



Single Room ERV units

TwinFresh Comfo

RA1-50-2



Features:

- Efficient supply and exhaust single room ventilation
- Ceramic ERV core with Sensible Recovery Efficiency 91 %
- Reversible EC-motor
- Energy demand lower than 6 W
- Whisper quiet operation
- Plug-&-play installation
- Wireless remote control
- MERV6 air purification
- Rated for 24 hours operation
- Frost free, no defrost needed

TwinFresh Comfo

Telescopic duct, dia 6"

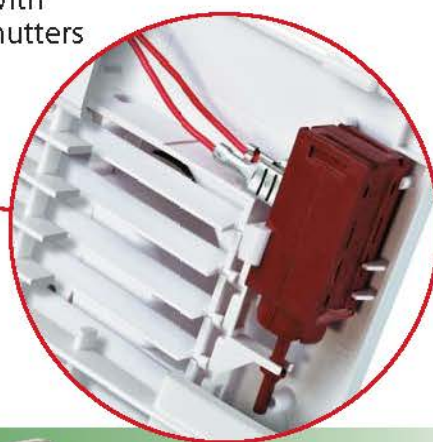
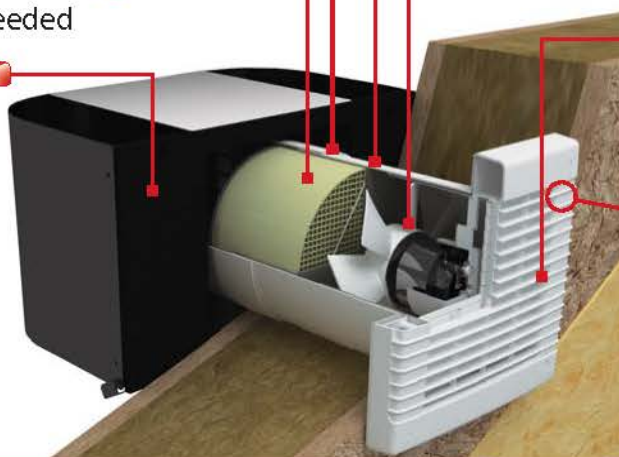
Ceramic ERV core
with SRE 91% @32°F
No defrost needed

Outer hood

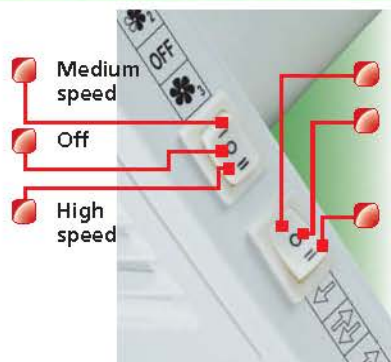
MERV6 Air filter

Reversible axial EC fan
5.7 [CFM/W]

Front grille with
automatic shutters



TwinFresh Comfo control and operation modes



Medium
speed

Off

High
speed

Passive supply

Supply and extract
ventilation with
energy regeneration

Air extract

Turning ventilator on/off

Speed switch

Passive air supply:

In this operation mode the louvre
shutters are opened, but the fan stands still.

Air extract:

The ventilator extracts polluted stale air
from the room to outside.

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.



High mode:

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

Supply mode:

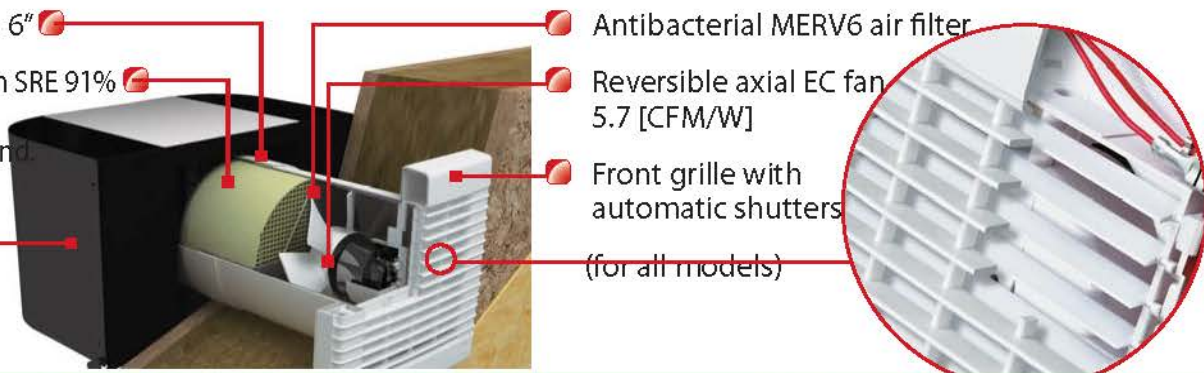
the fan continuously supplies fresh
air to the room.

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.

TwinFresh Comfo

- Telescopic duct, dia 6"
- Ceramic ERV core with SRE 91% @ 32 F covered with antibacterial compound. No defrost needed.
- Outer hood
- Antibacterial MERV6 air filter
- Reversible axial EC fan 5.7 [CFM/W]
- Front grille with automatic shutters (for all models)



TwinFresh Comfo control and operation modes

- Medium speed
- Off
- High speed
- Passive supply
- Supply and extract ventilation with energy regeneration
- Air extract

Turning ventilator on/off

Speed switch

Passive air supply:
The louvre shutters are opened, but the fan stands still.

Air extract:
The ventilator extracts polluted stale air from the room to outside.

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.

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

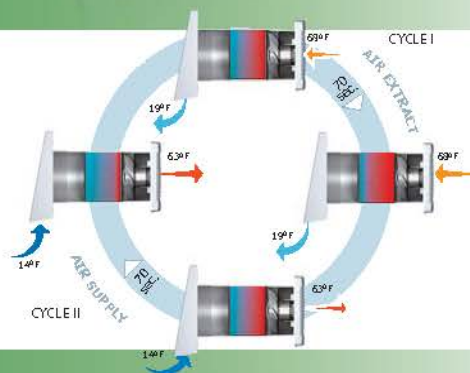
Supply mode:
The fan continuously supplies fresh air to the room.

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 Ventilators

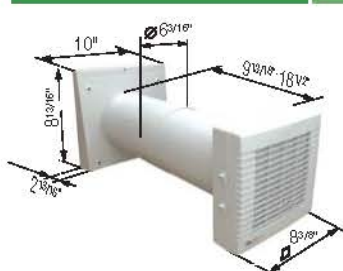
The ventilator is designed for both extract and supply ventilation with energy recovery function.

- 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 to room temperature 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.

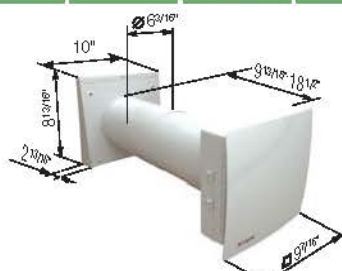


Technical data

TwinFresh Comfo models	Speed	Voltage	Power [W]	Current [A]	CFM	RPM	Sones	SRE @32°F	Transported air temp. [°F]
RA1-50-2	1	120 V 60 Hz	3.8	0.024	8	610	0.1	91 %	From -13 up to 122
	2		3.96	0.026	16	800	0.3		
	3		5.61	0.039	32	1450	1		



TwinFresh Comfo RA-50



TwinFresh Comfo RA1-50



TwinFresh Comfo RA-50-2



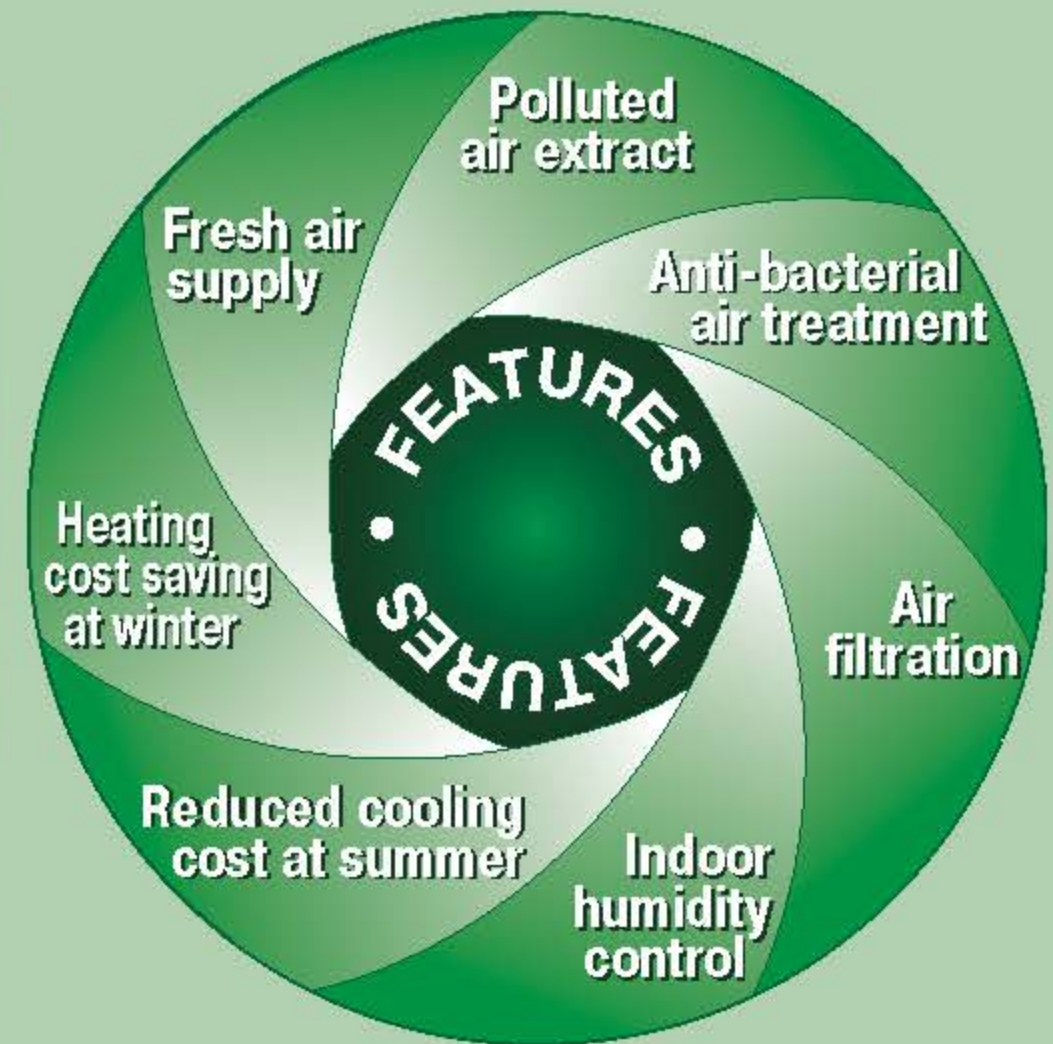
TwinFresh Comfo RA1-50-2



Single Room ERV units

TwinFresh Comfo

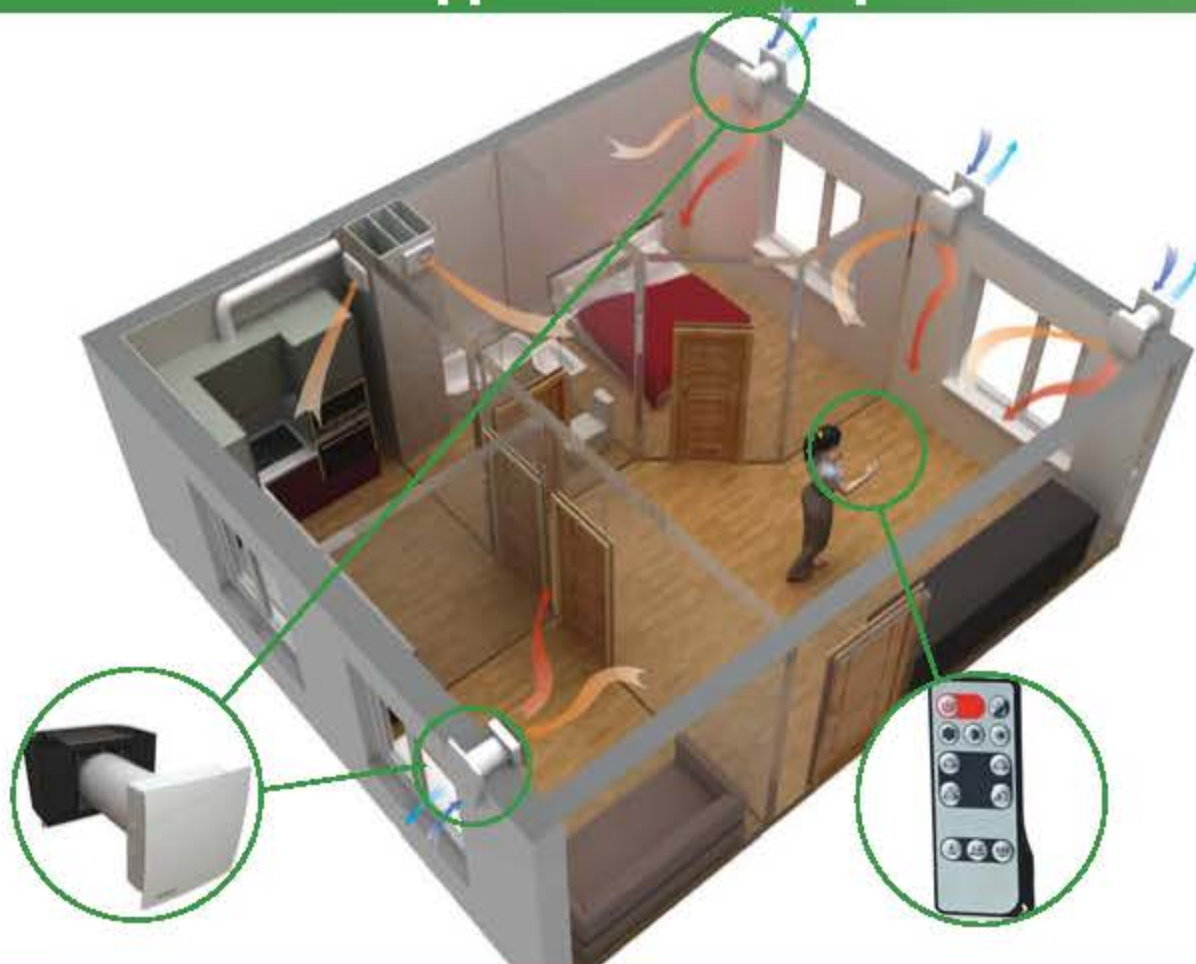
RA1-50-2



THE MOST INNOVATIVE VENTILATION FOR BUILDINGS UNDER CONSTRUCTION AND RENOVATION

Replace Your Mechanical Ventilation with TwinFresh Comfort

■ Ventilation Application example based on TwinFresh Comfo



**One TwinFresh unit
can serve rooms
up to 350 SQFT**

To arrange a ventilation system based on **TwinFresh Comfo ventilators**, install one unit in each room. For larger premises, install two ventilators. Each ventilation unit is controlled independently so you may adjust a ventilation mode for each room considering the individual preferences.

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

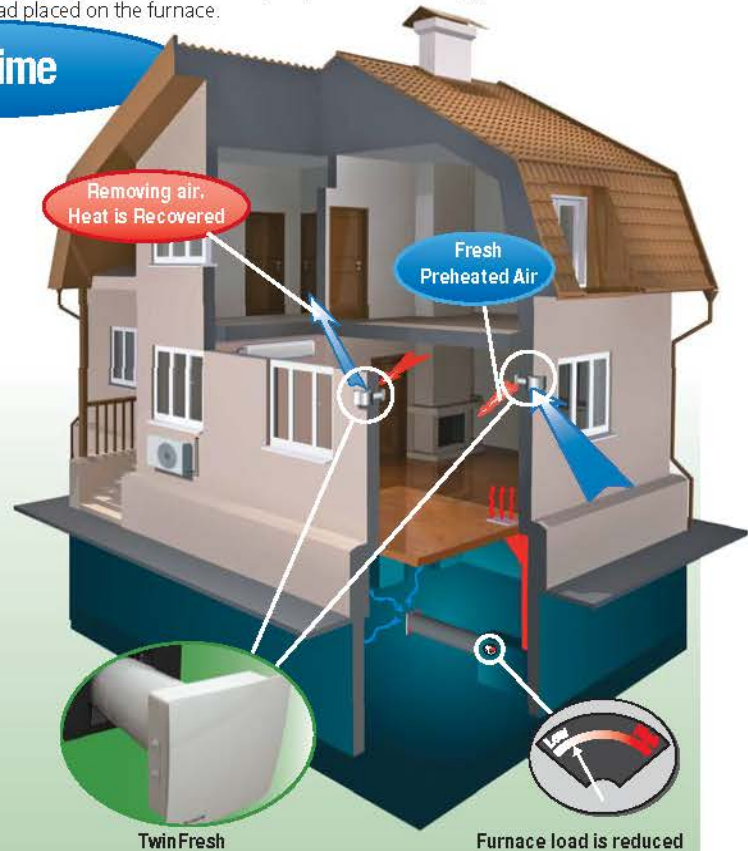
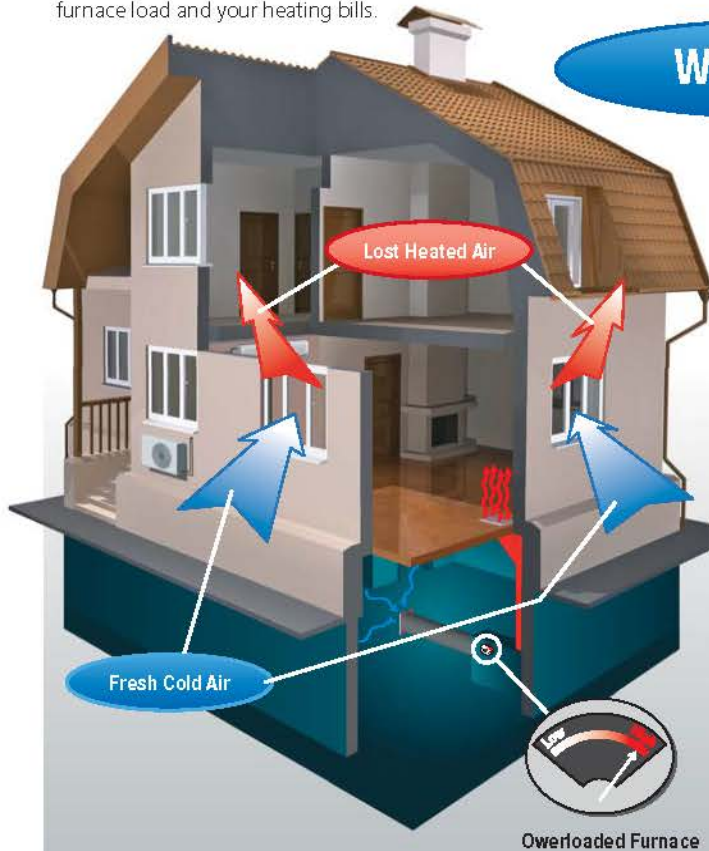
Sales@ventsus.com
VentsUS.com
11013 Kenwood Road,
Cincinnati, Ohio 45242



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.

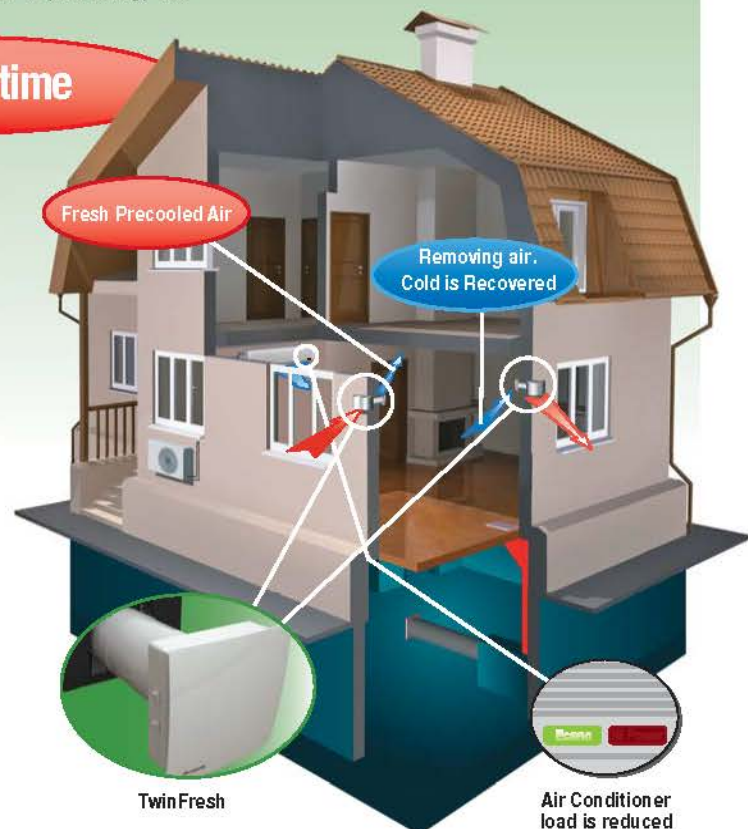
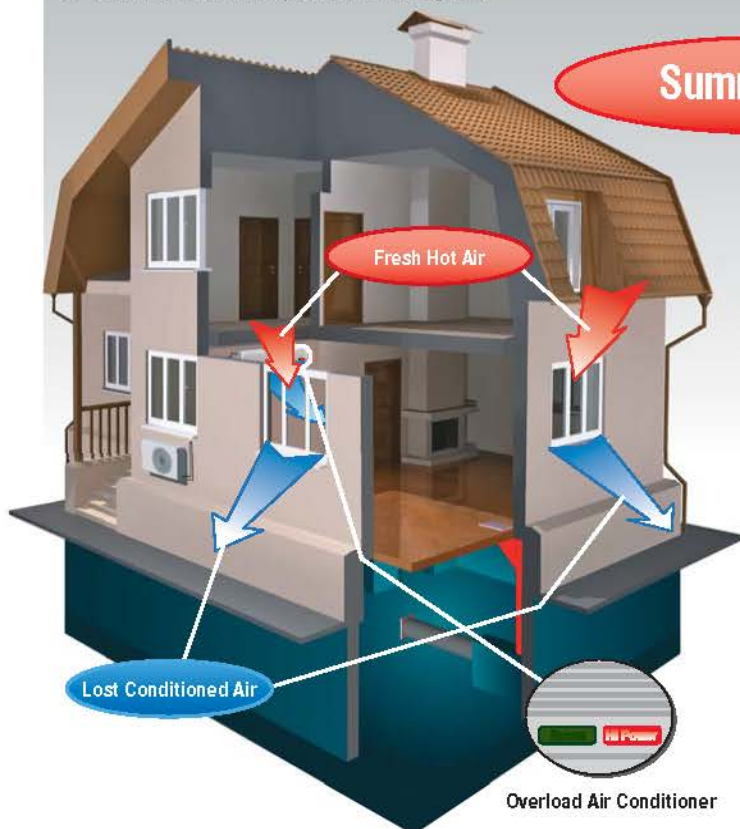


Ventilation Without ENERGY Recovery

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.

Ventilation With ENERGY Recovery

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 vs Regular ERV



VS.



TwinFresh		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
≤ 91 %	Sensible Recovery Efficiency	≤ 80 %
0.1-1	Sones/Sound level	3

● Benefits:

- Pending patent on ceramic ERV core:
 - Sensible Recovery Efficiency is 91%
 - 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 0.1 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 and Antibacterial air purification