

RECUP/EC-H

Heat recovery units with counter flow exchanger, automatic control and EC Technology motors, for installation on a roof or in a plant room



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 thermal and acoustic insulation, exterior in pre-lacquered sheet.
- EPS type panels with thermal bridge break.
- G4 pre-filter + M6 or F7 filter in the air supply.
- High efficiency filtration F8 or F9 in the air supply.
- Broad access for maintenance.
- Free cooling with motorized damper to perform BY-PASS.
- Condensation collection tray and drain.

Built-in control box:

- Control for free cooling through motorized 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 and humidity 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:

- Structure in aluminum profiles and pre-lacquered outer sheet.
- 25 mm thermal and acoustic insulation panels up to model 2700.
- 50 mm thermal and acoustic insulation panels from model 3300.

On request:

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

Order code

RECUP/EC-H — 1200 — H — M6+F8

RECUP/EC-H: Heat recovery units with counter flow exchanger, automatic control and EC Technology motors, for installation on a roof or in a plant room

Size

Horizontal ducts and installation on roofs or in technical rooms

Filters M6+F8
Filters F7+F9

Characteristics based on size

	RECUP/ EC-1200-H	RECUP/ EC-1600-H	RECUP/ EC-2100-H	RECUP/ EC-2700-H
Supply filter (ODA)	G4+M6/F7	G4+M6/F7	G4+M6/F7	G4+M6/F7
Impulsion filter (SUP)	F8/F9	F8/F9	F8/F9	F8/F9
Extraction filter (ETA)	M6	M6	M6	M6
Free cooling function by means of a motorised by-pass	YES	YES	YES	YES
Panel thickness	25 mm	25 mm	25 mm	25 mm
Condensate exhaust	YES	YES	YES	YES
Built-in pressure switches for filter condition control	YES	YES	YES	YES
Safety and maintenance switch	YES	YES	YES	YES
Built-in control panel	YES	YES	YES	YES

Characteristics based on size

	RECUP/ EC-3300-H	RECUP/ EC-4500-H	RECUP/ EC-6000-H	RECUP/ EC-8000-H	RECUP/ EC-10000-H
Supply filter (ODA)	G4+M6/F7	G4+M6/F7	G4+M6/F7	G4+M6/F7	G4+M6/F7
Impulsion filter (SUP)	F8/F9	F8/F9	F8/F9	F8/F9	F8/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	50 mm	50 mm	50 mm	50 mm	50 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 (m³/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)	According ErP
RECUP/EC-1200-H	1200	90	200	0.45	1.78	1/230	37	210	2018
RECUP/EC-1600-H	1600	88.8	200	0.63	2.54	1/230	40	210	2018
RECUP/EC-2100-H	2100	88.8	200	0.82	1.48	3+N/400	43	281	2018
RECUP/EC-2700-H	2700	87.8	200	1.11	1.88	3+N/400	46	281	2018
RECUP/EC-3300-H	3300	88.8	300	1.68	2.65	3+N/400	50	324	2018
RECUP/EC-4500-H	4500	88.6	300	2.53	4.34	3+N/400	57	342	2018
RECUP/EC-6000-H	6000	89.1	300	2.55	4.26	3+N/400	47	385	2018
RECUP/EC-8000-H	8000	88	300	4.04	6.41	3+N/400	51	385	2018
RECUP/EC-10000-H	10000	87	300	6.11	9.38	3+N/400	56	385	2018



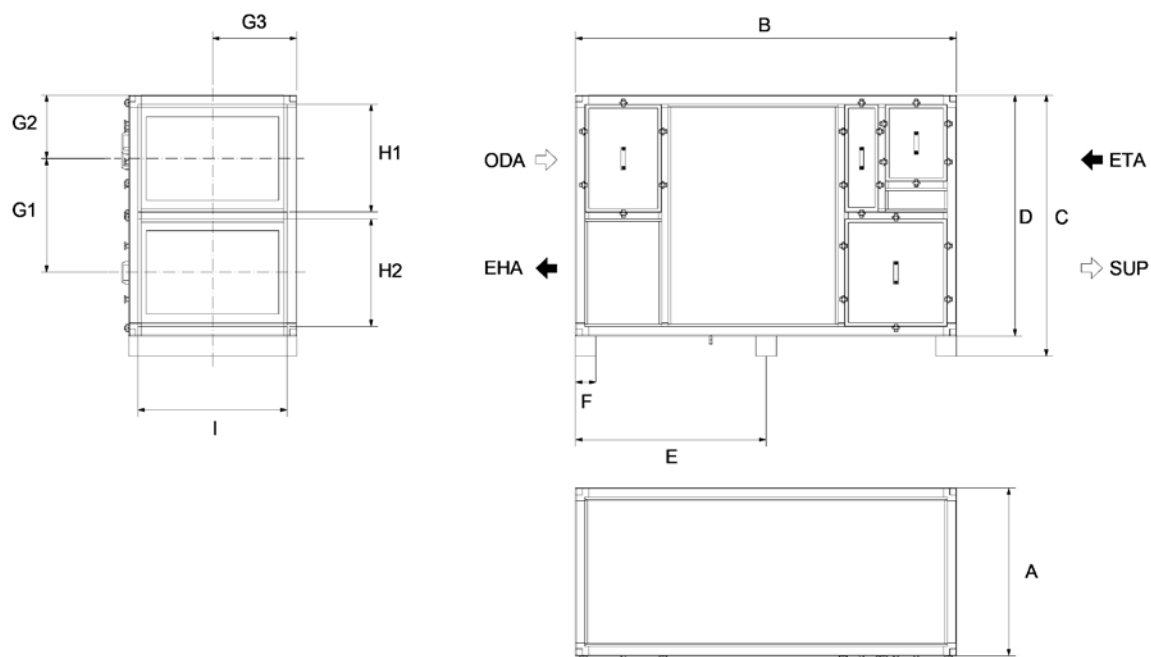
Erp. (Energy Related Products)

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

Accessories



Dimensions mm



	A	B	C	D	E	F	G1	G2	G3	H1	H2	I
RECUP/EC-1200-H	566	2213	1507	1387	1030	120	672	355	283	637	647	492
RECUP/EC-1600-H	566	2213	1507	1387	1030	120	672	355	283	637	647	492
RECUP/EC-2100-H	669	2213	1507	1387	1030	120	672	355	335	637	647	595
RECUP/EC-2700-H	669	2213	1507	1387	1030	120	672	355	335	637	647	595
RECUP/EC-3300-H	992	2250	1544	1424	1048	120	677	374	496	637	637	881
RECUP/EC-4500-H	1297	2250	1544	1424	1048	120	677	374	649	637	637	1186
RECUP/EC-6000-H	1889	2250	1544	1424	1048	120	677	374	945	637	637	1778
RECUP/EC-8000-H	1889	2250	1544	1424	1048	120	677	374	945	637	637	1778
RECUP/EC-10000-H	1889	2250	1544	1424	1048	120	677	374	945	637	637	1778

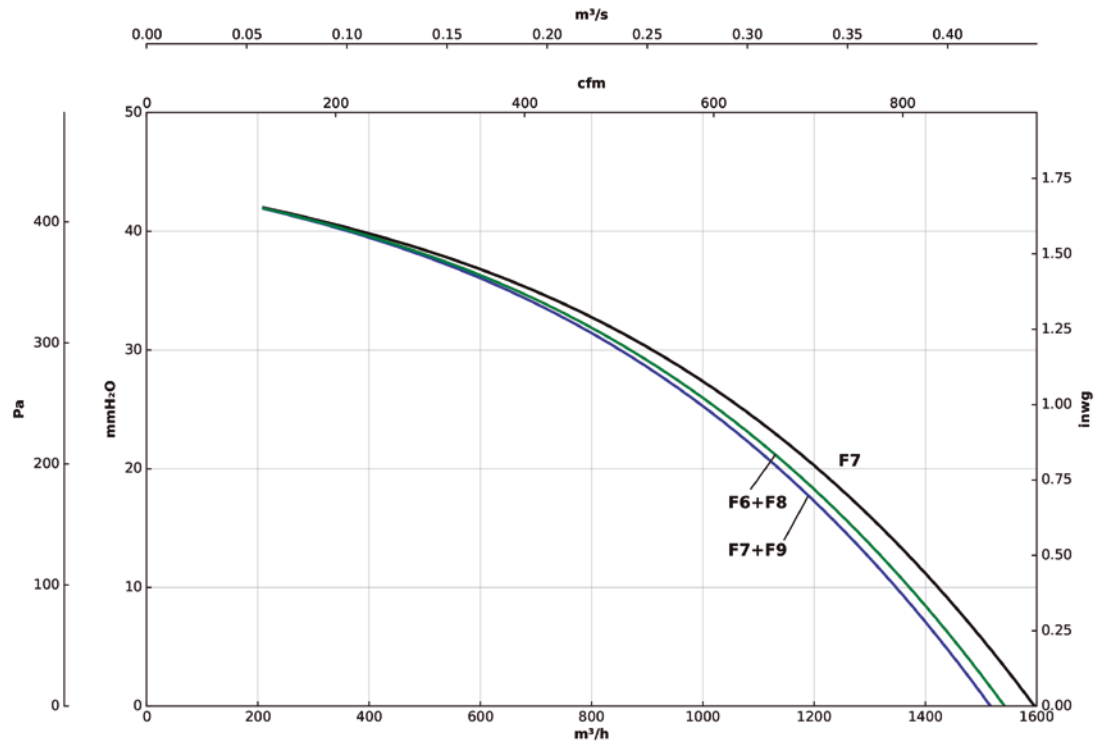
ODA: Fresh outdoor air / SUP: Air impulsion to the premise / EHA: Exit of exhaust air / ETA: Air extraction from premises

Characteristic curves

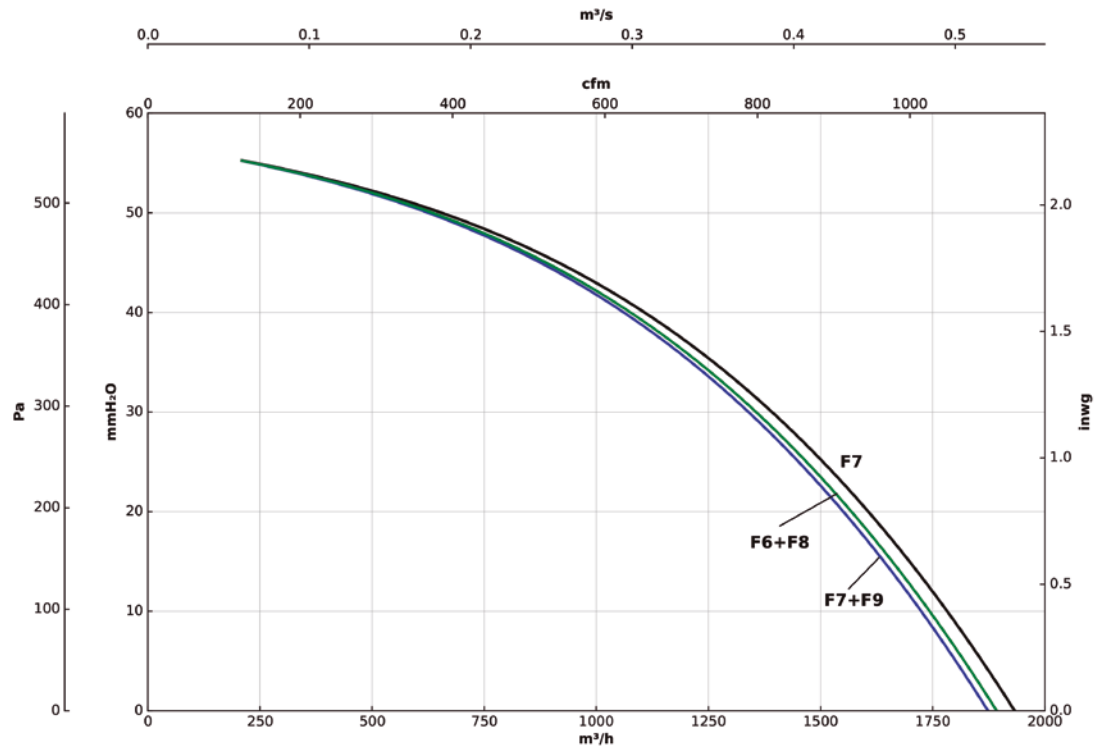
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

RECUP/EC-1200-H



RECUP/EC-1600-H

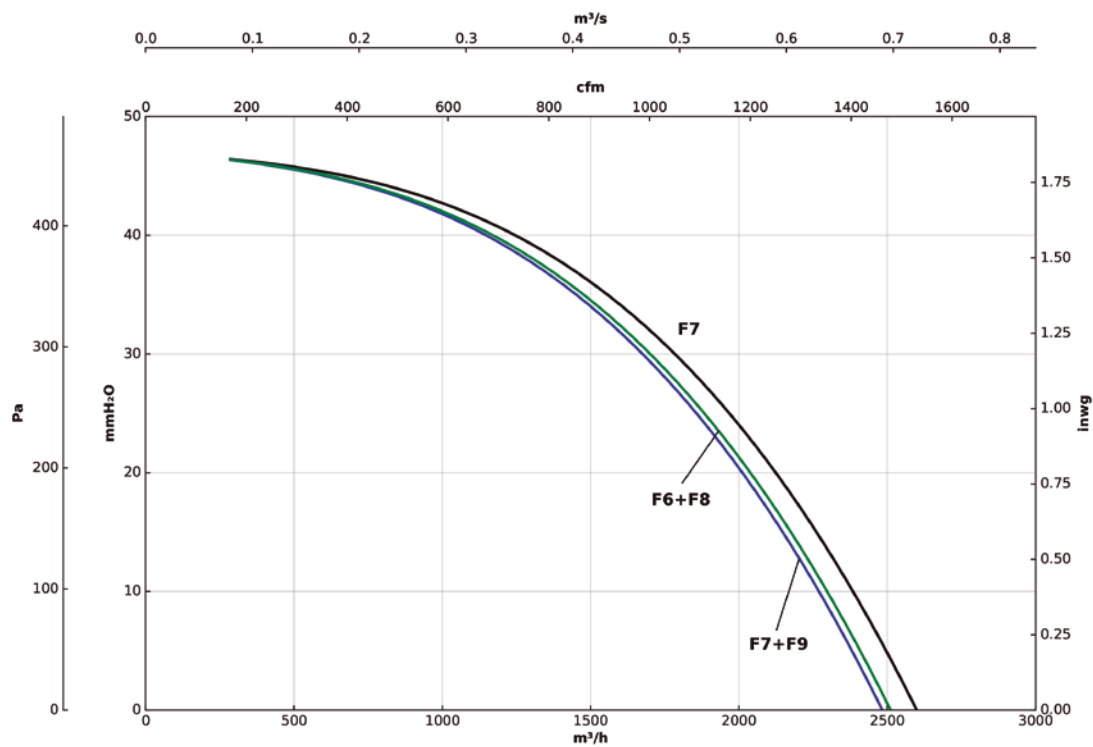


Characteristic curves

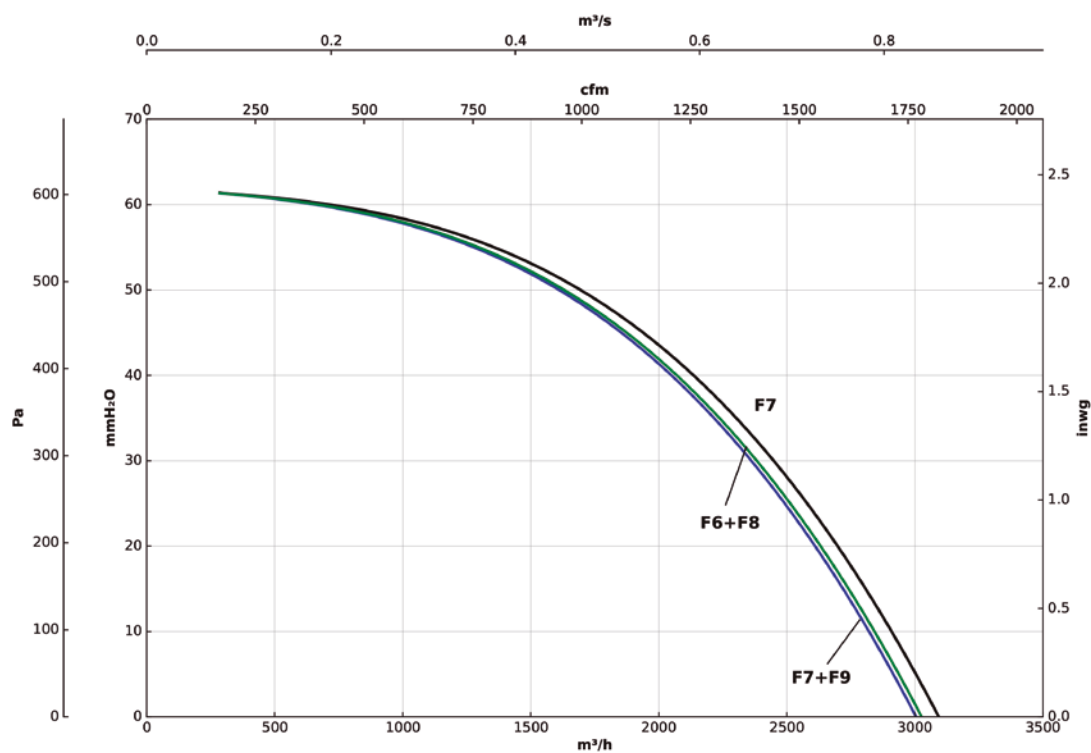
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RECUP/EC-2100-H



RECUP/EC-2700-H

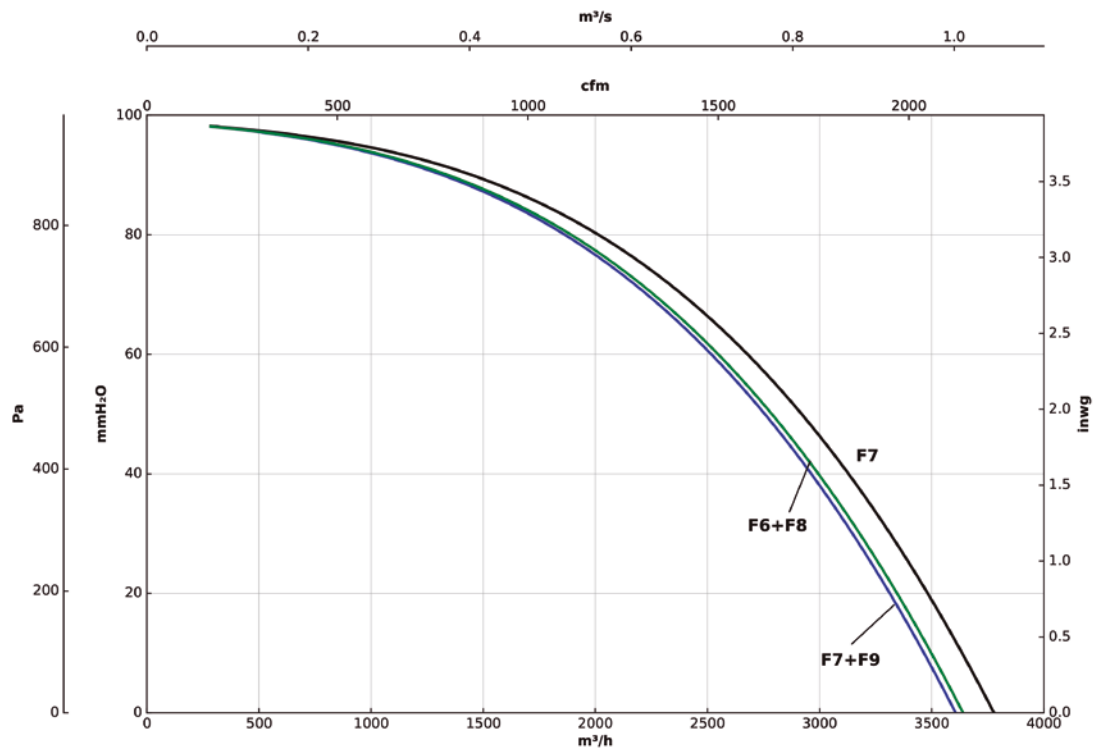


Characteristic curves

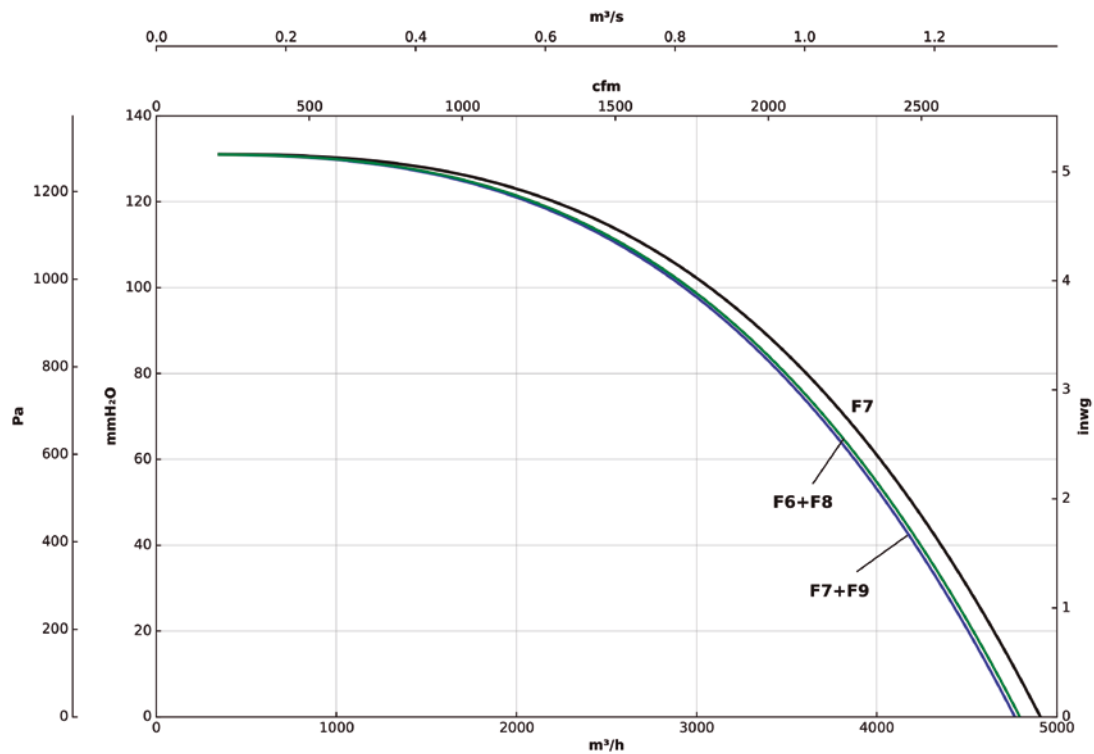
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RECUP/EC-3300-H



RECUP/EC-4500-H

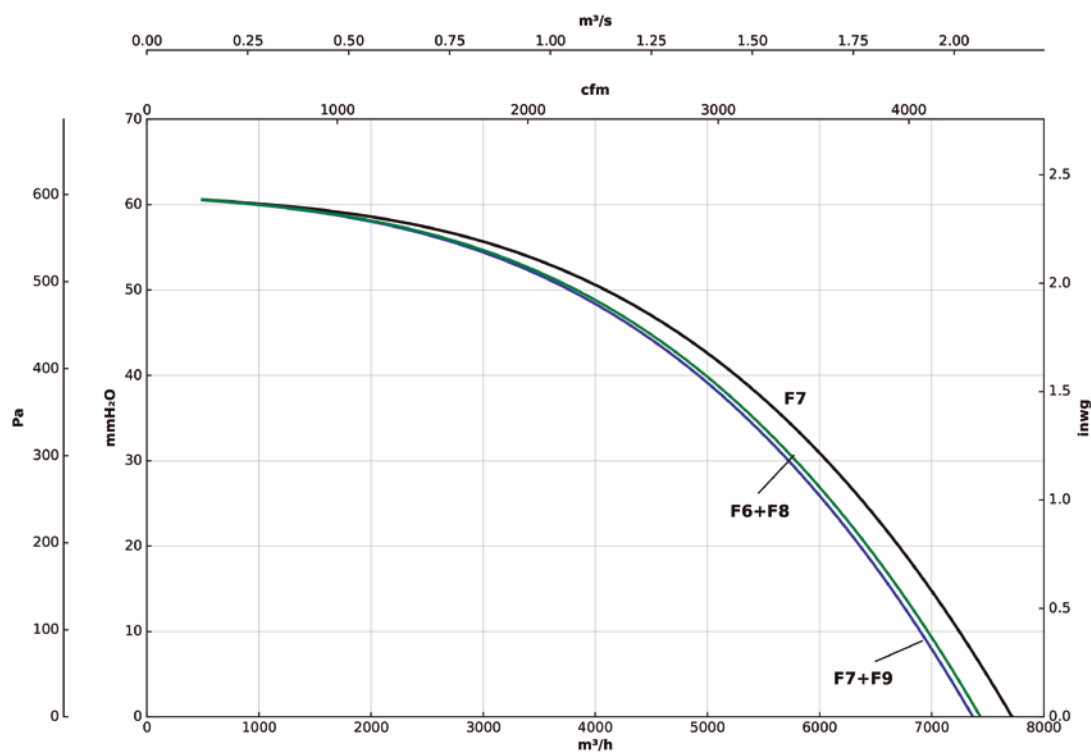


Characteristic curves

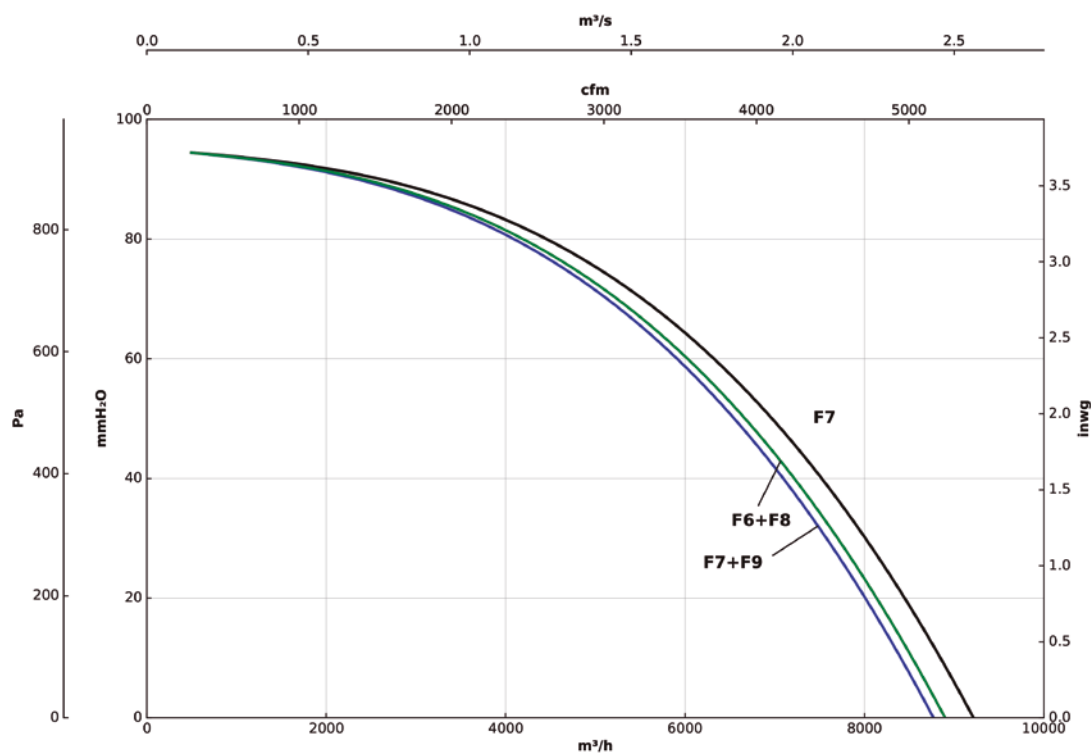
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RECUP/EC-6000-H

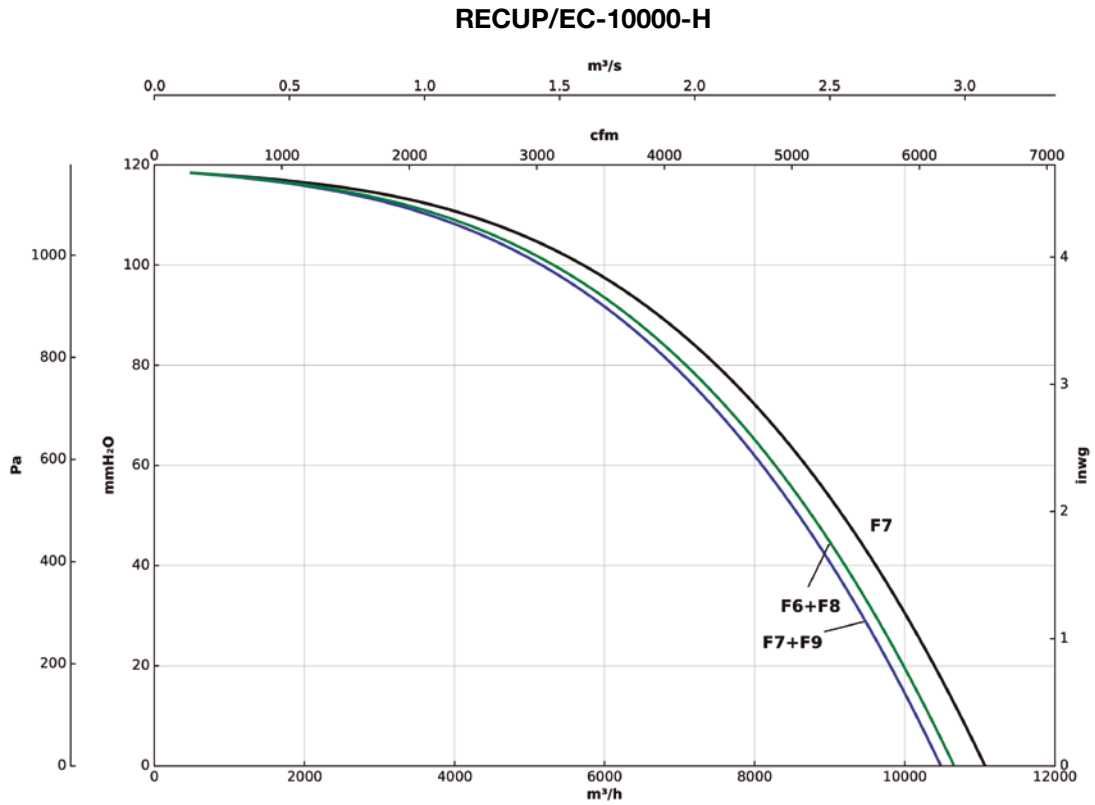


RECUP/EC-8000-H



Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H₂O, Pa and inwg



Efficiency curves

