ORKA HR

ORKA HR D150

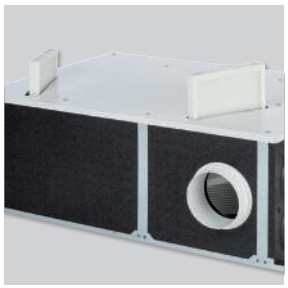
Whole house heat recovery unit for single dwelling houses, with crossflow heat exchanger. It guarantees continuous air replacement in single dwelling houses up to 90% of efficiency.
Equipped with 2 centrifugal fans (a supply and an extract fan), each with a 230V-50Hz motor, Class B, 3-speed, designed for continuous operation, and terminal housing to connect the power supply cable.
100% manual bypass.
Equipped with filter change alarm.
Multi-position system. It can be mounted on the floor and into the false ceiling.
To ensure good air quality, is equipped with a M5 filters: (ISO ePM10 50%, a 210 m^3/h) on the inlet side and a G4 (ISO coarse 65%, a 210 m^3/h) on the extraction side.
In case of low outside temperatures it is necessary to install a pre-heating coil.

Specific applications

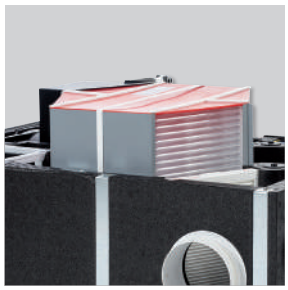
Single dwellings

Multi dwelling blocks

Heat recovery unit



Easy maintenance
PPE body that provides thermal insulation and lightness.



High efficient counter flow heat exchanger
Manufactures from polypropylene plates.

Double drain for floor or false ceiling installation.

Integrated rubber seals
Circular connection flange with integrated rubber seals.

Incorporated remote control
with double-switch:
- by-pass activation
- speed change

Timer
Dirty filter alarm, by electronic removable time-switch.

ORKA ST

ORKA ST D150

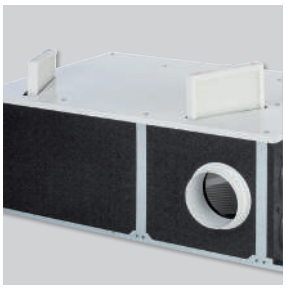
Double airflow VMC system for single dwelling houses, with crossflow heat exchanger. It guarantees continuous air replacement in single dwelling houses up to 70% of efficiency.
Equipped with 2 centrifugal fans (a supply and an extract fan), each with a 230V-50Hz motor, Class B, 3-speed, designed for continuous operation, and terminal housing to connect the power supply cable.
100% manual bypass.
Equipped with filter change alarm.
Multi-position system. It can be mounted on the floor and into the false ceiling.
To ensure good air quality, is equipped with a M5 filters: (ISO ePM10 50%, a 210 m^3/h) on the inlet side and a G4 (ISO coarse 65%, a 210 m^3/h) on the extraction side.
In case of low outside temperatures it is necessary to install a pre-heating coil.

Specific applications

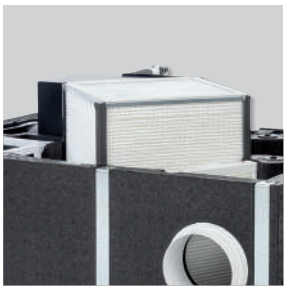
Single dwellings

Multi dwelling blocks

Heat recovery unit



Easy maintenance
PPE body that provides thermal insulation and lightness.



High efficient counter flow heat exchanger
Manufactures from polypropylene plates.

Double drain for floor or false ceiling installation.

Integrated rubber seals
Circular connection flange with integrated rubber seals.

Incorporated remote control with double-switch:
- by-pass activation
- speed change

Timer
Dirty filter alarm, by electronic removable time-switch.

REFERENCE

O	R	K	A	S	T	D	1	5	0
1				2		3			

1 - ORKA: Serie.
2 - ST: Cross flow heat exchanger.
HR: Counter flow heat exchanger.
3 - D150: 150 mm connection diameter.

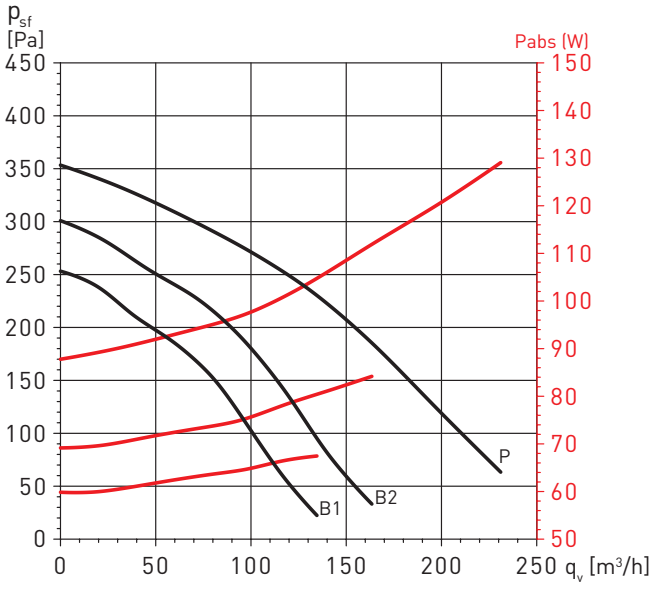
TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Voltage (V)	Power absorbed at free discharge (Maximum) (W)	Flow reference performance*	Sound pressure level (dB(A))	Configuration	Weight (kg)
ORKA HR	230	145	85	52	4 inlet spigots 80 mm 1 inlet spigots 125 mm	20
ORKA HR D150	230	145	85	52	1 inlet spigots 150 mm 1 inlet spigots 125 mm	20
ORKA ST	230	145	66	52	4 inlet spigots 80 mm 1 inlet spigots 125 mm	20
ORKA ST D150	230	145	66	52	1 inlet spigots 150 mm 1 inlet spigots 125 mm	20

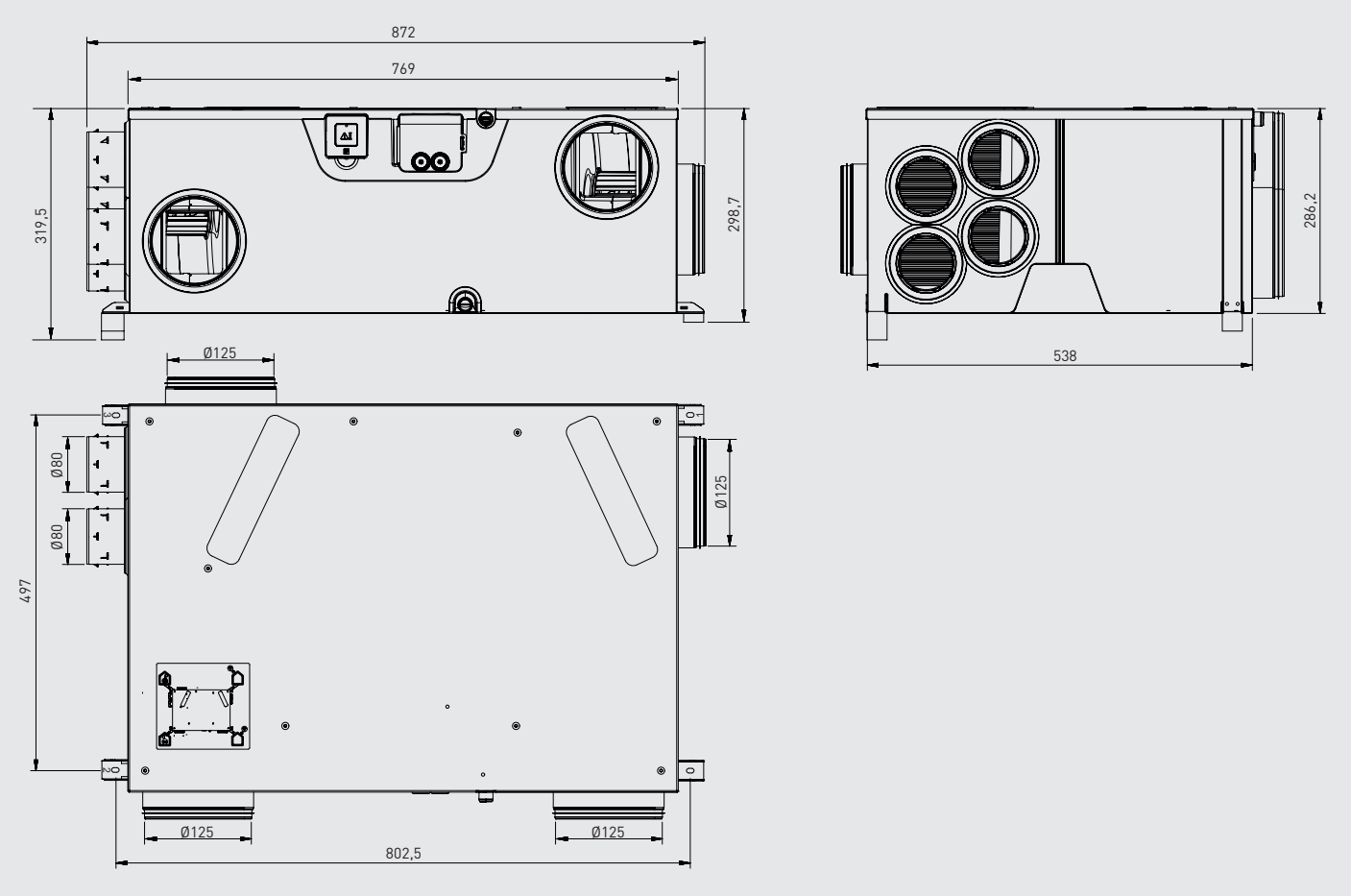
* Outdoor temperature: 5ºC. Outdoor relative humidity: no significant . Indoor temperature: 25ºC. Indoor relative humidity: 30%.

PERFORMANCE CURVES

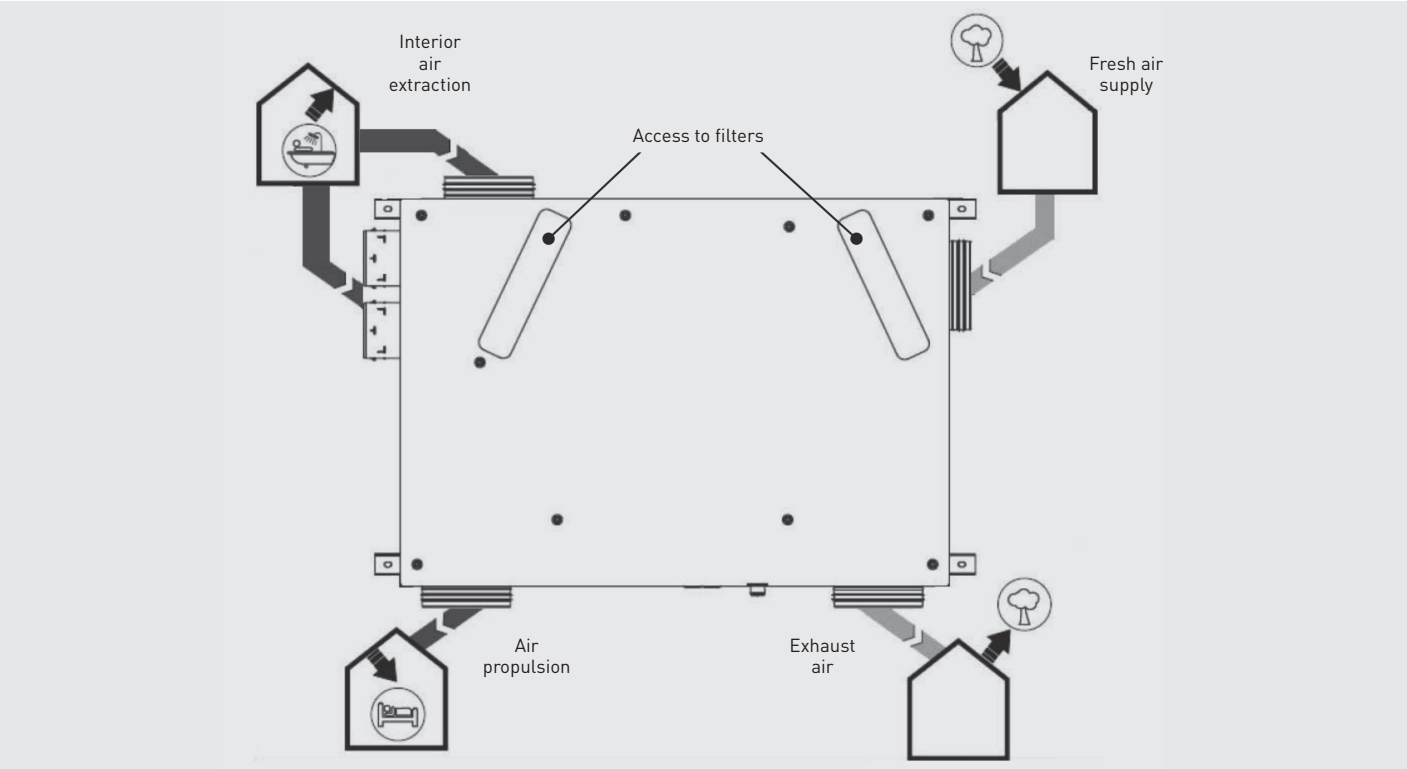


B1 and B2 Curves: Base speed, configurable.
P Curve: Top speed.

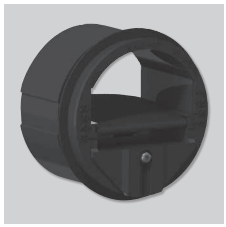
DIMENSIONS (mm)



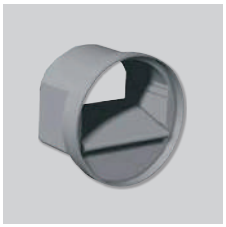
OPERATING DIAGRAM



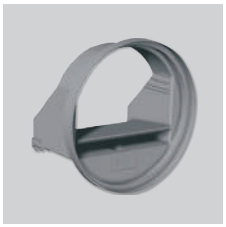
ACCESSORIES



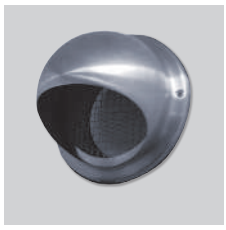
RDR
Self-adjusting damper (50-250 Pa) that, fitted inside the duct, maintains constant airflow.



RD BP
Air volume regulators. Maintain constant air volume within a pressure range from 20 to 200 PA. Fitted inside a duct.
Diameter: 80mm.
Air volume: 15 or 30 m^3/h.

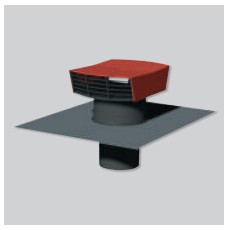


RD BP SM
Specific low-pressure (20-100 Pa) and self-adjusting damper without sleeve to fit directly into the sleeve of the BDOP.
80 mm diameter.
Airflow: 15 or 30 m^3/h.



PAQS
External wall air discharge that includes an anti insect grill.

BOA/BOAC
Inlet valves
BOA 80/125.
BOAC 80/125.

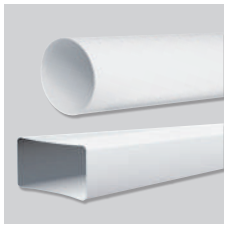


CT
Roof cowl.

FLEXIREC
Oblong semi-flexible duct.

FLEXICIR
Circular semi-flexible ducts.

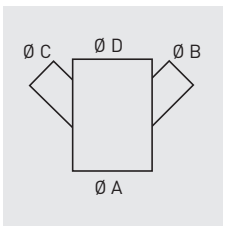
BDOP
Supply and extraction valve.



TUBPLA
Rectangular and circular ducts.

TUBPLA
ESTANCO – V SERIES
Rectangular and circular duct range. Equipped with a EPDM joint that gives an excellent tightness to the set.

DERIV
Plastic sections for the connection/ adaptation of different duct diameters.



Model	Ø A (mm)	Ø B (mm)	Ø C (mm)	Ø D (mm)
DERIV 80-80 P	80	80	80	
DERIV 125-60-60-125 P	125	60	60	125
DERIV 125-60-60-125 P	125	60	60	60
DERIV 150-125-125 P	150	125	125	
DERIV 150-60-60-125 P	150	60	60	125

KIT G4/G4 ORKA
KIT M5/G4 ORKA
Replacement filter set G4/G4 and M5/G4.