

Model	A	B	ØC	D	E	F	G	H	I	L	M
TEMPERO ECO IL 250 E BP SLIM	1111	79	125	560	154	134	251	86	180	39	460



# TEMPERO ECO IL 250 E BP SLIM

## CENTRALIZED HEAT RECOVERY UNIT

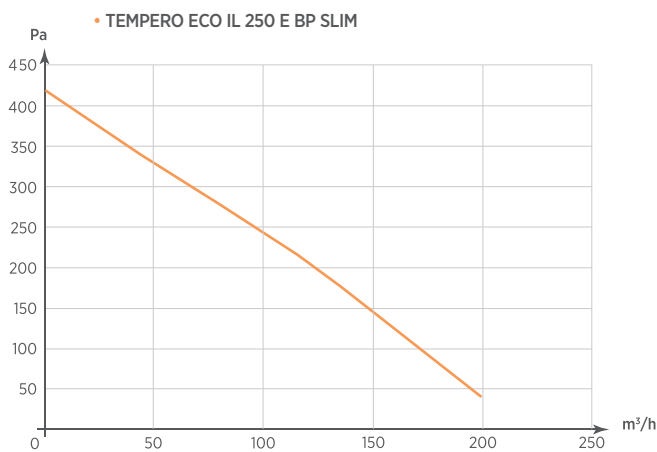
- Slim Heat Recovery Unit for IN-LINE installation;
- Polypropylene, counter flow heat exchanger with >90% efficiency;
- EC centrifugal fan with backward blades;
- Low pressure drop F7 filters, for both extraction and fresh air;
- Pre-painted sheet self-supporting structure. 10 mm-thick polyethylene foam thermal/sound insulation;
- Drip tray to condensate drainage;

- Suitable for installation in horizontal position;
- Equipped with free-cooling and free-heating built-in BY PASS;
- Adjustable speed through remote controller (included);
- In Compliance with ERP 2018 Directive;
- Built-in antifreeze protection;
- Operating conditions: ambient temperature 0°C +45°C, humidity <80%.

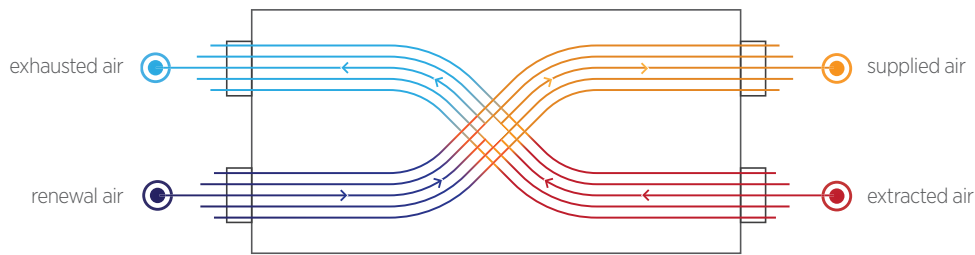
## TECHNICAL DATA

Model	Code	Ø tubes (mm)	Voltage (Volt)	Frequency (Hz)	Flow rate (m³/h)	Useful capacity utile (mm H₂O)	Useful capacity utile (Pa)	Power (W)	Nom. Curr. (A)	Noisiness dB(A) <sub>5m</sub>	Weight (Kg)
TEMPERO ECO IL 250 E BP SLIM	0068822	125	230	50-60	172	10,2	50	100	0,8	35	20

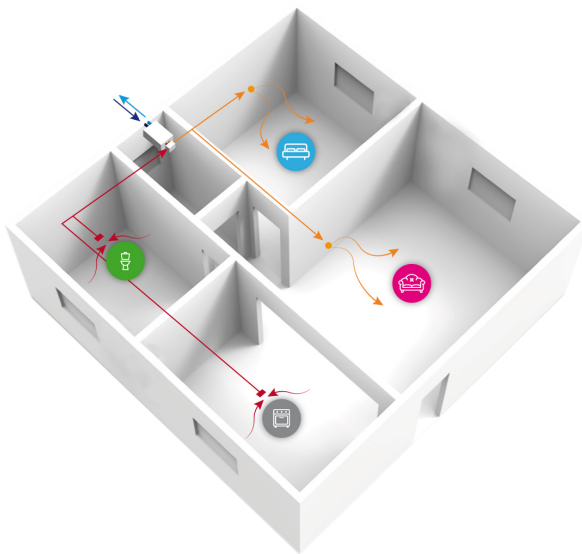
## FLOW CHARTS



## FLOW SCHEME



## INSTALLATION EXAMPLE



The “foul” air is extracted from the so-called “technical” premises of the house (bathroom, kitchen...) and through suitable ducts connected to the plenum reaches the TEMPERO ECO IL 250 E BP SLIM recovery unit where the heat exchange occurs by mixing with the fresh air before being exhausted. The fresh air, in fact, is introduced from the outside directly from Tempero where it is filtered, it crosses the heat exchanger and, after reaching the Plenum, it is directed towards the “noble” premises (living room, bedrooms...).

## IN EVIDENCE

### COMPACT SIZES (SLIM VERSION)

TEMPERO ECO IL 250 E BP SLIM can be easily installed in false ceiling as the less invasive choice due to reduced dimensions.

### 90% MAXIMUM EFFICIENCY

TEMPERO ECO IL 250 E BP SLIM, allows to achieve a high degree of efficiency in terms of energy recovery, thanks to a counter flow heat exchanger: when outside temperature is  $-2^{\circ}\text{C}$  and internal temperature is  $21^{\circ}\text{C}$ , the air blown into the room will be around  $19^{\circ}\text{C}$ .

### E BP (BY-PASS) VERSION

When recovering the heat of the extracted air is not convenient, for example in summer, the By-Pass allows to use TEMPERO ECO IL 250 E BP SLIM thus avoiding the extracted air to cross the heat exchanger.

### ELECTRONIC COMMUTATED BRUSHLESS MOTORS (EC)

The Electronically Commutated Brushless technology allows the two engines of TEMPERO ECO IL 250 E BP SLIM to reach a high energy saving and long life, granted by ball bearing motor.

### FILTERS WITH A HIGH DEGREE OF FILTRATION

Both the fresh and the extracted air are filtered through low pressure drop F7 filters. (F7 optional on fresh air. This filter grants to keep the environment protected from air impurities).

### EVERYTHING UNDER CONTROL

Dedicated remote controller (RG IL SLIM), supplied with the unit, with three different speeds to be selected via Keypad membrane: 50, 75 and 100%. Possible to change the speed calibration by running through the trimmers on the board. The practical operating light (LED) is a fast and useful indication for active speed, BY PASS, filter maintenance (Filter clogging alarm function with operating hours counting).

Automatic check of BY PASS with free-cooling function (set point set at  $24^{\circ}\text{C}$ ).

Integrated antifreeze protection with reduction of inlet fan speed and optional antifreeze heater.

Temperature probes alarm and possibility to control speed through additional external device.

More information on Control Panels can be found in the “remote controllers” section on page 48.