pairdirect

VENTS

SINGLE-ROOM ENERGY RECOVERY UNITS

The new TwinFresh Atmo family

TWINFRESH ATMO

TWINFRESH ATMO MINI

Power from

1.1 W

Air flow up to

50 m^3/h

Sound pressure level from

11 dBA

Power from

1 W

Air flow up to

25 m^3/h

Sound pressure level from

10 dBA

SH

TwinFresh Atmo – is a brand new dMVHR solutions for newbuild and retrofit single-room applications, offer efficient and cost-effective ventilation.

ADVANTAGES

COMPACT

Brand new, stylish design of indoor unit will fit into any interior

ENERGY SAVING

High efficiency (up to 95 %) heat recovery to reduce energy costs and helps you save on heating and air conditioning

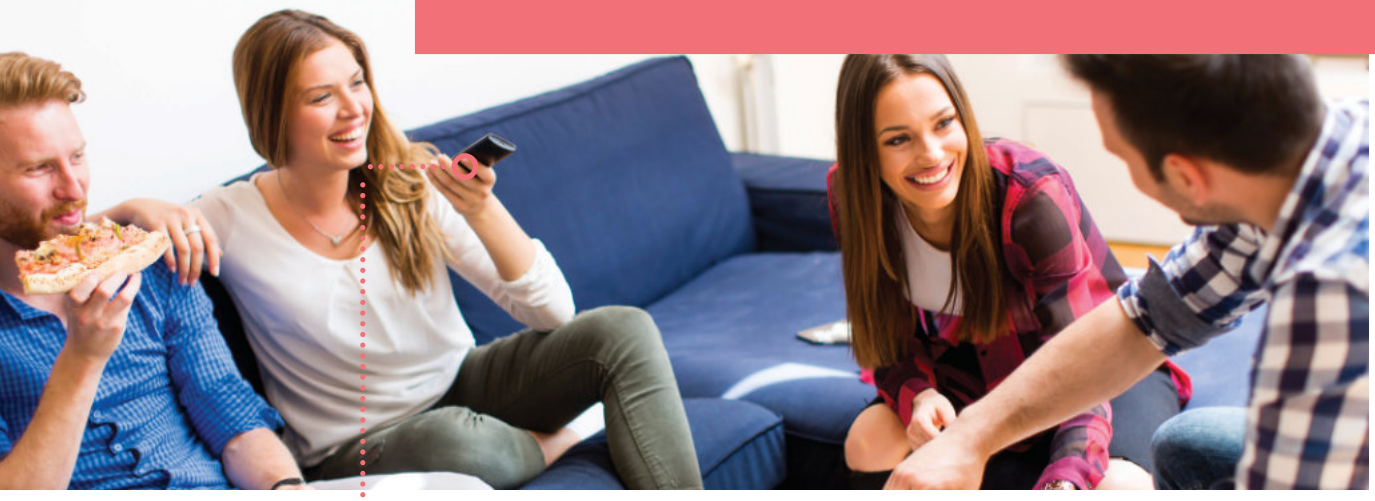
Built-in humidity sensor allows unit to automatically select the mode, control the humidity level and prevents mold growth

Night mode timer (8 hour low speed)
Possibility to connect external sensors

Equipped with an automatic shutter to prevent undesired external entry when turned off (optional)

- Built-in light sensor controls the brightness of the control panel LEDs and activates night mode automatically.
- Silent operation, making it perfect for living spaces.
- Low power consumption, making Atmo suitable for continuous operation without significantly impacting energy bills.
- Remote management through a remote control.
- Atmo is easy to mount through external walls without the need for complex ducting.
- Operation within a network guarantees balanced ventilation.
- Higher degree of supply air purification can be achieved with an ISO ePM1 60 % (F7) filter.

EASY TO CONNECT
EASY TO CONTROL

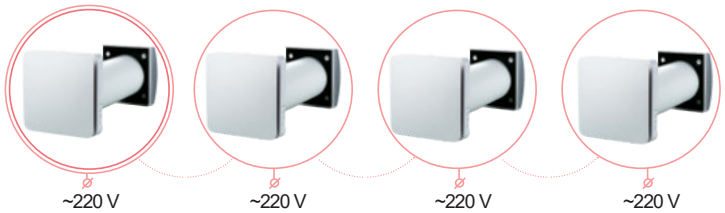


The TwinFresh Atmo series ventilators are equipped with a remote control.

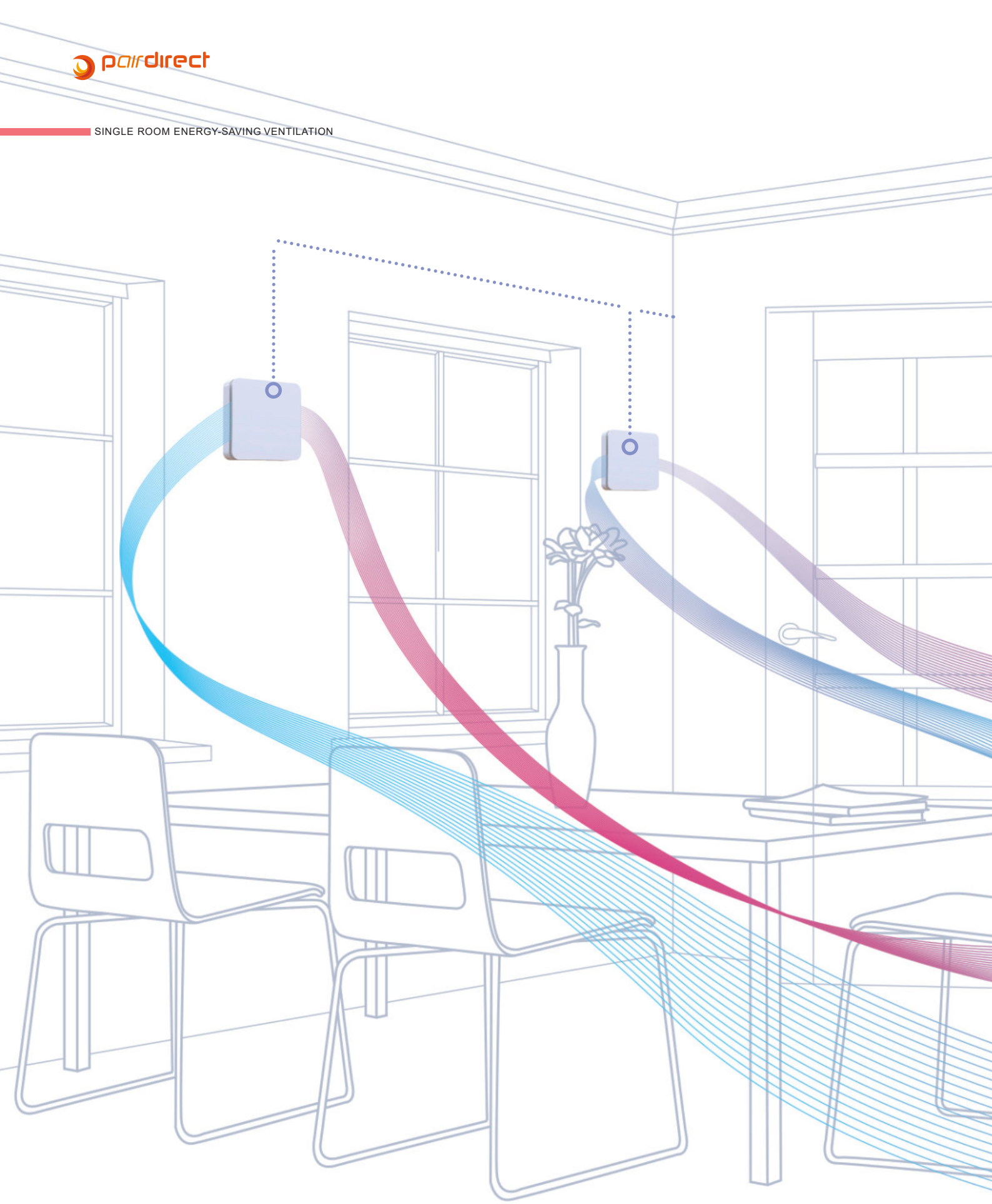
Operation modes:

- Switch on/off the unit
- Speed selection (3 different speeds available)
- Ventilation with heat recovery / Ventilation / Extract or supply
- Party mode: switch on speed 3 for 4 hours
- Night mode: the integrated light sensor sends a signal to switch the ventilator to low-speed mode (speed 1 for 8 hours)
- Humidity control mode selection
- Filter replacement indicator
- Alarm emergency indicator

The ventilators can be connected into one network for centralized control. For Wi-Fi versions, units can be connected wirelessly. The signals from the control panel, remote control or smartphone, as well as from the humidity sensor, are received only by the master (main) ventilator.



FITS PERFECT INTO THE INTERRIOR



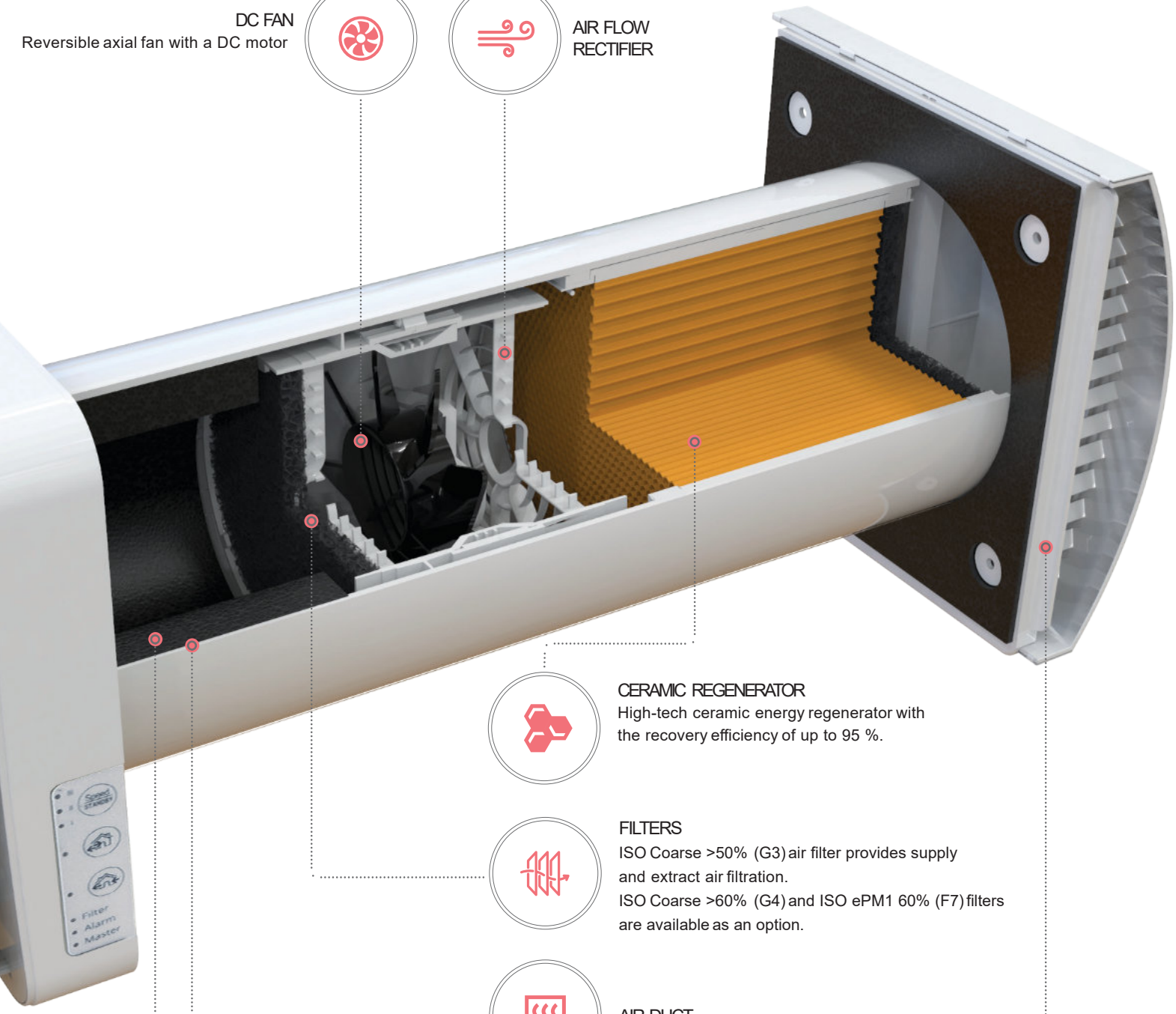
OPERATION IN A NETWORK

Any number of ventilators may be connected into one network.
Control is carried out through the first ventilator.

HOW IS IT DESIGNED?

DC FAN
Reversible axial fan with a DC motor

AIR FLOW
RECTIFIER



CERAMIC REGENERATOR
High-tech ceramic energy regenerator with the recovery efficiency of up to 95 %.

FILTERS
ISO Coarse >50% (G3) air filter provides supply and extract air filtration.
ISO Coarse >60% (G4) and ISO ePM1 60% (F7) filters are available as an option.

AIR DUCT

SOUND
ABSORBING
MATERIAL

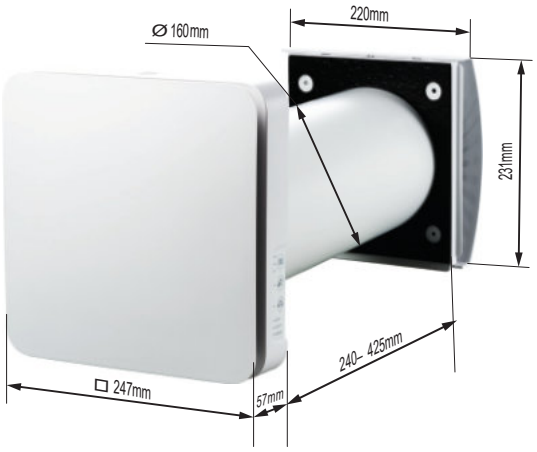
OUTER VENTILATION HOOD
Prevents ingress of water and foreign objects into the ventilator.

TECHNICAL DATA

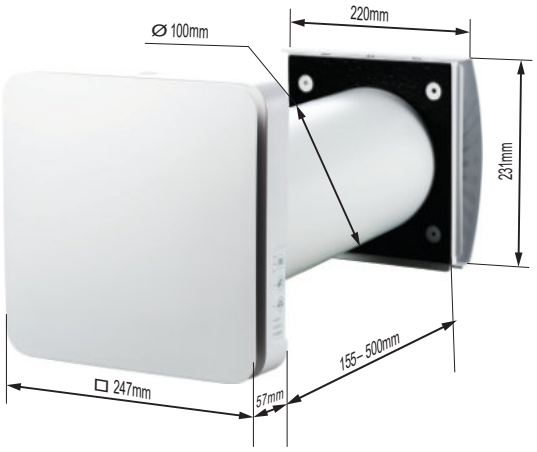
Model	TwinFresh Atmo mini			TwinFresh Atmo		
Speed	I	II	III	I	II	III
Unit voltage [V/50 (60) Hz]	100-240 / 50-60			100-240 / 50-60		
Power [W]	1.0	1.6	3.0	1.1	2.0	3.4
Current [A]	0.02	0.03	0.04	0.03	0.04	0.05
Air flow in ventilation mode [m^3/h (l/s)]	8 (2)	16 (4)	25 (7)	15 (4)	35 (10)	50 (14)
Air flow in energy recovery mode [m^3/h (l/s)]	4 (1)	8 (2)	13 (3)	8 (2)	15 (4)	25 (7)
SFP [W/l/s]	0.90	0.72	0.86	0.53	0.46	0.49
Filter	ISO Coarse >50% (G3) (ISO Coarse >60% (G4), ISO ePM1 60% (F7) optional)					
Transported air temperature [°C]	-15...+40			-20...+40		
Sound pressure level at 1 m distance [dBA]	20	26	33	20	30	36
Sound pressure level at 3 m distance [dBA]	10	16	23	11	21	27
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	40 / 44					
Heat recovery efficiency	up to 81%			up to 95 %		
Protection class	IP24					

OVERALL DIMENSIONS

● TwinFresh Atmo

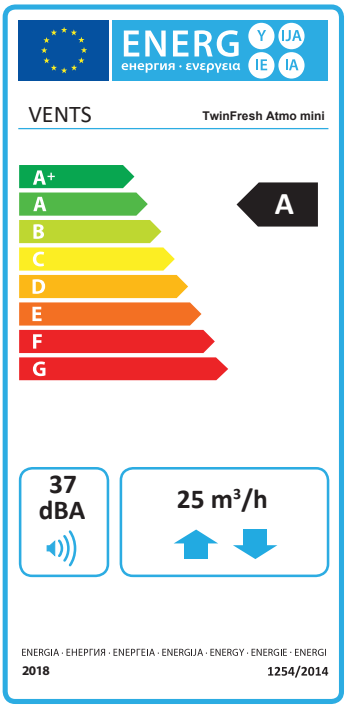


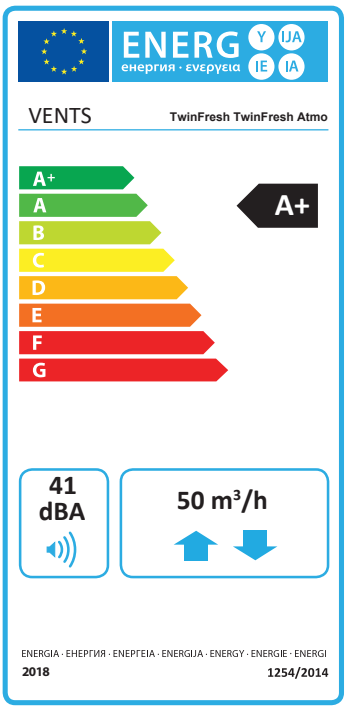
● TwinFresh Atmo mini



ECODESIGN

Model	TwinFresh Atmo mini			TwinFresh Atmo		
Specific energy consumption (SEC) [kWh/(m².a)]	Cold	Average	Warm	Cold	Average	Warm
	-81,5 A+	-40,9 A	-17,7 E	-88,2 A+	-44,7 A+	-19,8 E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Regenerative					
Thermal efficiency of heat recovery [%]	71			85		
Maximum air flow rate [m³/h]	25			50		
Power [W]	3			3.4		
Sound power level [dBA]	37			41		
Reference air flow rate [m³/s]	0.004			0.01		
Reference pressure difference [Pa]	0			0		
Specific power input (SPI) [W/(m³/h)]	0.1			0.57		
Control typology	Local demand control					
Maximum internal leakage rate [%]	2.7					
Maximum external leakage rate [%]	0					
Mixing rate of bidirectional units [%]	1					
Classification of the airflow sensitivity to pressure variations, according to EN 13141-8 [%]	-			S3		
Classification of the indoor/outdoor air tightness, according to EN 13141-8 [m³/h]	D1					
Internet address	http://www.ventilation-system.com					
Annual electricity consumption (AEC) [kWh electricity/a]	Cold	Average	Warm	Cold	Average	Warm
	190	190	190	31	31	31
Annual heating saved (AHS) [kWh primary energy/a]	Cold	Average	Warm	Cold	Average	Warm
	8294	4240	1917	8695	4445	2010





ACCESSORIES

	Atmo mini	Atmo		
Hoods	EH-14 white 100	EH-14 white 160		Plastic hood. Colour options:  White Black Grey Terracotta Brown Beige
	EH-14 chrome 100 Grey	EH-14 chrome 160 Grey		Grey plastic outer hood with a brushed stainless steel cover
	EH-17 white 100	EH-17 white 160		Plastic hood. Colour options:  White Black Grey Terracotta Brown Beige
	EH-2 grey 100	EH-2 grey 160		Grey painted stainless steel outer hood for thin walls
	EH-2 chrome 100	EH-2 chrome 160		Polished stainless steel hood for thin walls
	-	MVVM162 05		Ventilation hood for indoor mounting

	Atmo mini	Atmo		
Angular mounting	NP 100 white-0078	NP60x204-0021		Kit for angular mounting with white colour grille
	NP100 chrome-0079	NP60x204-0082		Kit for angular mounting with stainless steel outer grille

	Atmo mini	Atmo		
Mounting elements	-	3805		Round telescopic air duct 300-500 mm
	1810	3810		Round telescopic air duct 500-1000 mm

	Atmo mini	Atmo		
For ventilator control	RCTwinFresh Atmo	RCTwinFresh Atmo		Remote control

	Atmo mini	Atmo		
Mounting elements	SFC3 TwinFresh G3	SFC2 TwinFresh G3		G3 filter kit (2 pcs.)
	-	SF2 TwinFresh F7		F7 filter
	-	SF2 TwinFresh G4		G4 filter

All the information contained in this catalogue is for reference only.

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