Mistral
Heat Recovery Ventilator

Ventilair
GROUP

97 up to **%** Regeneration Efficiency

ErP 2018 COMPLIANT

18.9 dB(A) Whisper Silence

☑ *Elegant Design*

☑ *Quiet Operation*

☑ *Fresh Air, Smarter*

CE RoHS T CB IPX4

The Silent Lung of Your Home

Every Room Deserves to Breathe.

Behind closed windows, air grows heavy — with moisture, odours, and unseen dust.

Yet comfort isn't just about temperature. **It's about freshness. Clarity. Balance.**

This is where **Mistral** becomes more than a system.

It becomes a rhythm — a quiet exchange that refreshes your space without disruption.

No need to open windows.

No need to lose heat or energy.

Just a constant, invisible flow of clean, tempered air — keeping dust out, humidity down, and comfort steady.

With each breath it takes, your home becomes healthier.

And every room feels lighter, quieter, more alive.

Model Descriptions

Model	Functions		
	Humidity Control	WiFi Function	Pairing Operation
Mistral	●	●	●

Features

28.7 dB(A)

UP TO 97% HEAT RECOVERY

8.2W

Elegant, Minimalist Design
Blends seamlessly into modern interiors.

High-Efficiency Ceramic Core
Up to 97% heat recovery with low airflow resistance.

Auto Air Shutter
Blocks dust and backdraft when idle.

One-Hole Wall Installation
Compact, fast, and space-saving setup.

Quiet DC Motor
3-speed reversible fan, as low as 8.2W and 28.7 dB(A).

Advanced Filtration
Optional F7 (MERV13) filter and washable pre-filters.

Flexible Operation Modes
Standalone or optional multi-unit synchronized use.

Multiple Control Options
Remote and optional mobile app (iOS/Android).

Humidity Sensor
Smart humidity control to optimize indoor moisture.

Where Elegant Design Meets
Smart Ventilation

FRONT PANEL

Designed to disappear into the room, the front panel features a smooth, modern surface that looks more like a design element than a device, a quiet upgrade to any wall.

AUTO SHUTTER

Discreetly built into the design, the auto shutter closes gently when the unit stops, keeping out dust, insects, and cold drafts, while maintaining a clean, uninterrupted appearance.

Close

Open

HIGH-EFFICIENCY ENERGY REGENERATOR

Engineered with a ceramic core treated for hygiene, the regenerator recovers up to 97% of thermal energy, with options for honeycomb or ball regenerator that balance performance, purity, and comfort.

UP TO **97**% HEAT RECOVERY

REVERSIBLE DC FAN

Breathe In. Breathe Out. Quietly.

At the core of **Mistral** is a reversible EC fan that doesn't just move air — it mimics a natural rhythm.
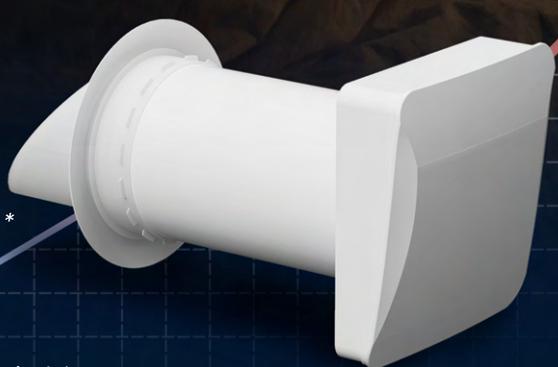
▶ **Every 75 seconds, the airflow gently shifts direction:**
fresh air in, stale air out. This alternating cycle keeps your room continuously ventilated without the need for ducts or open windows.

▶ **Hidden inside the wall, the fan operates with ultra-low energy consumption and minimal noise**
ensuring a quieter environment, longer motor life, and cleaner indoor air, day and night.

▶ **More than just ventilation.**
It's a quiet link to the fresh air your room deserves.
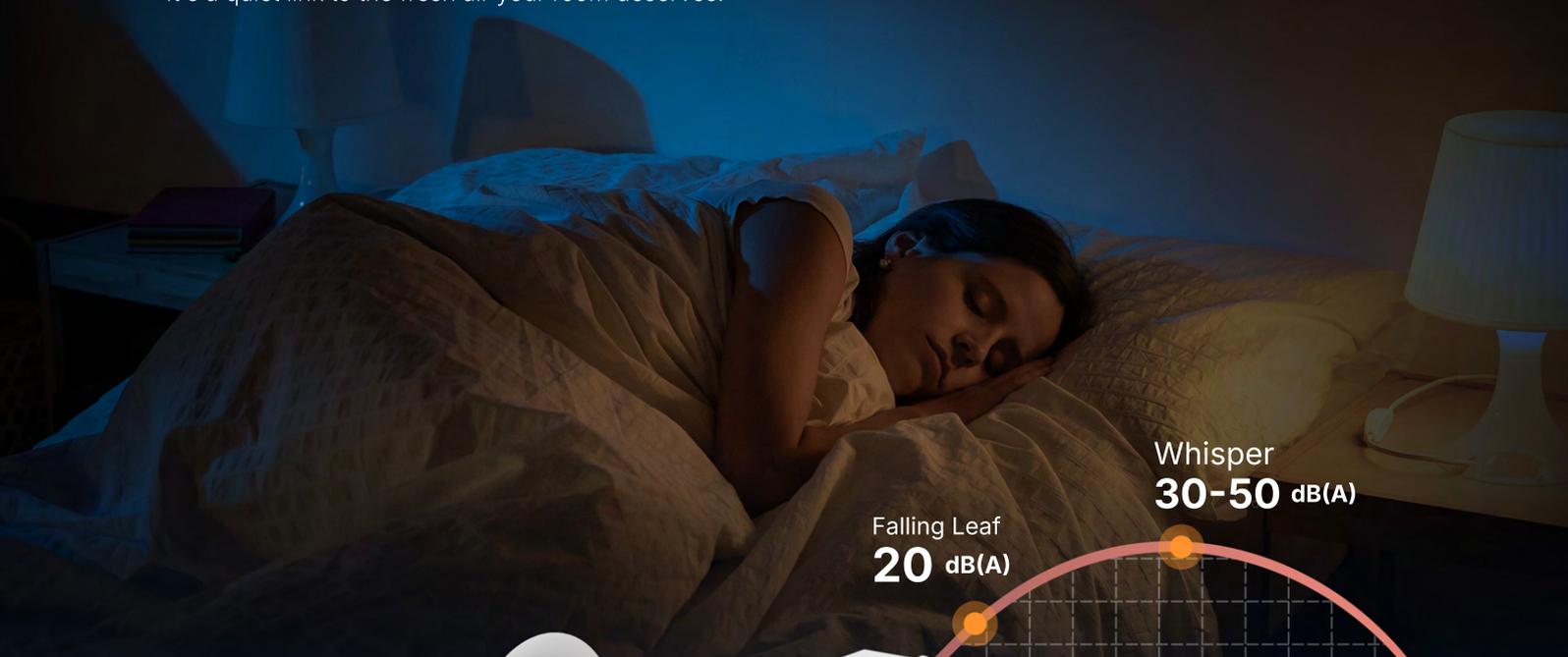
Whisper
30-50 dB(A)

Falling Leaf
20 dB(A)

Mistral
18.9 dB(A) *

Tested under authority laboratory at lowest speed at 1.5m around the unit.

ULTRA QUIET OPERATION

Get a good night's sleep
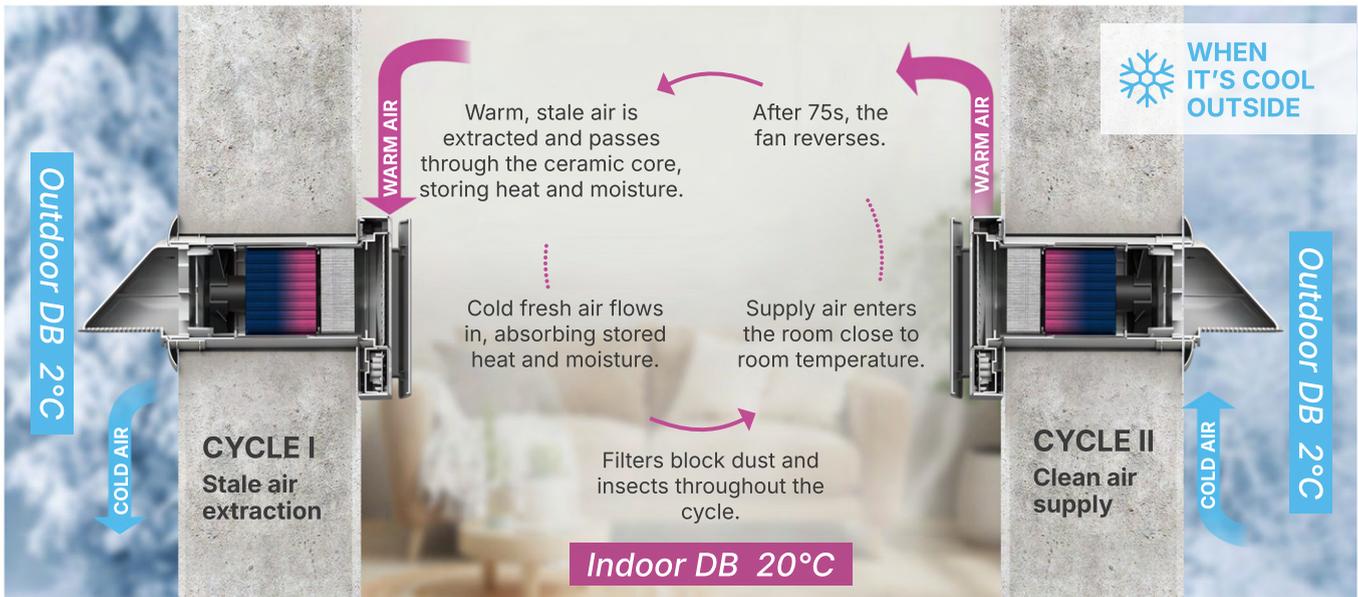
Smart Airflow for Year-Round Comfort

Mistral doesn't just ventilate — it carefully manages the airflow in your home.

Every 75 seconds, it alternates airflow, ensuring a balanced exchange of indoor and outdoor air, while keeping the energy inside your home.

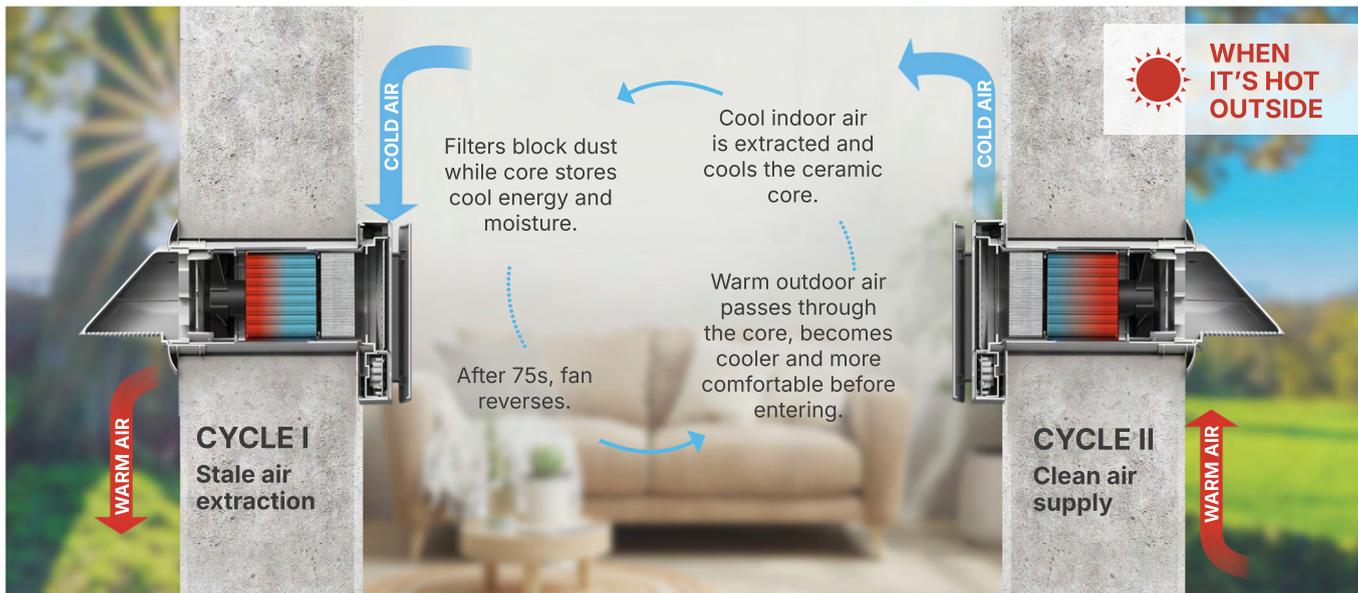The result? Cleaner air, lower energy bills, and a more comfortable home all year round.

▶ Energy Saving in Winter

While extracting stale indoor air, the ceramic core absorbs its warmth. As the fan reverses, fresh outdoor air passes through the pre-warmed core, delivering heat-recovered air back into the room — keeping your space cozy, without wasting energy.

WHEN IT'S COOL OUTSIDE

WARM AIR

Warm, stale air is extracted and passes through the ceramic core, storing heat and moisture.

After 75s, the fan reverses.

WARM AIR

Outdoor DB 2°C

Cold fresh air flows in, absorbing stored heat and moisture.

Supply air enters the room close to room temperature.

Outdoor DB 2°C

COLD AIR

CYCLE I
Stale air extraction

Filters block dust and insects throughout the cycle.

CYCLE II
Clean air supply

COLD AIR

Indoor DB 20°C

▶ Energy Recovery in Summer

On hot days, the process flips: the outgoing cooler indoor air cools the ceramic core. When fresh, warmer outdoor air enters, it passes through the cooled core, reducing the incoming heat — helping your home stay fresh and comfortable with less cooling effort.

COLD AIR

Filters block dust while core stores cool energy and moisture.

Cool indoor air is extracted and cools the ceramic core.

COLD AIR

WHEN IT'S HOT OUTSIDE

Warm outdoor air passes through the core, becomes cooler and more comfortable before entering.

After 75s, fan reverses.

WARM AIR

CYCLE I
Stale air extraction

CYCLE II
Clean air supply

WARM AIR

Easy Comfort, Your Way

▶ LED Display

Infrared Receiver — LED 3
Humidity Sensor — LED 2
Reset Button — LED 1

Button Operation:

Short Press RESET button: Select 1 speed/ 2speed/ 3speed/ power off circularly.

ON Power-off State:

- Long Press RESET button 3s, Ventilator Enter Wi-Fi connecting mode, LED1 Green Light Blinking, and LED1 Fast Green Light Blink ×4, Wi-Fi connected.

- Long press the RESET button for 6s/9s to enter pairing mode and set the Leader/Follower device. When LED1 blinks blue, the ventilator becomes the leader in pairing mode. When LED1 and LED2 blink blue, the ventilator becomes the follower in pairing mode. When LED1 blinks blue quickly 4 times, the pairing is complete.

- Long Press RESET button 12s, reset filter alarm, LED1 fast red light blink ×3.

- Long Press RESET button 15s, Restore factory settings, LED1 Red / LED2 Green / LED3 Blue Lights fast blink ×4: Factory reset complete.

Function Light (RGB-LED) Power-On State:

- Green Light: Supply air mode
- Red Light: Exhaust mode
- Blue Light: Regeneration mode
- Blue Light Flashing: Humidity-triggered exhaust
- Red Light Flashing: Filter cleaning reminder (960h runtime)
- LED1 Red Fast Blink x4: Filter timer reset

▶ Remote Control

Remote Control 1   *Optional Remote Control 2*

Speed +: Increase the fan speed, total 3 speeds.

Speed –: Reduce the fan speed, total 3 speeds.

Mode Switch: Change operation mode.

Light On/Off: Toggle LED indicators.

Boost Mode: Enter fan boost mode, the fan will run at highest speed for 30 minutes if no other operation.

Filter Alarm Reset: After cleaning the filter, press this button for 5s to reset filter alarm, The LED1 red light will flash 3 times.

Power On/Off: Switch the unit on/off.

▶ Pairing Function (Optional)

- One remote can control multiple units if no roles are set.

- After setting the roles, only the Leader unit responds to the remote. Followers follow the Leader's commands.

- In regeneration mode, the Follower fan runs in the opposite direction to the Leader, while in other modes, both fans run in the same direction.

Leader unit   *Follower unit*

1. Max communication range: 15 meters (line-of-sight).
2. Signal can penetrate 180mm thick brick wall.

Wireless Operation in Pair
To Ensure Balanced Ventilation

One unit supplies fresh air for 75s, while the other extracts indoor stale air for 75s, to achieve a balanced ventilation system.

▶ **Wireless connection of leader and follower unit**

▶ **No Wiring or Dialing Needed**

▶ **30 meters ultra long distance transmission**

Smarter Together

▶ **Wireless Pairing. Effortless Sync.**
Two units, one rhythm — supply and exhaust in perfect balance, no wiring needed.

▶ **Multiple Linkage. Total Control.**
Control unlimited units via app. One touch. Every room.

∗ 30 meters was tested without barrier and interference. In practical application, it is recommended to install within 8-15 meters. Please avoid strong interference sources and shielding objects (e.g. iron frames, aluminum ceiling).

WIFI Function (Optional)

- ▸ ON/OFF switch
- ▸ Fan speed selection
- ▸ Working mode selection
- ▸ Pairing status
- ▸ Outdoor temperature display

- ▸ Filter alarm
- ▸ 12 hrs timer setting
- ▸ Indicator lights ON/OFF
- ▸ Weekly schedule
- ▸ Fan boost function

- ▸ Multiple linkage control
- ▸ Smart control according to local weather
- ▸ Humidity control

The app is available on the App Store and Google Play.

GET IT ON Google Play

Download on the App Store

Work with Alexa and Google Assistant.

JUST ASK amazon alexa

works with Hey Google

Energy Saving and
Improve Indoor Air Comfort

▶ Humidity Control

Mistral is alternatively equipped with the humidity sensor, user can set the desired humidity level at the APP.

Under regeneration mode, when the indoor humidity level exceeds the set value, the unit will be switched to Exhaust mode to extract the indoor air for reducing the indoor humidity.

The unit returns to the previous operation mode when the indoor humidity is less than the set humidity by 5%.

▶ Scene Control (Optional)

User can create scene(s) according to the weather changes, schedule or the device status changes.

85%

For example, when the weather shows the outdoor relative humidity is higher than 85%, user can set the ventilator to stop or run at exhaust mode, to prevent the outdoor humidity coming inside. The unit will run according to the setting automatically.

▶ Group Control (Optional)

The ventilator can create group control at the APP, the quantity is not limited. User can control all the ventilators in the group easily.
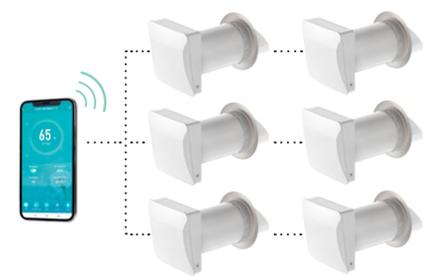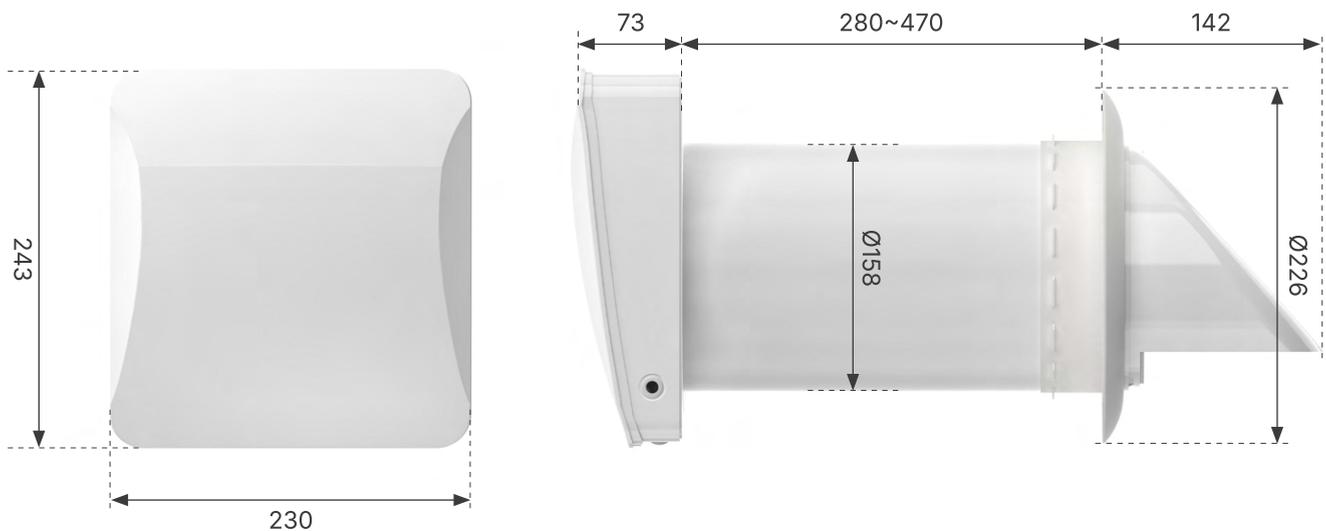
Technical Parameters

Voltage	100V~240V AC /50-60Hz		
Power (W)	4.7	5.6	6.5
Airflow (L/M/H) (m³/h)	30	50	60
Airflow (L/M/H) (CFM)	17.6	29.4	35.3
Sound pressure level dB(A)	18.9	25.2	28.7
Regeneration efficiency	Up to 97%		
SEC	A+		
RPM (max)	2200		
Diameter of duct (mm)	158		
Product size (mm)	230×243×499.7 (The length of duct in wall is 280-470 mm)		
Net Weight (kg)	3.9		

*Note: The airflow in supply/exhaust mode without F7 filter is about 34/56/70CMH or 20/33/41.2 CFM, and the relative parameters will be adjusted accordingly.

Dimensions

(Unit: mm)

Accessories

Picture	Accessory Name	Product Code	Picture	Accessory Name	Product Code
	Kit for the thin wall	AS-KTW001/ AS-KTW002		Plastic round grille	AS-PRG002
	Extended pipe (Ø 160, Length 390 mm, to extend the total pipe length to 600 mm)	AS-EDP001		Stainless steel round grille	AS-SRG001
	Ventilation hood for indoor mounting	AS-VHI001		Smart air quality detector	AS-AQ010Z-1
	Metal outer hood with electrical heater	AS-MHE001White/ AS-MHE001-B Black		Platic hood	AS-PSG003 White/ AS-PSG003-B Black
	Metal outer hood	AS-MHN001 White/ AS-MHN001-B Black		White painted metal outer hood for thin walls	AS-MHN002 White/ AS-MHN003 Black
	Plastic square grille	AS-PSG002		F7 (MERV13) filter	AS-F7F001
	Heat storage ball regenerator	AS-TA50-2		Portable Ionizer	AS-ION01