

ECOCOMFORT PLUS

SINGLE ROOM HEAT RECOVERY UNIT

- Ø 160 and 100 mm
- Infrared control
- Temperature, humidity, VOC air quality and brightness sensors
- Wall mounting
- Suitable for rooms up to 35 mq*
- Low noise level
- High efficiency ceramic heat exchanger up to 90%

* based on:

- air exchange equal to 0.5 Vol / h

- local height 2.70 meters

Calculation example: ambient surface x 2.70 meters x 0.5 Vol / h



3
years
guarantee

IP40

Remote
control

IPX4

Heat
recovery unit



ECOCOMFORT PLUS is a ventilation system that allows you to always have a change of clean air in indoor environments, without the need to open the windows, also preventing the formation of humidity and mould.

A high-efficiency regenerative ceramic heat exchanger, placed inside the unit, accumulates the heat released by the air flow extracted from the room and returns it by heating the air during the intake cycle, thus recovering the output heat and avoiding energy waste.

ECOCOMFORT PLUS is equipped with an ISO COARSE efficiency class filter which retains any impurities from the air released into the environment and a low consumption brushless DC motor controlled by a microprocessor which processes the information from the sensors present on the unit: temperature, VOC (Volatile Organic Compounds), humidity and light brightness. All these sensors allow the unit to adopt the most suitable ventilation modes automatically and ensure the best environmental comfort.

The remote control allows for simple and intuitive configuration during installation and easy use by the end user. Infrared (IR) technology allows immediate communication with the device and the user can easily manage the sensors with which the unit is equipped and obtain information regarding the current operating mode. By installing multiple ECOCOMFORT PLUS units, a single remote control will be enough to configure and control them all.

ECOCOMFORT PLUS is available in two diameters (100 mm and 160 mm) and must be installed on the perimeter walls.

TECHNICAL FEATURES

CODE	MODEL	Ø	SQM	Speed	m³/h	W max	Power supply	dB(A) 1,5 mt
AP19993	ECOCOMFORT PLUS 160	160 mm	35 mq ^(*)	low	28	2,8	110V ÷ 230V~ 50/60Hz	26
				medium	33	5,2		30
				high	50	8,9		36
				sleep	15	1,6		n.d.
AP19989	ECOCOMFORT PLUS 100	100 mm	20 mq ^(*)	low	7	2,0	110V ÷ 230V~ 50/60Hz	18
				medium	16	3,5		23
				high	26	5,0		28
				sleep	5	n.d.		n.d.

ADDITIONAL FAN UNITS WITHOUT REMOTE CONTROL

AP199931	ECOCOMFORT PLUS 160 WITHOUT REMOTE CONTROL	160 mm	35 mq ^(*)	low	28	2,8	110V ÷ 230V~ 50/60Hz	26
				medium	33	5,2		30
				high	50	8,9		36
				sleep	15	1,6		n.d.
AP199891	ECOCOMFORT PLUS 100 WITHOUT REMOTE CONTROL	100 mm	20 mq ^(*)	low	7	2,0	110V ÷ 230V~ 50/60Hz	18
				medium	16	3,5		23
				high	26	5,0		28
				sleep	5	n.d.		n.d.

* based on:

- air exchange equal to 0.5 Vol / h

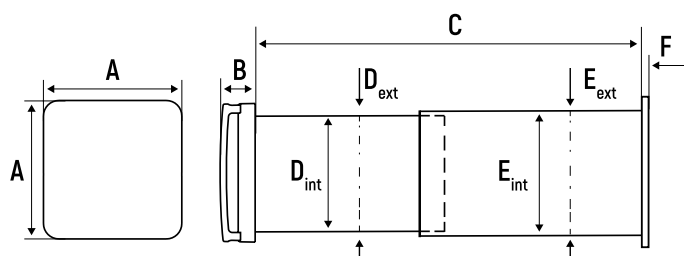
- local height 2.70 meters

Calculation example: ambient surface x 2.70 meters x 0.5 Vol / h

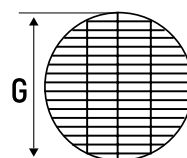
DIMENSIONS (mm)

MODEL	A	B	C*	D _{int}	D _{ext}	E _{int}	E _{ext}	F	G	L	M
ECOCOMFORT PLUS 160	180	47	280/530	150	154	156	160	20	190	40	150
ECOCOMFORT PLUS 100			280/570	100	103	104	107				

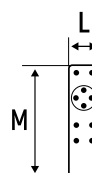
HEAT RECOVERY UNIT



EXTERNAL
GRILLE



IR REMOTE
CONTROL



* for wall thicknesses between 240 mm and 280 mm cut the tube and use a standard external grille (not supplied).

FEATURES

- Body made in antistatic ABS plastic;
- Operating temperature -20 ° C to 50 ° C;
- Compact dimensions and easy to install;
- Telescopic body to fit every wall thickness;
- External grille easy to install either from indoor or outdoor;
- ISO Coarse filter;
- Flow rectifier to grant higher performances, only for 160mm models (AP19993);
- Infrared (IR) remote control
- LED signaling in the lower part of the front body;
- Temperature, VOC air quality, humidity and twilight sensors;
- In compliance to UE Reg. 1254/2014

KIT AP19993 and AP19989 include:

- Ventilation unit complete with heat exchanger, telescopic tube and external grille;
- IR remote control.

KIT AP199931 and AP199891 include:

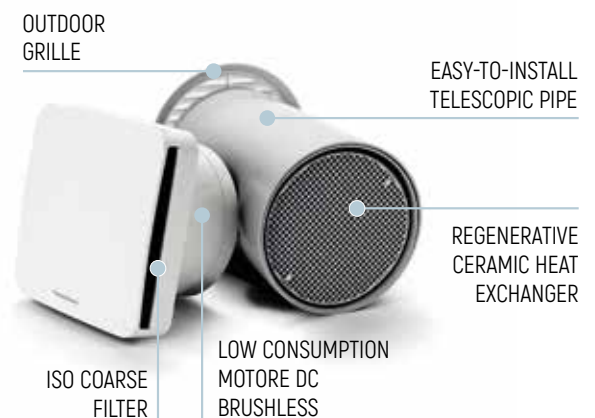
- Ventilation unit complete with heat exchanger, telescopic tube and external grille;

ACCESSORIES AND SPARE PARTS:

- Fan motor unit compatible with all ECOCOMFORT PLUS and ECOCOMFORT RF models;
- External air inlet/exhaust terminal with rainproof and windproof grille;
- ISO Coarse filter
- IR remote control

HEAT RECOVERY UNIT

- Ventilating unit with DC Brushless motor;
- PVC shockproof telescopic body;
- Ceramic heat exchanger with efficiency >90%;
- Cross-linked polyurethane filter, ISO Coarse filtration class according to EN799;
- Flow straightener to ensure higher performances, only for version with 160 mm diameter (AP19993);
- Power supply 110V ÷ 230V~ 50/60Hz;
- LED signaling in the lower part of the front body;
- Temperature, VOC, humidity and brightness sensors;
- Splash proof protection class: IPX4.



INFRARED REMOTE CONTROL

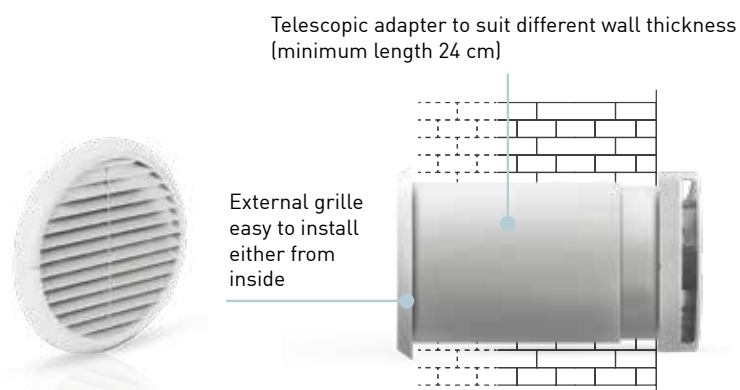
- Simple and functional 12-key keyboard;
- Infrared technology for even faster communication with the device;
- Functional feedback via signaling LEDs in the lower part of the front body;
- Compatible with all devices of the ECOCOMFORT PLUS series;
- Power: 2 AAA batteries (not supplied);
- Protection degree: IP40;
- Battery life: > 24 months.



INSTALLATION

ECOCOMFORT PLUS must be installed on the external walls. Thanks to the telescopic body it fits easily every wall thickness with a minimum length of 24 cm.

The external grille can be easily installed from outside or inside without the need of any scaffolding.



OPERATION

REMOTE CONTROL

■ System status request:

 checks the current operating mode and speed

■ Setting the operating mode:

 **EXTRACTION** = The unit extracts air from the room for 60 minutes, then switches to “automatic cycle” mode.

 **INTAKE** = The unit injects air into the room for 60 minutes, then switches to “automatic cycle” mode.

 **AUTOMATIC CYCLE** = The unit draws in/out air from the room by automatically optimising cycle intervals and recovering heat.

To further improve indoor air quality and ensure maximum comfort during operation in “automatic cycle” mode, the following sensors can be activated:

 % relative humidity: measures the percentage of relative humidity in the room (TURQUOISE LED signal)

 air quality VOC: measures the PPM of Volatile Organic Compounds in the environment (GREEN LED signal)

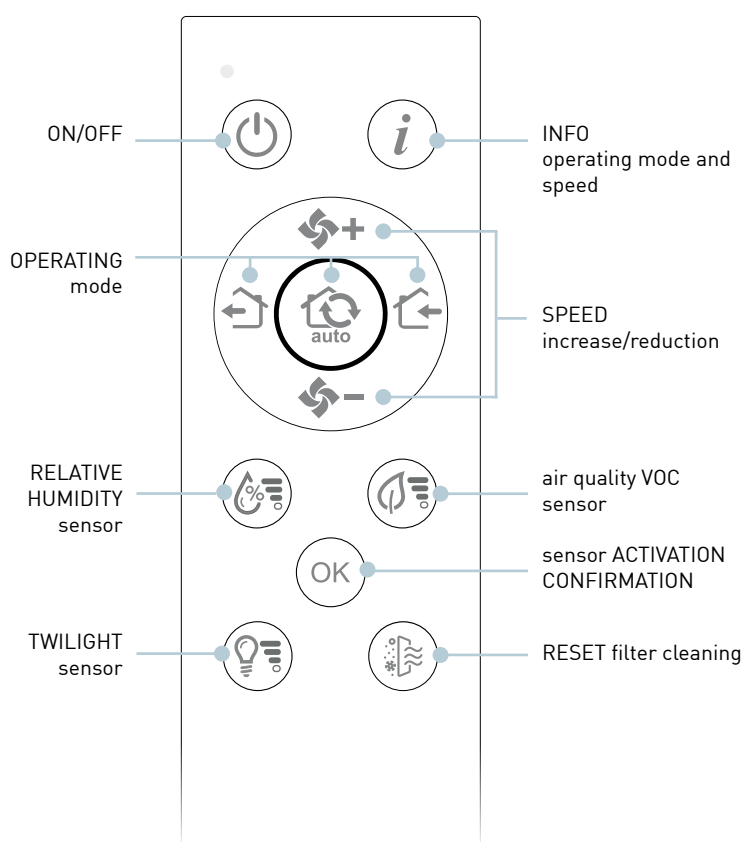
 twilight sensor: measures the light (LUMEN) in the room (YELLOW LED signal)

For each of these sensors, it is possible to select a tripping threshold, i.e. the level of humidity, air quality and/or brightness tolerated above which the device should intervene.

The sensors can only intervene during operation in “AUTOMATIC CYCLE” mode; if the minimum speed (night) is set, the sensors are temporarily disabled.

■ Setting the ventilation speed:

  high / medium / low / minimum (night) speed.



ACCESSORIES

REPLACEMENT FAN MOTOR UNIT

- Compatible with all ECOCOMFORT PLUS and ECOCOMFORT RF models.



CODE	MODEL	For use with:
AP6R6306151	PLUS 100 MOTOR FAN GROUP	for all ECOCOMFORT PLUS and ECOCOMFORT RF 100 models
AP6R6306152	PLUS 160 MOTOR FAN GROUP	for all ECOCOMFORT PLUS and ECOCOMFORT RF 160 models

SPARE IR REMOTE CONTROL

CODE	MODEL	For use with:
AP6R6306150	ECOCOMFORT PLUS REMOTE CONTROL	for all ECOCOMFORT PLUS models



ISO COARSE SPARE FILTER

CODE	MODEL	For use with:
AP19978	FR004	for all ECOCOMFORT models



RAINPROOF AND WINDPROOF GRILLE

CODE	MODEL	For use with:
AP1612	GAP150	for all ECOCOMFORT 160 models



PREPARATION KIT

CODE	MODEL	For use with:
AP19986	PREPARATION KIT	for all ECOCOMFORT 160 models

SOUND ABSORPTION SILENCER

CODE	MODEL	For use with:
AP19880	SLF 150	for all ECOCOMFORT 160 models