

RECUP/EC-BS



Heat recovery units with counter flow plate exchanger, automatic control and EC Technology motors, for installation in false ceilings



Common features:

- EC type Plug Fan adjustable 0-10 V.
- Built-in maintenance disconnect switch.
- Thermal efficiency of the equipment 85-90%.
- Structure with high quality reinforced aluminum profiles.
- Panels with a 25 mm thick thermal and acoustic insulation; exterior made of prefinished sheet.
- EPS type panels with thermal bridge break.
- High efficiency filtration:
 - M6 + F8.
 - F7 + F9.
- Broad access for maintenance.
- Free cooling with motorised damper to perform BY-PASS.
- Condensation collection tray and drain.

Built-in control box:

- Control for free cooling through motorised BY-PASS.
- Fan speed control by manual selection or by optional external sensors (CO₂ or pressure).

- Integrated control system with remote control panel.
- STOP/START and speed control available through control panel or external contacts.
- Built-in temperature sensors.
- Filters condition check by means of built-in pressure switches.
- Fault alarm management and shutdown due to fire alarm.
- Compatible with MODBUS RTU.

Finish:

- Aluminium frame and external prefinished sheet structure.
- 25 mm thermal and acoustic insulation panels.
- Low profile models for false ceiling installation.
- Interchangeable nozzles for better adaptation.

On request:

- External battery modules for air treatment.
- Filters with special efficiencies.
- Modules with UVc germicidal chamber.

Order code

RECUP/EC-BS – 800 – BS – M6+F8

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Size

Horizontal ducts and installation in false ceilings

Filters M6+F8
Filters F7+F9

Characteristics based on size

	RECUP/ EC-800-BS	RECUP/ EC-1200-BS	RECUP/ EC-1600-BS	RECUP/ EC-2100-BS	RECUP/ EC-2700-BS
Supply filter (ODA)	M6+F8 / F7+F9	M6+F8 / F7+F9	M6+F8 / F7+F9	M6+F8 / F7+F9	M6+F8 / F7+F9
Extraction filter (ETA)	M6	M6	M6	M6	M6
Free cooling function by means of a motorised by-pass	YES	YES	YES	YES	YES
Panel thickness	25 mm	25 mm	25 mm	25 mm	25 mm
Condensate exhaust	YES	YES	YES	YES	YES
Built-in pressure switches for filter condition control	YES	YES	YES	YES	YES
Safety and maintenance switch	YES	YES	YES	YES	YES
Built-in control panel	YES	YES	YES	YES	YES

Technical characteristics

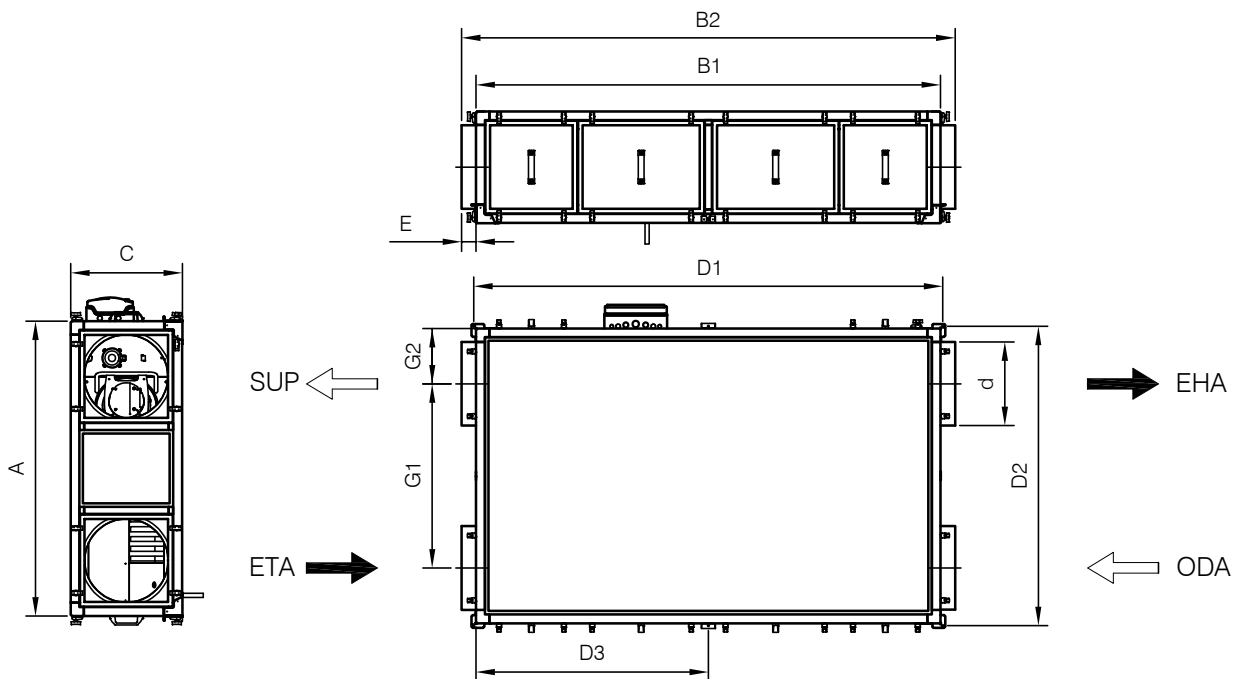
Model	Nominal flow rate (m ³ /h)	Recovery unit efficiency (%)	Available pressure (Pa)	Nominal power (kW)	Nominal current (A)	Voltage 50/60 Hz (V)	Irradiated sound level at 5 m dB (A)	Approx. weight (Kg)
RECUP/EC-800-BS	800	86.5	70	0.39	2.91	1/230	45	78
RECUP/EC-1200-BS	1200	86.8	70	0.32	1.16	1/230	34	105
RECUP/EC-1600-BS	1600	86.2	100	0.53	2.11	1/230	40	178
RECUP/EC-2100-BS	2100	88.0	100	0.76	3.14	1/230	43	216
RECUP/EC-2700-BS	2700	86.9	100	1.23	5.17	1/230	50	216



Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Dimensions mm



	A	B1	B2	C	D1	D2	D3	E	G1	G2	d
RECUP/EC-800-BS	684	1644	1766	351	1663	703	832	61	320	182	200
RECUP/EC-1200-BS	1124	1890	2012	450	1909	1143	955	61	695	215	315
RECUP/EC-1600-BS	1250	1970	2092	474	1989	1269	985	61	781	235	355
RECUP/EC-2100-BS	1250	2198	2320	614	2217	1269	1109	61	736	257	400
RECUP/EC-2700-BS	1250	2198	2320	614	2217	1269	1109	61	736	257	400

ODA: Fresh outdoor air / SUP: Air impulsion to the premise / EHA: Exit of exhaust air / ETA: Air extraction from premises

Accessories

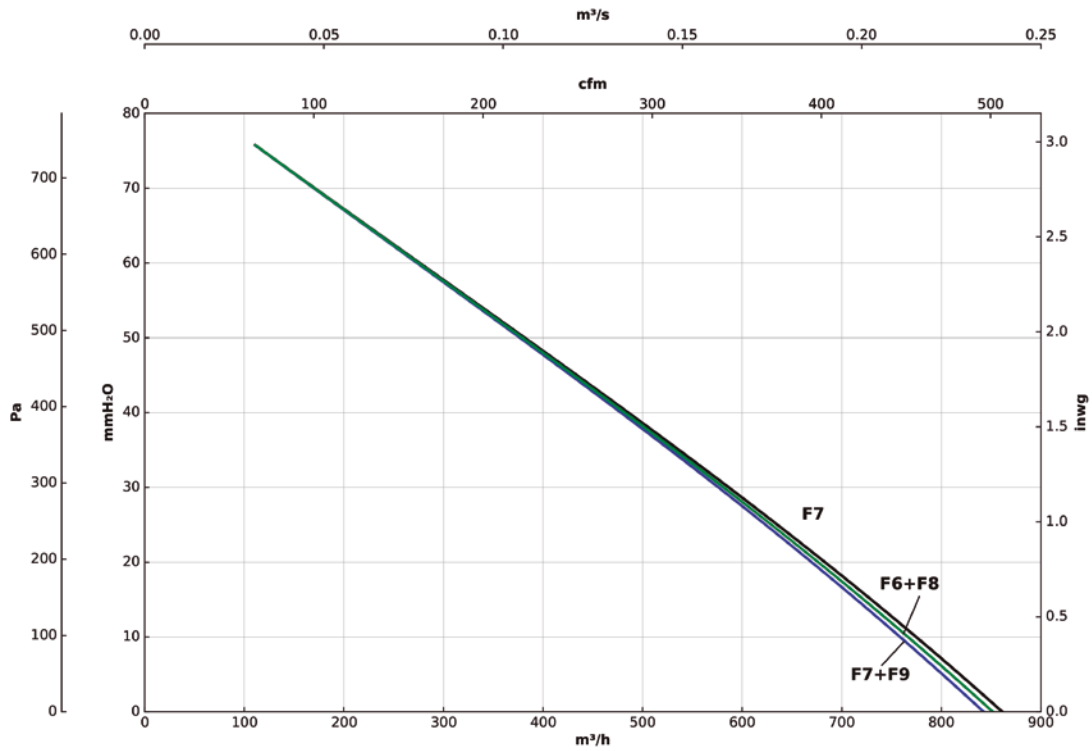


Characteristic curves

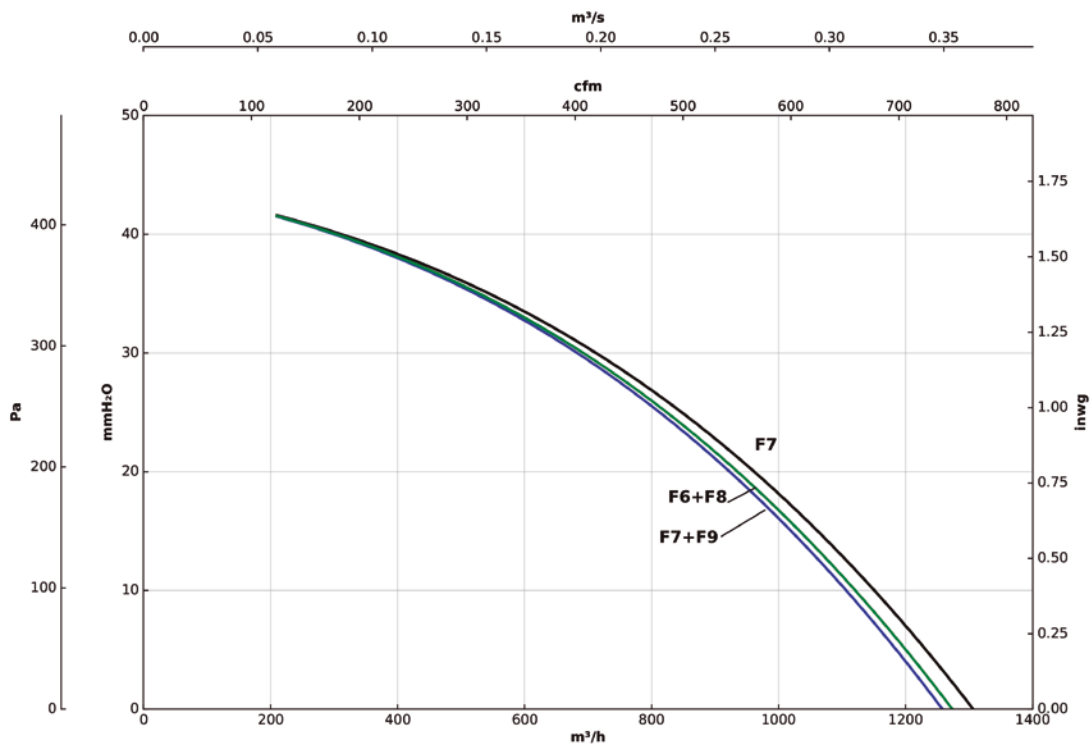
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

RECUP/EC-800-BS



RECUP/EC-1200-BS

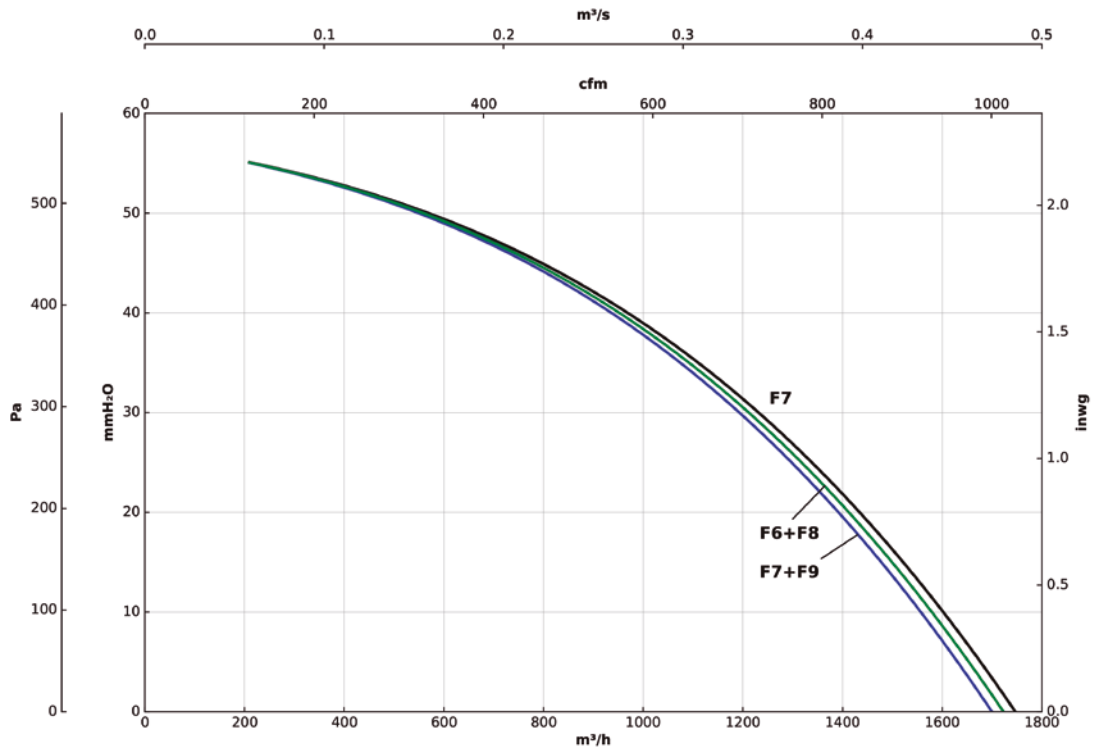


Characteristic curves

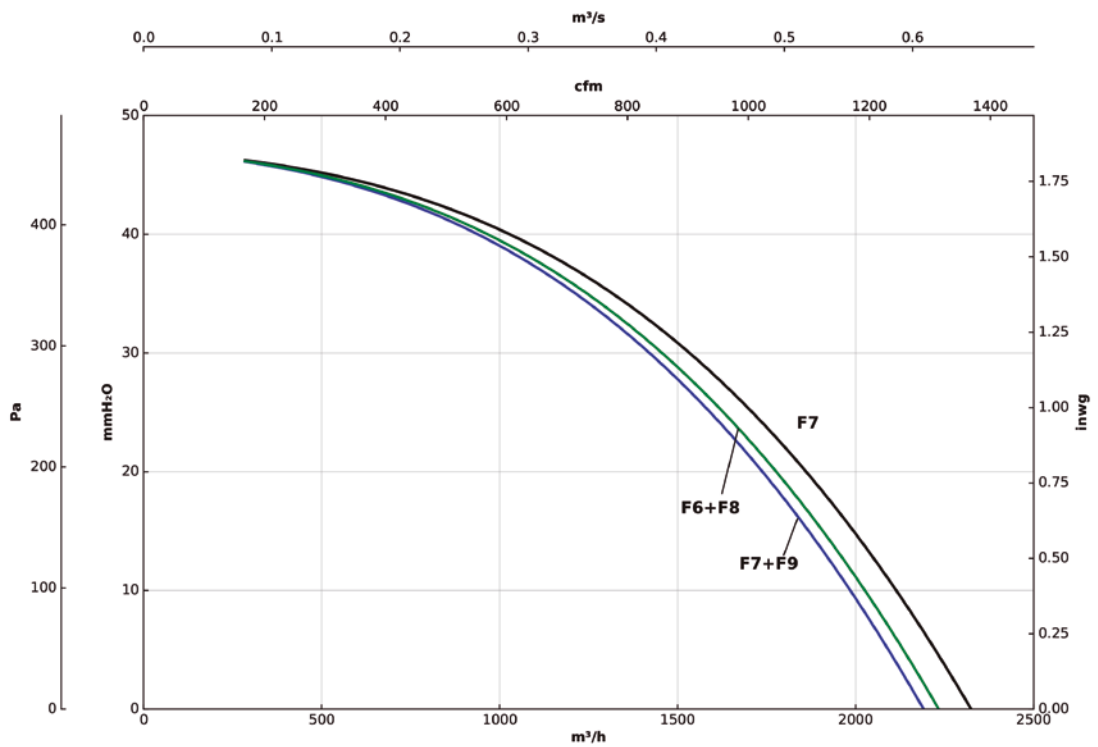
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RECUP/EC-1600-BS



RECUP/EC-2100-BS

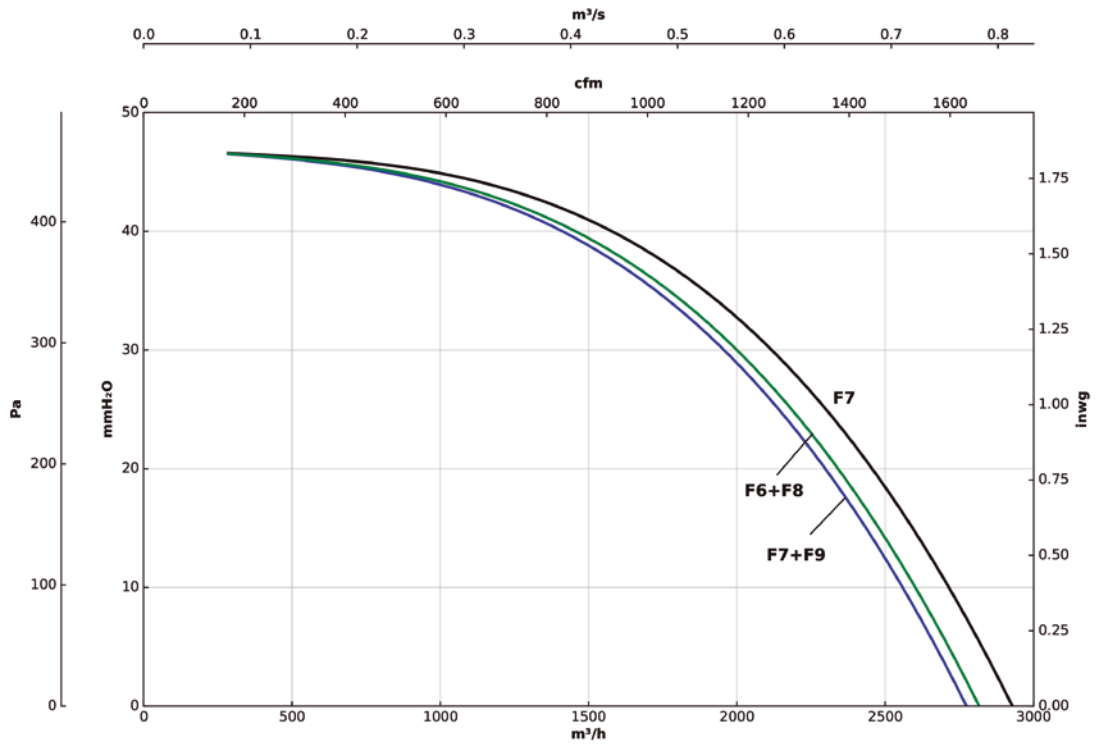


Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

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RECUP/EC-2700-BS



Efficiency curves

