

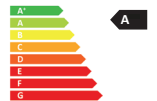
ECOCOMFORT 3

DECENTRALIZED HRV WITH HEAT RECOVERY

- Nominal diameter 160 mm
- Very high-efficiency regenerative ceramic heat exchanger, up to 90%
- Ultra-low consumption DC Brushless motor
- Alternating airflow with intake and extraction cycles optimized for constant air renewal
- Humidity, air-quality, twilight and temperature sensors for autonomous adjustment
- Full setup and control from the App via WiFi and Bluetooth with the dedicated app.
- Infrared remote control (optional - code AP6R6306150)
- Multifunction RGB LED



Optional infrared remote control (code AP6R6306150)



ECOCOMFORT 3 ensures constant **clean air renewal in indoor spaces**, with no need to open windows, **preventing humidity and mold formation**, improving air quality and living comfort without waste. Inside, the high-efficiency regenerative ceramic heat exchanger recovers heat from outgoing air to warm incoming air, **avoiding unnecessary heat loss** and energy waste.

ECOCOMFORT 3 is equipped with an ISO COARSE filter that retains impurities from outdoor air and **improves indoor air quality**, ensuring a healthy environment. The low-consumption DC brushless motor, controlled by a microprocessor, processes data detected by the temperature, humidity, air-quality (iAQ) and twilight sensors to **adjust ventilation fully automatically** and ensure the best indoor comfort.

Thanks to integrated multi-connectivity, ECOCOMFORT 3 interfaces with the app *IntelliClima+*, enabling complete setup and management of both ventilation functions and Fantini Cosmi smart programmable thermostats, creating a fully integrated smart-home system.

For even more immediate and simple control, the **infrared remote control** (optional) is available to manage the main operating modes, speed and sensor intervention thresholds of the ECOCOMFORT 3 unit (AP21020).

Designed for installation on perimeter walls, ECOCOMFORT 3 ensures optimal performance even in ducts up to 3 metres (or 2.5 metres with one bend).

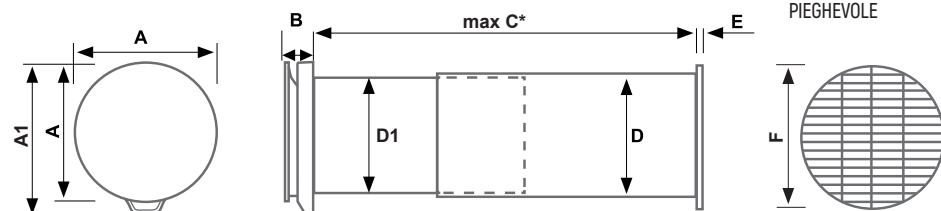
TECHNICAL SPECIFICATIONS

Code		AP21020	
Duct diameter (mm)		DN 160	
Power supply		110÷230 Vac ~ 50/60Hz	
Airflow (m ³ /h) with reference to standard UNI EN13141-8	Speed 1	30	
	Speed 2	50	
	Speed 3	75	
	Sleep speed (night)	15	
	Boost speed ^(*)	100	
Power input (W)	Speed 1	3	
	Speed 2	5	
	Speed 3	8	
	Sleep speed (night)	2,5	
	Boost speed ^(*)	20	
Noise level (dB(A))	Speed 1	20,5	15,0
	Speed 2	29,5	23,5
	Speed 3	37,0	31,5
	Sleep speed (night)	n.d.	n.d.
	Boost speed ^(*)	45,8	40,5
Operating temperature		-20°C ÷ +50°C	
Filter classification		ISO COARSE	
IP		X4	
Heat recovery efficiency		Up to 90%	

^(*) Speed cannot be selected manually

DIMENSIONS (mm)

UNIT VENTILANTE WITH HEAT RECOVERY UNIT



MODEL	A	A1	B	C	D1	D	E	F
ECOCOMFORT 3	230	250	55	280 ÷ 530	154 (external Ø)	160 (external Ø)	20	190
					150 (internal Ø)	156 (internal Ø)		

* for wall thicknesses between 230 mm and 280 mm, cut the duct and use a standard external grille (not supplied).

FEATURES:

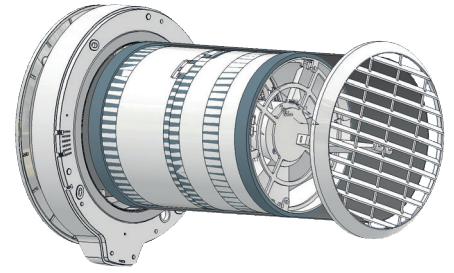
- Power supply 230V~ 50Hz;
- Plastics made of anti-UV, antistatic ABS;
- Operating temperature -20°C ÷ 50°C;
- Compact size and easy installation;
- Impact-resistant PVC telescopic duct;
- Folding external grille for installation from inside or outside;
- Panel for acoustic, thermal and anti-condensation insulation.
- IPX4 protection rating;

THE AP21020 PACKAGE INCLUDES:

- Indoor unit with magnetic front cover;
- Ventilation cartridge with heat recovery unit;
- Telescopic duct;
- External grille;
- Instruction manual

VENTILATION CARTRIDGE

- Helical extractor/fan and DC brushless motor;
- Regenerative ceramic exchanger with efficiency up to 90%;
- ISO Coarse filtration-class filter according to UNI EN ISO 16890:2017;
- Humidity sensor;
- Twilight sensor;
- Air-flow temperature sensor;
- Indoor air-quality sensor eCO₂;



CONNECTIVITY

- Transceiver frequency: 2.4 GHz WIFI;
- Bluetooth Low Energy 5.0;
- Remote FW update via APP.

ACCESSORIES AND SPARE PARTS:

- IR remote control (code AP6R6306150);
- ISO Coarse filters according to UNI EN ISO 16890:2017 (AP1984);
- Panel for acoustic, thermal and anti-condensation insulation (AP1985);
- Wind- and rain-proof grille (code AP1613);
- External noise-reduction kit (code AP19881).

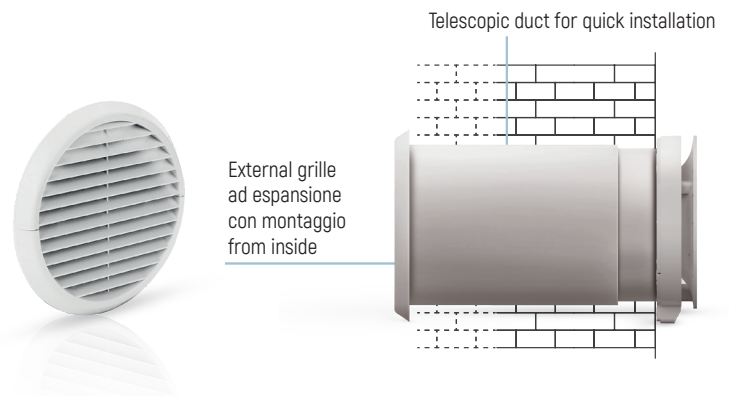
ECOCOMFORT 3 can be configured to operate as either a main unit or an additional unit. For an additional unit, the rotation direction is set as matching or opposite to the main unit. All units communicate with one another via Bluetooth Low Energy protocol and are managed through the *Intellliclima+* app. The units can be installed in large rooms or different rooms (maximum signal range approx. 8-10 m in open space).

INSTALLATION

The ventilation unit ECOCOMFORT 3 must be installed on perimeter walls.

Thanks to the telescopic duct, it adapts easily to all wall thicknesses from a minimum of 23 cm (*) to a maximum of 53 cm. Installation is also extremely quick and easy thanks to the expanding external grille, which can also be fitted from inside.

(*) When installing kit AP19881, allow for a minimum wall thickness of 43 cm.

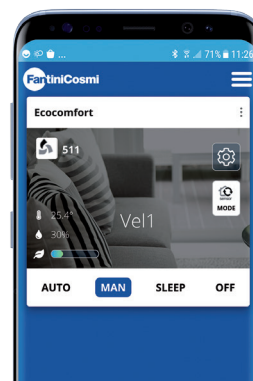


REMOTE CONTROL VIA APP

ECOCOMFORT 3 can be configured and managed from a smartphone via the APP *Intellliclima+*.

The multi-connectivity system allows the ventilation unit to be controlled locally via Bluetooth or remotely via WiFi.

■ EXAMPLE



The APP *Intellliclima+* is available free of charge on:



INFRARED REMOTE CONTROL (OPTIONAL)

The remote control (code AP6R6306150, sold separately) enables immediate control of the ECOCOMFORT 3 unit.

The functions available from the remote control are fewer than in the App *Intelliclimate+*, but still allow control of the main operating modes, speed and sensors.

- Simple, functional 12-key keypad;
- Infrared technology for even faster communication with the device;
- Functional feedback via signal LED in the lower part of the front casing;
- Compatible with all devices in the ECOCOMFORT PLUS series;
- Power supply: 2 AAA batteries (not supplied);
- Protection rating: IP40;
- Battery life: > 24 months.







OPERATION

■ Mode setting MANUAL:

in this mode, you can choose the operating-speed setting:

- V3 - high speed
- V2 - medium speed
- V1 - low speed
- SLEEP - minimum speed (night)

and the operating-cycle setting:

-  air intake (temporary 60 min. mode)
-  air extraction (temporary 60 min. mode)
-  alternating intake/extraction flow with 45 sec. cycles - *(selectable only from App)*
-  supplies/extracts air from the room, recovering heat and automatically optimizing cycle intervals, with operation based on the thresholds set on the sensors eCO₂, humidity and twilight sensors, and the temperature detected.

■ Setting mode AUTO (TIME SCHEDULE) - *(selectable only from App)*

The unit follows a daily schedule with half-hour steps, setting speed parameters (VEL 1 - VEL 2 - VEL 3 - SLEEP**) and OFF. Air intake/extraction from the room and heat recovery are optimized according to automatic cycle intervals.

In this operating mode, the SENS function is always active: the unit supplies/extracts air from the room, recovering heat and automatically optimizing speed and cycle intervals, with operation based on the thresholds set on the sensors.

ADVANCED FUNCTIONS

ECOCOMFORT 3 is a ventilation and extraction unit with smart functions, designed to offer an advanced approach to comfort management that **improves air quality and prevents mold and humidity**.

Advanced connectivity with the app **Intelliclimate+** integrates ECOCOMFORT 3 into a complete smart home, allowing simple, intuitive synchronized management of ventilation, heating and cooling systems.

In addition, the presence of **on-board sensors** enables automated management of ECOCOMFORT 3, reducing the building's primary energy demand and improving indoor comfort, with real-time data available through the app's intuitive infographics **Intelliclimate+**, where you can view:

- Indoor temperature
- Room humidity
- Air quality
- Consumption trend

For truly complete comfort, during the summer months the **FREE-COOLING function** activates automatically when the outdoor temperature is lower than the indoor temperature, helping improve thermal comfort without waste.



GEOLOCATION



AUTO SMART SENSOR



SUMMER FREE COOLING



REMOTE CONTROL VIA APP



BUILT-IN WIFI



RED DA
COMPLIANT

ACCESSORIES

IR REMOTE CONTROL

CODE	MODEL	for application on:
AP6R6306150	REMOTE CONTROL	all ECOCOMFORT PLUS models and ECOCOMFORT 3 AP21020



ISO COARSE FILTER

CODICE	MODELLO
AP1984	FR007



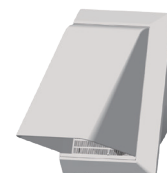
INSULATING PANEL

CODICE	MODELLO
AP1985	FR008



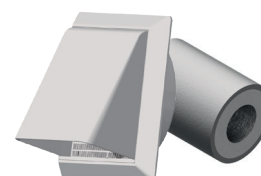
RAIN- AND WIND-PROOF GRILLE

CODICE	MODELLO
AP1613	GE150



EXTERNAL NOISE-REDUCTION KIT

CODICE	MODELLO
AP19881	SLF160



STANDARDS AND APPROVALS

- Compliant with Directive 2014/53/EU (RED);
- Compliant with Directive 2009/125/EC Energy Related Products (ERP) - Ecodesign 2018;
- Compliant with standards: EN 60335-1:2013+A11:2015; EN 60335-2-80:2005+ A2:2009; EN 55014-1:2006+A1:2009+A2:2011; EN55014-2:2015; EN61000-3-2:2014; EN61000-3-3:2013 EN301 489-1 V.1.9.2; EN301 489-7 V.1.3.1 ETSI EN300 220-1 V2.4.1; ETSI EN300 220-2 V2.4.1 UNI EN ISO 10140-2 - UNI EN ISO 717-1



SPECIFICATION TEXT

Decentralized HRV unit with high-efficiency ceramic heat recovery, smart functions and artificial intelligence. WiFi and Bluetooth Low Energy 5.0 multi-connectivity system for device setup and management through the Fantini Cosmi Intelliclima+ APP. Equipped with room-temperature, relative-humidity, twilight and air-quality (iAQ) sensors for intelligent control and management of indoor comfort. Multifunction key with multicolour LED; automatic, manual, smart sensor and off operating modes. Smart geolocation, auto sensor and free-cooling functions to minimize consumption while increasing thermo-hygrometric wellbeing; report display of parameters read by the sensors. Remote management via APP.

Installation on perimeter walls with max. thickness 53 cm. Telescopic duct for 28-53 cm walls; ceramic heat recovery unit with efficiency up to 90%. Ultra-low consumption DC brushless motor; 4 operating speeds (Min, Med, Max) + Sleep. Airflow (30mc/h, 50mc/h, 75mc/h) + 15mc/h. Power input (3W, 5W, 8W 2.5W). Sound pressure @ 1.5m (20.5 dB(A), 29.5 dB(A), 37 dB(A)). Sound pressure @ 3m (15 dB(A), 23.5 dB(A), 31.5 dB(A)) Power supply 230Vac. IPX4 protection rating. ISO Coarse melamine filter according to UNI EN ISO 16890:2017; expanding external grille for installation from inside; rain- and wind-proof external grille (accessory); external noise-reduction kit (accessory). Class A according to Regulation (EU) No. 1254/2014. Compliant with Directive 2014/53/EU (RED) and Directive 2009/125/EC Energy Related Products (ERP) - Ecodesign 2018; EN 60335-1:2013+A11:2015; EN 60335-2-80:2005+ A2:2009; EN61000-3-2:2018/A1:2020; EN61000-3-3:2013; EN18031-1:2025 EN301 489-1 V.2.2.3; EN301 489-17 V.3.2.4; ETSI EN300 328 V2.2.2;