

CENTRAL HRV UNITS

Sentinel Kinetic Advance

Sentinel Kinetic Advance S, S ENT and SX Central HRV Units are HRV units of a new generation that permit respecting individual operation of the building and the lifestyle of the user. They are designed for continuous ventilation of family homes of living area up to 300 sqm, bringing maximum comfort for the user and an easy installation. The most advanced materials are used for the production.

Advance HRV Units are equipped with an integrated digital controller with a touchscreen, automatic bypass, humidity sensor, a condensate discharge point, enabling also WiFi connectivity. For the most comfortable ventilation, also carbon dioxide sensors, humidistats, PIR sensor and similar can be added.

The inner room of the units is fitted with high quality thermal insulation which permits the units to be installed also in unheated spaces (e.g. an attic) without suffering from energy losses.

The unit can be controlled via the integrated backlit touchscreen, via WiFi connection or through a master controller. The touchscreen can be fitted directly on the unit, or connected via a docking station. The WiFi connection enables the user immediate access to the unit, its commissioning, configuring and monitoring of the ventilation mode. Then the unit can be controlled and its settings modified using a smartphone or tablet. Two G3 filters are integrated in Kinetic Advance units for the sake of a healthy climate inside the building. When even a better filtration is needed, F5 filters can be added downstream from the G3 filters that will secure clean air even in locations with polluted air.

Due to the high efficiency of the unit, the heat exchanger could suffer from ice formation under extreme frost. For this reason the unit is equipped with an automatic defrost function. A frozen heat exchanger can be also prevented by installing an air duct heater in the intake air duct – see the chapter Air duct heaters. A cooler outdoor air can be used to help cool the building via the integrated summer bypass.

PERFORMANCE MODES

5 preset performance modes are available in the unit. It is possible to program a different ventilation intensities for different day periods and for separate days of a week, purge intervals and silent hours for night operation. Maintaining optimum relative humidity inside the building is ensured by automatic proportional air flow increase based on the measurements from an integrated humidity sensor. The integrated timer function in the unit will also ensure sufficient room ventilation with the possibility of relative humidity boost.



TECHNICAL DATA

PERFORMANCE DATA

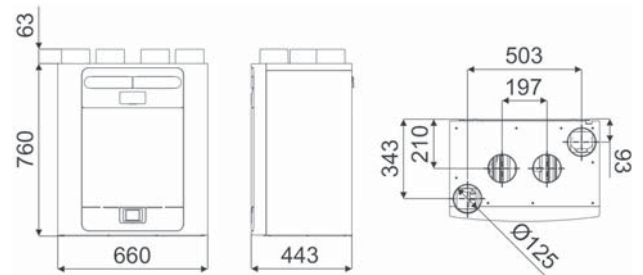
Max. air flow rate *	414 m ³ /h
Heat recovery efficiency	max. 93%
Energy Efficiency Class	A+

*flow rates for specific installations shall be modified by performance diagrams

ACOUSTIC DATA

Sound level (at 3m distance)	15,5 dB(A) for low air flow 34 dB(A) for high air flow
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DIMENSIONS



MODELS

Sentinel Kinetic Advance S
Code: 16487

Sentinel Kinetic Advance S ENT
Code: 17601

Sentinel Kinetic Advance SX
Code: 16488



Compared to the S type, the S ENT unit is equipped with an enthalpy heat exchanger that recovers not only heat but also humidity.



Compared to the S type, the SX unit is equipped with a WiFi module and offers constant volume flow control.