

# RECUP/EC H



**High efficiency heat recovery units with counterflow plate heat exchangers, automatic control and EC technology motors, for installation on roofs or in technical rooms**



#### Common characteristics:

- Plug Fan type EC fans regulated from a 0-10 V signal.
- Built-in maintenance section switch.
- Thermal efficiency between 85-90%.
- High quality reinforced aluminium frame structure.
- Panels with thermal and acoustic insulation; exterior made of prefinished sheet.
- XPS type panels with thermal bridge break.
- G4 pre-filter + M6 or F7 filter on the air supply side.
- High efficiency F8 or F9 filtration on the air impulsion side.
- Wide access for maintenance.
- Free cooling with motorised BY-PASS hatch.
- Condensate collection and drainage tray.

#### Built-in control panel:

- Free cooling control by means of a motorised BY-PASS.
- Fan speed control by manual selection or by optional external sensors (CO<sub>2</sub> or pressure).
- Built-in control system with remote control panel.

- STOP / START and speed control available through control panel or external contacts.
- Built-in temperature and humidity sensors.
- Filter status control by means of built-in pressure switches.
- Fault and fire alarm shut down management.
- Compatible with MODBUS RTU.

#### Finish:

- Aluminium frame and external prefinished sheet structure.
- Panels with a 25 mm thick thermal and acoustic insulation up to model 2700.
- Panels with a 50 mm thick thermal and acoustic insulation beginning with model 3300.

#### On request:

- External battery modules for air treatment.
- Special efficacy filters.
- Modules with UVc germicidal chamber.

#### Order code

<b>RECUP/EC</b>	—	<b>1200</b>	—	<b>H</b>	—	<b>M6+F8</b>
↓		↓		↓		↓
RECUP/EC: High efficiency heat recovery units with counterflow plate heat exchangers, automatic control and EC technology motors		Size		Horizontal ducts and installation on roofs or in technical rooms		M6+F8 filters F7+F9 filters

#### Get In Touch

Call: 0845 6880112  
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#### Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH

## 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 discharge	YES	YES	YES	YES
Pressure switch to control built-in filter status	YES	YES	YES	YES
Safety and maintenance switch	YES	YES	YES	YES
Built-in control panel	YES	YES	YES	YES

	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 discharge	YES	YES	YES	YES	YES
Pressure switch to control built-in filter status	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 <sup>3</sup> /h)	Recovery unit efficiency (%)	Available pressure (Pa)	Nominal power (kW)	Nominal current (A)	Voltage (V)	Irradiated sound level at 5 m dB(A)	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

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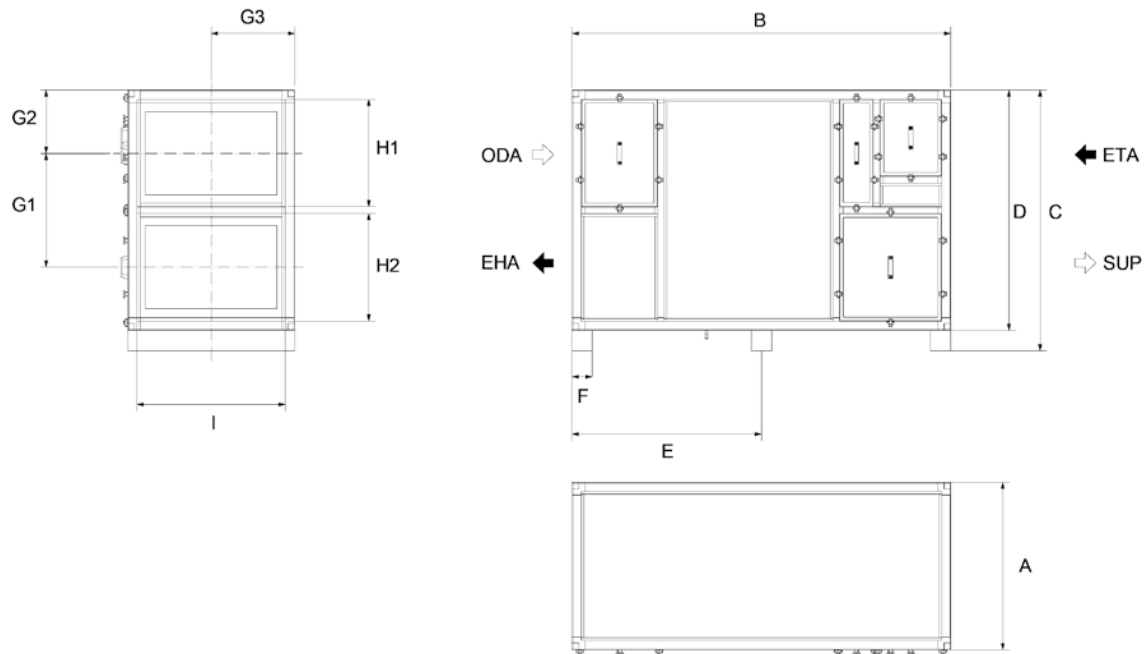
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## Erp. (Energy Related Products)

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

### Dimensions mm



Model	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.

### Accessories



FILTERS



PRESSURE SWITCH



SI-CO2 IND



GERMICIDAL CHAMBER

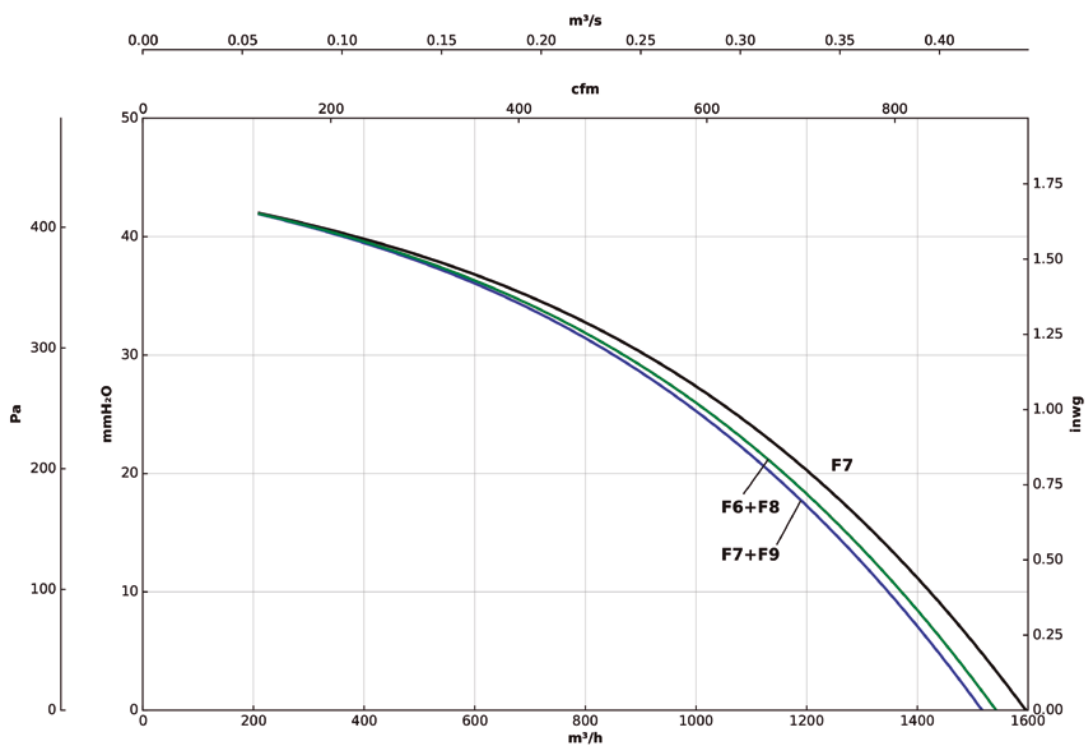


### Characteristic curves

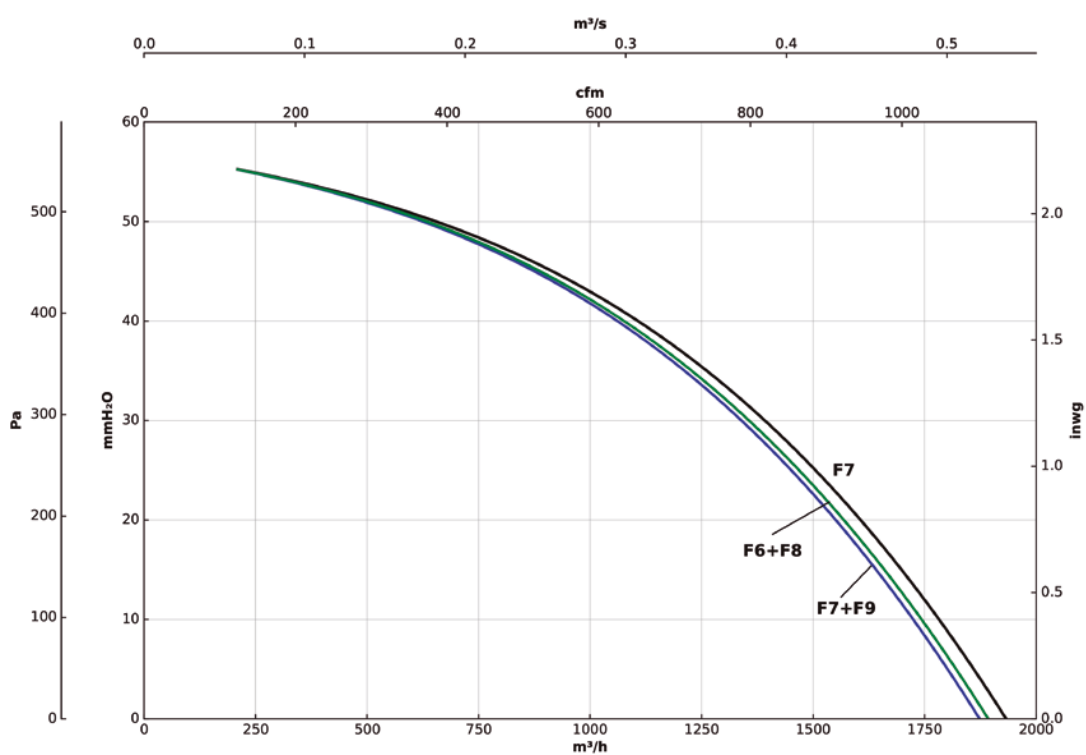
Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Static pressure in mmH<sub>2</sub>O, Pa and inwg.

#### RECUP/EC-1200-H



#### RECUP/EC-1600-H



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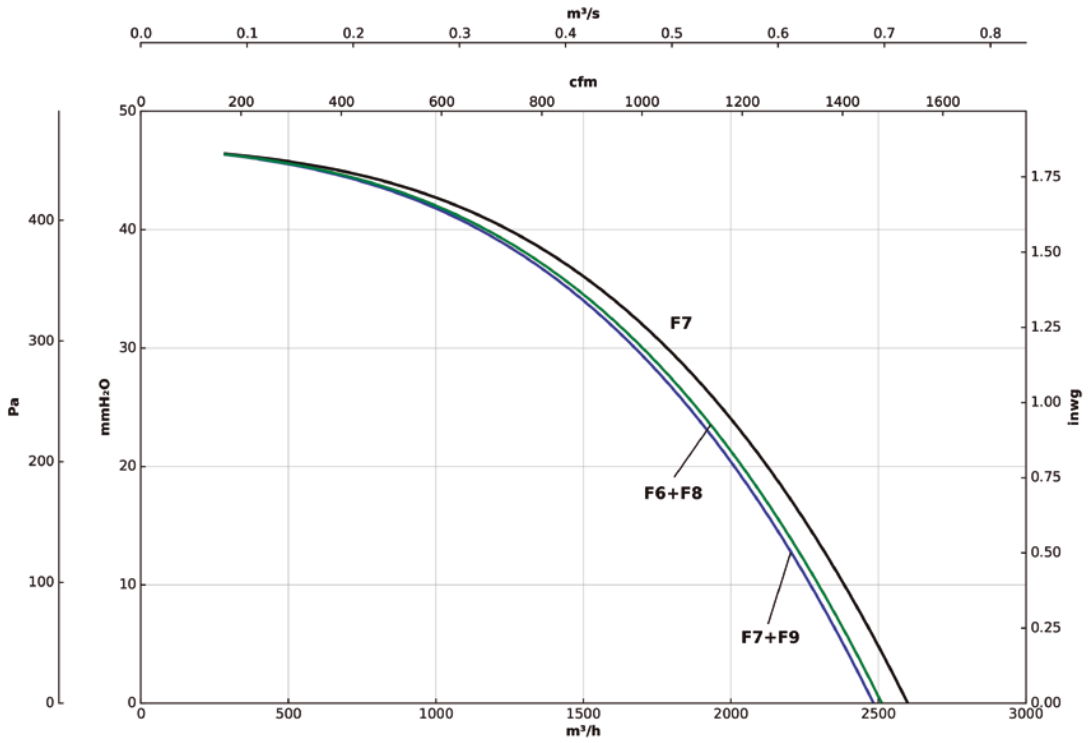
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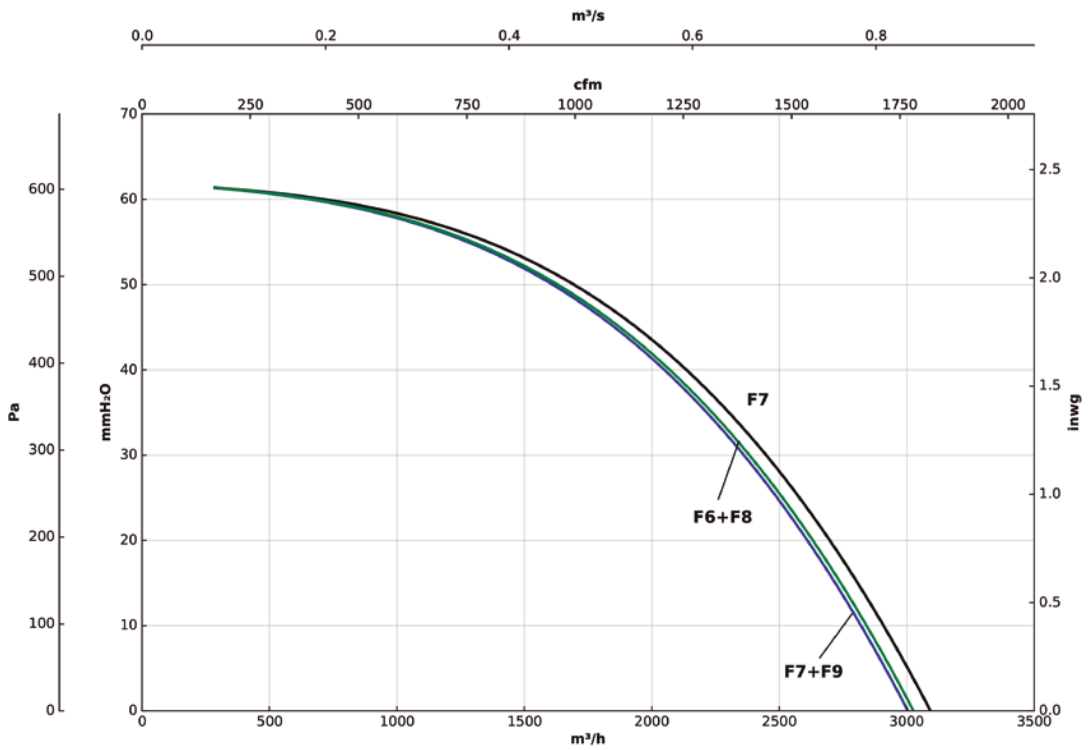
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Static pressure in mmH<sub>2</sub>O, Pa and inwg.

#### RECUP/EC-2100-H



#### RECUP/EC-2700-H



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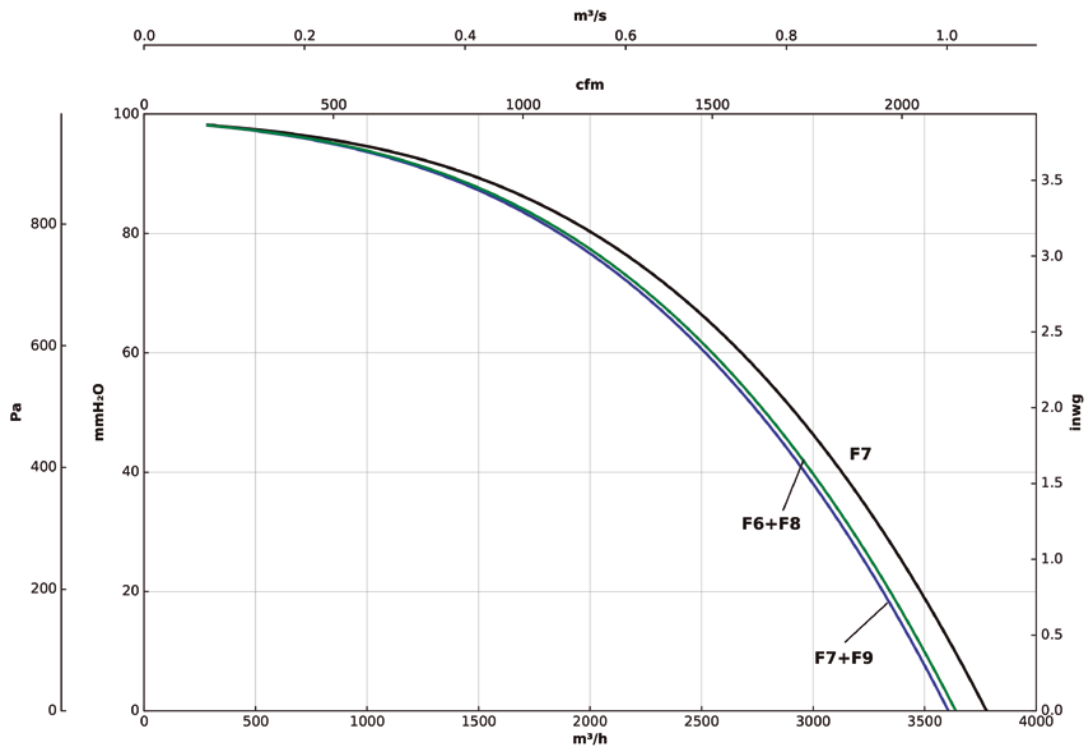


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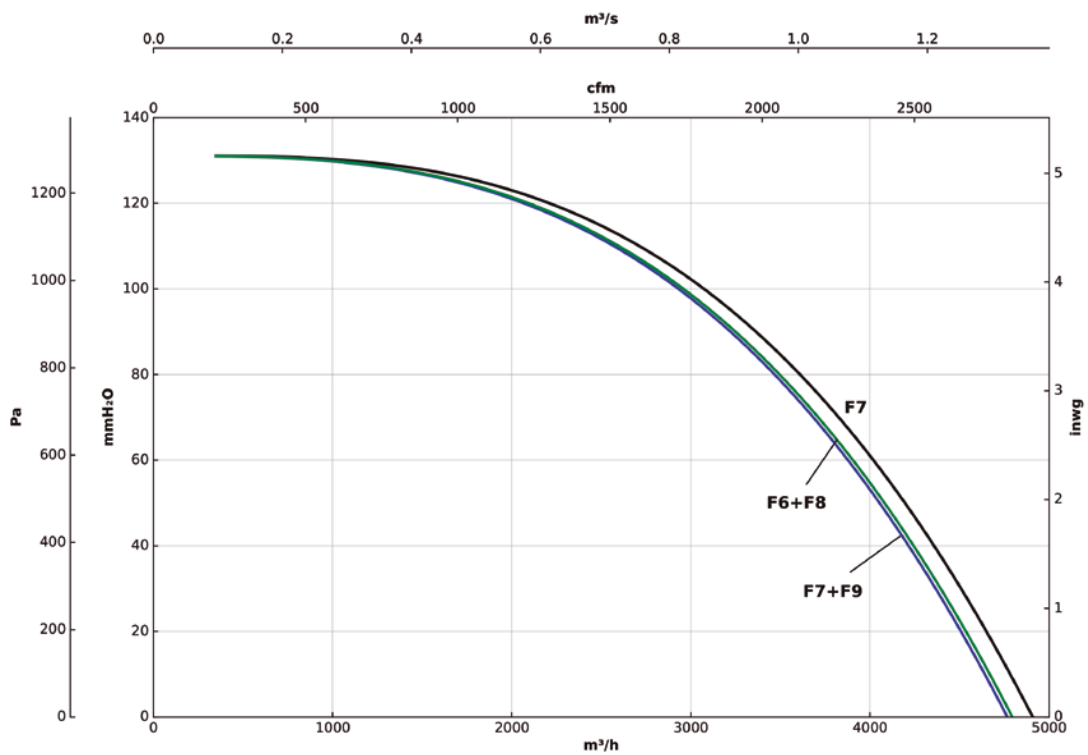
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Static pressure in mmH<sub>2</sub>O, Pa and inwg.

#### RECUP/EC-3300-H



#### RECUP/EC-4500-H



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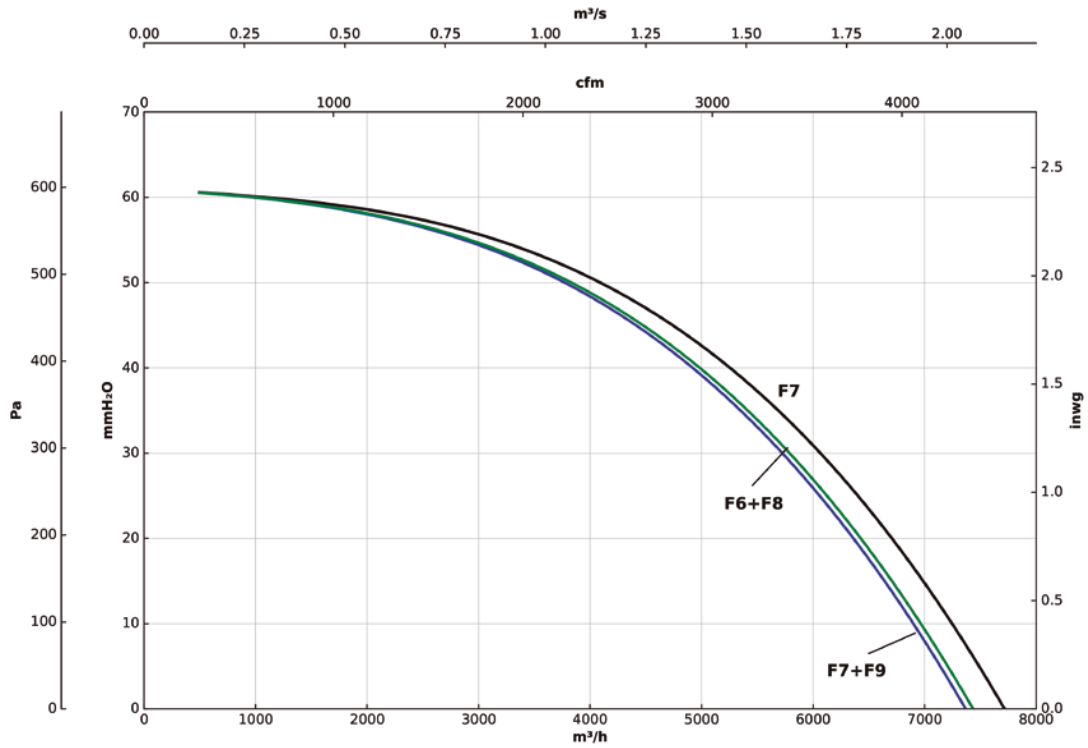
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### Characteristic curves

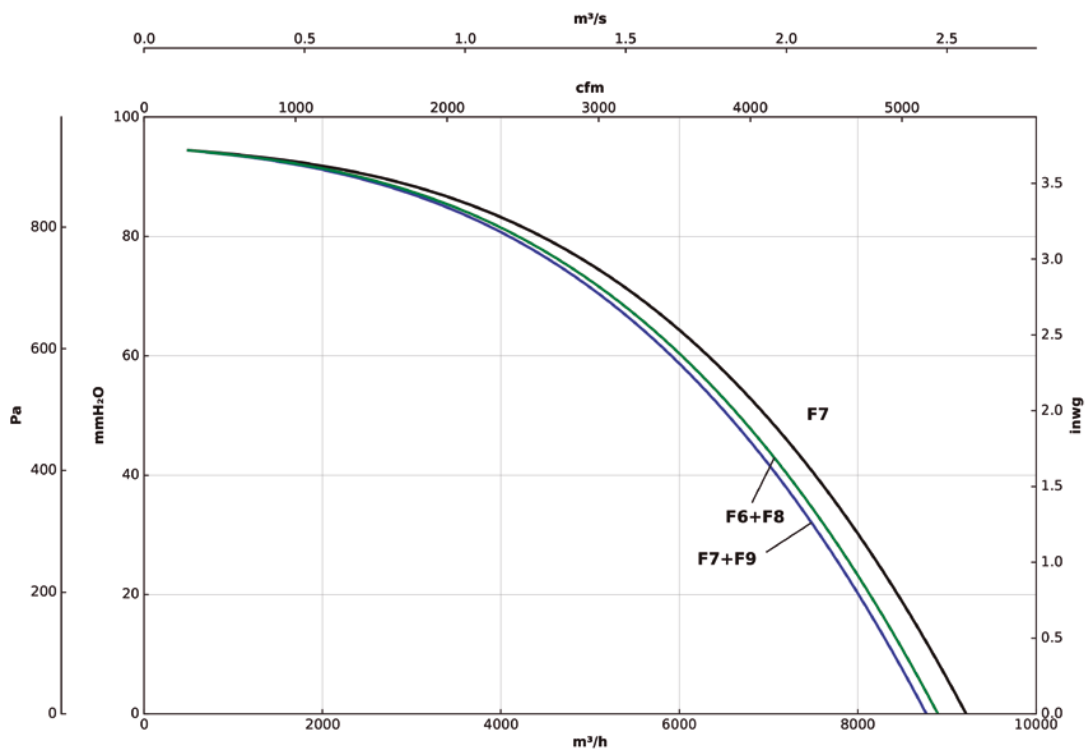
Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Static pressure in mmH<sub>2</sub>O, Pa and inwg.

#### RECUP/EC-6000-H



#### RECUP/EC-8000-H



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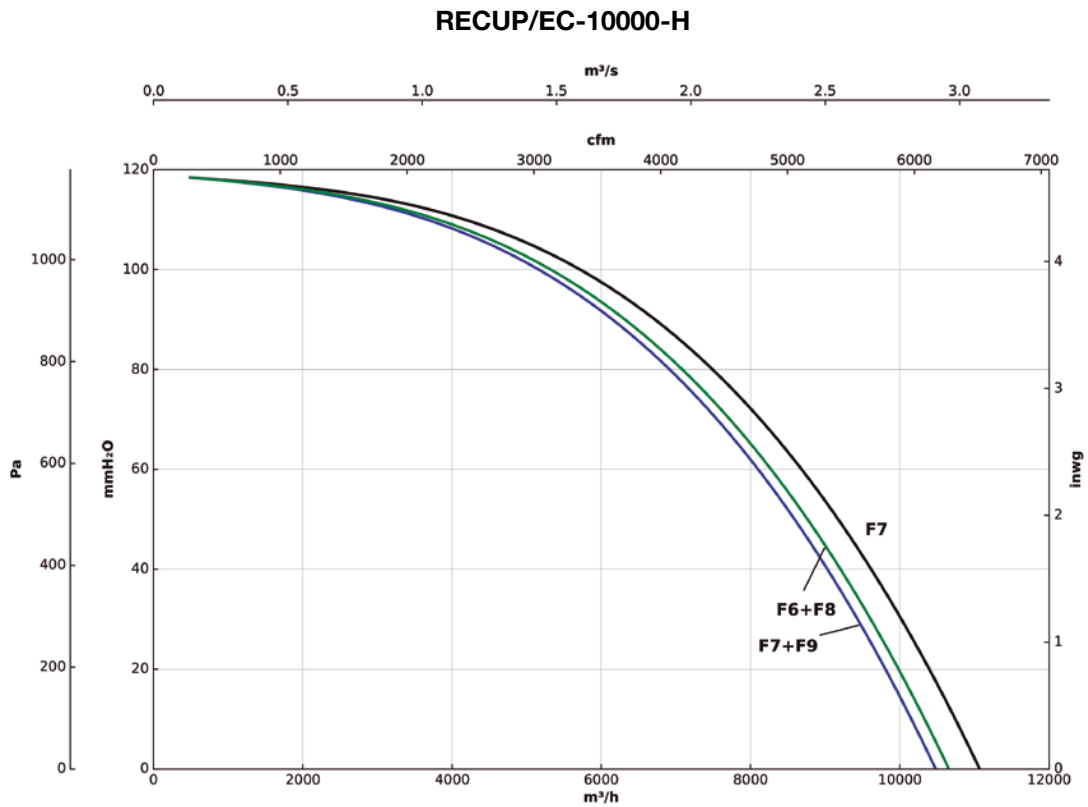
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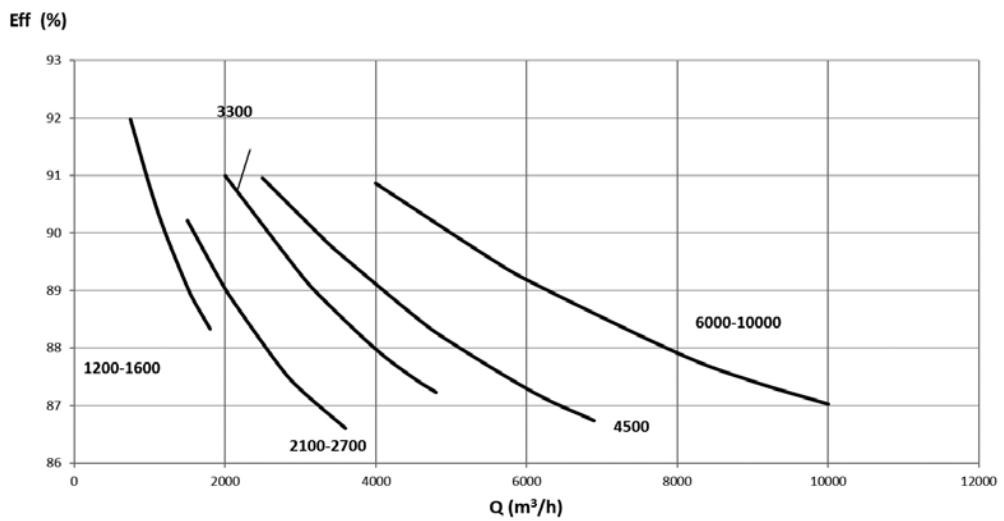
### Characteristic curves

Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.


Static pressure in mmH<sub>2</sub>O, Pa and inwg.



### Efficiency curves



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