



Whole house heat recovery unit with a high-efficiency heat exchanger up to 92% with constant airflow setting, very low consumption EC motor and low sound level.

Provides a constant supply of fresh tempered air into the living spaces of a house whilst extracting condensation, smells and smoke from kitchens, bathrooms and toilets.

The central unit is completed with extraction valves located in different rooms (kitchen, toilets, bathroom) and supply valves located in the main rooms (dining room, bedrooms).

Features

- 2 constant airflow fans
- Counter-flow heat exchanger with up to 92% performance
- Wireless remote controller
- Wireless kitchen boost
- F5 inlet filter with G4 pre-filter
- G4 extraction filter
- 100% bypass
- 4 nozzles, Ø 150/160 mm
- 1 drain for vertical fitting
- 1 antenna with potential transmission/reception range of 150 metres in an open space
- 1 wall bracket
- Air tight construction



Specific applications



Multi dwelling blocks



Single dwellings



Heat recovery unit



Alternative fitting

HORIZONTAL: On the floor.
 Fitted lying down.

VERTICAL: On the wall or floor.



Easy access to filters.



High-efficiency heat exchanger up to 92%.



Easy maintenance
 Easy to access: fans, heat exchanger and by-pass.



Hydraulic strut for opening.



External antenna.

WIRELESS KITCHEN BOOST

Each IDEO² includes a removable kitchen boost.



The kitchen boost is a radio frequency remote controller providing maximum airflow for 1/2 hour.

PROGRAMMABLE CONTROLLER

Each IDEO² includes a programmable controller.

Integrated in IDEO²-HE



On the wall



Resting on a surface



The programmable controller is a remote controller operated by radiofrequency. Functions:

- 3 programming modes: 2 predefined and 1 manual.
- 100% automatic or manual bypass.
- Automatic defrost mode.
- Absence mode.

The programmable controller also displays:

- Hour.
- Indoor / outdoor temperature.
- Change filters.
- Energy saving in KW per month.
- Ventilation speed.
- Battery level.
- Radiofrequency signal intensity.



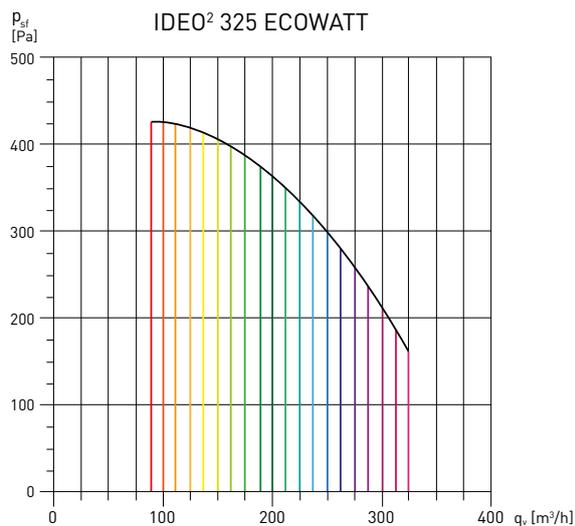
TECHNICAL CHARACTERISTICS

Model	Voltage (V)	Airflow (m ³ /h)		Power (W)		Current (A)		Sound pressure at 3m (dB(A))		Efficiency		Weight (kg)	Wiring diagram** (n°)
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		
IDEO ² 325 ECOWATT	230	45*/90	325	21	198	0,1	0,7	22,9	35,5	86	92	45	45

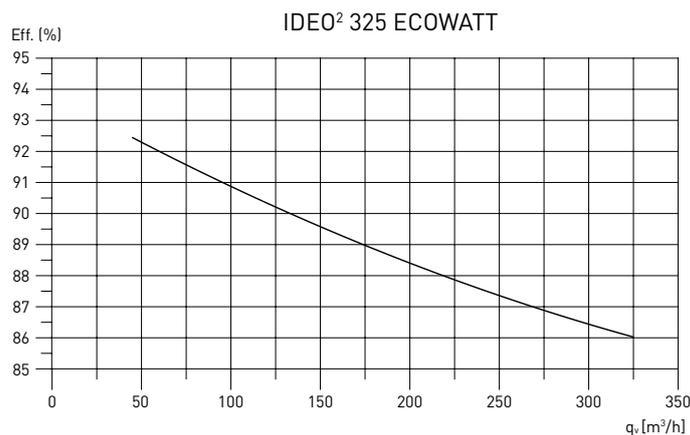
* Absence mode.

** See section of Wiring Diagrams.

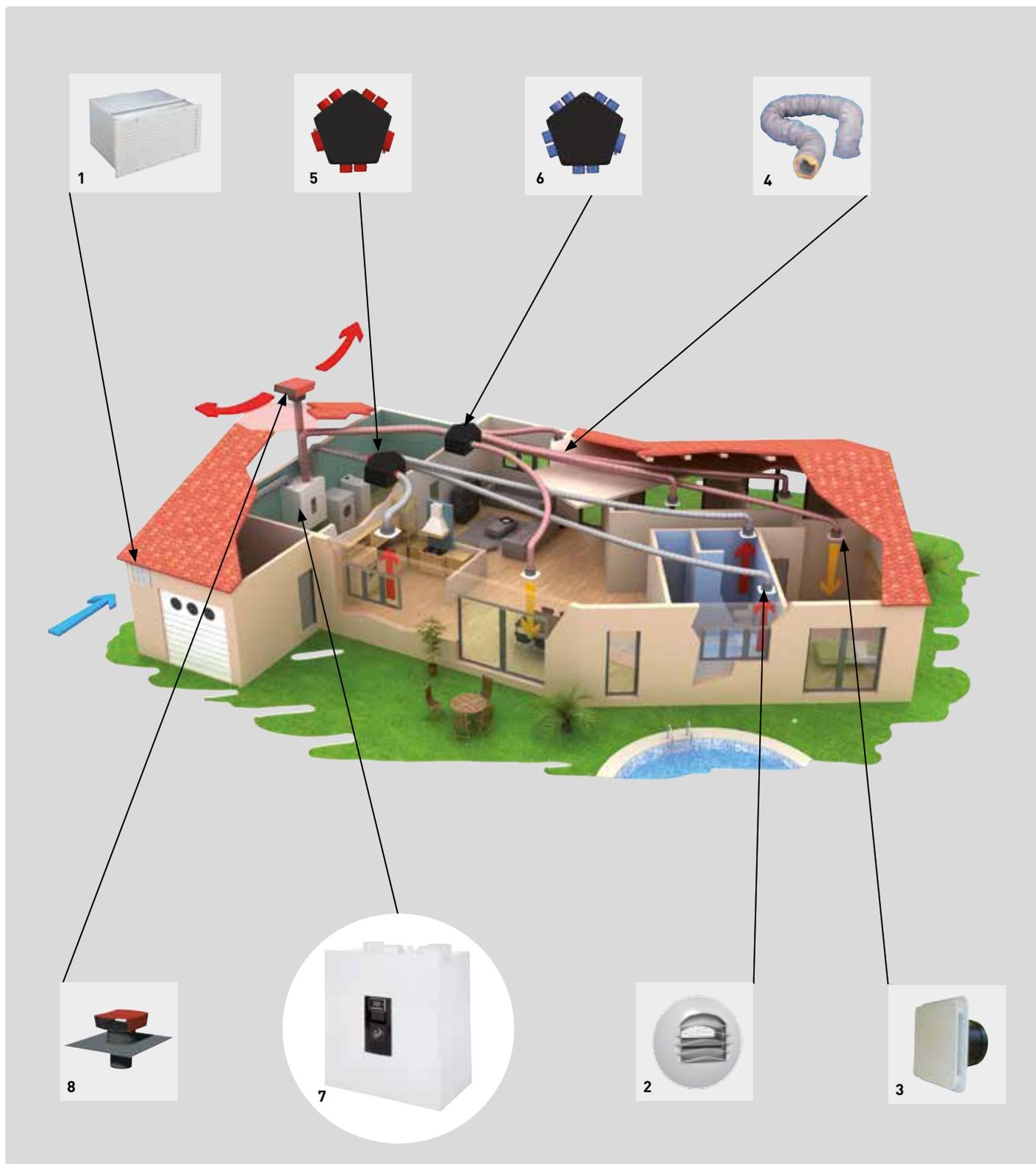
CHARACTERISTIC CURVE



EFFICIENCY CURVE

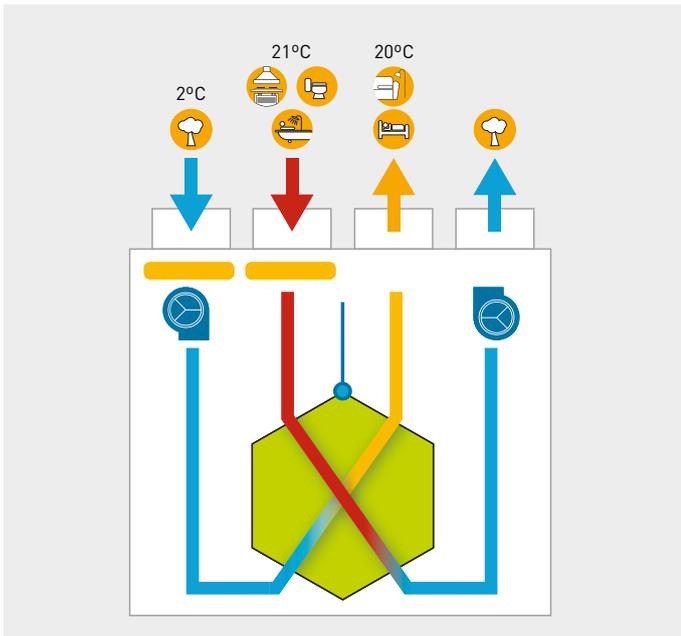


IDEO² SERIES - CENTRALISED ENERGY RECOVERY VENTILATION SYSTEMS



1. Air inlet grille TAP.
2. Self-adjusting extraction valve BARJ / BARP.
3. Supply and extraction (Kitchen) valve BDOP.
4. PVC or rectangular plastic ducts.
5. Extraction plenum.
6. Supply plenum.
7. IDEO2: Counter-flow, high-efficiency heat recovery unit.
8. CT Roof termination.

EXAMPLE OF HEAT RECOVERY IN WINTER

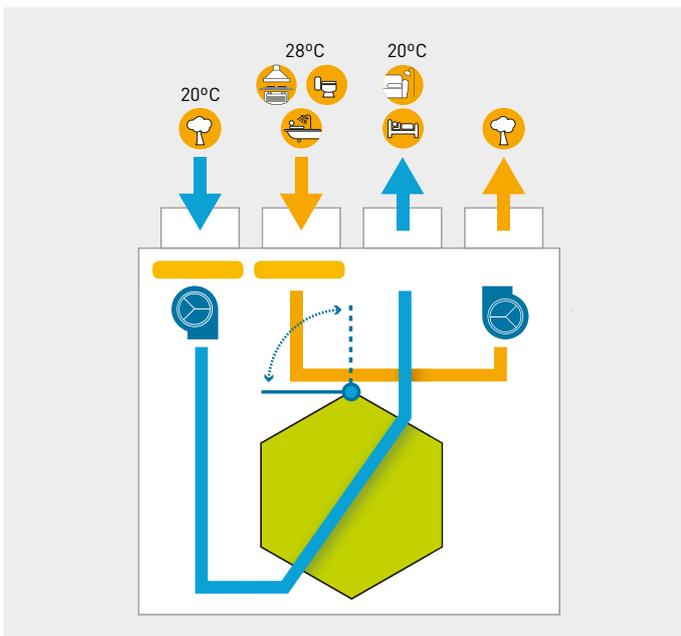


Operation without bypass

- Air inside home: 21°C.
- Outdoor air: 2°C.
- New air heated and blown into home: 19°C.

With a mechanical extract ventilation system, the new air would enter at 2°C through the air inlets, decreasing the temperature inside home. With the energy recovery ventilation systems, the new air would enter at 19°C.

EXAMPLE OF HEAT RECOVERY IN SUMMER NIGHTS (FREE COOLING)



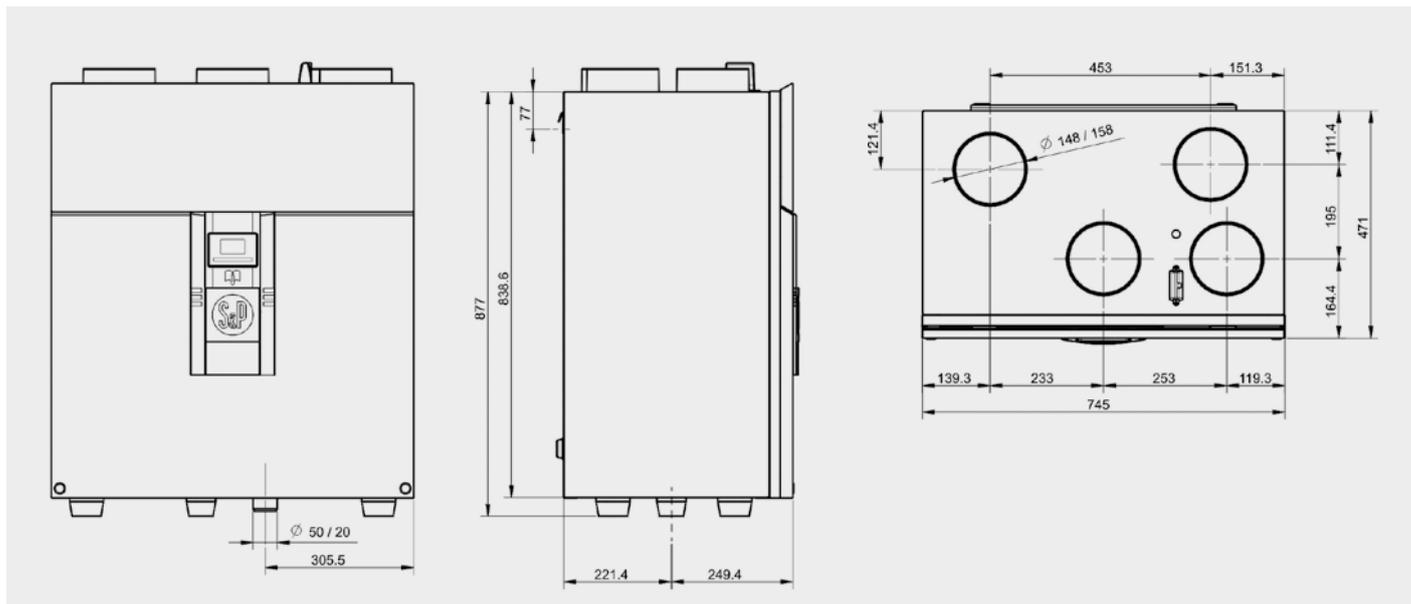
Operation with by-pass

- Air inside home: 28°C.
- Outdoor air: 20°C.
- New air heated and blown into home: 20°C.

In addition, during summer nights, when outdoor air is colder than indoor air, the bypass is activated automatically so airflows do not cross each other.

Heat recovery	Fan	By-pass	Filter	Kitchen	Rooms	Lounge	W.C.	Bath	Outside the home

DIMENSIONS (mm)



ACCESSORIES

Kit ANT. 200 IDEO²

Antenna offering greater coverage. Antenna up to 200 metres in a open space.



Kit H IDEO²

Lying down drain kit

Horizontal fitting bracket



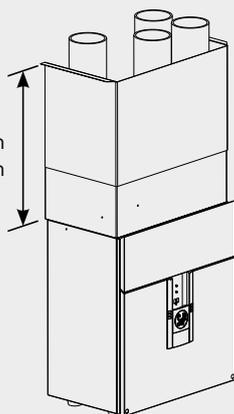
Horizontal drain

Vertical drain cap

ECG IDEO² Kit

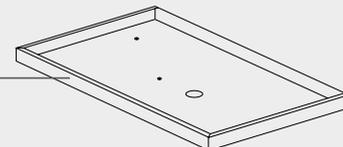
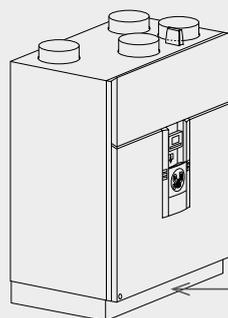
Tube trim

Min. 500 mm
 Max. 950 mm



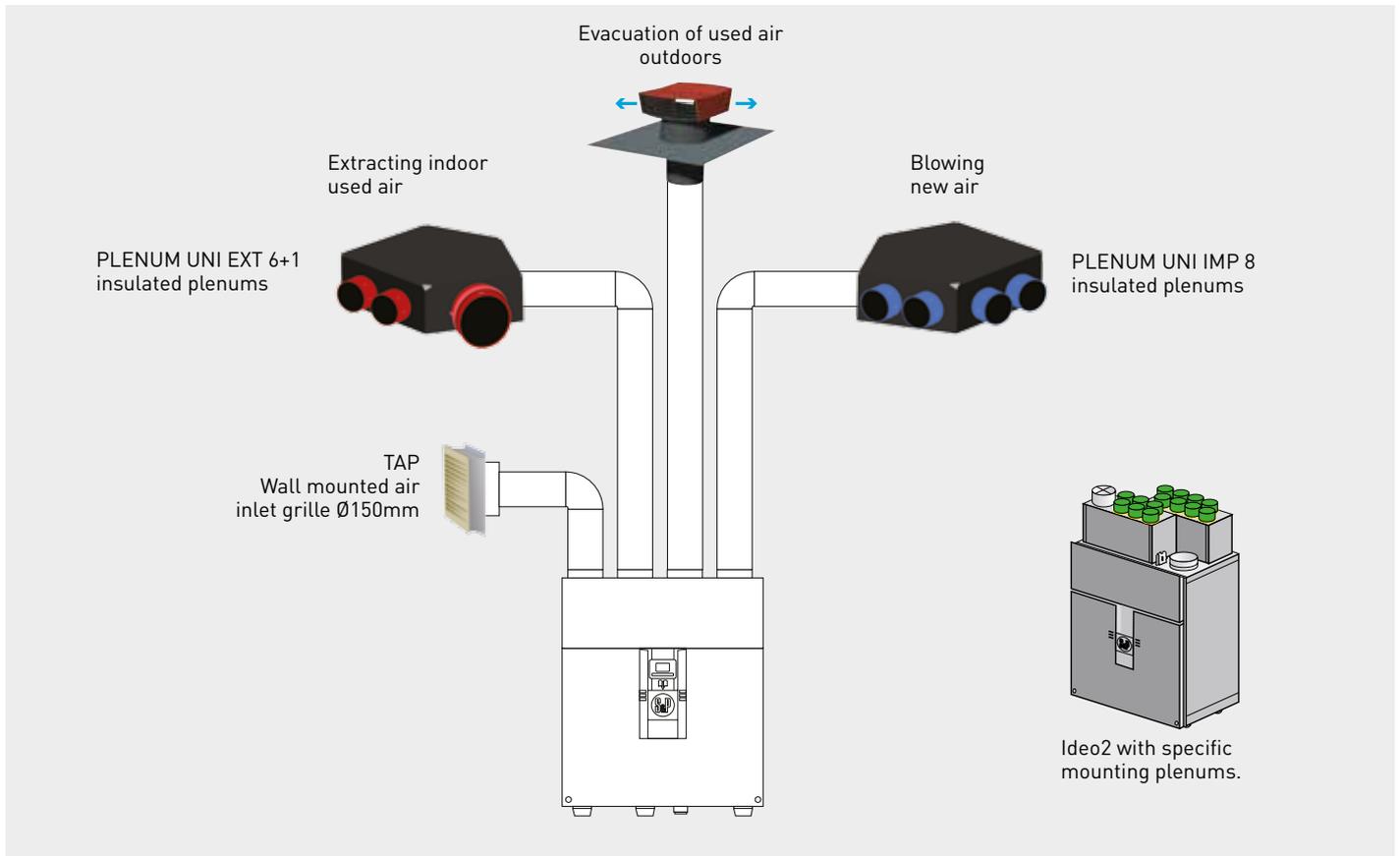
Kit EGG IDEO² INF

Foot trim



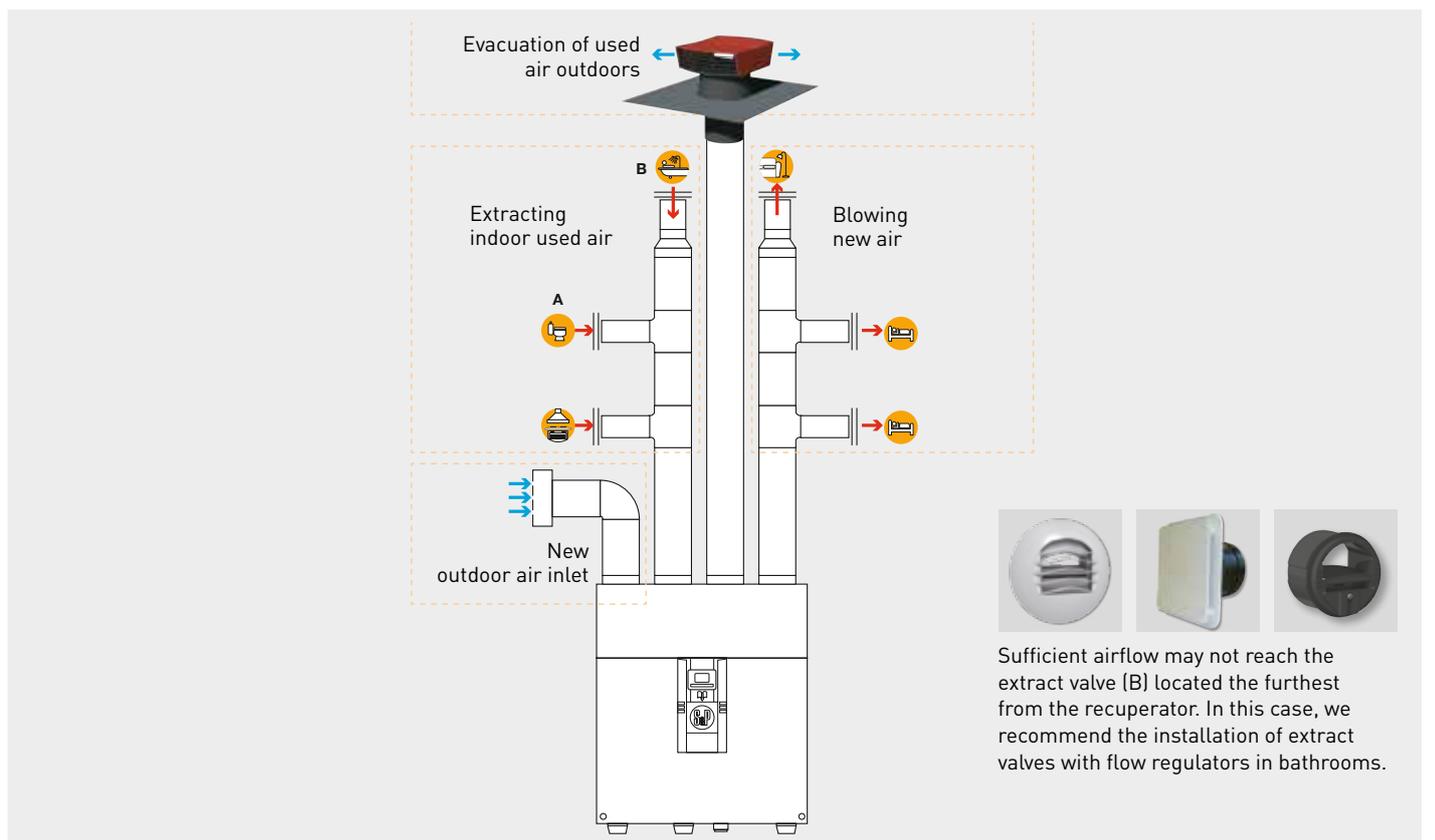
EXAMPLE OF FITTING: DISTRIBUTION BY INSULATED PLENUMS WITH 4 OR 8 SPIGOTS (Ø 80 mm)

The use of plenums facilitates the balancing of the installation.



EXAMPLE OF FITTING: DISTRIBUTION BY DUCTS

The use of ducts minimises the space necessary for the installation.

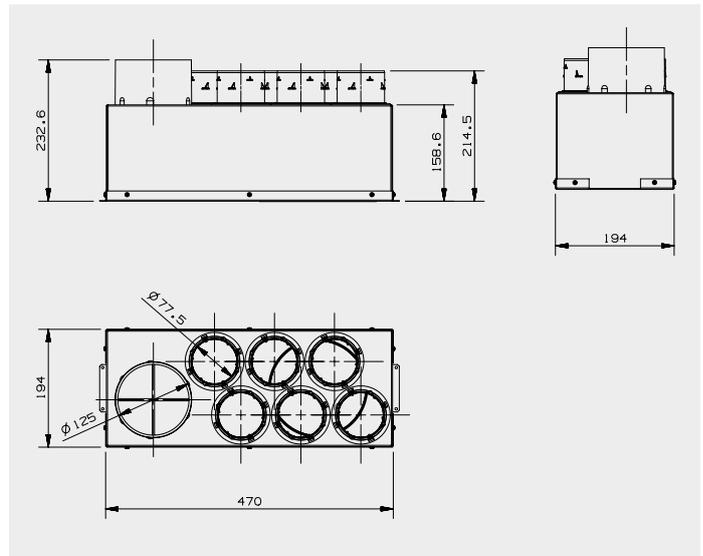


SPECIFIC ACCESSORIES



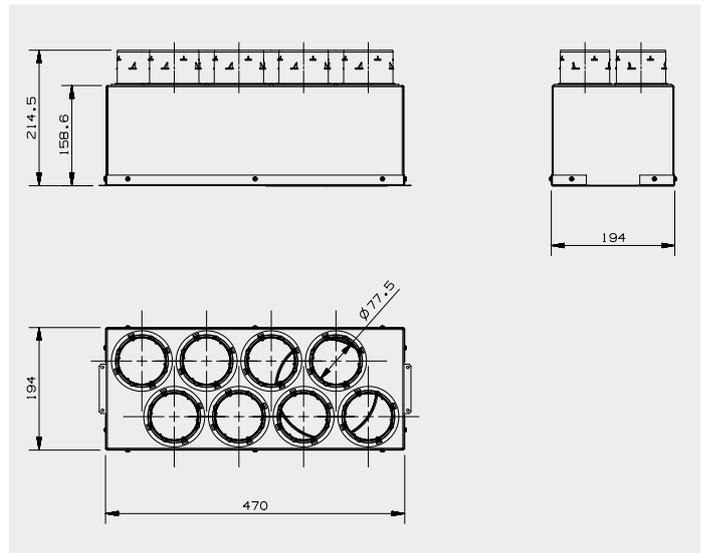
PLENUM IDEO EXT 6+1

Extraction insulated plenum with 6 spigots for bathroom / wc use (Ø80 mm) + 1 spigot for kitchen connection (Ø125 mm). Rear connection Ø150 mm.



PLENUM IDEO IMP 8

Supply insulated plenum with 8 spigots (Ø80 mm). Rear connection Ø150 mm.



MOUNTING ACCESSORIES



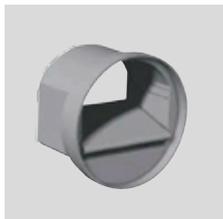
**BARJ
 BARP**
 Self-adjusting calibrated extraction valves.



BDOP
 Supply and extraction valve.



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



RD BP
 Specific low-pressure (20-100 Pa) and self-adjusting damper with sleeve to fit directly into the duct.
 80mm diameter.
 Airflow: 15 or 30 m³/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.
 80mm diameter.
 Airflow: 15 or 30 m³/h.



GPR-ISO
 Insulated rigid duct
 Ø125, 150 and 160 mm.



**GP
 GPX
 GP-PRO
 GP-ISO**
 insulated PVC ducts.



**TUBPLAV
 TUBPLA**
 Self-extinguishing rectangular ducts with or without gasket.



TAT
 Air inlet grille under roof.



TAP
 Wall mounted air inlet grille.



PAF
 Wall outlet grille.



CT
 Roof cowl.



ADRF 100/80
 Reduction to connect rigid duct to spigots for flexible ducts.



PLENUM UNI EXT 6+1
 Insulated extraction plenum of 125/ 150-160mm diameter, 1 Kitchen spigot of 125mm diameter and up to 6 sanitary spigots of 80mm diameter.



PLENUM UNI IMP 8
 Insulated supply plenum of 125/150-160mm diameter and up to 8 spigots for dry areas (living room, dining room, bedrooms) of 80mm diameter.

ELECTRICAL ACCESSORIES



HIG-2
 Humidity sensor.



SQA
 Air quality sensor.