

THE BEGINNING OF A NEW...AIR

 ECNOBREEZE®

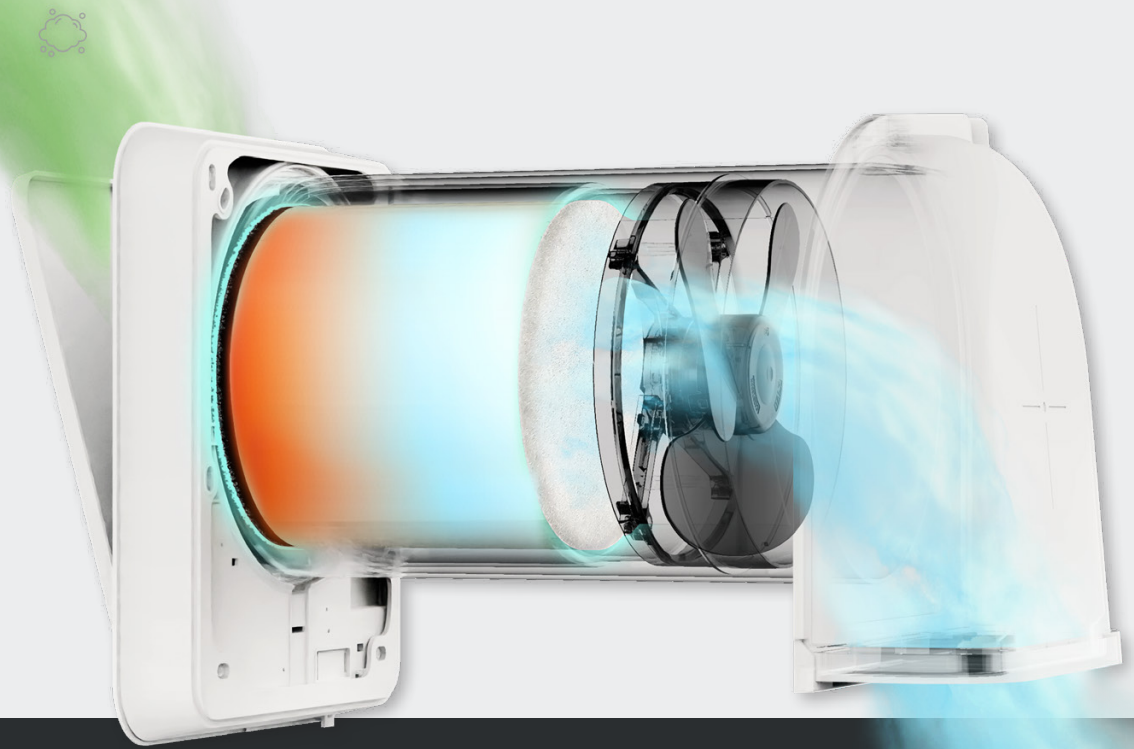
VENTILATION AND AIR TREATMENT SYSTEMS



**AIRÉ**

UNIT OF CONTROLLED MECHANICAL VENTILATION

 **TECNOGAS**  
I percorsi della tecnologia.



**UP TO 100 m<sup>3</sup>/h**



**BUILT-IN  
VERSION**



**WALL  
VERSION**



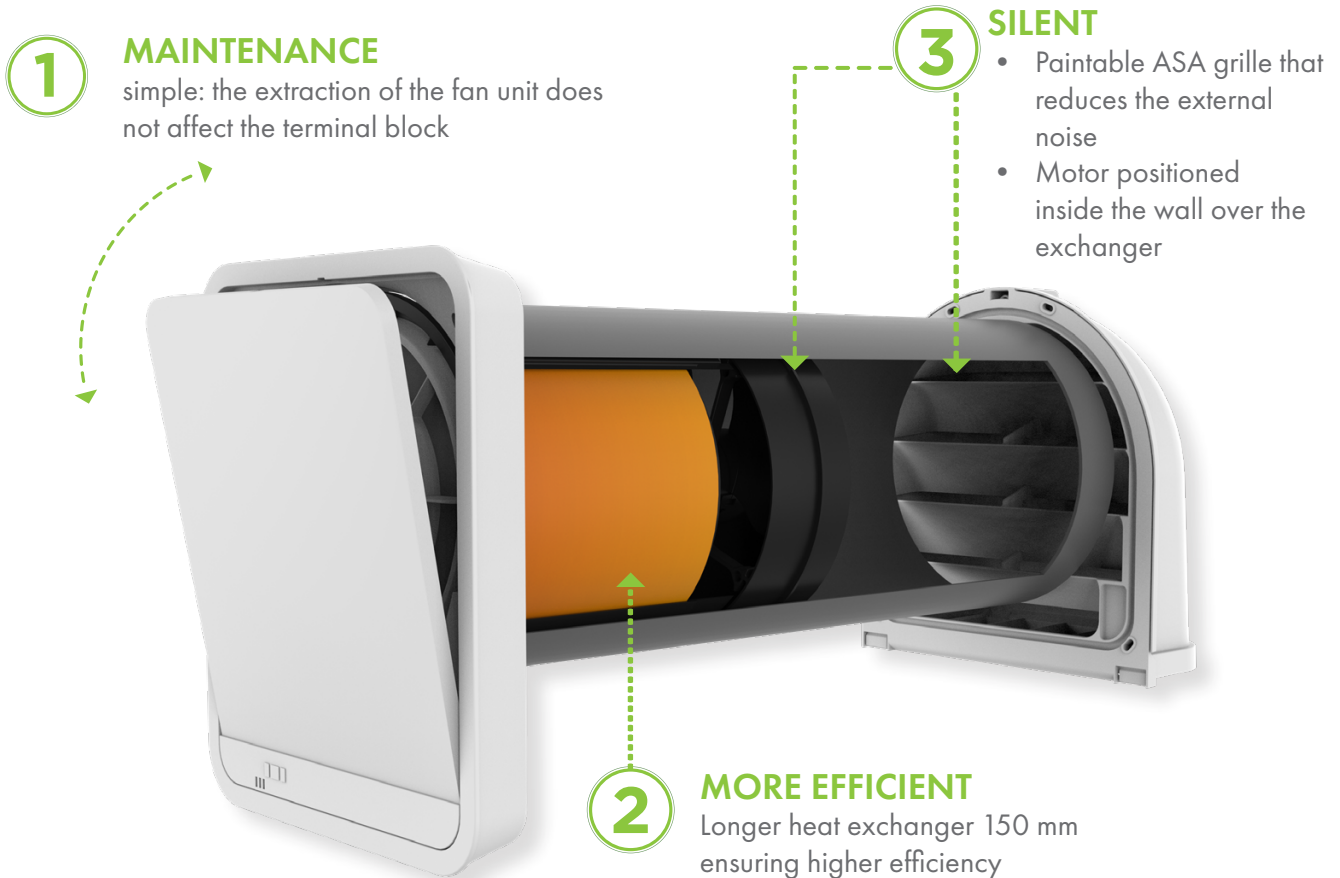
## FEATURES

Do you want to assure the right air exchange at home or at work?

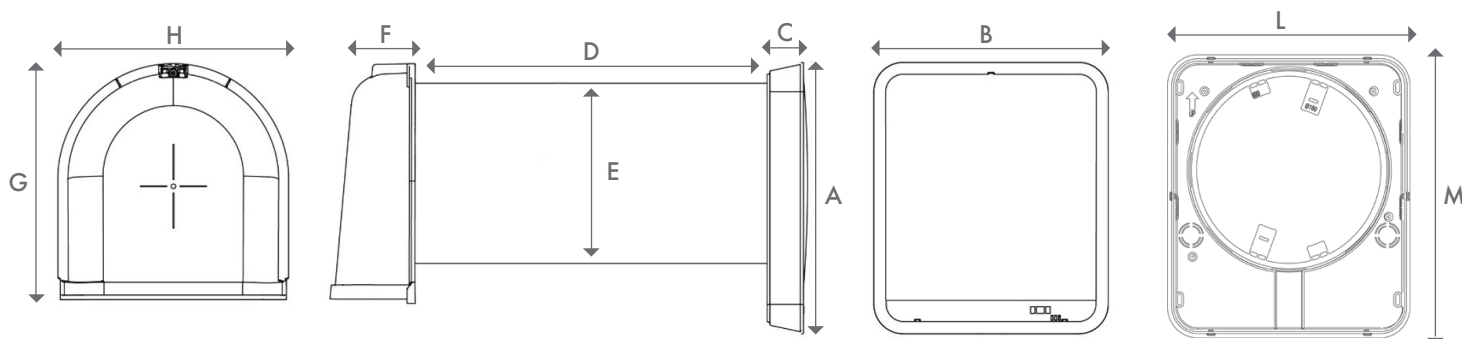
We introduce you **AIRE**, the *Controlled Mechanical Ventilation* system specific for large rooms to install both in case of renovations and new constructions.

AIRE permits to obtain alternate air flows both in extraction and intake up to **100 m<sup>3</sup>/h** (version Ø 200 mm). For 70 seconds AIRE extracts outside the warm and stale air of the room. During the passage into the duct, the air releases its thermal energy to the ceramic exchanger; once this phase finishes, the fan reverses the direction of rotation and starts the intake phase for another 70 seconds. The cold external air, passing through the heat exchanger, recovers the thermal energy and releases it into the room at a more comfortable temperature.

This allows to achieve significant **energy savings** because it prevents the heating system from operating at maximum intensity as would happen in the event of air exchange by opening the windows.



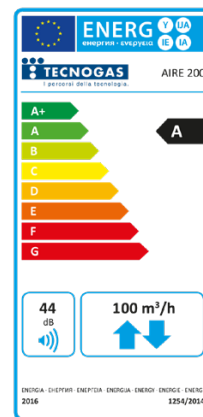
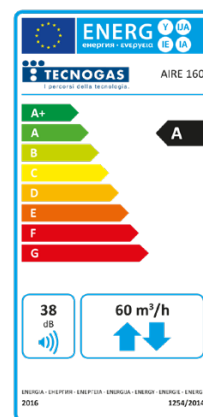
# DIMENSIONS



A	B	C	D	E	F	G	H	L	M
300 mm	261 mm	44,5 mm	500 mm*	Ø160/200	93,5 mm	265 mm	260 mm	264 mm	304 mm

\*Only for diameter 160 mm

- Motor fan positioned after the exchanger, inside the wall, to make the product extremely silent
- High efficiency ceramic thermal exchanger (**up to 93%**)
- ABS high-tight tilting front cover to avoid bad air returns when the device is off
- External grille in ASA, a noble plastic material that is highly resistant to UV rays, heat, and ageing, designed to minimize noise from the outside
- Standard length of the duct **500 mm (only model 160)**
- **Possibility of building-in the product with the built-in kit included in the package**
- The duct is NOT included in 200 mm version
- Minimum wall depth 250 mm for the external wall version and 300 mm for the built-in version. Maximum length of the duct 3 m (2.5 m if 90° bend is present)
- DC motor fan, brushless with control electronics, on ball bearings
- Simplicity of maintenance and cleaning
- Double dust filter, washable and easily accessible for maintenance
- Protection degree **IPX4**
- LED visual indicators for receiving commands and cleaning filters
- Humidity and twilight sensor
- The last function set is memorized and automatically restored in the event of a power failure
- Does not require condensation drain
- Operating temperature: **-30°C ÷ +50°C**



# REMOTE CONTROL WITH DISPLAY

**SURVEILLANCE MODE**  
The product will remain off but still active thanks to the sensors: it will be activated automatically if the ambient humidity exceeds the set value

**FLOW RATE**  
(Ø160) (Ø200)  
60 m<sup>3</sup>/h 100 m<sup>3</sup>/h  
40 m<sup>3</sup>/h 70 m<sup>3</sup>/h  
20 m<sup>3</sup>/h 40 m<sup>3</sup>/h

**HUMIDITY CONTROL\***  
90%  
60%  
40%  
*\*Thresholds declared on tests carried out in a climatic chamber at a constant temperature of 20°C*

**AUTOMATIC MODE**  
The unit is managed automatically via the humidity sensors

**MANUAL MODE**  
Operating mode with manually set speed (sensors excluded)

**NIGHT FUNCTION**  
To further reduce the air flow and therefore the noise

**BOOST FUNCTION**  
Allows you to expel air at maximum speed for a limited period.

**FLOW FUNCTION**  
Allows you to select the air flow direction

**RESET FILTER**  
After carrying out ordinary cleaning, press the button to restore operation

**ON/OFF**  
Machine ON/OFF button

## TECHNICAL DATA

SKU	Model	Hole Ø (mm)	Voltage (V)	Frequency (Hz)	IN/OUT Flow rate (m <sup>3</sup> /h)	P (Pa)	Power (W)	Noise level dB(A) <sub>3m</sub>
14431	ACTIVE 2.0	160	220-240	50	60	35	6,5	25
14432	WIRELESS 3.0	160	220-240	50	60	35	6,5	25
14441	ACTIVE 2.0	200	220-240	50	100	49	11,9	32
14442	WIRELESS 3.0	200	220-240	50	100	49	11,9	32

## PERFORMANCE

### AIRE 160

NIGHT speed			Speed 1			Speed 2			Speed 3		
Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>	Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>	Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>	Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>
10	3,9	4	20	4,1	8	40	4,9	18	60	6,5	25

### AIRE 200

NIGHT speed			Speed 1			Speed 2			Speed 3		
Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>	Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>	Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>	Flow rate m <sup>3</sup> /h	Power W	Noise dB(A) <sub>3m</sub>
20	3,9	6,5	40	4,9	14	70	7,4	22	100	11,9	32

### ACTIVE 2.0

Cable communication between units

**Features:**

- remote control with display
- integrated humidity and twilight sensor
- possibility of managing up to 16 units within a system in master/slave mode
- 3 adjustable speeds + night function

### WIRELESS 3.0

Wireless communication between units

**Features:**

- remote control with display
- integrated humidity and twilight sensor
- possibility of managing up to 16 units within a system in master/slave mode
- 3 adjustable speeds + night function

## OPTIONAL FILTER

The ISO COARSE filters, compared to the standard anti-dust filter, allow a more efficient filtration of particles with a diameter greater than 10 microns (such as fur, pollen, sand, dust in general). The filters are only available for the 160 mm diameter and with different degrees of filtration:

- **ISO COARSE 30%:** reduces the nominal flow rate by approximately 5%
- **ISO COARSE 45%:** reduces the nominal flow rate by approximately 15%
- **ISO COARSE 60%:** reduces the nominal flow rate by approximately 25%

### ACOUSTIC DAMPER

The acoustic damper allows you to reduce the noise coming from outside when the product is turned off and is only available for the **160 mm** diameter version.