



ENY-SHP 130

CONTROLLED MECHANICAL VENTILATION SYSTEM WITH HEAT RECOVERY UNIT





ENY-SHP 130

ENY-SHP 130 is the new Sabiana unit added to the range of high-efficiency residential ventilation units with Energy Smart heat recovery unit.

ENY-SHP 130 stands out for its **compact size**: only 19 cm high, making it easy to install both horizontally on a false ceiling or wall-mounted vertically.

The outer structure is made with galvanised sheet metal panels, and the inspection cover is painted in RAL 9003. The internal structure is in high density expanded polystyrene.

The unit exchanges the exhaust air of indoor environments with filtered air coming from the outside thanks to a special high efficiency **F7** class filter that, in compliance with ISO 16890, filters 70% of PM1. The unit is also provided with an **M5** filter which filters 50% of PM10. It is installed in the extraction section to avoid dust infiltrations in the ventilation unit. The **frontal extraction of the filters** makes even ceiling-mounted units easily accessible and simple to service.

It is equipped with high-efficiency centrifugal fans with EC brushless motor and forward-curved blades **with constant flow control** and **extremely low electrical output**. The type of fans and the design of the structure make the unit **extremely quiet, only 36.8 dB(A) of irradiated sound power**.

The **plastic counterflow heat recovery unit with low pressure drops** prevents heat dispersions caused by incoming cold outdoor air, recovering 88% of the extraction heat and sending it to the filtered and clean air coming from outside, **with considerable energy savings**.

The ABS condensate drip tray guarantees low pressure drops and is designed for the correct drainage of condensate regardless of the installation method: ceiling or wall.



The easy-to-use **built-in control panel** performs the calibration and activation of the unit. If it is necessary to use a wall-mounted remote control, the T-EP control panel, supplied as an accessory, can be connected to the unit. T-EP also allows for the use of advanced functions such as: Party, Holiday and management of weekly programs.

The unit can be monitored and controlled by a supervision system according to the following protocols:

- **Modbus**, via direct connection to the dedicated RS485 port
- **Konnex**, by using the KNX expansion board

Furthermore, **ENY-SHP 130** can be connected to the web by means of the Sabianet transponder, with the advantage of controlling the unit from a **smartphone, tablet or PC** using the **app Web Sabiana Cloud**. The transponder must be connected to the unit via the slave RS485 port.

ENY-SHP 130 is equipped with an **automatic centralised air flow control system** operated by an **integrated humidity sensor**, supplied as standard and located in the extracted air duct.

The unit is fitted with an integrated antifreeze logic which trips when the intake temperature drops below -5°C , preventing ice from forming on the heat exchanger. Nonetheless, if the unit is installed in a place with a cold climate, we recommend using an external antifreeze coil.

The **ENY-SHP130** circuit board's antifreeze preheating function allows it to manage a modulating electric resistance or alternatively a hot water pretreatment coil with on-off valve provided with relay in the solid state, fitted on the outside of the unit on the fresh air connection duct.

The ENY-SHP130 circuit board is also supplied with potential-free contacts: **two potential-free inlet contacts, one outlet contact and one digital output**. Each potential-free contact can be configured according to the two different operating modes: on/off from remote or booster for the first input; fireplace or boiler function for

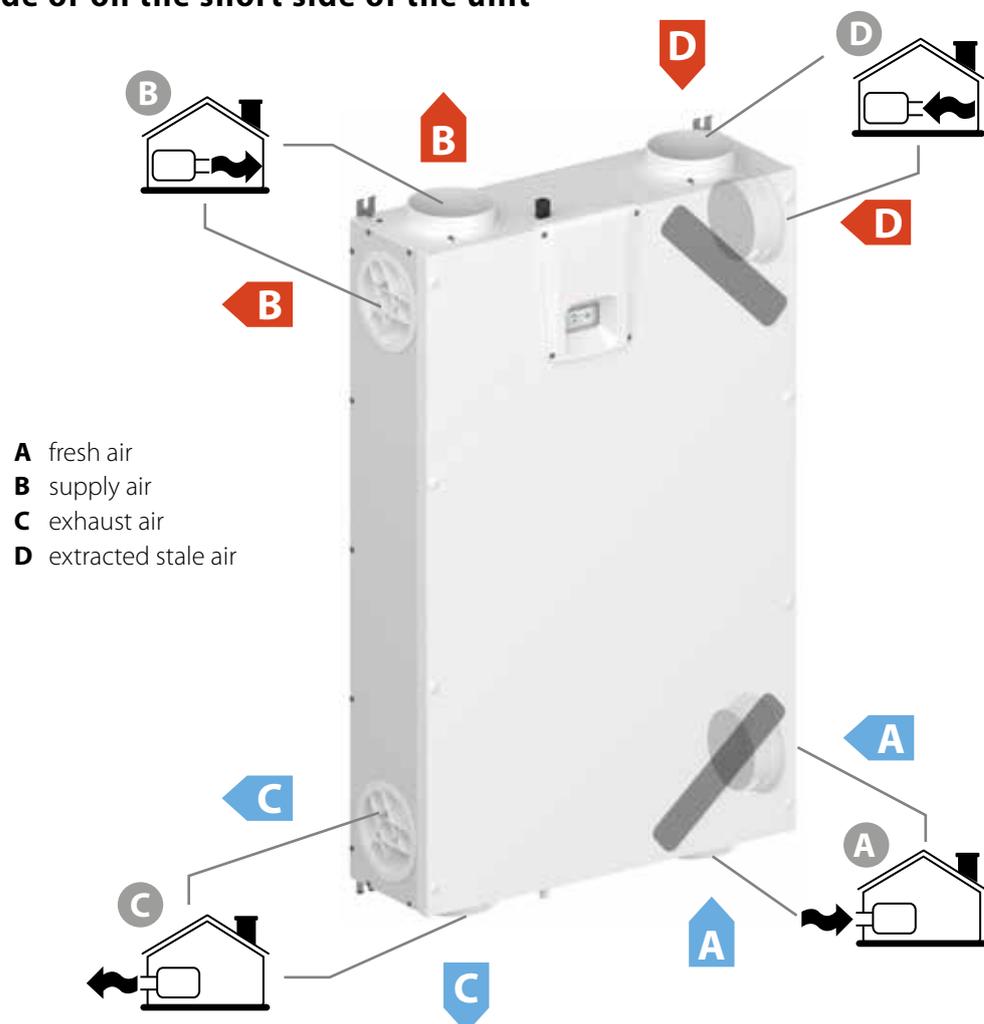
ENY-SHP 130

the second input; the alarm status warning or the consent signal to switch on external units for the digital output.

Available accessories for ENY-SHP130:

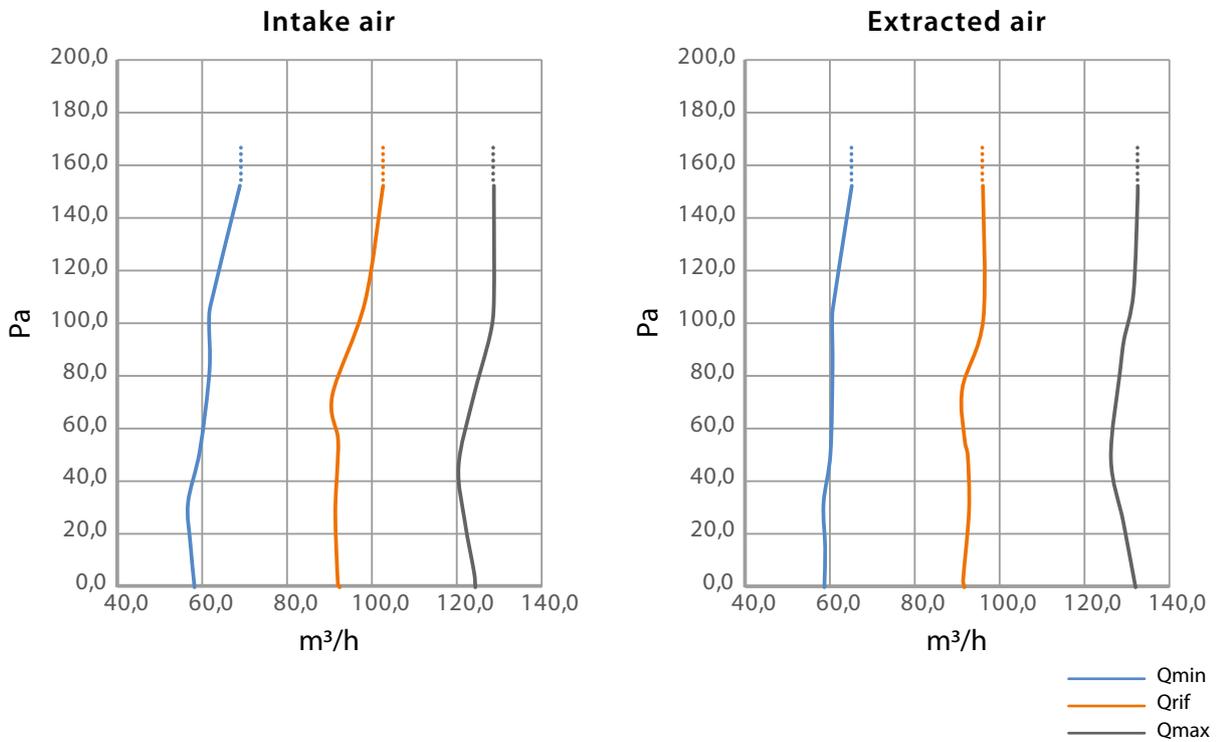
- T-EP wall-mounted control panel
- Antifreeze electric resistance, 500W
- KNX expansion board

Position of reversible air connections: laterally on the long side or on the short side of the unit

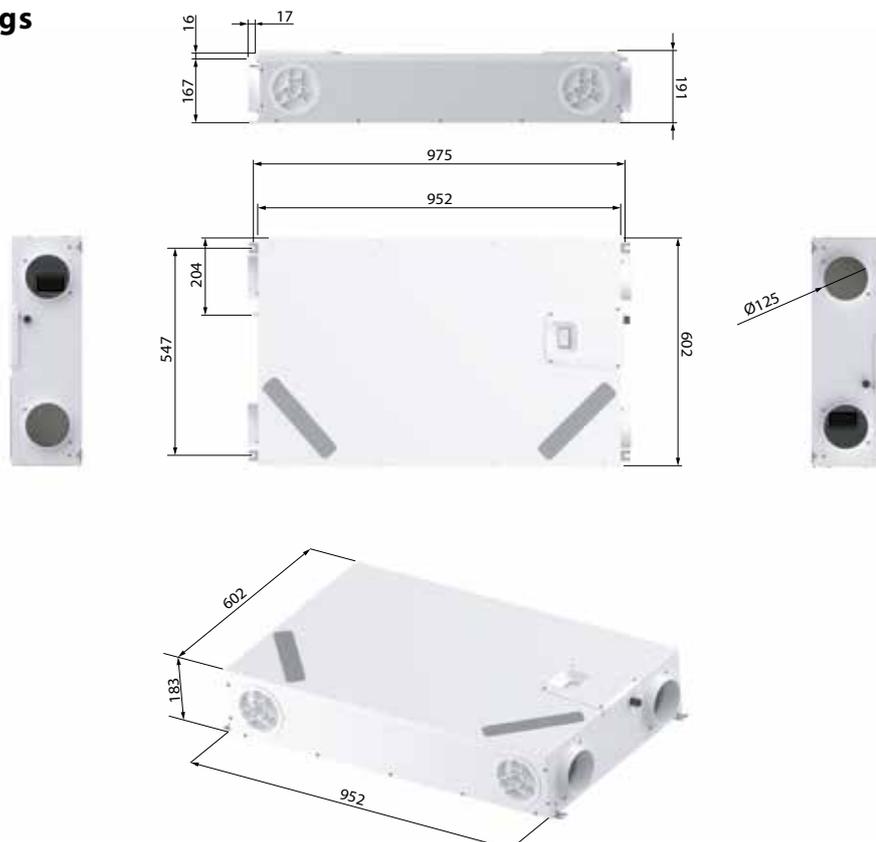




Efficiency curves (according to EN 13141-7)



Dimensional drawings



ENY-SHP 130

Technical data

Performance tests in accordance with EN 13141-7 (2011) carried out at TÜV laboratories

| Model | | ENY-SHP 130 |
|--|------------------------|--|
| Q_{max} | [m ³ /h] | 130 |
| Q_{rif} | [m ³ /h] | 90 |
| Q_{min} | | 60 |
| Available static pressure at maximum flow rate | [Pa] | 100 |
| Available static pressure at reference flow rate | [Pa] | 50 |
| Maximum available static pressure | [Pa] | 150 |
| P_{el} | [W] | 46.6 |
| η_{t_rvu} | [%] | 88% |
| SPI | [W/m ³ /h] | 0.235 |
| CRTL | - | 0,85 |
| SEC ⁽¹⁾ | [kWh/m ² a] | -40 |
| Energy class | | A |
| Filtering efficiency (ISO 16890) | | ePM1 70% supply - ePM10 50% extraction |
| L_{WA} | [dBa] | 36,8 |
| LK_I | [%] | 2.1 |
| LK_E | [%] | 1.0 |
| AEC ⁽¹⁾ | [kWh/a] | 258 |
| AHS ⁽¹⁾ | [kWh/a] | 4576 |
| Dimensions (HxLxP) | [mm] | 191x602x952 |
| Duct connection | | DN125 |
| Weight (without packaging) | [kg] | 23 |
| Power supply | [V/1ph/Hz] | 230/1/50 |
| Maximum power output | [W] | 59 |
| Maximum absorbed current | [A] | 0.51 |
| Consumption in standby | [W] | <1 |
| Protection rating | - | IP21 |

⁽¹⁾ Value referring to moderate climate conditions

LEGEND | all terms must be considered in compliance with EU standard 1253/2014

Q_{max} Maximum flow rate, at max motor speed and external static pressure of 100 Pa

Q_{rif} Reference flow rate - 70% of Q_{max}

P_{el} Intake power at Q_{rif} and external static pressure of 50Pa

η_{t_rvu} Thermal efficiency at Q_{rif}

SPI Specific inlet power

CRTL Control factor

SEC Specific energy consumption

L_{WA} Sound power level emitted by structure

LK_I Internal drop at 100 Pa compared to Q_{rif}

LKE External drop at 250 Pa compared to Q_{rif}

AEC Annual power consumption

AHS Annual heating consumption

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