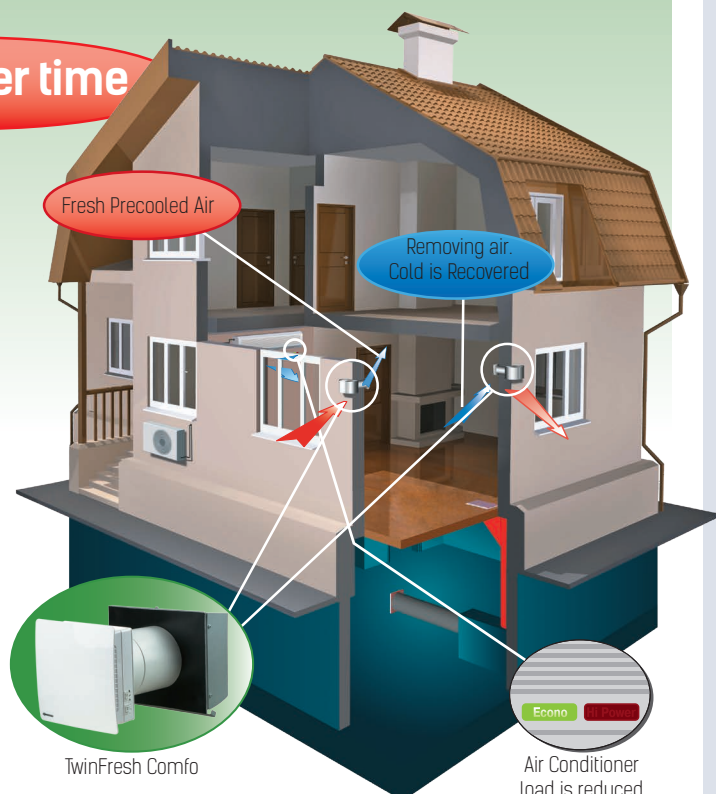
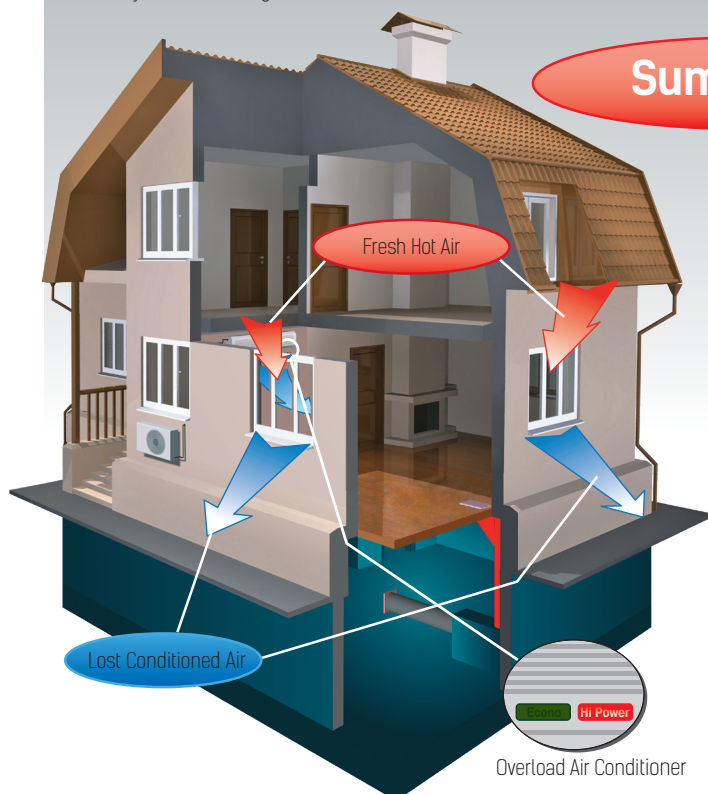
**Ventilation Without Energy Recovery**

In summer, warm and humid air enters the house through cracks or open windows and the air-conditioned air is exhausted to the outdoors. This increases air conditioner load and your conditioning bills.



**Energy Recovery Ventilation**

TwinFresh ERV supplies fresh, pre-cooled air indoors and exhausts stale air outdoors while recovering energy, which lowers the load on the HVAC unit as well as your energy bill.

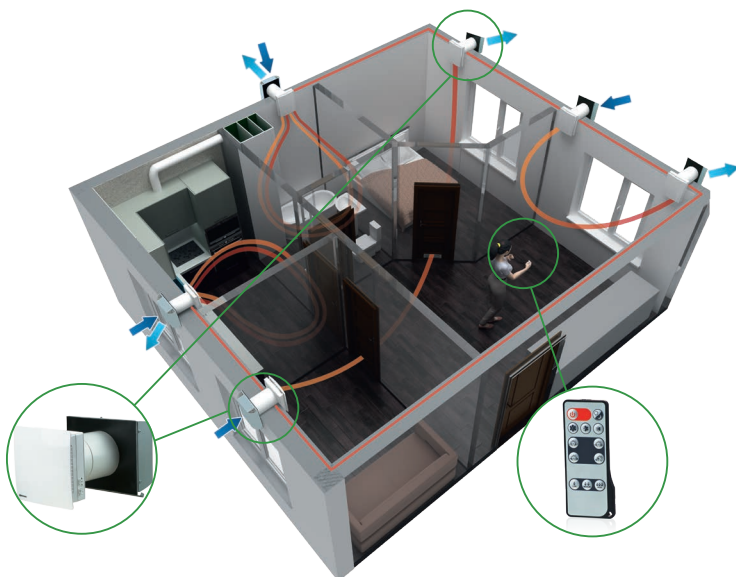


**TWINFRESH COMFO VS REGULAR ERV**


VS.



TwinFresh Comfo		Regular ERV
No	Ductwork required	Yes
No	Dust collection inside a ductwork	Yes
No	Complicated wiring of the controls	Yes
No	Balancing is required	Yes
No	Professional installers are needed	Yes
No	Additional interior works to hide ducts	Yes
No	Separate room for installation	Yes
No	Antifreeze protection for core	Yes
≤ 88 %	Sensible Recovery Efficiency	≤ 80 %
0.2-0.5	Sones/Sound level	3

**VENTILATION APPLICATION EXAMPLE BASED ON TWINFRESH COMFO**


**One TwinFresh Comfo unit in ventilation mode can serve rooms up to 500 sq.ft\***

To arrange a ventilation system based on TwinFresh Comfo ventilators, install one unit in each room. For larger premises, install two ventilators. Units can operate independently or can be wired for Primary - Secondary operation.

Air flows from one room to another through door grilles, openings or halls and ensures required circulation in premises.

\*In accordance with ANSI/ASHRAE Standard 62.2-2016

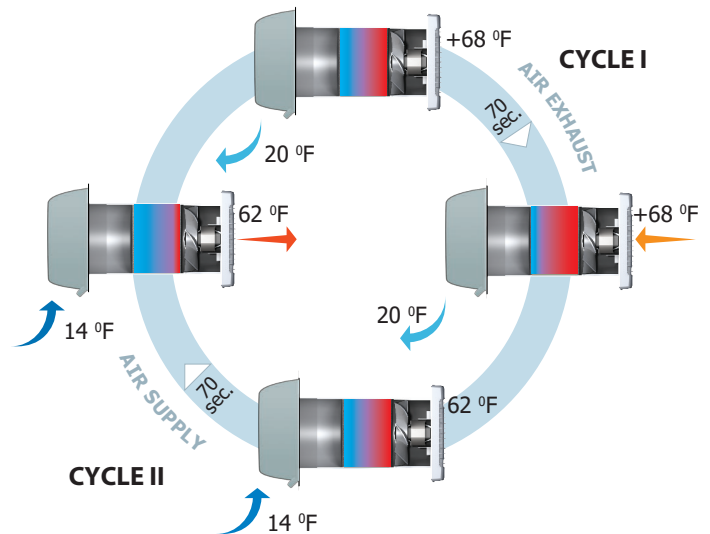


## OPERATION OF TWINFRESH COMFO VENTILATORS

The ventilator is designed for both supply and exhaust ventilation with energy recovery.

**CYCLE I.** While warm, stale air is exhausted from the room it passes through the ceramic energy core where the heat and moisture is being accumulated. After the ceramic core heats up, the ventilator automatically switches to supply mode.

**CYCLE II.** As the clean, fresh air from outside passes through the ceramic energy core, it absorbs moisture and it warms up due to the accumulated heat. As temperature of the accumulator drops down, the fan switches to exhaust mode and the cycle is renewed. The ventilator changes its operation mode for supply or exhaust ventilation every 70 seconds.



## TECHNICAL DATA

Model	Speed	Voltage	Power [W]	Current [A]	CFM in ventilation mode	CFM in regeneration mode	RPM	Sones @10 ft.	ARE @32°F	Transported air temp. [°F]
RA1-50-2	1	120 V 60 Hz	4.50	0.045	12	6	610	0.2	88 %	From -4 up to 104
	2		5.00	0.049	19	9	800	0.4		
	3		7.00	0.076	30	15	1450	0.5		

