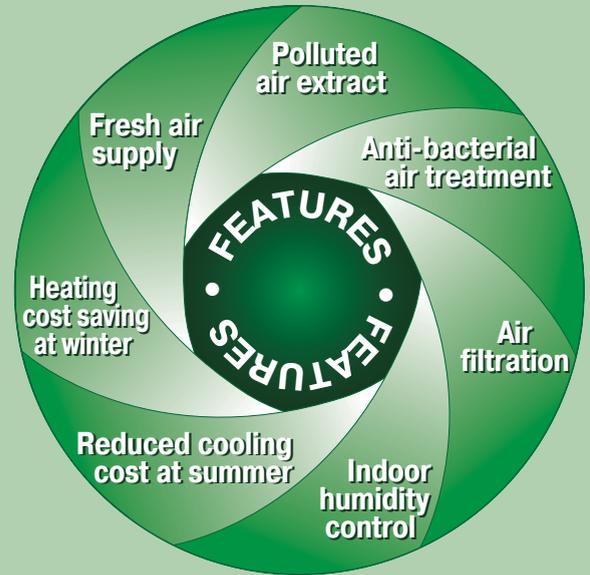




Single Room ERV units

TwinFresh Comfo RA-50, RA1-50, RA-50-2, RA1-50-2



THE MOST INNOVATIVE VENTILATION FOR BUILDINGS UNDER CONSTRUCTION AND RENOVATION

Replace Your Mechanical Ventilation with TwinFresh Comfo

Ventilation Application example based on TwinFresh Comfo



One TwinFresh Comfo unit can serve rooms up to 343 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 Master-Slave operation.

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

Tel: 888-640-0925
513-348-3853
Fax: 513-268-4597

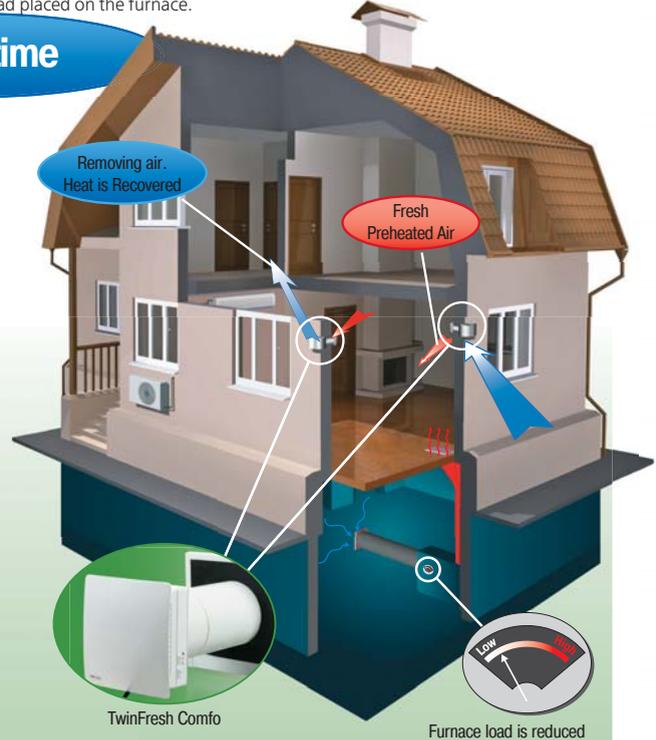
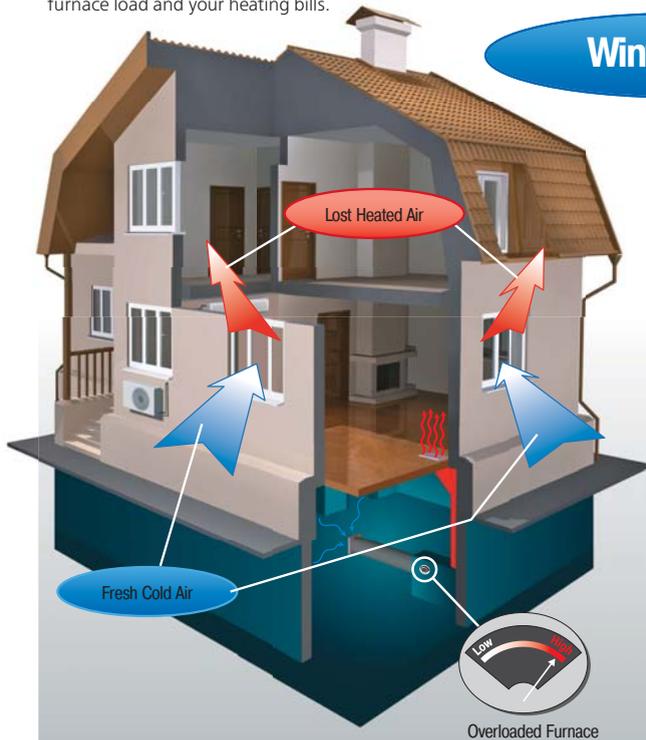
Sales@ventsus.com
VentsUS.com
11013 Kenwood Road,
Cincinnati, Ohio 45242



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 it reduces the load placed on the furnace.

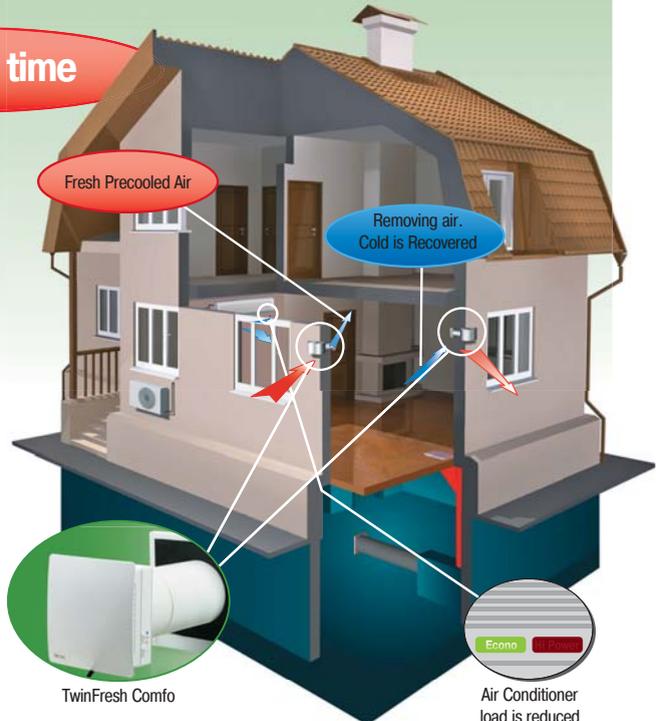
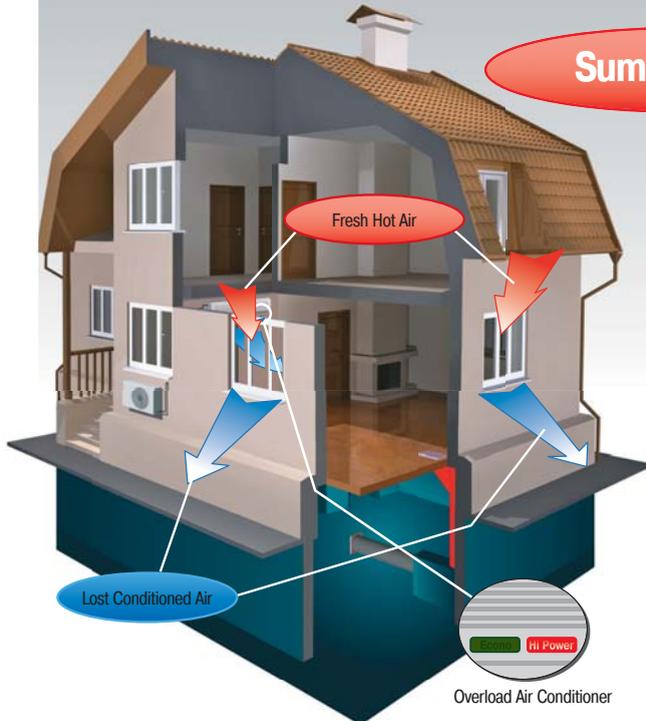


Ventilation Without Energy Recovery

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 for indoors and it extracts 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
< 24 W	Power consumption for a 4 bedroom house	> 100 W
≤ 90 %	Apparent Recovery Effectiveness	≤ 80 %
0.2-0.5	Sones/Sound level	3

● Benefits:

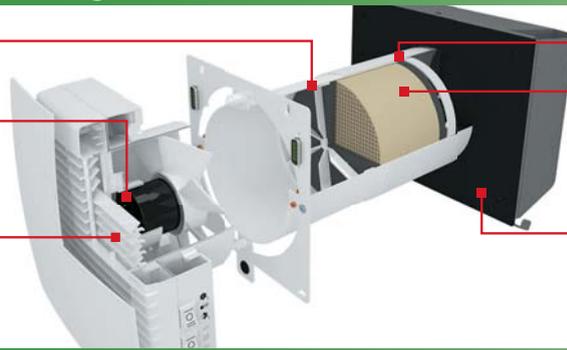
- Pending patent on ceramic ERV core:
 - Apparent Recovery Effectiveness is $\leq 90\%$
 - Recovers heat and moisture to reduce heating costs in winter and air conditioning costs in summer
- EC-motor
 - Efficacy 5.7 CFM/W – Twice as high as the Energy Star requirement
 - Whisper quiet operation, as low as 0.2 SONES
- Aluminium or stainless steel outer hood:
 - Modern design that fits any interior and exterior.
 - 100% corrosion proof.
- Plug-&-Play installation:
 - No special skills required
 - No balancing needed
 - Through the wall installation. Compact unit design
- Multifunctional Wireless Remote Control
 - Almost no maintenance required
- Washable filter and core.
 - MERV6 air purification
 - Antibacterial treatment of ERV core and filters

TwinFresh Comfo design

MERV6 air filter
Antibacterial treatment

Reversible axial EC fan
5.7 [CFM/W]

Front grille with
automatic shutters
(for all models)

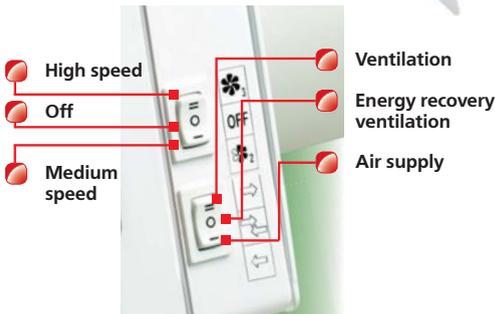


Telescopic duct, dia 6"

Ceramic ERV core with ARE
90% @ 32 F
Antibacterial treatment
No defrost needed

Outer hood

TwinFresh Comfo control and operation modes



Turning ventilator on/off

Speed switch

Passive air supply:

The louvre shutters are opened, but the fan stands still.

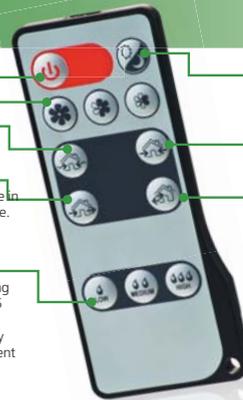
Ventilation:

All the ventilators in the network operate permanent air extract or air supply mode.

Humidity control mode

selection:

The ventilator automation enables setting one of three humidity set points (45, 55 or 65 %). The ventilator will operate to increase or decrease the indoor humidity level to maintain comfortable environment for you.



Nigh mode:

The ventilator is switched to low speed on a signal from built-in light sensor.

Supply mode:

The fan continuously supplies fresh air to the room.

Ventilation with energy regeneration:

The ventilator switches from supply and extract modes and vice versa in a set time period to enable the transfer of heat energy in winter and control of moisture in summer.

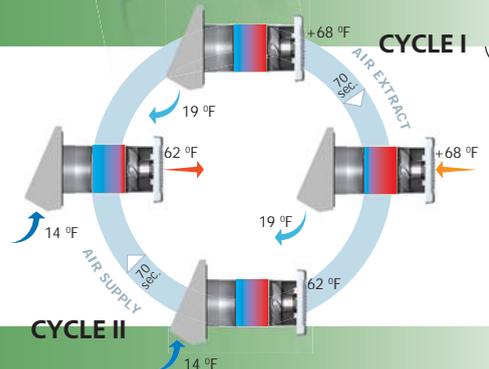
Operation of TwinFresh Comfo Ventilators

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

CYCLE I. While warm, stale air is extracted from a room it passes through the ceramic energy core where the heat and moisture is being accumulated.

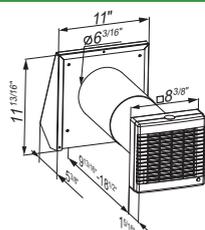
After the ceramic core heats up, the ventilator automatically switches to supply mode.

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 extract mode and the cycle is renewed. The ventilator changes its operation mode for supply or extract ventilation every 70 seconds.

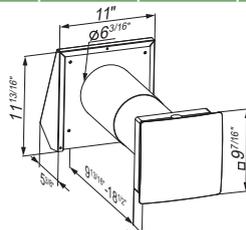


Technical data

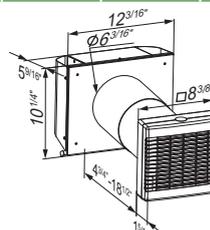
TwinFresh Comfo models	Speed	Voltage	Power [W]	Current [A]	CFM	RPM	Sones @3m	ARE @32°F	Transported air temp. [°F]
RA-50	1	120 V 60 Hz	3.8	0.024	8	610	0.2	90 %	From -4 up to 122
RA1-50	2		3.96	0.026	16	800	0.4		
RA-50-2 RA1-50-2	3		5.61	0.039	32	1450	0.5		



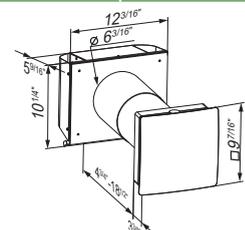
TwinFresh Comfo RA-50



TwinFresh Comfo RA1-50



TwinFresh Comfo RA-50-2



TwinFresh Comfo RA1-50-2