EC TECHNOLOGY

# RECUP/EC

- EC TECHNOLOGY MOTORS
- COUNTERFLOW PLATE HEAT EXCHANGER
- HIGH ENERGY EFFICIENCY
- WITH THERMAL AND ACOUSTIC INSULATION
- WITH INTERCHANGEABLE CONNECTIONS

SODECA®

CE ACCORDING ErP 2018

HIGH EFFICIENCY
HEAT RECOVERY UNITS

# SODECA's business is centred on providing efficient ventilation and indoor air quality solutions

Indoor Air Quality (IAQ) is the quality of the air that we breathe indoors and is governed by many conditions that directly affect our health and well-being. Different factors exist inside buildings that affect the air that we take into our lungs. The indoor humidity and temperature, along with different contaminants that are present internally, are added to harmful elements entering from the outside. Poor natural ventilation coupled with inadequate installation increases the risk of inhaling viruses and bacteria as well as other contaminants that affect our IAQ.

For this reason, SODECA offers ventilation and air treatment solutions that meet the most stringent quality standards and in accordance with current legislation, to ensure the air that we breathe is of the best quality and is safe for our health as well as our environment.

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This catalogue contains just a few of all the options we offer. Please contact us and we will give you the best advice from our experienced and knowledgeable staff.

# **HIGH THERMAL EFFICIENCY** AND INDOOR AIR QUALITY

SODECA continuously improves their building ventilation solutions in order to meet the need to breathing healthy air with comfort and energy savings.

Commercial premises, offices, hospitality venues and communal spaces can now have **the most efficient heat recovery units**. High efficiency heat recovery units offer better indoor air quality (IAQ) and ultimately,health and well-being, as well as important energy savings.

# THE IMPORTANCE OF **BREATHING HEALTHY AIR**

Air contamination can have significant consequences on people's health and productivity.
However, the solutions we implement in indoor spaces must be chosen correctly.

Ideal indoor air quality is not only a source of wellbeing, it is also an opportunity to optimise resources. People are increasingly spending more time indoors. A building with healthy air equates to well-being as well as efficiency. Breathing healthy air has never been so important as it is today. Investing in high efficiency solutions that transform indoor air into healthy air guarantees peace of mind.

# ENERGY EFFICIENCY
# **INVESTMENT IN SUSTAINABILITY AND HEALTH**

Renewing indoor air and saving energy. The aim of Directive 2010/31/EU is to create buildings that are sustainable as well as environmentally friendly.

Heat recovery units are ventilation systems that renew and condition inside air, while saving energy in the process. These units constitute the best solution to achieve good quality indoor air efficiently. An essential step towards a more sustainable world with healthier air.

# HEAT RECOVERY UNITS

To achieve energy savings and sustainability objectives, SODECA uses **high efficiency equipment**.

The efficiency of the filters used in our RECUP/EC recovery units, in accordance with current legislation, is shown in the table below.

| | ISO 16890 | | | |
|---|---|---|---|---|
| **Filter** | **$ePM_1$** | **$ePM_{2.5}$** | **$ePM_{10}$** | **ISO COARSE** |
| **G4** | - | - | - | > 60% |
| **M6** | < 40% | 50-60% | > 60% | - |
| **F7** | 50-70% | > 65% | > 80% | - |
| **F8** | 70-80% | > 80% | > 90% | - |
| **F9** | > 80% | > 90% | > 95% | - |

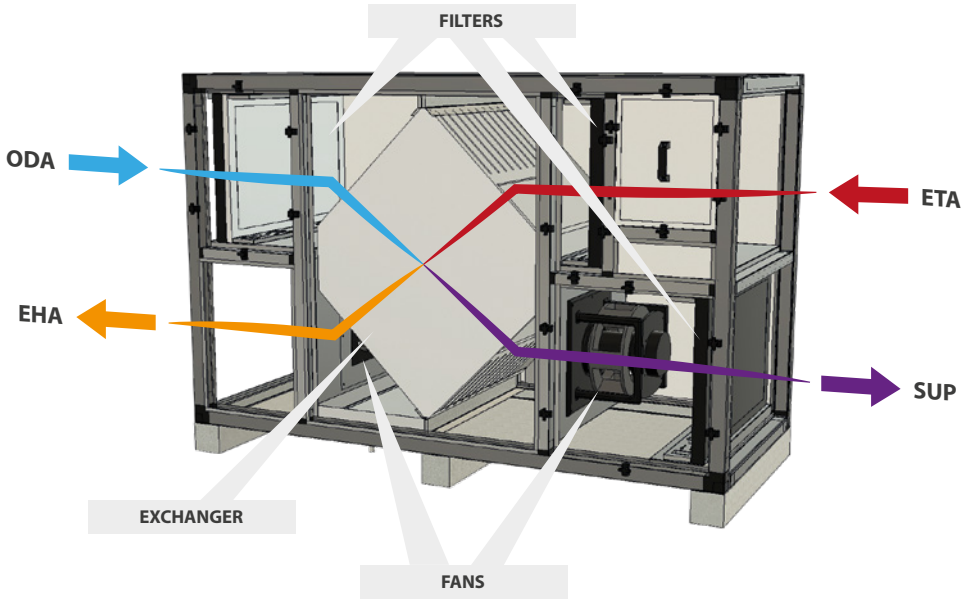
**Am: Average performance against synthetic dust*
**Em: Average efficacy against particles measuring 0.4 µm*

The versatility of RECUP/EC units makes it possible to install different filtration stages in the same unit, which in turn enables compliance with regulations in force in different countries.

# HEAT RECOVERY UNITS

Heat recovery units work by means of a combination of two centrifugal fans with low noise levels. One fan extracts stale air from inside the premises and discharges it outside. The other supplies fresh outdoor air to the interior of the premises.

Both circuits cross each other in a heat exchanger but without mixing, where the heat from the discharged air heats the fresh outdoor air.




**ODA**: Fresh outdoor air / **SUP**: Air supplied into the premises / **EHA**: Exit of exhaust air / **ETA**: Air extracted from premises

## PEACE OF MIND
GUARANTEED

The greater the thermal efficiency of the exchanger, the less the need to supply additional air conditioning. The RECUP/EC BS and RECUP/EC H heat recovery units incorporate a counterflow plate heat exchanger (Eurovent certificate), EC technology motors and a thermal by-pass. Peace of mind is guaranteed by its high efficiency.

## OUR
## OBJECTIVES

- Energy saving and the subsequent reduction in the use of natural resources.
- Energy efficiency improvement.
- Reduction in noise pollution.
- Environmental protection.
- Reduction in $CO_2$ emissions.

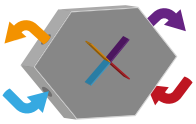
## Energy efficiency

We recommend installing heat recovery units in any air conditioned premise to obtain important energy savings.

High efficiency motors with proportional control capacities.

## HEAT **EXCHANGER**

The heat exchanger component in the recovery unit transfers heat from the exhaust air extraction circuit to the external clean air supply circuit. The greater the thermal efficiency of the exchanger, the less the need to supply additional air conditioning.



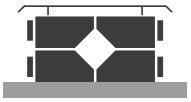
**Counterflow heat exchanger**

85-90% thermal efficiency
With no leaks between air circuits

*Heat exchangers may be the heat-sensitive or the enthalpy type. Enthalpy heat exchangers recover heat and moisture, which increases their efficiency, but they require regular cleaning to ensure safe operation.*

## TYPES OF **INSTALLATION**

**In false ceiling**
Low-profile equipment with access to components through the side or base.



**On the roof**
Equipment for outdoor operation, with lateral access to components. They may require accessories such as roof support pads, rain shields or other elements.

**In technical room**
Compact equipment with lateral access to components.

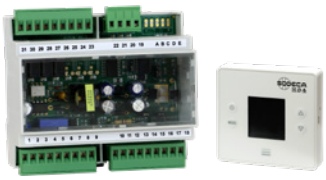
## THERMAL **BY-PASS**

*The BY-PASS device diverts the air flow and prevents it from passing through the heat recovery unit and the thermal exchange of the unit.*

## THE BEST
## **THERMAL INSULATIOIN**

For some time now, SODECA has endorsed the international goal of improving the energy efficiency of buildings. For this reason, the high efficiency recovery models listed in this catalogue (RECUP/EC BS and RECUP/EC H) incorporate **XPS panels with a thermal bridge break**, to provide a better insulation.

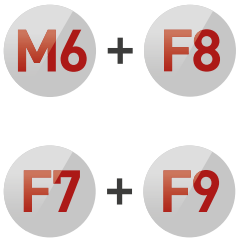
## AUTOMATIC
## **CONTROL**



In heat recovery units, automatic control may offer a wide range of functions, depending on the equipment series or models. The most important are:

- Programmable Timer.
- Flow control based on $CO_2$ levels
- Connection to a centralised building management control system (BMS), normally using the MODBUS RTU protocol.

## **FILTERS**




Filters retain particles that affect air quality and they must be replaced after period of time. The load loss of the filters gradually increases.

Some pieces of equipment have load loss control elements aimed at optimising the filter replacement process.

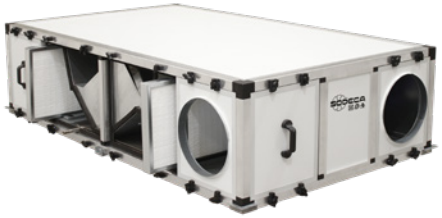
- Pressure sensors: Small sensors that enable load loss detection in the filtration stages.
- Pressure switch: Pressure switch that switches an electric circuit on and off based on the filter load loss reading.

Depending on its configuration, the equipment may have:

- A pre-filter stage to guarantee the correct operation of the equipment. Depending on the system requirements, the filter grades may be: M6+F8.
- Final filter stages to ensure the quality of the air supplied to the premises, where the filter grades may be: F7+F9 or even HEPA, according to the IDA/ODA category.

# RECUP/EC BS

***High efficiency heat recovery units with counterflow plate heat exchangers, automatic control and EC technology motors, for installation in false ceilings***



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 a 25 mm thick thermal and acoustic insulation; exterior made of prefinished sheet.
- XPS type panels with thermal bridge break.
- High efficiency filtration:
  - M6+F8
  - F7+F9
- 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 ($CO_2$ 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.
- Low profile for installation in false ceilings.
- Interchangeable connections for more versatility.

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

## *Order code*

| ***RECUP/EC*** | — | ***800*** | — | ***BS*** | — | ***M6+F8*** |
|---|---|---|---|---|---|---|
| RECUP/EC: High efficiency heat recovery units with counterflow plate heat exchangers, automatic control and EC technology motors | | Size | | Horizontal ducts and installation in false ceilings | | M6+F8 filters<br>F7+F9 filters |

## *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 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 |

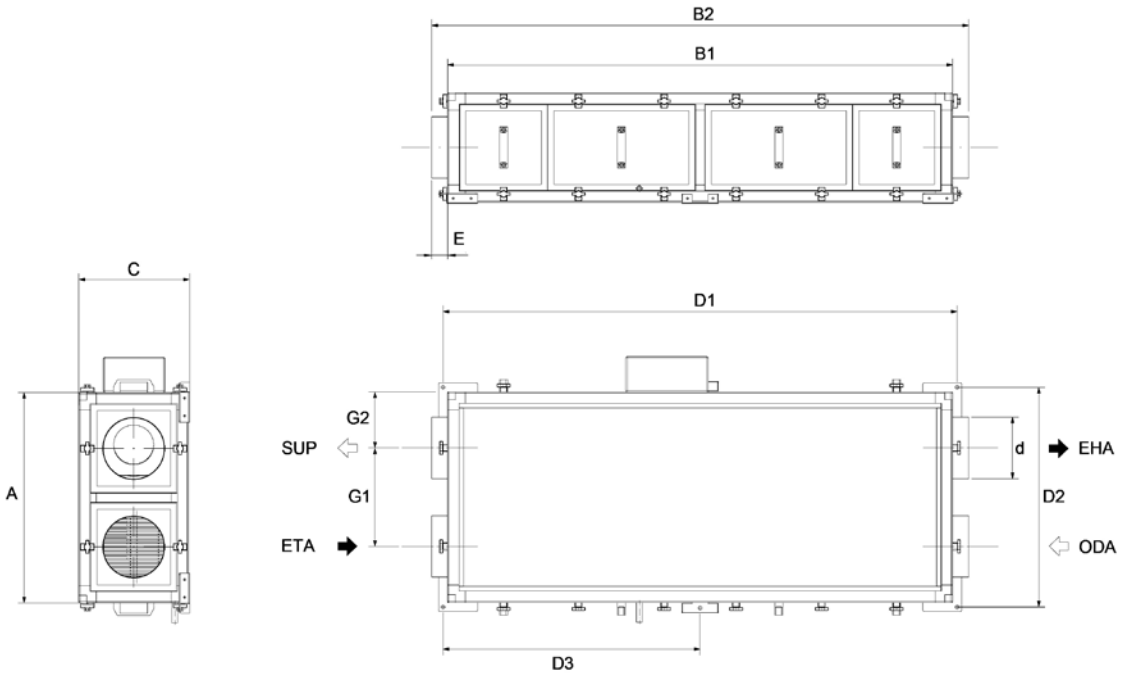
## *Technical characteristics*

| Model | Nominal flow rate | Recovery unit efficiency | Available pressure | Nominal power | Nominal current | Voltage | Irradiated sound level at 5 m | Weight | According ErP |
|---|---|---|---|---|---|---|---|---|---|
| | ($m^3$/h) | (%) | (Pa) | (kW) | (A) | (V) | dB(A) | (kg) | |
| RECUP/EC-800-BS | 800 | 86.5 | 70 | 0.39 | 2.91 | 1/230 | 45 | 78 | 2018 |
| RECUP/EC-1200-BS | 1200 | 86.8 | 70 | 0.32 | 1.16 | 1/230 | 34 | 105 | 2018 |
| RECUP/EC-1600-BS | 1600 | 86.2 | 100 | 0.53 | 2.11 | 1/230 | 40 | 178 | 2018 |
| RECUP/EC-2100-BS | 2100 | 88.0 | 100 | 0.76 | 3.14 | 1/230 | 43 | 216 | 2018 |
| RECUP/EC-2700-BS | 2700 | 86.9 | 100 | 1.23 | 5.17 | 1/230 | 50 | 216 | 2018 |

## *Erp. (Energy Related Products)*

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

## *Dimensions mm*



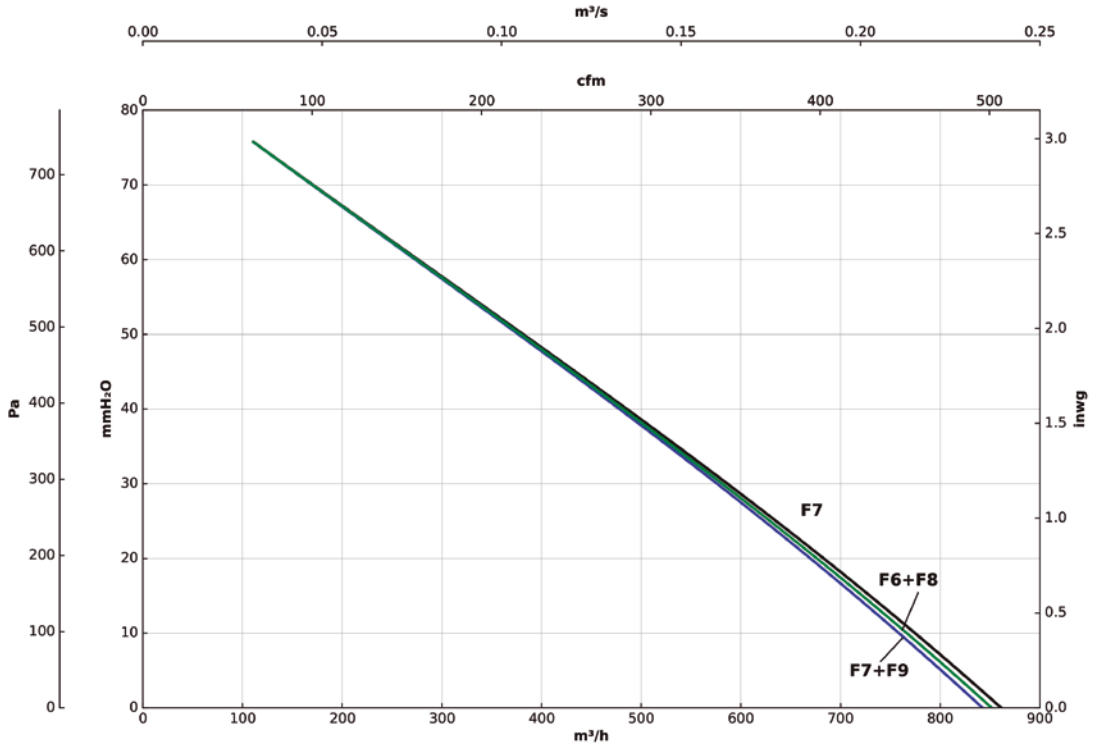

| Model | A | B1 | B2 | C | D1 | D2 | D3 | E | G1 | G2 | d |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RECUP/EC-800-BS | 684 | 1644 | 1694 | 357 | 1664 | 704 | 832 | 25 | 320 | 182 | 200 |
| RECUP/EC-1200-BS | 1124 | 1890 | 1940 | 480 | 1910 | 1144 | 955 | 25 | 695 | 214 | 315 |
| RECUP/EC-1600-BS | 1250 | 1970 | 2020 | 480 | 1990 | 1270 | 995 | 25 | 781 | 235 | 355 |
| RECUP/EC-2100-BS | 1250 | 2198 | 2248 | 620 | 2218 | 1270 | 1109 | 25 | 736 | 257 | 400 |
| RECUP/EC-2700-BS | 1250 | 2198 | 2248 | 620 | 2218 | 1270 | 1109 | 25 | 736 | 257 | 400 |

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

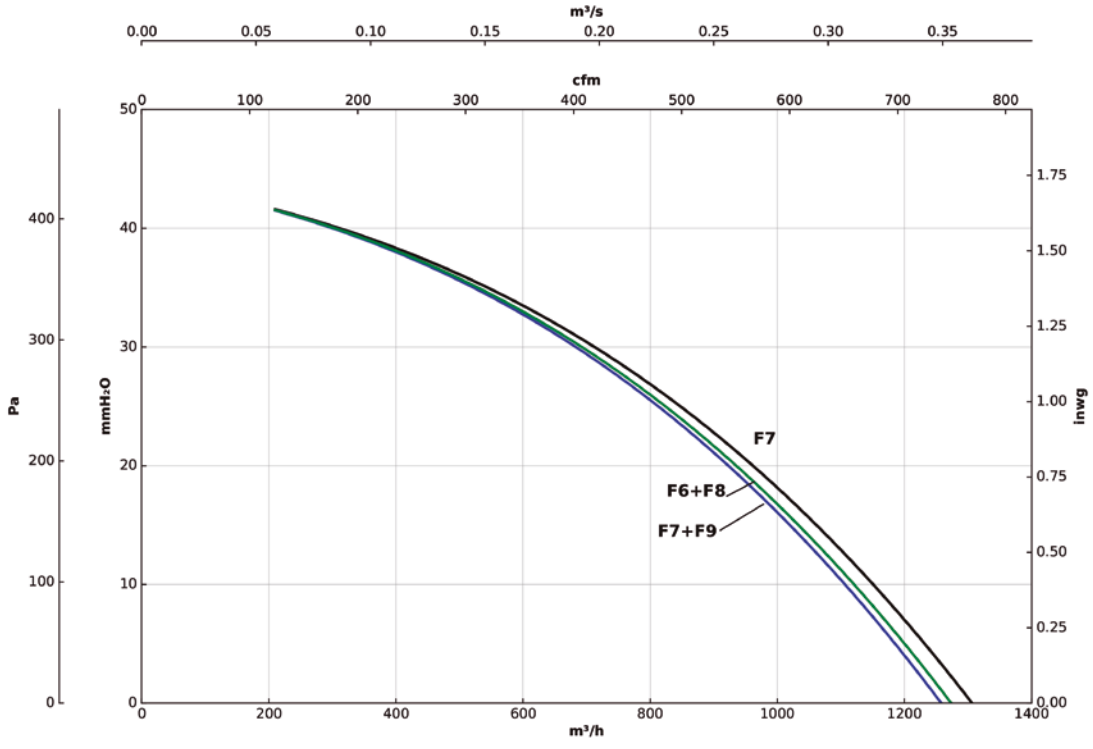
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

### RECUP/EC-800-BS



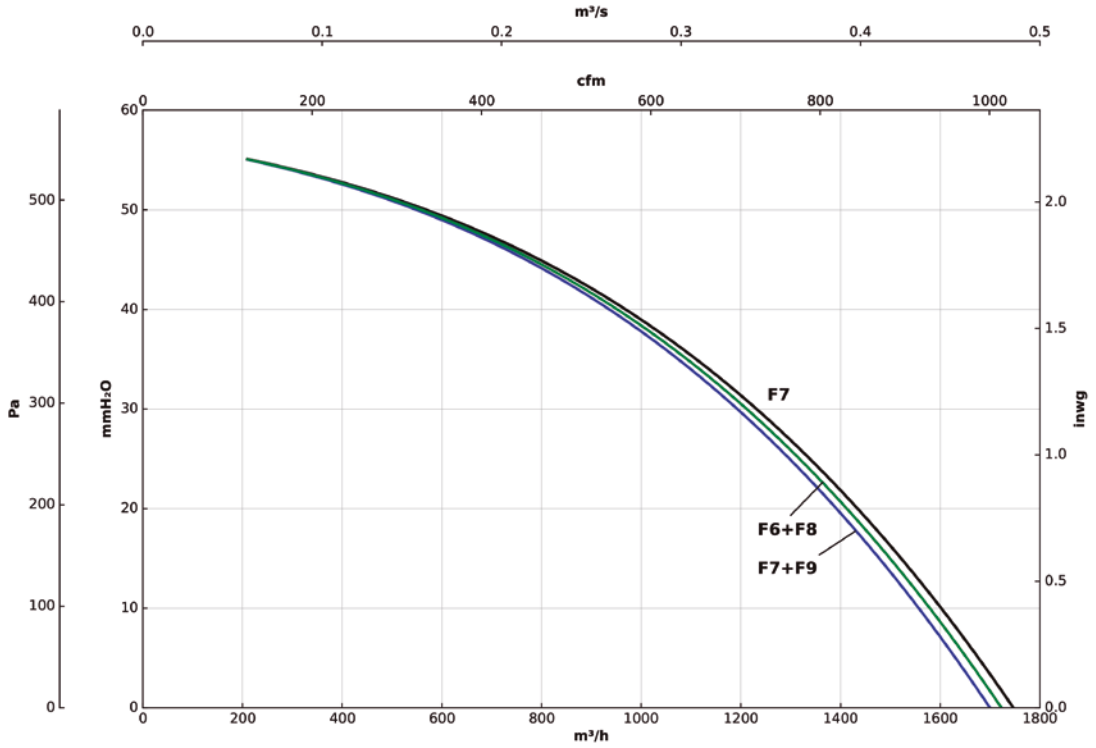

### RECUP/EC-1200-BS



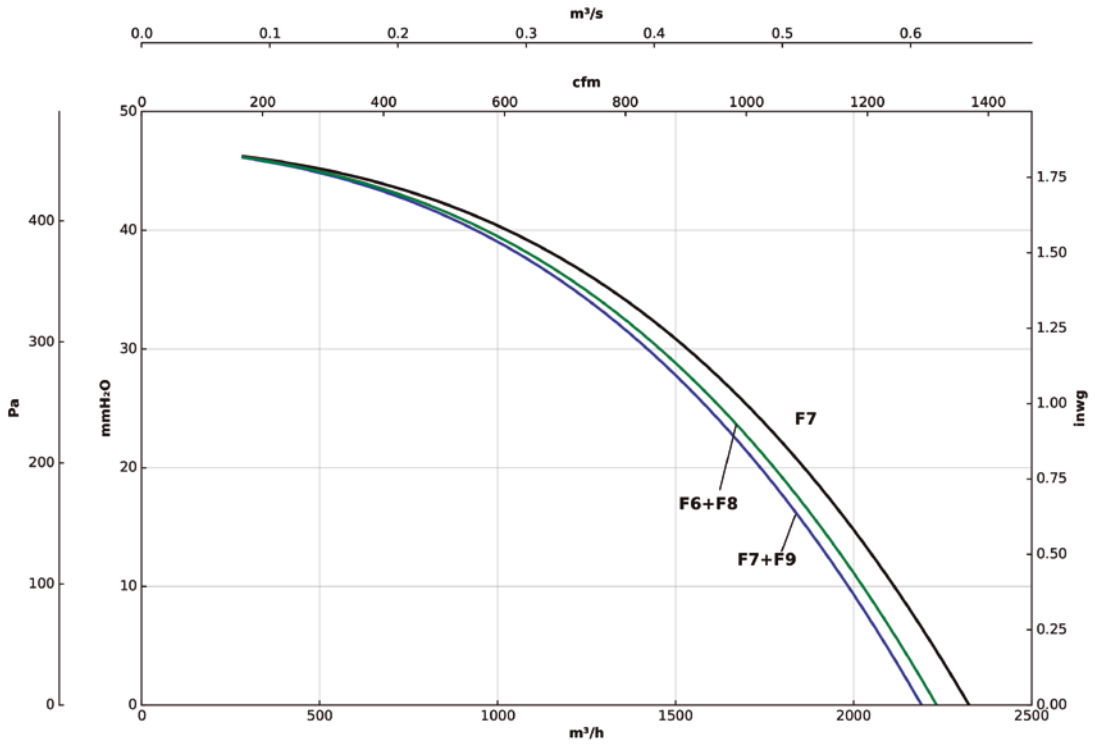
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

### RECUP/EC-1600-BS



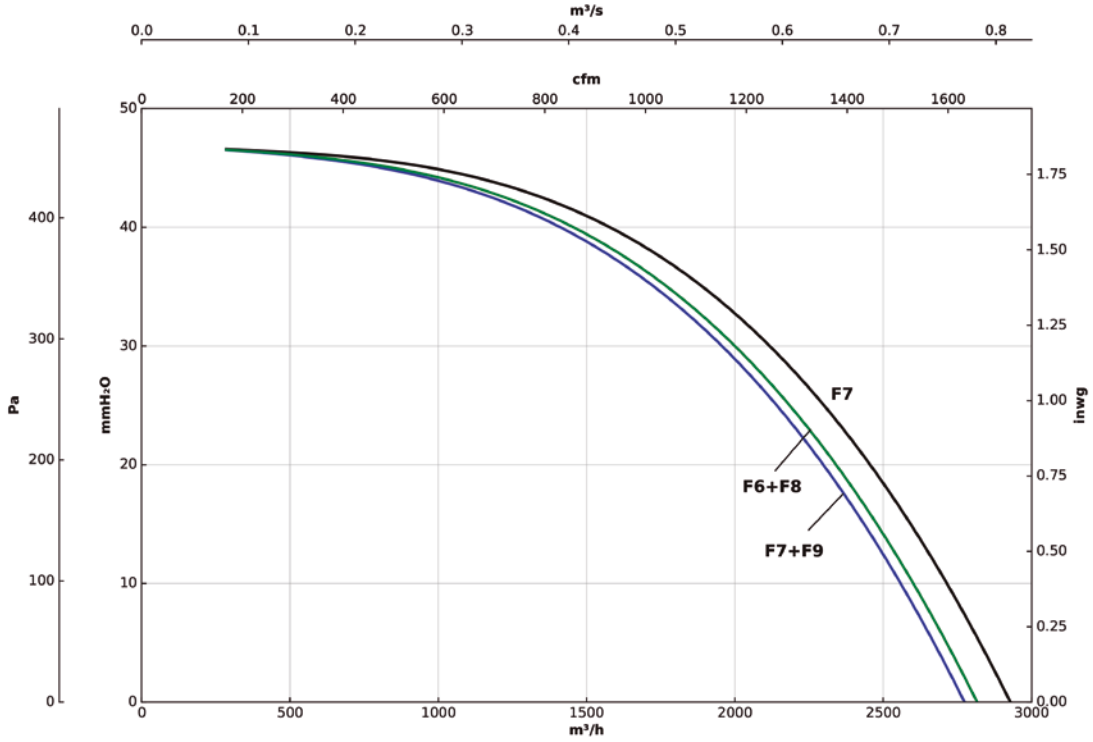

### RECUP/EC-2100-BS



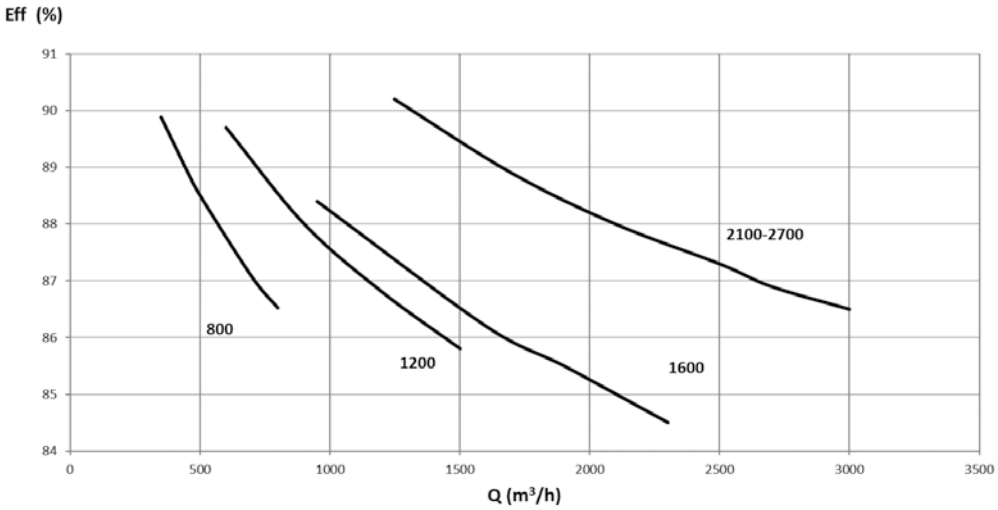
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

**RECUP/EC-2700-BS**




## *Efficiency curves*




## *Accessories*

FILTERS

TEJ

PRESSURE SWITCH

SI-CO2 IND

GERMICIDAL CHAMBER

# 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 ($CO_2$ 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*

| ***RECUP/EC*** | — | ***1200*** | — | ***H*** | — | ***M6+F8*** |
|---|---|---|---|---|---|---|
| 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<br>F7+F9 filters |

## *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 |

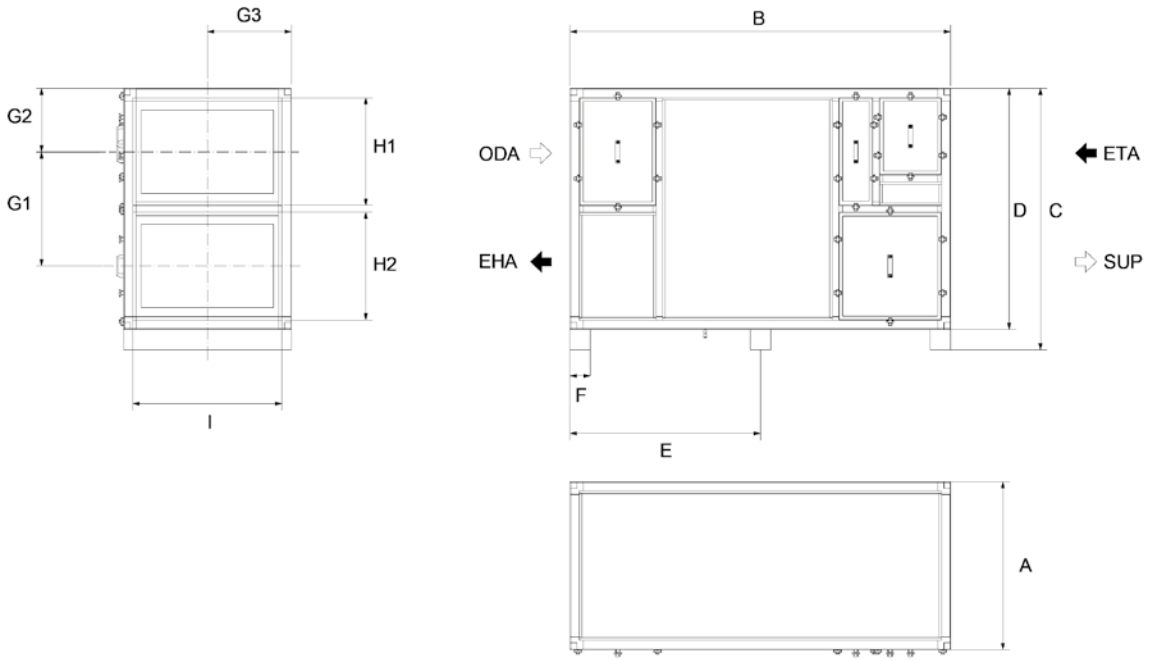
## *Technical characteristics*

| Model | Nominal flow rate | Recovery unit efficiency | Available pressure | Nominal power | Nominal current | Voltage | Irradiated sound level at 5 m | Weight | According ErP |
|---|---|---|---|---|---|---|---|---|---|
| | ($m^3/h$) | (%) | (Pa) | (kW) | (A) | (V) | dB(A) | (kg) | |
| 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.

## *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

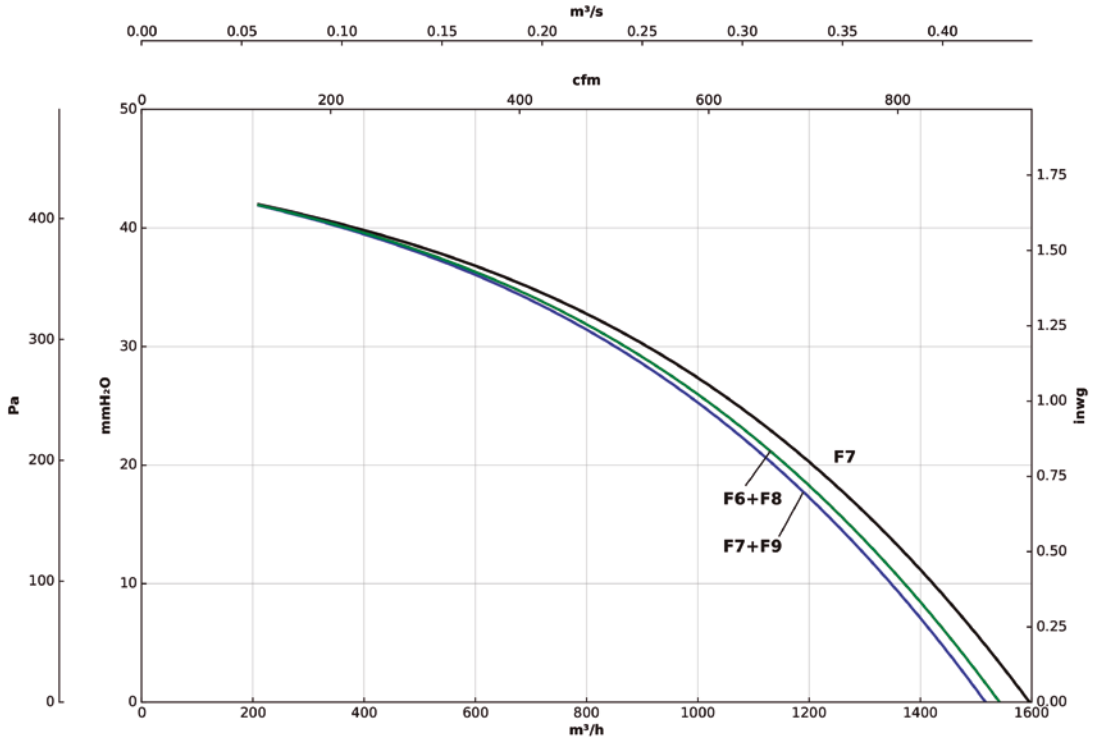
SI-CO2 IND

GERMICIDAL CHAMBER

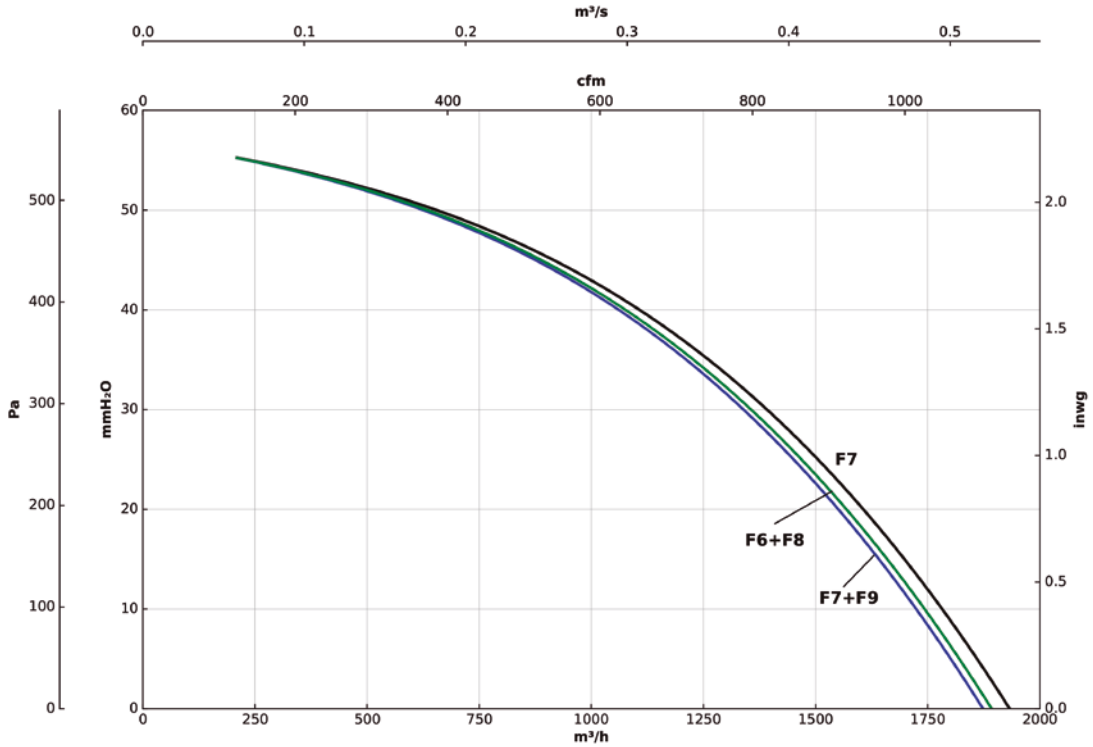
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

### RECUP/EC-1200-H



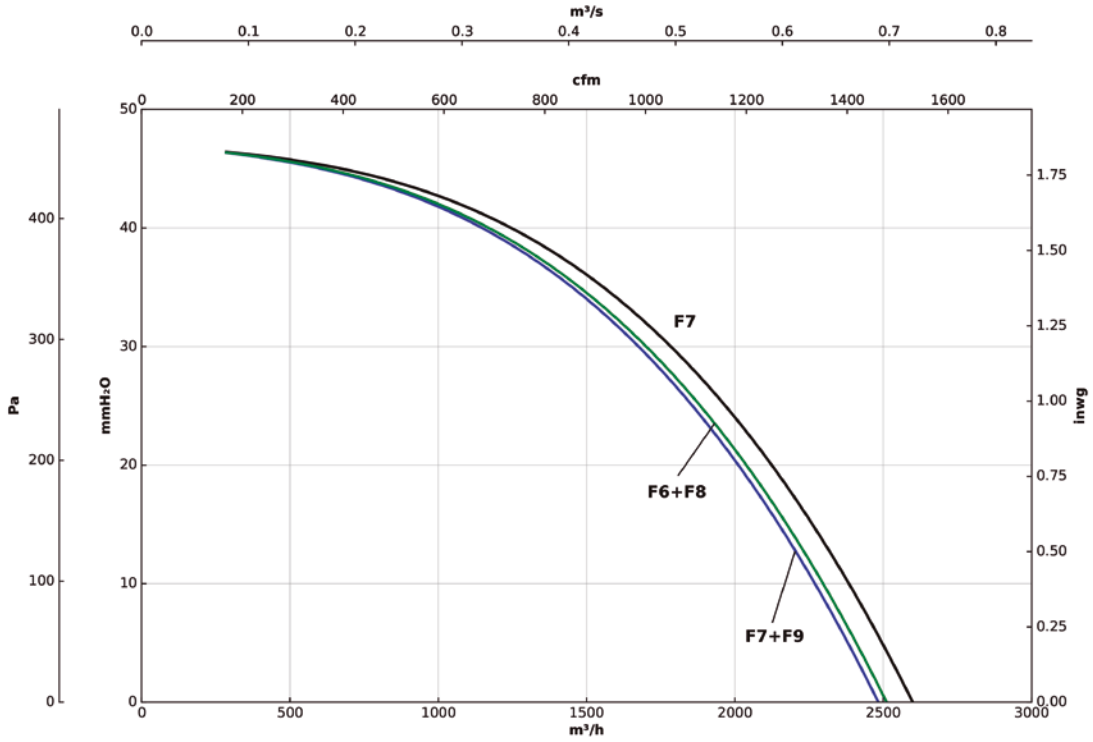

### RECUP/EC-1600-H



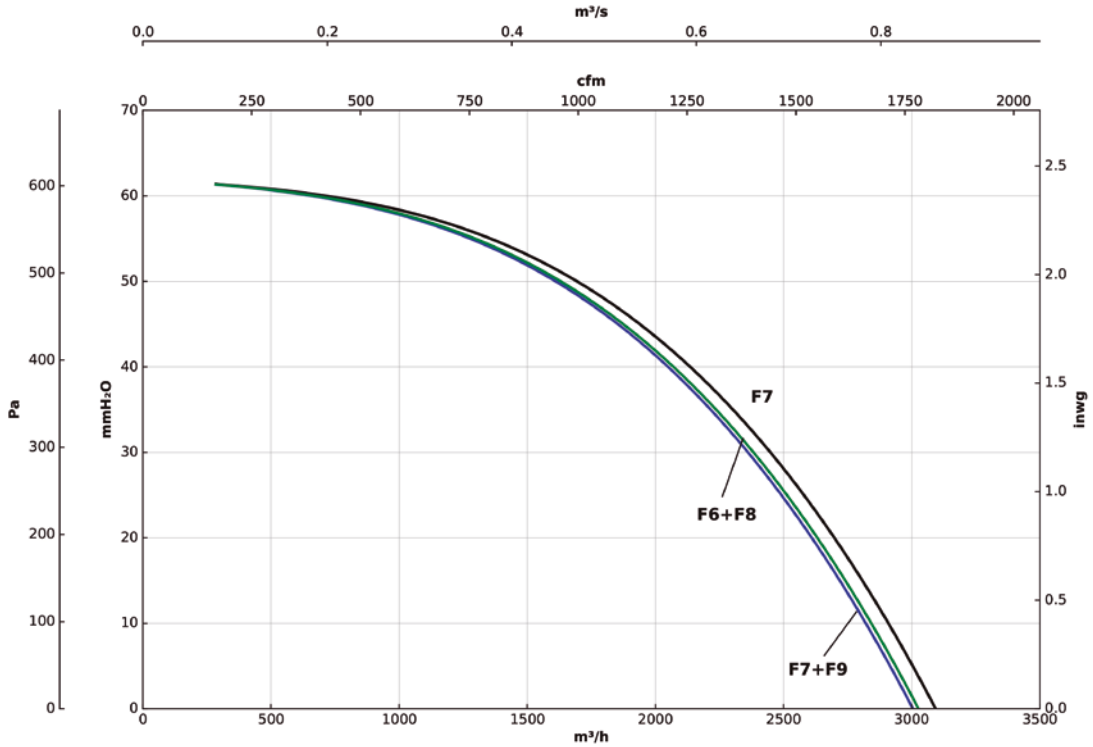
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

### RECUP/EC-2100-H



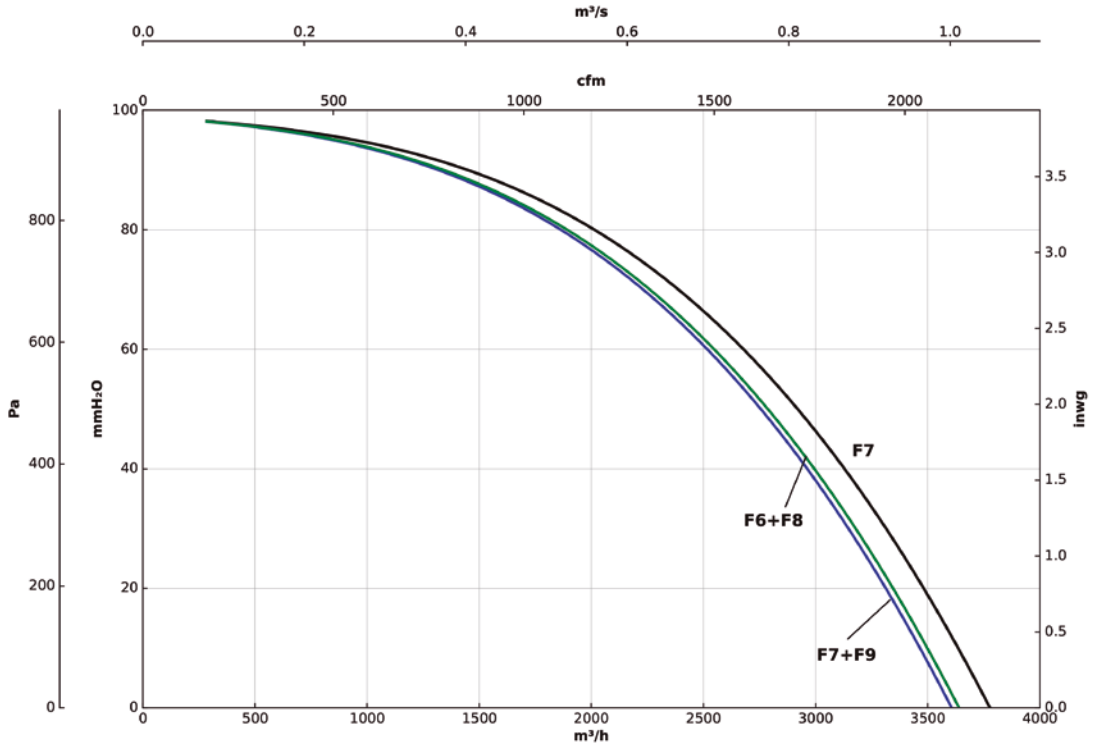

### RECUP/EC-2700-H



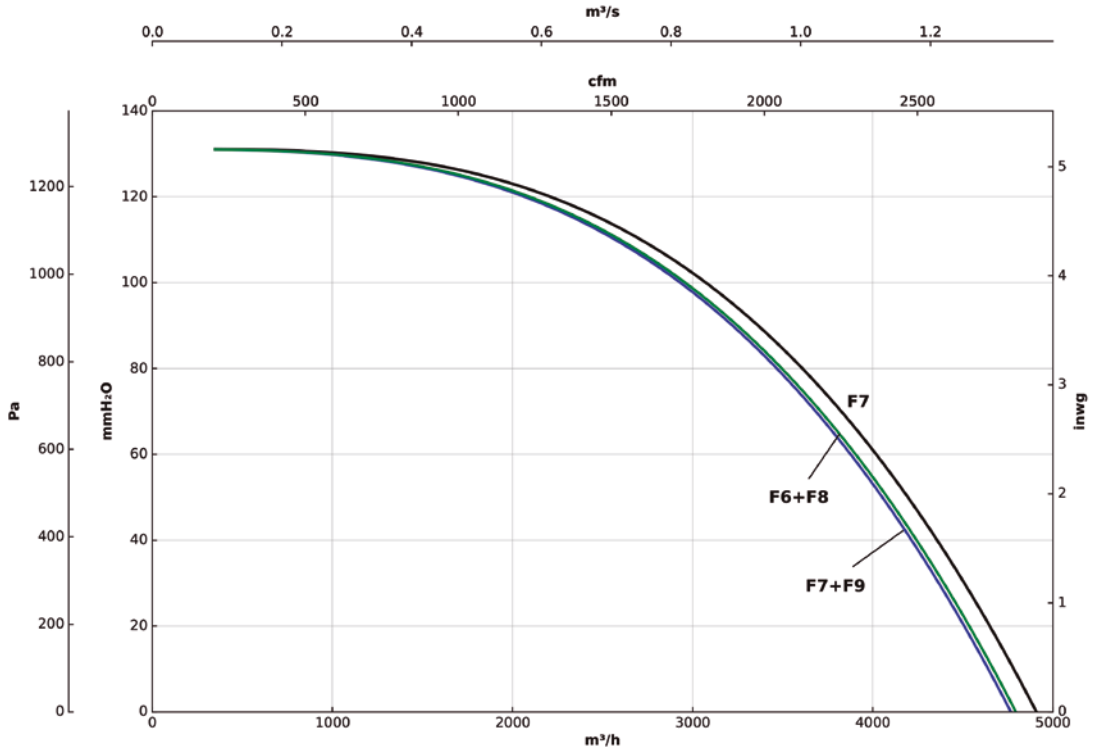
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

### RECUP/EC-3300-H



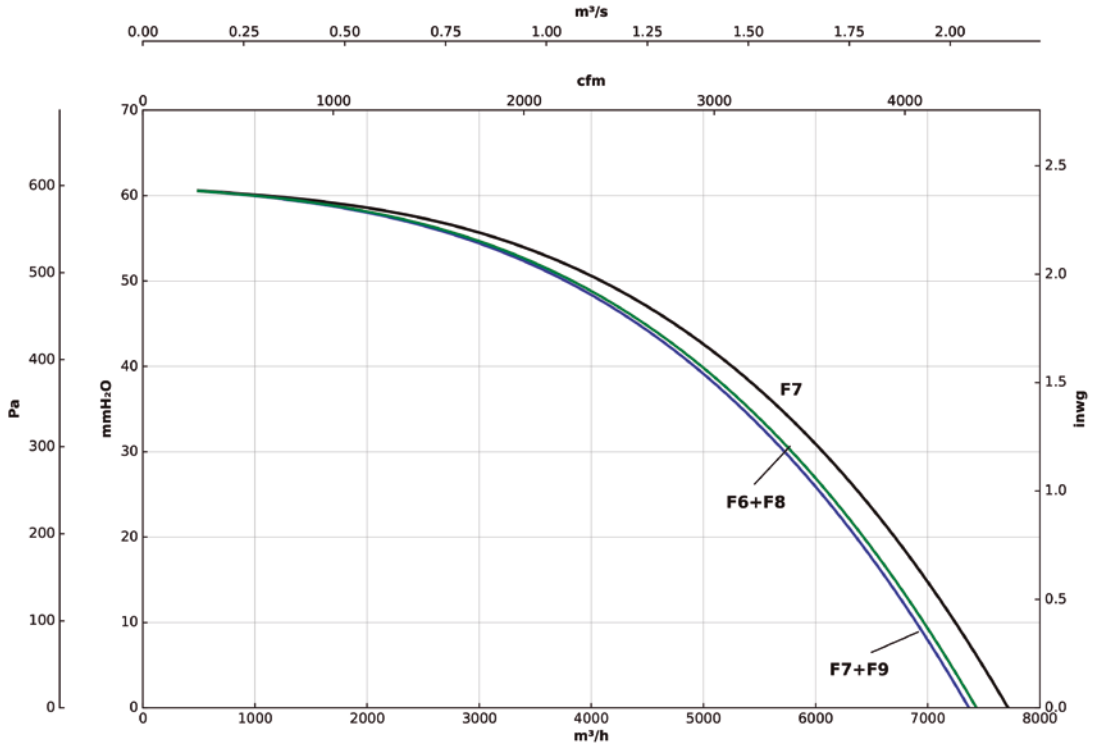

### RECUP/EC-4500-H



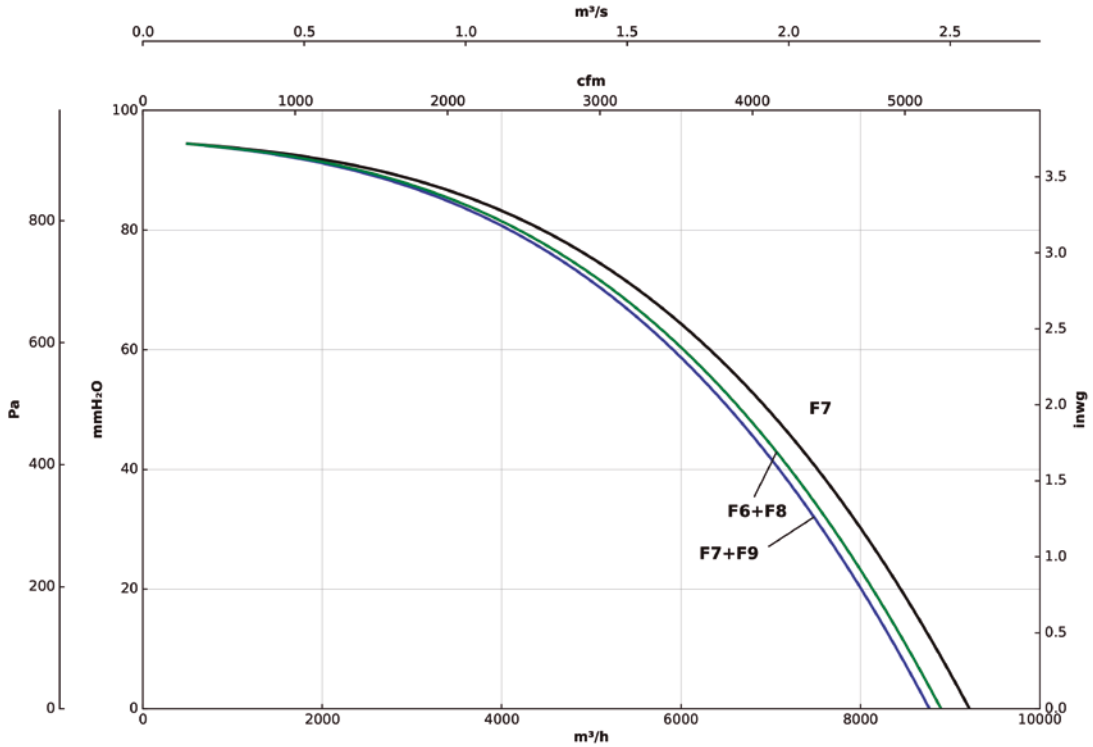
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

### RECUP/EC-6000-H



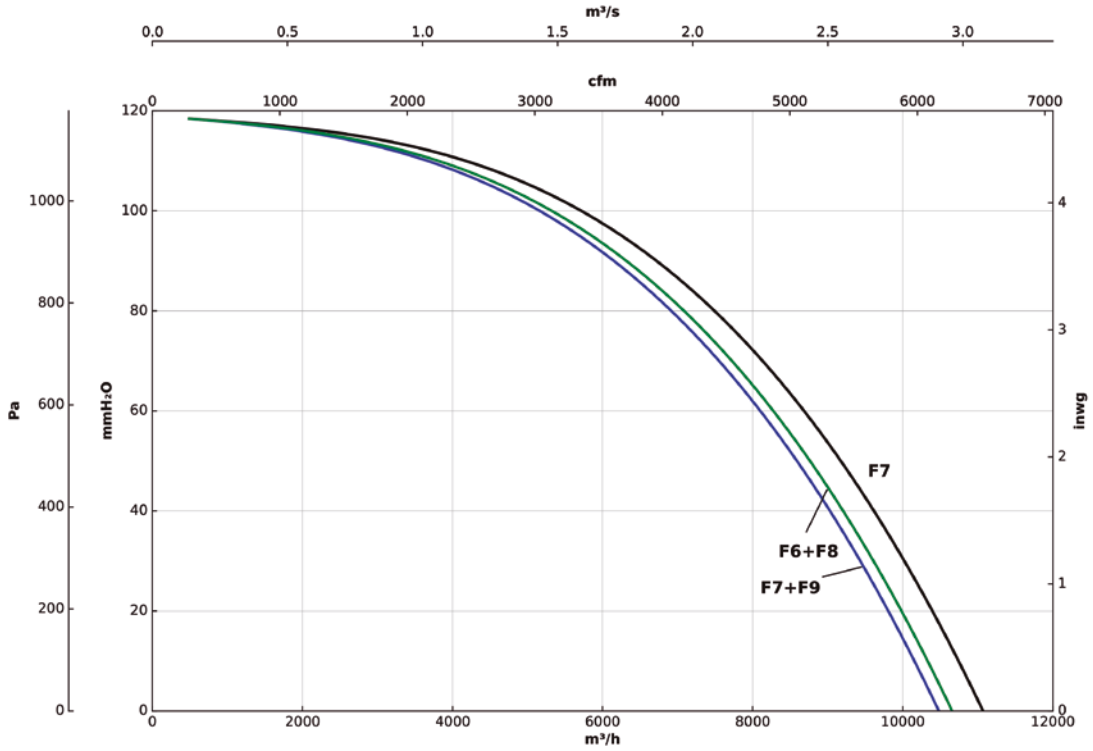

### RECUP/EC-8000-H



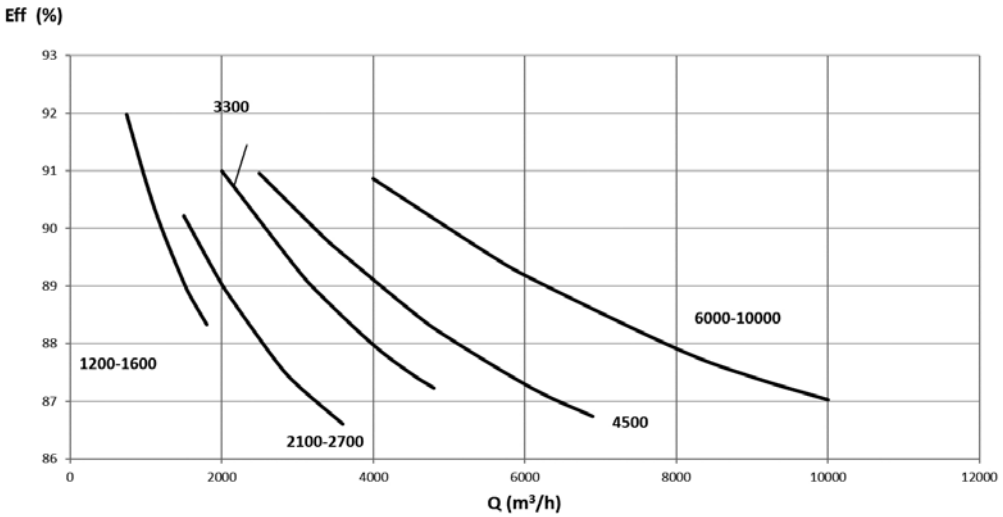
## *Characteristic curves*

Flow rate in $m^3/h$, $m^3/s$ and cfm. Static pressure in $mmH_2O$, Pa and inwg.

**RECUP/EC-10000-H**




## *Efficiency curves*



Ref. 01/2021

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