

Ventilair Mistral

ENERGY RECOVERY UNIT



97% up to
Regeneration Efficiency



18.9
dB(A)
Whispering Silence

- Elegant Design
- Silent Operation
- Fresher, Smarter Air



A Refuge of Pure Air in Your Home

A perfect microclimate, always connected

In the concrete jungle of cities, breathing truly clean air has become the greatest luxury. Amid noise and pollution, opening the windows is no longer an option; it means letting in pollen, dust, and smoke, as well as throwing out the money invested in climate control.



Ventilair Mistral was created to give you back that right, the pleasure of breathing the purity of nature without leaving home, acting like a gentle mountain breeze that flows through every room, constantly and silently renewing the air.

More than technology, it is a harmonious exchange. Mistral establishes a constant renewal rhythm that refreshes your space without interruptions or annoying drafts.

Leak-free efficiency.

Goodbye to pollution.

With Ventilair Mistral, your home is not just lived in; it is enjoyed with every breath. Because every room deserves its own breeze.

Turn every room into a clearing in the forest, where the air is light, humidity is under control, and mental clarity flourishes

A flow of invisible life with the best air

Model descriptions

Model	Functions		
	Humidity Control	WiFi Function	Pairing Operation
VGDHMIS01	●	●	●



Features

28.7
dB(A)

UP TO 97%
DE RECUPERACION DE CALOR

8.2w



Elegant and minimalist design

It integrates perfectly into modern interiors.



High-efficiency ceramic core Up to 97% heat recovery with low airflow resistance.



Automatic air shutter

Blocks dust and air backflow when inactive.



Single-hole wall installation

Compact, quick, and space-saving installation.



Silent DC motor

3-speed reversible fan, from just 8.2W and 28.7 dB(A).



Advanced filtration

Optional F7 (MERV13) filter and washable prefilters.



Flexible operating modes

Independent use or synchronized with multiple units (optional).



Multiple control options

Optional remote control and mobile app (iOS/Android).



Humidity sensor Intelligent humidity control to optimize indoor humidity.

Where design and elegance meets intelligent 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 silent upgrade for any wall.



AUTOMATIC SHUTTER

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



HIGH-EFFICIENCY ENERGY REGENERATOR

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



REVERSIBLE DC FAN

Inhale. Exhale. In silence.

At the heart of Mistral there is a reversible EC fan that not only moves the air, but also mimics a natural rhythm.

▶ **Every 75 seconds, the airflow gently changes direction:**

fresh air comes in, stale air goes 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 an 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 is a silent connection to the fresh air your room deserves.



Mistral 18.9
dB(A) *

Falling leaf
20 dB(A)

Whisper
30-50 dB(A)

**OPERATION
ULTRA QUIET**

Sleep well all night

* Tested in an authorized laboratory at the speed lowest at 1.5 m around the unit.

Smart airflow for your comfort all year round

Mistral not only ventilates, but also carefully manages the airflow in your home.

Every 75 seconds, it alternates the 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 savings in winter

While it extracts stale air from inside, the ceramic core absorbs its heat. When the fan reverses its direction, fresh air from outside passes through the preheated core, returning heat-recovered air to the room, keeping your space cozy without wasting energy.



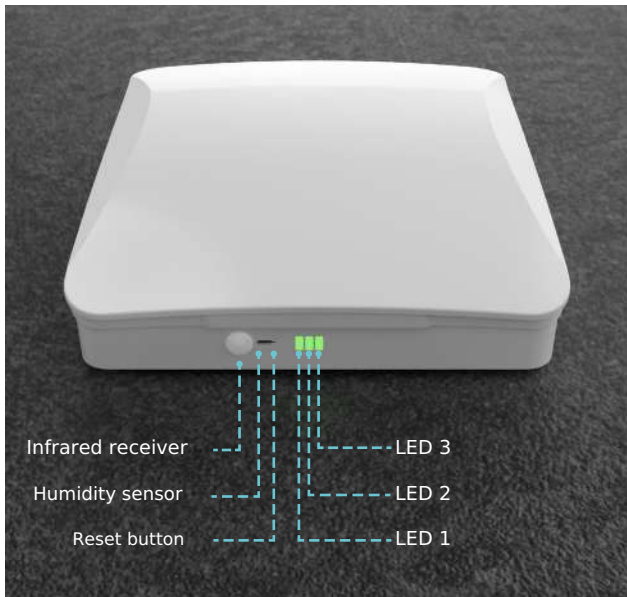
►Energy recovery in summer

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



Easy comfort, your way

►LED display



Button operation:

Short press of the RESET button: Cycles through 1 speed/2 speeds/3 speeds/off.

When powered off:

□ Hold the RESET button for 3s, the fan enters Wi-Fi connection mode, the green LED1 blinks and LED1 blinks rapidly in green x4, Wi-Fi connected.

□ Hold the RESET button for 6s/9s to enter pairing mode and set the device as Leader/Follower. When LED1 blinks blue, the fan becomes the leader in pairing mode. When LED1 and LED2 blink blue, the fan becomes the follower in pairing mode. When LED1 blinks blue rapidly 4 times, pairing is complete.

□ Hold the RESET button for 12s, resets the filter alarm, LED1 flashes rapidly in red x3.

□ Hold the RESET button for 15s, restores factory settings, LED1 red / LED2 green / LED3 blue flash rapidly x4: Factory reset complete.







Function light (RGB-LED) Power on status:

- Green light: Air supply mode
- Red light: Exhaust mode
- Blue light: Regeneration mode
- Blinking blue light: Humidity-activated exhaust
- Blinking red light: Filter cleaning reminder (960h of use)

□ LED1 rapid red flashing x4: Filter timer reset

►Remote control



-  Speed +: Increases the fan speed, total 3 speeds.
-  Speed -: Decreases the fan speed, total 3 speeds. : R
- M** Mode switch: Changes the operating mode.
-  Light On/Off: Toggles the LED indicators. : T
-  Boost Mode: Enters fan boost mode, the fan will run at maximum speed for 30 minutes if there is no other operation.
-  Filter alarm reset: After cleaning the filter, hold this button for 5s to reset the filter alarm. The red LED1 will flash 3 times.
-  Power On/Off: Turns the unit on or off.

v Pairing function (optional)

□ A single remote control can control multiple units if no roles are assigned.

□ After assigning roles, only the Leader unit responds to the remote control. Followers follow the Leader's commands.

□ In regeneration mode, the Follower fan rotates in the opposite direction to the Leader, while in other modes, both fans rotate in the same direction.



1. Maximum communication range: 15 meters (line of sight).
2. The signal can penetrate a brick wall 180 mm thick.

Wireless operation in pairs

To ensure balanced ventilation

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

▶ **Wireless connection between main and secondary unit**

▶ **No wiring or setup required**

▶ **Ultra long-distance transmission of 30 meters**

Smarter together

▶ **Wireless pairing. Effortless synchronization.**

Two units, one rhythm: supply and extraction in perfect balance, no wiring needed.

▶ **Multiple connections. Total control.**

Control unlimited units via the app. One touch. Every room.



□ The 30 meters were tested without barriers or interference. In practical use, it is recommended to install within 8-15 meters. Please avoid strong sources of interference and objects that block the signal (e.g., iron structures, aluminum ceilings).

WiFi Function (Optional)



- Ü ON/OFF Switch
- Ü Filter alarm
- Ü Multiple link control
- Ü Fan speed selection
- Ü 12h timer setting
- Ü Smart control according to local weather
- Ü Operating mode selection
- Ü Indicator lights ON/OFF
- Ü Humidity control
- Ü Pairing status
- Ü Weekly schedule
- Ü Outdoor temperature display
- Ü Fan boost function



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



Works with Alexa and Google Assistant.



Energy saving and improvement of indoor air comfort

► Humidity control

The MISTRAL is alternatively equipped with a humidity sensor; the user can set the desired humidity level in the APP.

In regeneration mode, when the indoor humidity level exceeds the set value, the unit will switch to extraction mode to extract indoor air and reduce humidity.

The unit returns to the previous operating mode when the indoor humidity is 5% below the set value.

► Scene control (optional)

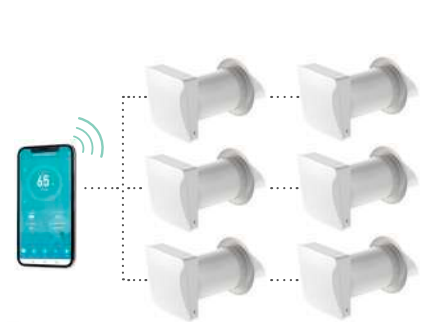
The user can create scene(s) according to weather changes, schedule, or changes in device status.



For example, when the weather shows that the outdoor relative humidity is above 85%, the user can set the fan to stop or operate in extraction mode to prevent outdoor humidity from entering. The unit will operate automatically according to the settings.

► Group control (optional)

The fan can create group control in the APP, the number is not limited. The user can easily control all fans in the group.



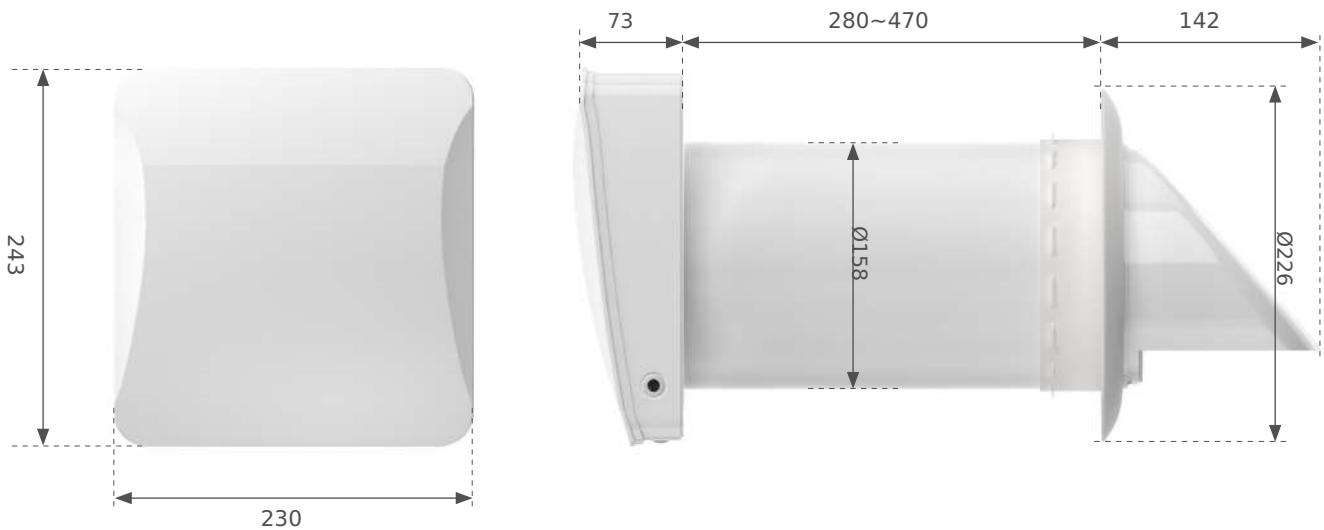
Technical Parameters

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		
Duct diameter (mm)	158		
Product size (mm)	230x243x499.7 (The duct length in the wall is 280-470 mm)		
Net weight (kg)	3.9		

*Note: The airflow in supply/extraction mode without F7 filter is approximately 30/50/60CMH or 17.6/29/35.3 CFM, and the related parameters will be adjusted accordingly.

Dimensions

(Unit: mm)



Ventilair Mistral

Accessories

Image	Accessory name	Product code	Image	Accessory name	Product code
	Extended tube (Ø 160, Length 390 mm, to extend the tube total length to 600 mm)	VGACMIS01		Stainless steel round grille	VGACMIS05
	Ventilation hood for indoor use installation	VGACMIS02		Air smart quality detector	VGACMIS06
	Bola de almacenamiento de calor regenerador	VGACMIS03		White plastic hood	VGACMIS07 White
	Round plastic grille	VGACMIS04		Painted in white metal exterior hood for thin walls	VGACMIS08 White
	F7 Filter (MERV13)	VGACMIS09			



Ventilair

G R O U P

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