

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 (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) | 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



FILTROS



SI-PRESOSTATO

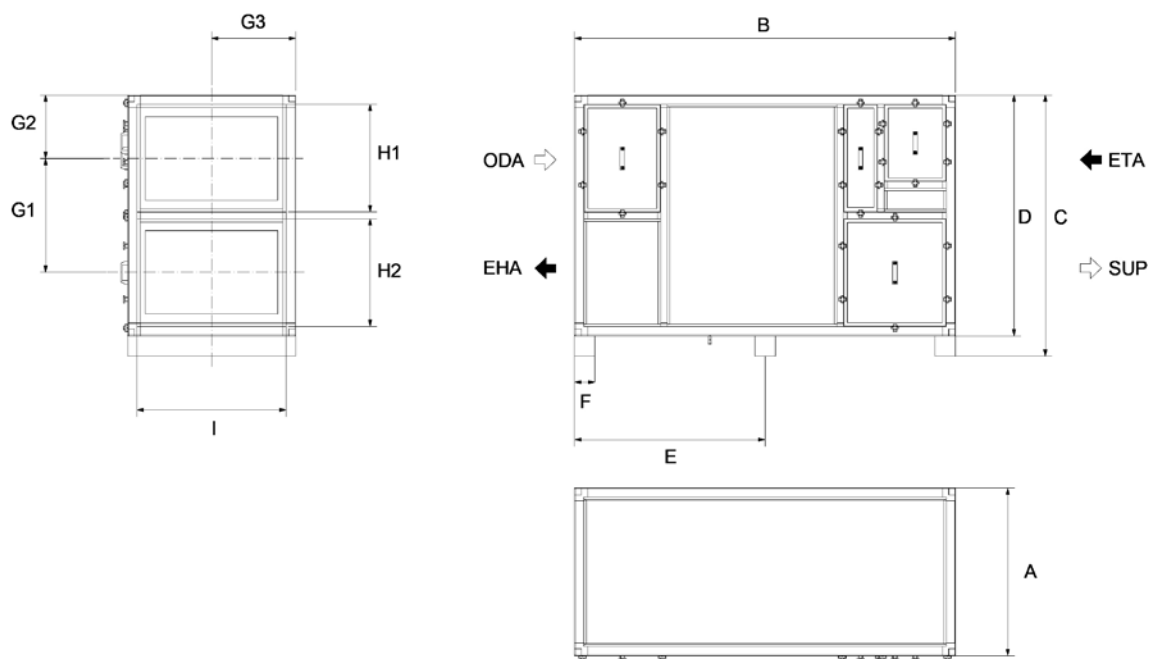


SI-CO2 IND



CG

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 |

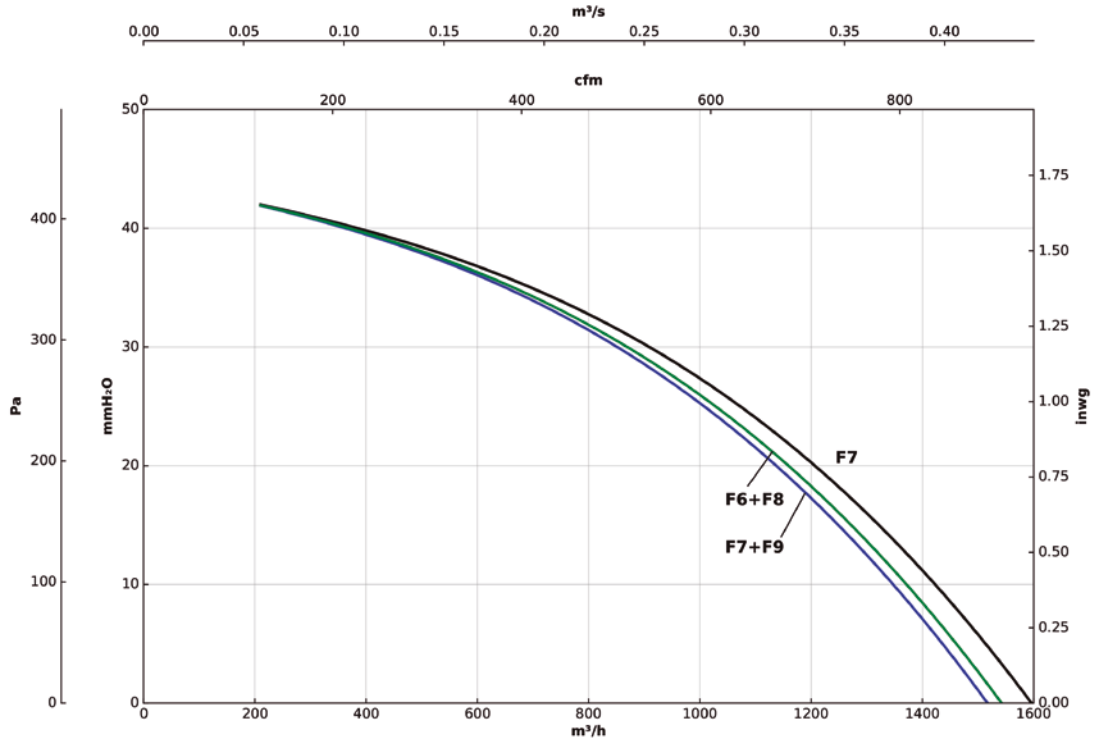
ODA: Fresh outdoor air / SUP: Air impulsion to the premise / EHA: Exit of exhaust air / ETA: Air extraction from premises

Characteristic curves

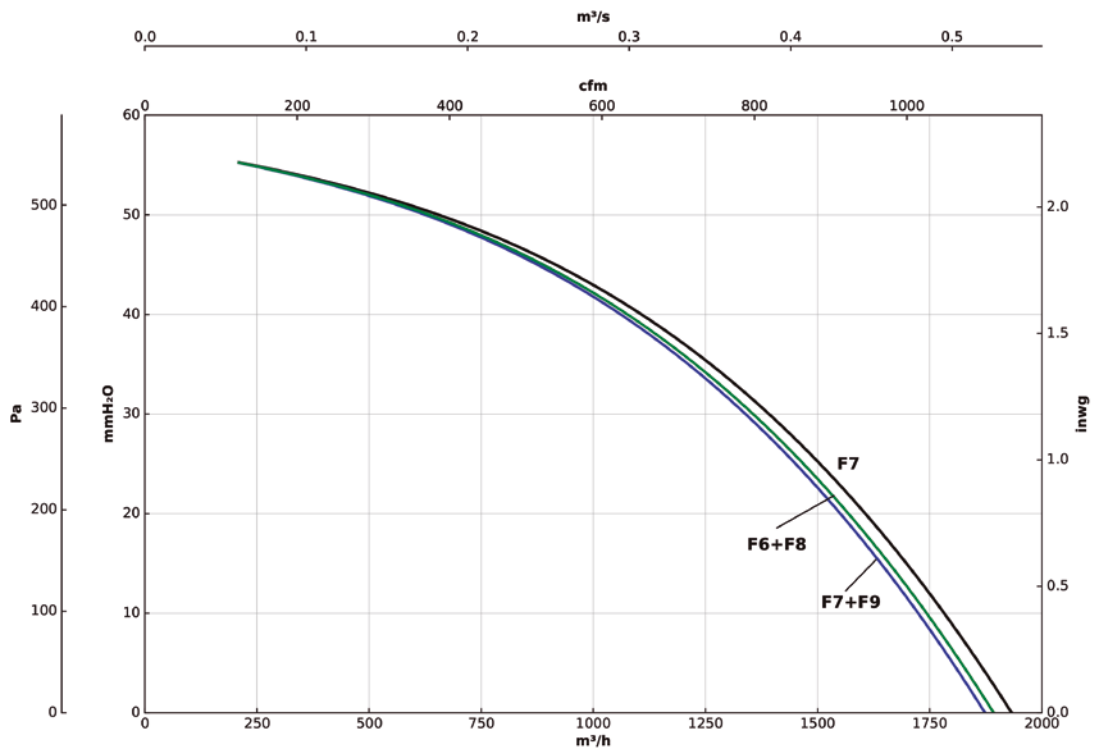
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

RECUP/EC-1200-H



RECUP/EC-1600-H

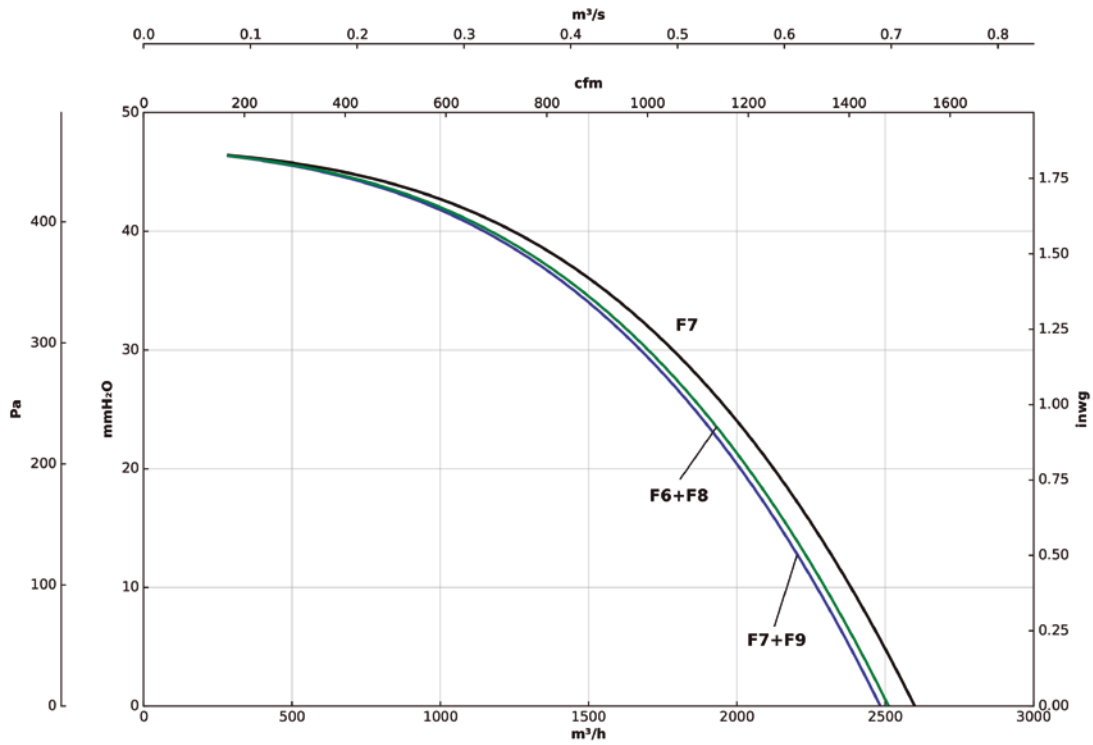


Characteristic curves

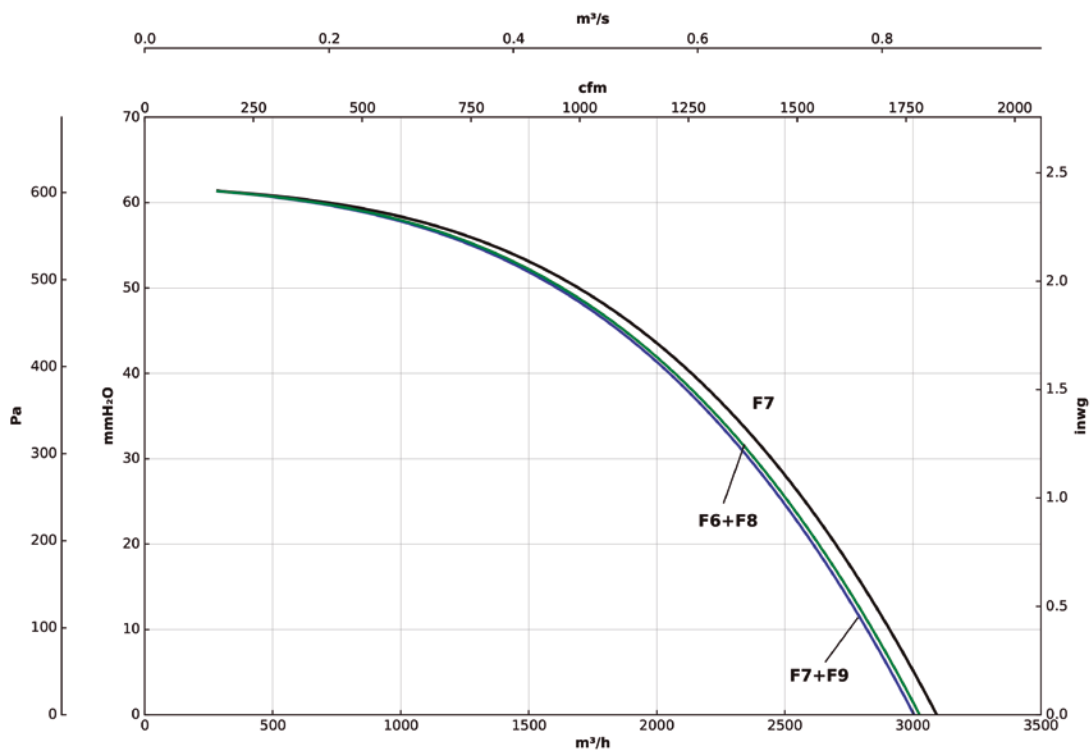
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

RECUP/EC-2100-H



RECUP/EC-2700-H

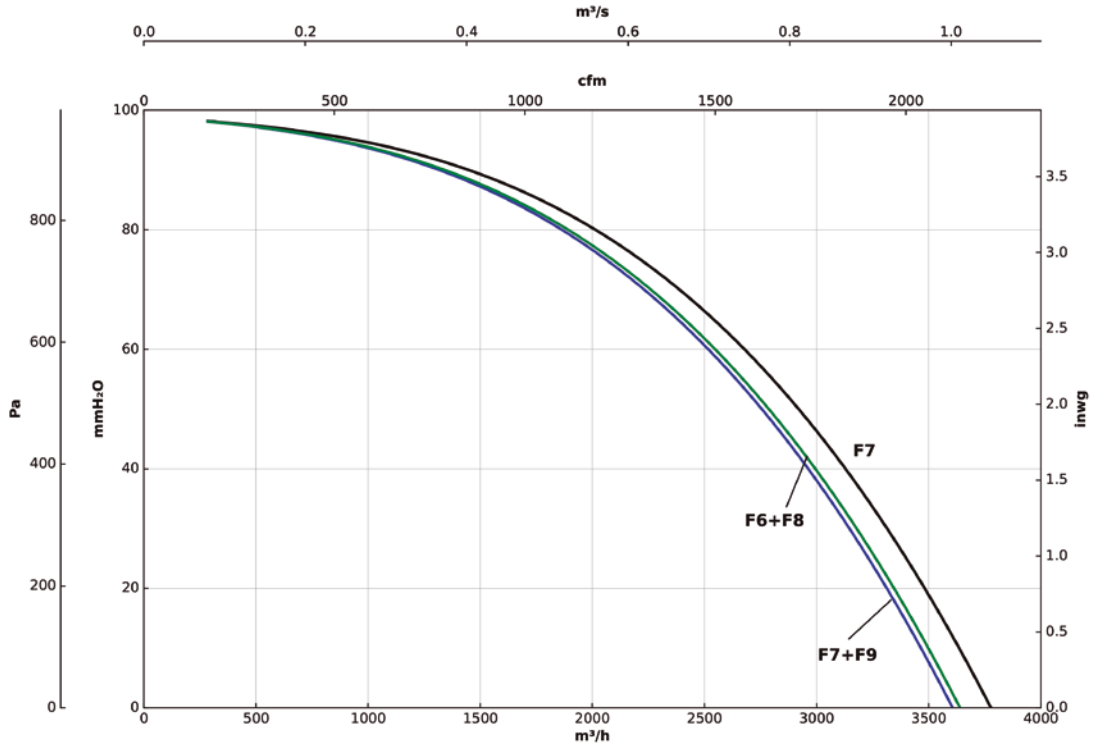


Characteristic curves

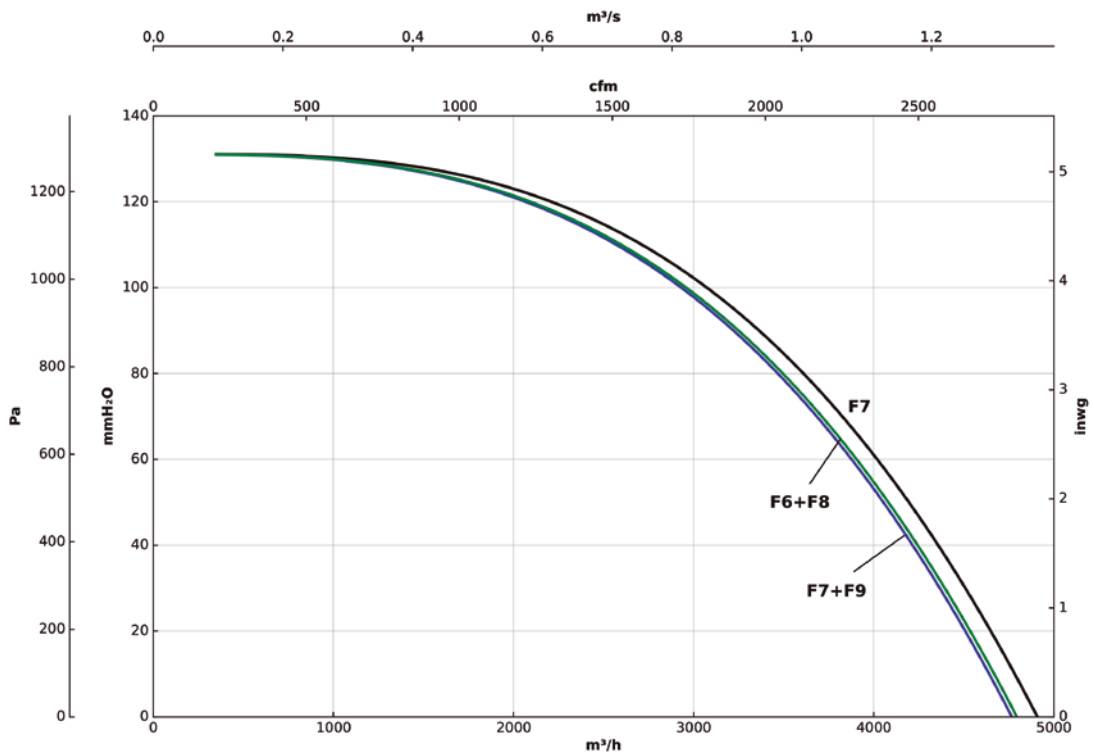
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

RECUP/EC-3300-H



RECUP/EC-4500-H

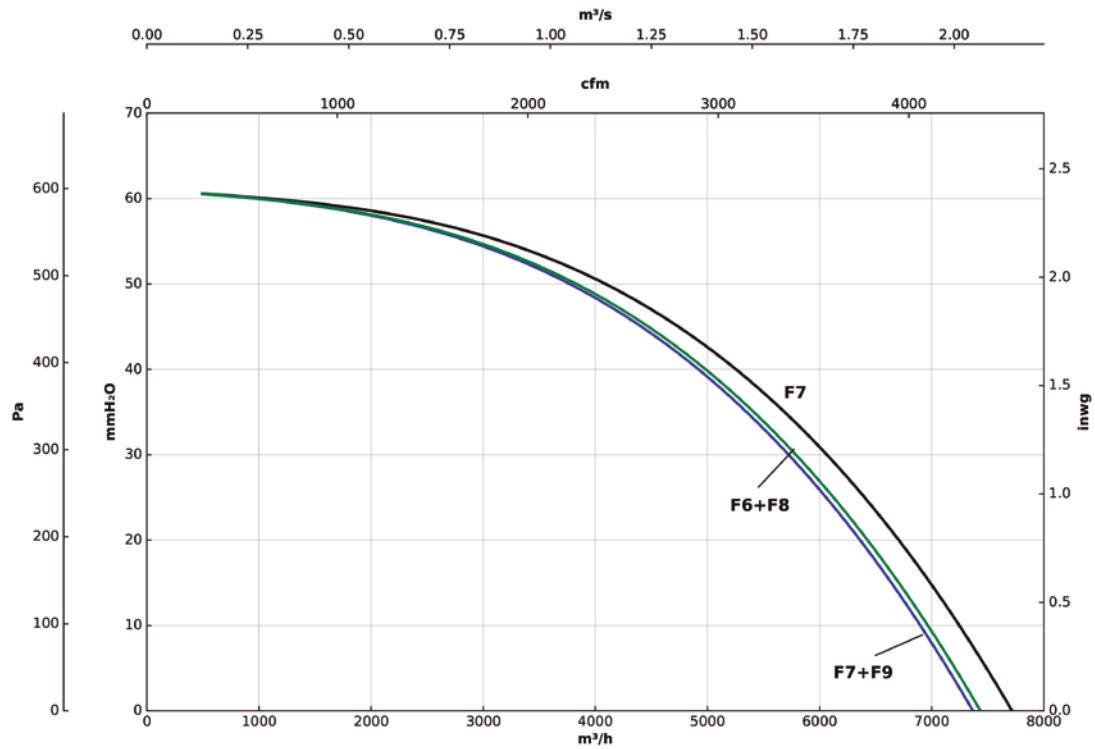


Characteristic curves

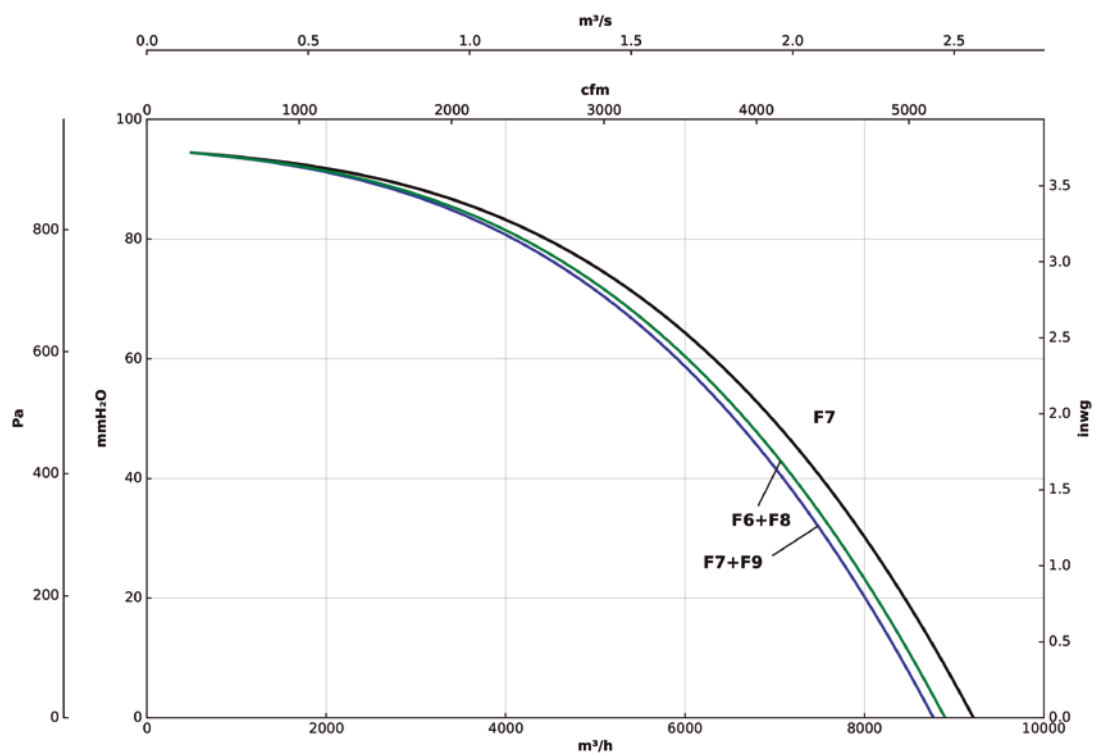
Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

RECUP/EC-6000-H



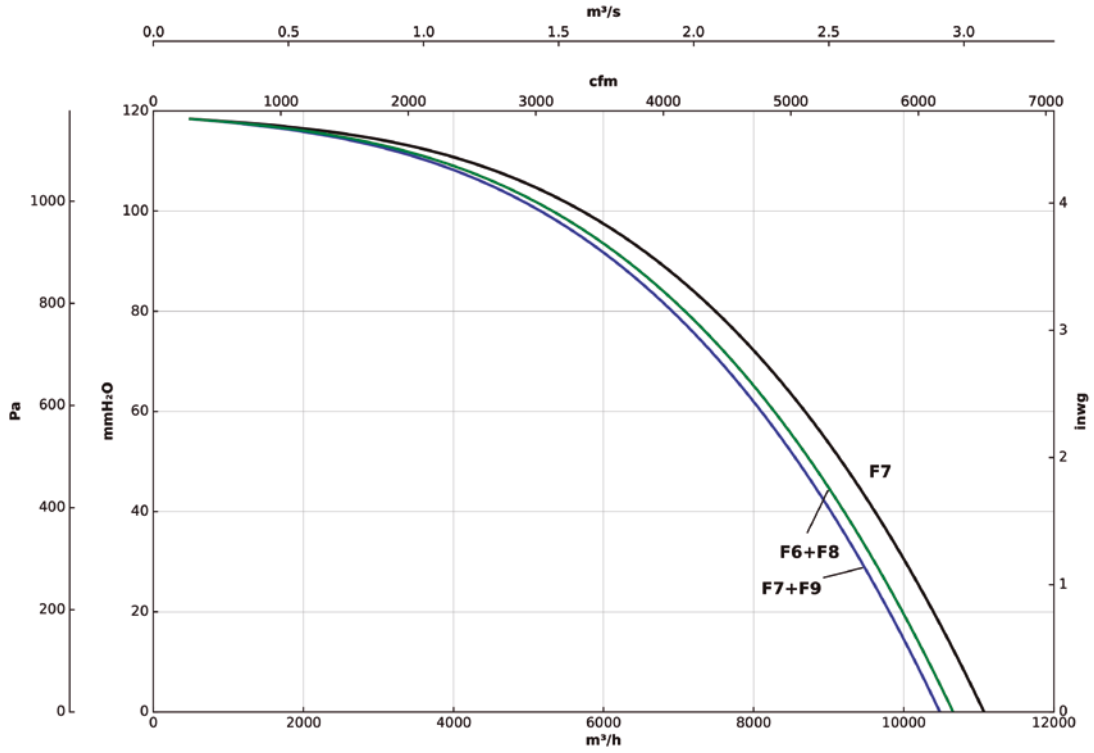
RECUP/EC-8000-H



Characteristic curves

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

RECUP/EC-10000-H



Efficiency curves

