



ALTAIR 120 H & ALTAIR 160 H



ALTAIR 120 V

Low energy heat recovery unit with a high-efficiency heat exchanger (up to 88%) to provide a constant supply of fresh tempered air into the living spaces. The incorporated humidity sensor, constantly monitors and controls the humidity level, meaning no user intervention required.

Manual mode with up to three adjustable speeds is also possible.

Its low profile and light weight allows fitting into false ceiling in horizontal position (ALTAIR 120H & ALTAIR 160H) and into a vertical wall (ALTAIR 120 V), especially into technical walls ready to enclosure embedded tanks.

As humidity rises and falls, the motor speed adjusts proportionally. This controls condensation quietly and efficiently, reducing the periods of time when the system operates on maximum speed, saving energy.

Our constant flow technology delivers the required airflow at all times.

Altair is equipped with high efficiency G4 (ISO coarse 65%) filters for supply and extract.

The control switch included, allows the user to select the working mode of the unit (manual or automatic) and indicates when the filter needs replacing.

ALTAIR units can be managed through Building Management Systems via Modbus RTU.

When using the SPCM communication module (accessory, not included) user can manage the ALTAIR unit via any device connected to internet.



Remote control included in the product

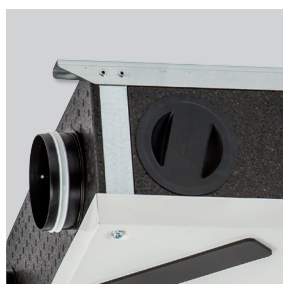
Allows regulation of:

- Speed.
- Manual or automatic mode.
- Filters alarm.



Ultra compact design:

Installation of the unit vertically on the wall (with concealed pipework) or horizontally in a false ceiling. Possibility of installation in the kitchen cabinet.



Mounting flexibility

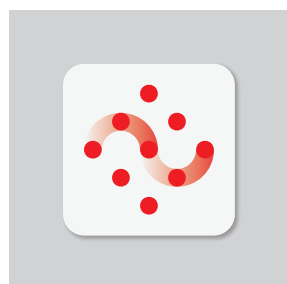
Possibility of changing the outlet nozzle 90 °.

Features

- Counter-flow heat exchanger with up to 88% thermal efficiency.
- Low-consumption EC motors.
- Centrifugal forward curved impeller.
- EPP body.
- 4 nozzles ø100 mm (ALTAIR 120).
4 nozzles ø125 mm (ALTAIR 160).
- Inlet filter:
G4 (ISO coarse 65%).
Option, M5 (ISO ePM10 50%).
- Extract filter G4 (ISO coarse 65%).
- Modbus communication.



LOW PROFILE



Connectair

Through the optional SPCM-ALTAIR module, the unit can access Connectair: S&P's IoT platform that allows to monitor and control the system via cloud.

Module non-compatible with the included remote control.



Specific applications



Single dwellings



Multi dwelling blocks

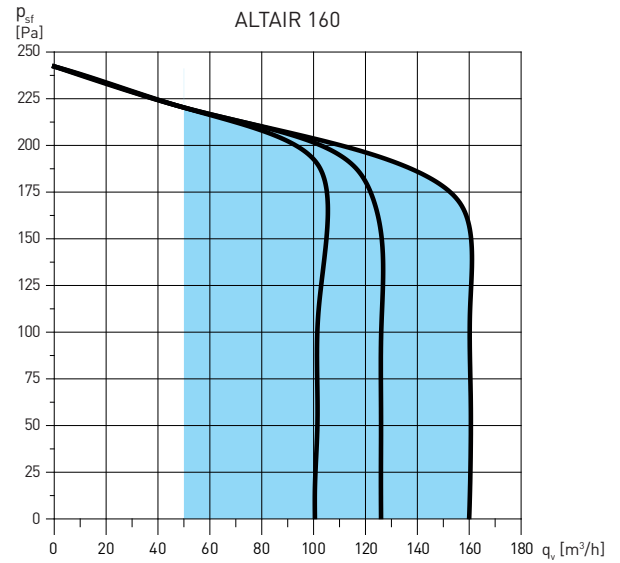
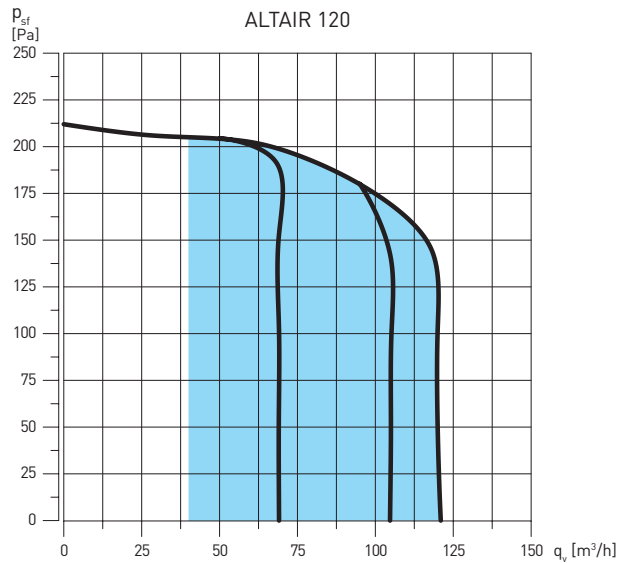


Heat recovery unit

TECHNICAL CHARACTERISTICS

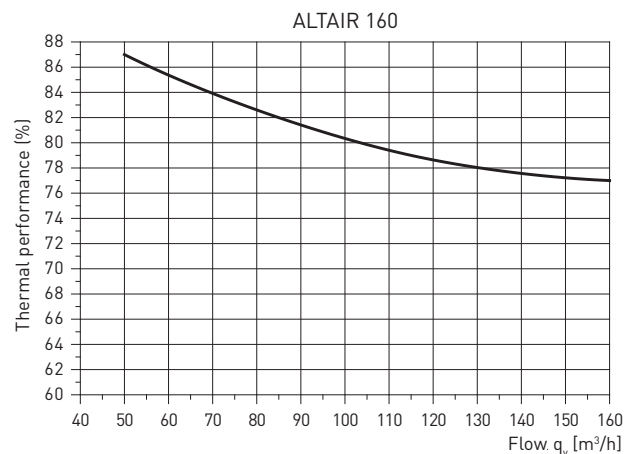
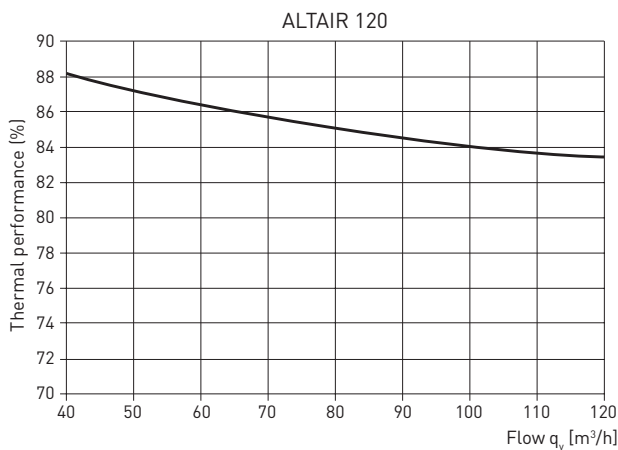
Model	Efficiency (%)	Supply	Maximum airflow at 100 Pa (m³/h)	Sound pressure level at 1,5 m (120 m³/h - 100 Pa) (dB(A))	Maximum absorbed power (W)
ALTAIR 120 H	88	230V 50Hz	120	38	53
ALTAIR 120 V	88	230V 50Hz	120	38	53
ALTAIR 160 H	87	230V 50Hz	160	36	74

PERFORMANCE CURVES



Curves defined considering clean filters.

EFFICIENCY CURVE



Performance obtained according to UNE 13141-7 (Text 20°C and Tint 7°C).

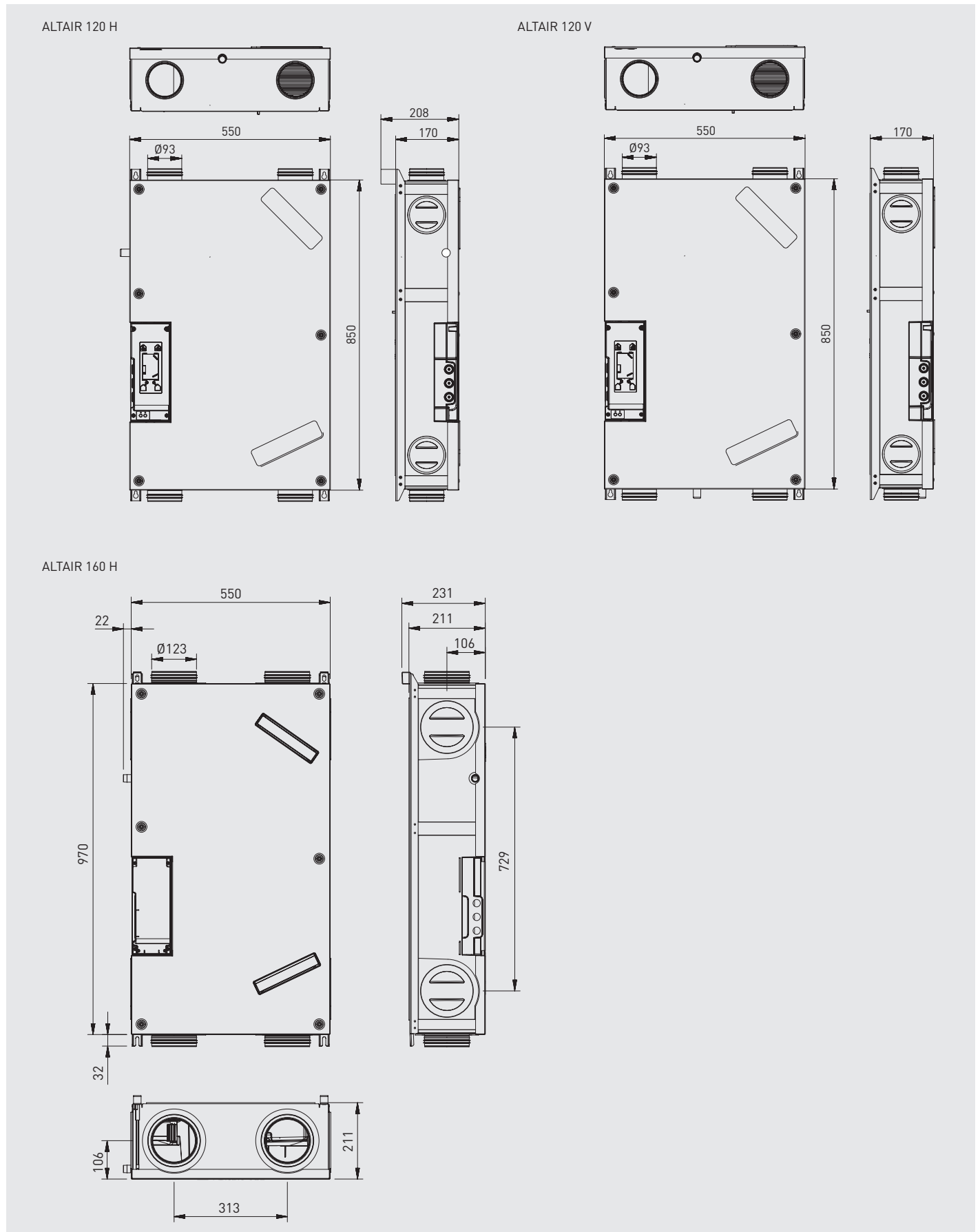
ALTAIR 120 - CONSUMPTION DATA - Pabs (W)

		qv (m³/h)		
		70	105	120
Psf (Pa)	150	40	49	53
	100	31	37	47
	50	12	17	23

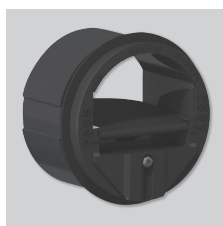
ALTAIR 160 - CONSUMPTION DATA - Pabs (W)

		qv (m³/h)		
		100	125	150
Psf (Pa)	150	50	55	74
	100	35	44	54
	50	26	35	51

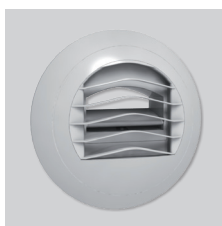
DIMENSIONS (mm)



MOUNTING ACCESSORIES



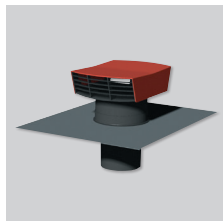
RDR
Self-adjusting damper (50-250 Pa) that, fitted inside the duct, maintains constant airflow.



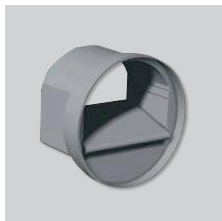
**BARJ
BARP**
Self-adjusting extraction valves.



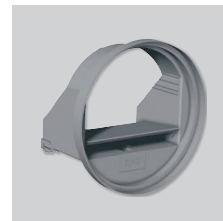
BDOP
Supply and extraction valve.



CT
Roof cowl.



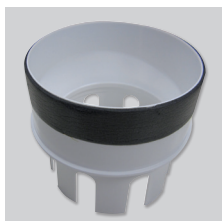
RD BP
Specific low-pressure (20-100 Pa) and self-adjusting damper with sleeve to fit directly into the duct. 80mm diameter. Airflow: 15 or 30 m³/h.



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.



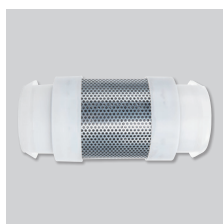
**GP
GPX
GP-PRO
GP-ISO**
Insulated PVC ducts.



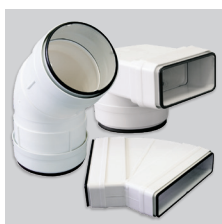
ADRF 100/80
Reduction to connect rigid duct to spigots for flexible ducts.



GPR-ISO
Insulated rigid duct.



LA
Acoustic connections.



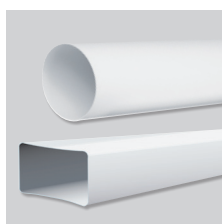
**TUBPLA
ESTANCO - V SERIES**
Self-extinguishing rectangular plastic ducts. TUBPLA V series with gasket.



LAF 95
Sound attenuators (0,5 and 1 meters models).



**KIT FILTROS G4/G4
ALTAIR 120**
2 x G4 spare filters for ALTAIR 120
**KIT FILTROS G4/M5
ALTAIR 120**
G4 and M5 spare filters for ALTAIR 120
**KIT FILTROS G4/G4
ALTAIR 160**
2 x G4 spare filters for ALTAIR 160
**KIT FILTROS G4/M5
ALTAIR 160**
G4 and M5 spare filters for ALTAIR 160



TUBPLA
Rectangular and circular ducts.



**FLEXIREC
FLEXICIR**
Oblong and circular semi-flexible ducts.

ELECTRICAL ACCESSORIES



TSP-PLUS
Touch display. Included functionalities:

- Speed selector
- Airflow indication
- Airflows balancing adjustment
- Weekly timer
- Filters replacement alarm



SPCM-1
Communication module for connecting the ventilation unit to the CONNECTAIR IoT platform.