

# HEAT RECOVERY VENTILATORS AIR TREATMENT AND FILTRATION UNITS



**CE ACCORDING ErP**

| MOTOR TYPE           | ENERGY REQUIRED | ENERGY SAVE |
|----------------------|-----------------|-------------|
| EC BRUSHLESS IE4+VSD | +++             | 45%         |
| AC IE3+VSD           | ++              | 35%         |
| AC IE3               | +               | 5%          |
| AC IE2               |                 | 0%          |

**SODECA** EFFICIENT WORK



SODECA focuses its business activity on the manufacture of industrial fans, ventilation systems and smoke extractor fans for fire protection since it was set up in 1983.

The fans and extractor fans manufactured by SODECA are present in Europe and in many other parts of the world due to their quality and the research and development methods used. Our quality procedures, certified by BUREAU VERITAS in accordance with ISO 9001:2015, are another reason why SODECA is positioned as one of the best and most recognised fan manufacturer in Europe.

There is no doubt that the most important element in achieving our objectives is the human factor and the professionals who work in the company and offer not only ventilation equipment, but solutions to all the needs of our customers in the ventilation sector. We offer them the option of visiting our facilities in Sant Quirze de Besora, with a developed surface area of more than 16,000 m<sup>2</sup>, to see our fan production plant, which complies with the highest quality requirements and with the ISO and AMCA standards.

---

This catalogue contains just a few of all the options we offer. Please contact us and we will place all our experience and staff at your disposal.

# Our environmental commitment

Sodeca has embarked on a new phase of studying and designing new ventilation trends to help protect the environment and save energy, both matters of great concern for modern society.

SODECA presents its new "Efficient Work" high performance fans, fitted with next-generation motors to obtain higher energy savings. These new products exceed the requirements of the ErP 2009/125/CE Ecodesign Directive and its regulating provisions (EU) 327/2011 for fans, and 1253/2014 for ventilation units, collaborating with the EU KYOTO Protocol objective of reducing carbon emissions.



**EFFICIENT  
WORK**

# HEAT RECOVERY VENTILATORS, AIR TREATMENT AND FILTRATION UNITS



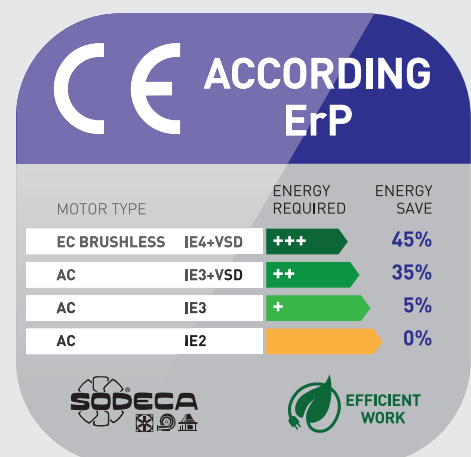
Since improving the energy efficiency of buildings is an international goal – and specifically a goal of the European Union– SODECA presents this new catalogue of Heat Recovery Ventilators and filtration units that meet the most demanding European regulations, in order to provide solutions for the new requirements defined and achieve the desired level of efficiency in each building.

Teamwork in our engineering department, our work with universities and technological centres, as well as the close collaboration with our clients, have made it possible to achieve innovative solutions for the current needs of those markets that are committed to making a significant improvement in energy efficiency.

The combination of our experience - acquired over decades of working with fans - and the technological contributions of our various engineering departments has made it possible for Sodeca to become one of the largest manufacturers of ventilation in the world.

## OUR AIMS

- Energy savings and, as a consequence, savings in natural resources.
- Improvements in Energy Efficiency.
- Reduced noise pollution.
- Environmental protection.
- Reduction in CO2 emissions.

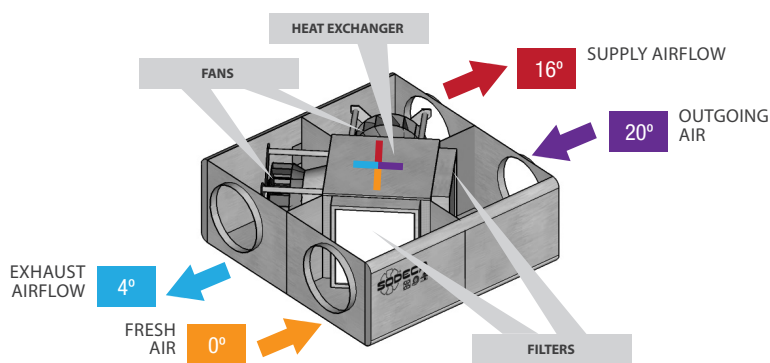


For European Union Member States, air treatment units will have to comply with new energy efficiency requirements.

# HEAT RECOVERY VENTILATORS

A heat recovery ventilator operates by means of the combination of two centrifugal fans with a low sound level, one of which extracts the stale air from the interior of the premises to the outside, and the other drives fresh air from outside into the premises.

The two circuits cross, without mixing, in a heat exchanger, in which the heat from the outgoing air is transferred to the fresh air from the outside, heating it up.

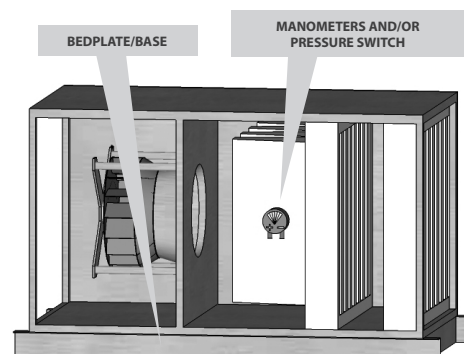
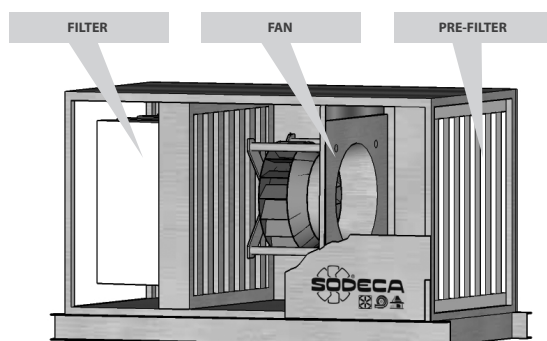


# FILTRATION UNITS

Filtration units remove particles from the air, ensuring good air quality.

Components of filtration units:

- Centrifugal fan in a closed box.
- Pre-filtration and filtration stages.
- Components to check filter condition: Manometers and pressure switches.
- Components to check flow is constant.



**R.I.T.E.**

Regulation on Thermal Installations in Buildings

# HEAT RECOVERY AND AIR FILTERING UNITS

To fulfil its objectives, SODECA presents its new products in this catalogue, in accordance with the R.I.T.E. requirements and directives (Regulation on Thermal Installations in Buildings) and, through this series, achieve real energy savings in HVAC installations:



## HEAT RECOVERY UNITS



Residential domestic



Commercial



Commercial high efficiency

## FILTER UNITS



Industrial

**R.I.T.E.** The Regulation on Thermal Installations in Buildings (R.I.T.E. in Spanish) applies to non-residential installations, and its objectives are energy efficiency and air quality.

## INDOOR AIR QUALITY (IDA)

Buildings will have a ventilation system for contributing a flow of outdoor air to prevent the formation of high concentrations of contaminants in the different premises. The external air will be duly filtered.

**IDA 1** Good quality air  
Application: hospitals, clinics, laboratories and nurseries.

**IDA 2** Aire de buena calidad  
Application: offices, residences, common areas in hotels, classrooms, pools, museums and similar premises.

**IDA 3** Intermediate quality air  
Application: stores, cinema theatres, theatres, auditoriums, hotel rooms, restaurants, cafeterias, bars, gyms and similar premises.

**IDA 4** Low quality air

## OUTDOOR AIR QUALITY (ODA)

The quality of the outdoor air used to bring air into the building will be classified in accordance with the levels related to contamination.



Pure air that may temporarily contain solid particles.



Air with high particle concentrations.



Air with high concentrations of gaseous contaminants.

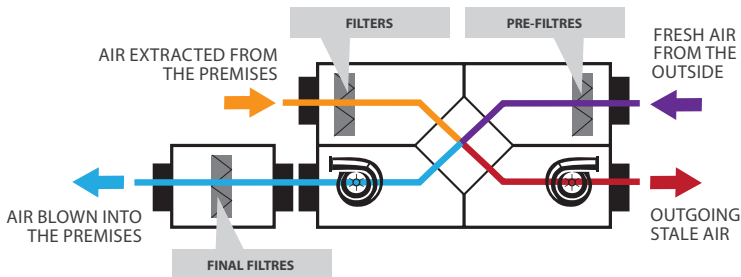
| Outdoor air quality | Indoor air quality |           |       |       |
|---------------------|--------------------|-----------|-------|-------|
|                     | IDA 1              | IDA 2     | IDA 3 | IDA 4 |
| ODA 1               | F9                 | F8        | F7    | F5    |
| ODA 2               | F7+F9              | F6+F8     | F5+F7 | F5+F6 |
| ODA 3               | F7+GF*+F9          | F7+GF*+F9 | F5+F7 | F5+F6 |

(\*) GF: Gas filter (carbon filter) and/or chemical or physical-chemical filter (photocatalytic) and only necessary if reaching ODA 3 due to excess gases

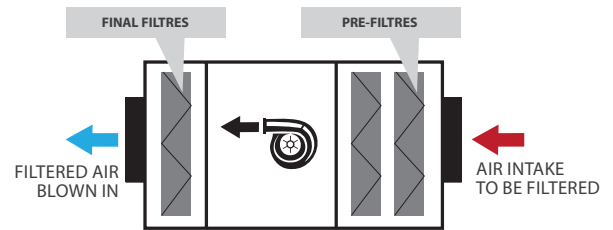
In heat recovery devices, in addition to the prefilter protecting the equipment which is present in all SODECA equipment, one or more end filters must always be installed to comply with the table combinations.

## POSITION OF FILTER STAGES

### HEAT RECOVERY VENTILATORS



### FILTRATION UNITS



## HEAT EXCHANGER

The heat exchanger is the part of the heat recovery ventilator that transfers heat from the circuit for extracting the stale air from the premises to the circuit for bringing in clean air from the outside. The more efficient the heat exchanger is, the less additional heating will be required. Principal types of heat exchangers, by structure type:



### Cross flow plate heat exchangers

- . Thermal efficiency of 50-70%.
- . No leaks between the air streams.
- . Compact and economical.



### Counterflow plate heat exchangers

- . Thermal efficiency of 80-95%.
- . No leaks between the air streams.
- . Require larger machines.



### Rotating heat exchangers

- . Thermal efficiency of 70-85%.
- . Compact.
- . Can operate in BY-PASS mode.

*These heat exchangers may be either the sensible heat type or the enthalpy type. The enthalpy exchangers recover sensible heat as well as latent heat (moisture), and consequently are more efficient, but require regular cleaning for safe operation.*



## Energy efficiency

Heat recovery devices must be installed in all HVAC installations treating flows over 1,800 m<sup>3</sup>/h.

---

## TYPES OF INSTALLATION



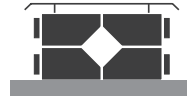
### Wall-mounted

Domestic machines for heat recovery from small rooms.



### In a false ceiling

Low-profile machines with access to components from the sides or underneath.



### Roof-mounted

Equipment that can work outside, with access to components from the sides. They may require accessories, such as covers or hoods for protection against rain and other weather elements.



### In the technical room

Compact machines with side access to components. These machines usually have inlets and outlets on the top.

## MOTORS

Types of motor that may be used for the fans in these ventilators:



### AC

Conventional high-efficiency motors. They may have several speeds or speed control, depending on the model or accessories.



### EC

More efficient motors with proportional speed control.

---

## THERMAL BY-PASS

A BY-PASS is a device that deviates the air stream, preventing it passing through the heat recovery system, i.e. the heat exchanger.

The advantages are:

- . Fast cooling of air for the premises (free cooling). Can quickly cool the premises when the temperature inside is too high and the temperature outside is more suitable.
- . Frost protection (only for plate exchangers). Reduces the risk of freezing in winter.
- . In ventilators with rotating exchangers, the BY-PASS function is achieved by stopping the rotor turning.
- . In ventilators with plate exchangers, the BY-PASS is an alternative circuit to passing through the circuit.





---

## CLIMATE CONTROL OPTIONS

Some ventilators have versions or accessories with heating or cooling coils to heat or cool the air supply. This is very common in heat recovery ventilators, although it may also be applied to filtration units. The commonest options are as follows:



**Environmental version**  
No heating/cooling.



**Version with water coils**  
Provides climate control by coils containing hot or cold water.



**Electric battery cooling**  
Supply of heating by electrically heated coils.

---

## AUTOMATIC CONTROL

For heat recovery ventilators, automatic control may provide a wide variety of functions, depending on the equipment series or models. The most significant functions are:

- . Scheduling (timed programming).
- . Number of speeds and option of regulating the variable speed drive (VSD).
- . Flow control depending on CO2 levels or air pressure in the duct.
- . Connecting the ventilator to a centralised building management system (BMS), usually through the MODBUS RTU protocol.



For filtration units, the following are available:

- . Manometers and pressure switches that detect the need to replace the filters
- . Accessories that control the fan, in order to stabilize the flow and extend filter life.

---

## FILTERS

**F6**

**F6 + F8**

**F7**

**F7 + F9**

**G4 + F6**

The filters retain particles that affect air quality, and must be replaced after a period of use. Filter head loss increases progressively over time.

Some units have components to check on head loss, in order to optimise filter replacement.










- . Pressure inlets: Small air inlets that allow head loss of filter stages to be detected.
- . Differential manometer: Visual detection of head loss per filter stage.
- . Pressure switch: Pressure switch that switches an electrical circuit on or off on the basis of the filter head loss.

Each filtration stage has one or more filters of the same efficiency, as required for each application. Depending on their configuration, the units may incorporate:













- . Stage with pre-filters that ensure correct operation of the equipment, depending on the requirements of the installation, the efficiencies may be: G4, F6, F7.
- . Stages with final filters that guarantee the quality of the air supplied to the premises; the efficiencies are usually of the following types: F6, F7, F8, F9, CA (active carbon gas filters) or even HEPA filters, depending on the IDA/ODA category.

## HEAT RECOVERY VENTILATORS

 **DOMESTIC RESIDENTIAL**

|                          | UNIREC  | VENUS   | REB   |
|--------------------------|---|---|---|
| <i>Installation type</i> |  |  |  |
| BY-PASS                  | N   | N   | Y   |
| Standard version coils   |  |  |  |
| Monitoring               |  |  |  |
| Heat efficiency (%)      | 90  | 93  | 80  |
| Auto Scheduling          | N   | Y   | N   |
| Speeds                   | 3   | 3   | 3   |
| CO2/Pressure             | N   | depending on model  | N   |
| Modbus RTU               | N   | N   | N   |
| Pre-filters              | Y   | Y   | Y   |
| Final filters            | Y   | Option CJFILTER/REC   | Option CJFILTER/REC   |

 **HIGH EFFICIENCY COMMERCIAL VENTILATORS**

|                          | RIS P EKO   | RIS H EKO   | RIRS H EKO  | RIRS V EKO  |
|--------------------------|---|---|---|---|
| <i>Installation type</i> |  |  |   |  |
| BY-PASS                  | Y   | Y   | Y   | Y   |
| Standard version coils   |  |  |   |  |
| Monitoring               |  |  |  |  |
| Heat efficiency (%)      | 90  | 90  | 80  | 80  |
| Auto Scheduling          | Y   | Y   | Y   | Y   |
| Speeds                   | 3 VSD   | 3 VSD   | 3 VSD   | 3 VSD   |
| CO2/Pressure             | Y   | Y   | Y   | Y   |
| Modbus RTU               | Y   | Y   | Y   | Y   |
| Pre-filters              | Y   | Y   | Y   | Y   |
| Final filters            | Option CJFILTER/REC   | Option CJFILTER/REC   | Option CJFILTER/REC   | Option CJFILTER/REC   |

## HEAT RECOVERY VENTILATORS

### DOMESTIC/RESIDENTIAL

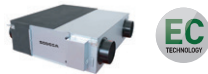
**12 UNIREC**  
High-efficiency single-zone heat recovery ventilators for domestic installations.



**14 VENUS**  
High-efficiency single-zone heat recovery ventilators for residential installations.



**17 REB**  
Heat recovery ventilators with BY-PASS for false ceilings.

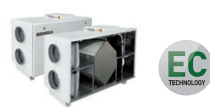


### HIGH EFFICIENCY COMMERCIAL VENTILATORS

**19 RIS P EKO**  
Configurable heat recovery ventilators, with crossed flow plates and automatic control.



**23 RIS H EKO**  
Heat recovery ventilators with counterflow plate exchangers.



**28 RIRS H EKO**  
Heat recovery ventilators with rotating exchangers.



**32 RIRS V EKO**  
Heat recovery ventilators with rotating exchangers.



## AIR TREATMENT AND FILTRATION UNITS

### DOMESTIC/RESIDENTIAL

**37 CJFILTER/REC**  
Filter boxes for circular ducts and rectangular ducts.



**39 SV/FILTER**  
Low-noise in-line duct fans.



### COMMERCIAL/RESIDENTIAL

**43 UFR**  
Soundproofed filtration units with sandwich-panel.



**47 UDT**  
Fan units with air treatment and direct drive motor.



### COMMERCIAL/INDUSTRIAL

**53 MODULAR KIT**  
Air treatment modules.



**60 UFX**  
Soundproofed Filtration Units fitted with double-inlet fans.



**70 UFRX**  
Soundproofed filtration units fitted with double-inlet fans and backward-curved impellers.



**80 UDTX**  
Belt driven fan units with air treatment.



# UNIREC



**High-efficiency single-zone heat recovery ventilators for domestic installations**

Designed to renew the air inside the home while minimising energy loss, and to supply clean air, due to their filters, which prevent particles entering from outside.



**Features:**

- Reversible EC fan.
- Thermal efficiency of 90%.
- Equipped with G3 Filters.
- Compact ceramic heat exchanger.
- Easily-installed, the telescopic duct means that they are suitable for several wall thicknesses.
- Automatic air intake grille; in the OFF position it remains closed to prevent air leakages.
- In heat recovery mode, the supply and extraction cycle takes 70 seconds.
- Duct length from 120mm to 470mm.

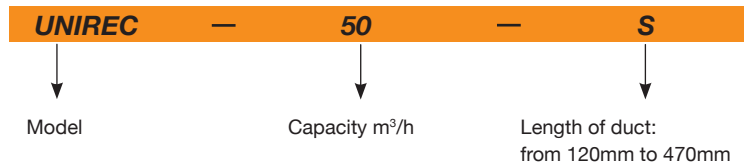
**Control:**

- Control panel built into the system.
- Remote control.
- Extract, blow or heat recovery.
- Two speeds.
- Humidity control.
- Natural mode, air intake grille open and fan stopped.
- Option of connecting several machines in a network.

**Motor:**

- Supply voltage of 100V to 230V, 50/60Hz.
- Built-in power cable.

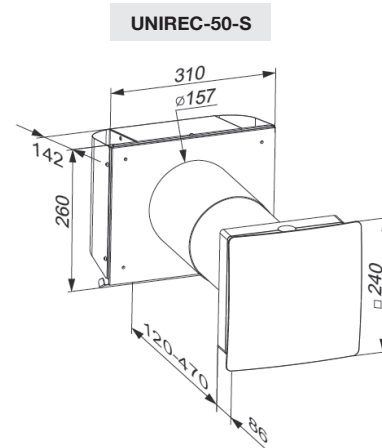
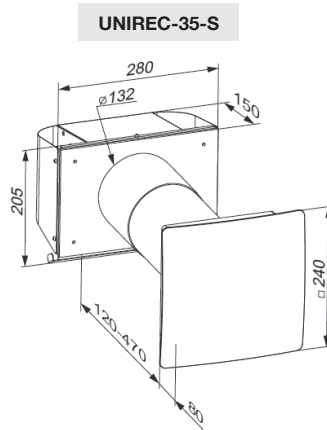
**Order code**



**Technical characteristics**

| Model       | Fans          |             |           | Input Voltage (V) | Frequency (Hz) | Maximum airflow (m <sup>3</sup> /h) | Thermal efficiency (%) | LpA radiated 3m dB(A) | Temperature of air transported (°C) | Diameter of duct (mm) | Length of duct (mm) |
|-------------|---------------|-------------|-----------|-------------------|----------------|-------------------------------------|------------------------|-----------------------|-------------------------------------|-----------------------|---------------------|
|             | Speed (r/min) | Current (A) | Power (W) |                   |                |                                     |                        |                       |                                     |                       |                     |
| UNIREC-35-S | 1670          | 0.032       | 5.10      | 1x100-230         | 50/60          | 30                                  | 90                     | 28                    | -20 a +50                           | 125                   | 120-470             |
| UNIREC-50-S | 1450          | 0.039       | 5.61      | 1x100-230         | 50/60          | 54                                  | 90                     | 23                    | -20 a +50                           | 150                   | 120-470             |

## Dimensions in mm



## Working cycles in recovery mode

### EXTRACTION (70 seconds)



During this cycle, the ceramic heat exchanger absorbs heat from the extracted air.

### SUPPLY (70 seconds)



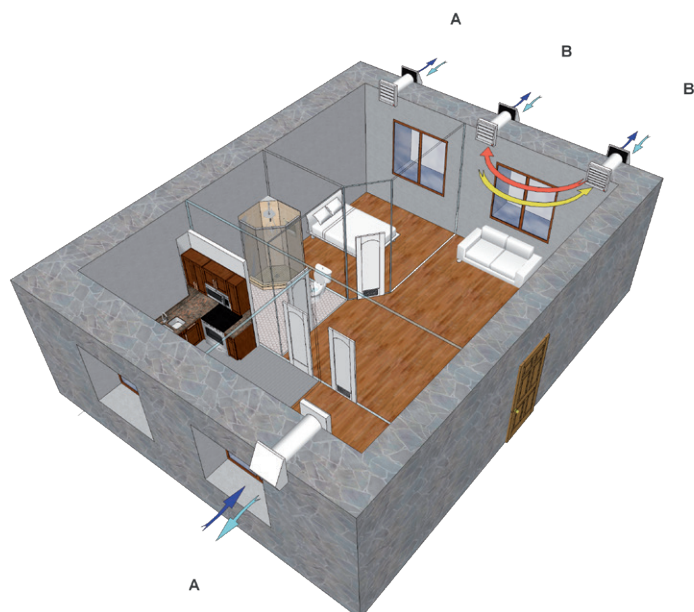
During this cycle, the heat exchanger provides heat to the air coming in from the outside.

Once this cycle has finished, the process of extraction starts again, and so on.

## Example of equipment installation

**A:** Machines working individually in heat recovery mode for a single room.

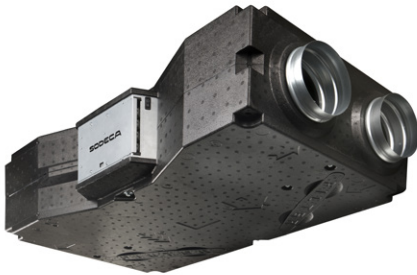
**B:** Machines working in a network, synchronised; while one performs the supply cycle, the other performs the extraction cycle, and so on.



# VENUS



**High-efficiency single-zone heat recovery ventilators for residential installations**



EC Version Control

High performance heat recovery ventilators to be installed inside residential buildings. With a low power consumption and heat recovery efficiency of up to 93%. For technical ceiling installation.

**Finish:**

- Light expanded polypropylene body for low noise emission levels.
- Low-profile for fitting in false ceiling.
- 160 mm inlets/outlets (models 150 and 300) and 250 mm inlets/outlets (models 500 and 700).

**Characteristics of all versions:**

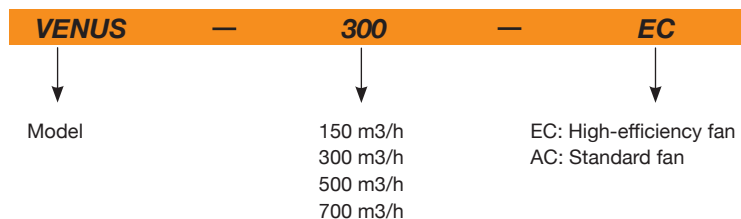
- Counterflow heat exchanger.
- Can adjust flow via external control signal.
- Condensate drainage with built-in siphon.
- Access to filters and condensate drainage from above and below.

**Additional Characteristics of the EC version:**

- Operation compatible 50/60 Hz.
- Air supply filters with F7 efficiency level.
- High-efficiency EC fans.
- Digital remote control panel included.
- Frost protection and free cooling.
- Multizone control by optionally connecting CO2, PIR (presence) and RH (relative humidity) sensors. ALL/NOTHING signal type.

| Version                                | AC  | EC   |
|--|---|--|
| Motor type                             | AC  | EC (high efficiency)                         |
| Control panel                          | Manual selector CP-SM-V-4<br>(accessory not included) | Digital (included)                           |
| Control panel cable                    | 4-wire, 230V (not included)                           | 4-wire PTPM-RJ12<br>10m Included/Maximum 30m |
| No. of fan speeds                      | 3   | 3  |
| Supply/Extraction filter efficiency    | F5/G4   | F7/G4  |
| Alarm management                       | YES   | YES  |
| Flow control via external control      | YES   | YES  |
| Each fan adjusted precisely            | -   | YES  |
| Control of closing hatches             | -   | YES (hatches not supplied)                   |
| Connections to 5 optional sensors      | -   | Types: CO2/PIR/HR                            |
| Sensor power supply                    | -   | 15V DC                                       |
| External control to force maximum flow | -   | YES  |
| Free cooling by stopping 1 fan         | -   | YES (with timer setting)                     |
| Frost protection                       | -   | YES  |
| Adjustable filter change alarm         | -   | YES  |
| LED filter state control               | YES   | YES  |

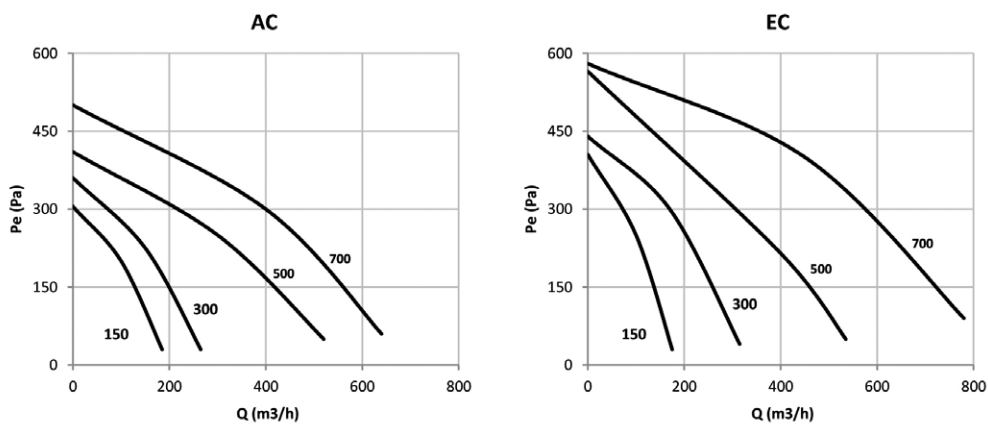
**Order code**



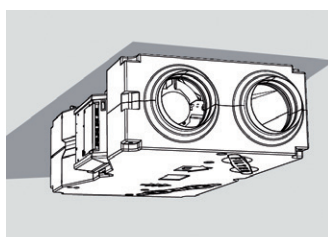
## Technical characteristics

| Modelo       | Maximum airflow (m <sup>3</sup> /h) | Total Power (W) | Heat recovery efficiency (%) | Maximum admissible current 220-240V (A) | Irradiated sound level at 3m dB(A) | Weight (Kg) | According ErP |
|--------------|-------------------------------------|-----------------|------------------------------|---|------------------------------------|-------------|---------------|
| VENUS-150-AC | 185                                 | 105             | 93                           | 2 x 0,23                                | 37,3                               | 17,4        | 2018          |
| VENUS-150-EC | 175                                 | 65              | 93                           | 2 x 0,14                                | 37,7                               | 17,2        | 2018          |
| VENUS-300-AC | 265                                 | 145             | 93                           | 2 x 0,32                                | 38,9                               | 19,5        | 2018          |
| VENUS-300-EC | 315                                 | 170             | 93                           | 2 x 0,37                                | 43,5                               | 19,3        | 2018          |
| VENUS-500-AC | 515                                 | 230             | 93                           | 2 x 0,50                                | 47,1                               | 35          | 2018          |
| VENUS-500-EC | 535                                 | 220             | 93                           | 2 x 0,48                                | 45,8                               | 35,5        | 2018          |
| VENUS-700-AC | 650                                 | 270             | 93                           | 2 x 0,59                                | 42,9                               | 40          | 2018          |
| VENUS-700-EC | 785                                 | 430             | 93                           | 2 x 0,93                                | 53,6                               | 40,7        | 2018          |

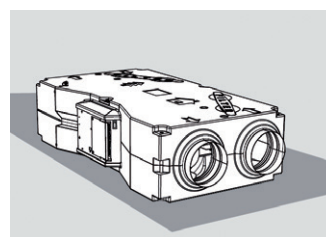
## Characteristic Curves



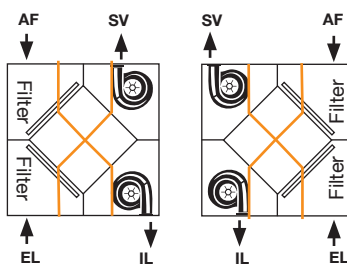
## Installation



In a false ceiling



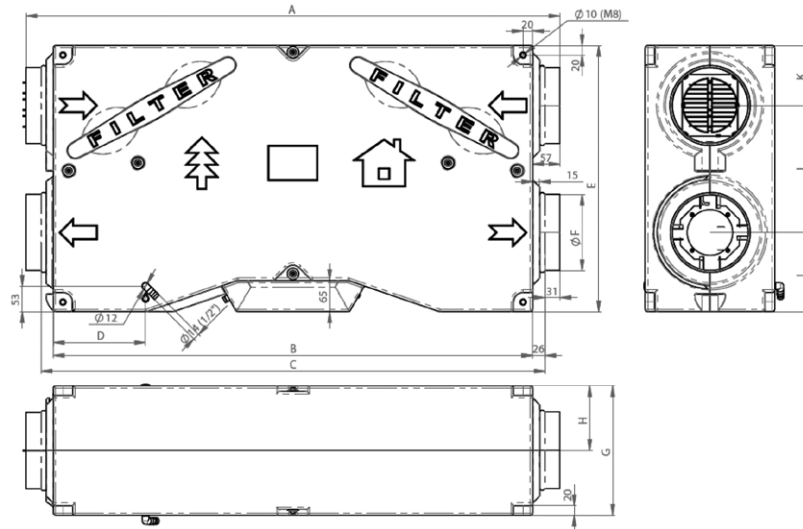
Floor-mounted



Configuration may be chosen by turning the machine through 180°. Access to filters and drainage from above and below.

**AF:** Fresh air from outside/**IL:** Air blown into the premises  
**SV:** Stale air outlet/**EL:** Air extracted from the premises

**Dimensions in mm**



| Model           | A    | B    | C    | D   | E   | F   | G   | H   | I   | J   | K   |
|-----------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| VENUS 150 / 300 | 1114 | 1000 | 1051 | 193 | 555 | 159 | 270 | 135 | 165 | 265 | 125 |
| VENUS 500 / 700 | 1505 | 1391 | 1441 | 248 | 846 | 249 | 360 | 180 | 235 | 420 | 190 |

**Accessories**





# REB



## Heat recovery ventilators with BY-PASS for false ceilings



Low-profile heat recovery ventilators for fitting in false ceiling. Incorporate BY-PASS. Energy efficient, with heat recovery efficiency of up to 82%.

**Finish:**

- Galvanised steel structure.
- Anti-condensation foam coating.
- Interior in light expanded polypropylene for low noise emission levels.
- Low-profile for fitting in false ceiling.

**Features:**

- Counterflow heat exchanger.
- Incorporate 100% automatic BY-PASS, except REB-15.
- Three-speed energy efficient EC fans.
- Side access for maintenance.
- Operation compatible 50/60 Hz.
- G4 filters.
- 3-speed SI-VOC+HUMEDAD selector switch supplied as an accessory.

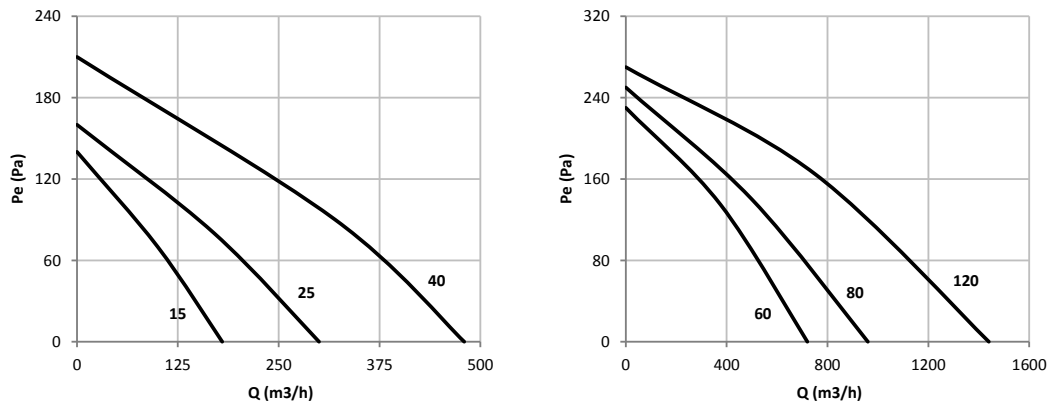
### Order code



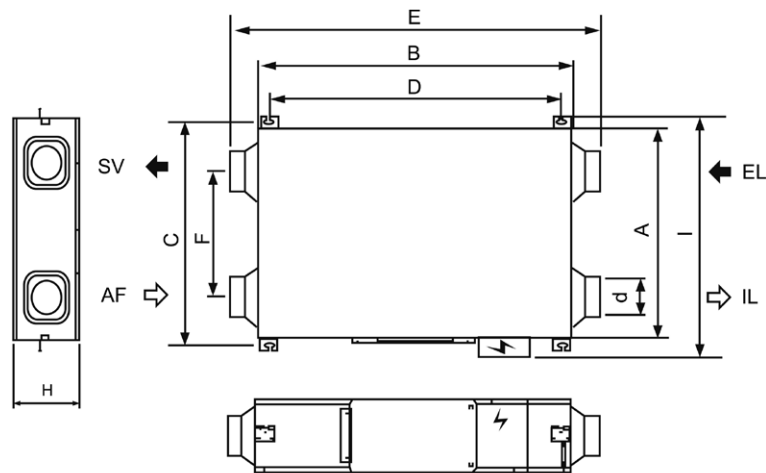
### Technical characteristics

| Model   | Maximum airflow (m <sup>3</sup> /h) | Total Power (W) | Max. Admissible Current 220-240V (A) | Heat recovery efficiency (%) | Radiated sound level at 3m dB(A) | Weight (kg) | According ErP |
|---------|-------------------------------------|-----------------|--------------------------------------|------------------------------|----------------------------------|-------------|---------------|
| REB-15  | 150                                 | 60              | 0,26                                 | 72                           | 38                               | 18          | Excluded      |
| REB-25  | 250                                 | 70              | 0,3                                  | 81                           | 35                               | 31          | 2018          |
| REB-40  | 400                                 | 90              | 0,39                                 | 82                           | 37                               | 39          | 2018          |
| REB-60  | 600                                 | 140             | 0,61                                 | 80                           | 39                               | 55          | 2018          |
| REB-80  | 800                                 | 300             | 1,3                                  | 82                           | 41                               | 72          | 2018          |
| REB-120 | 1200                                | 325             | 1,41                                 | 79                           | 42                               | 91          | 2018          |

**Characteristic Curves**



**Dimensions in mm**



| Model   | A    | B    | C    | D    | E    | F   | H   | I    | d   |
|---------|------|------|------|------|------|-----|-----|------|-----|
| REB-15  | 510  | 883  | 560  | 813  | 1043 | 345 | 272 | 620  | 97  |
| REB-25  | 675  | 890  | 735  | 820  | 1070 | 335 | 280 | 790  | 146 |
| REB-40  | 813  | 888  | 863  | 818  | 1068 | 480 | 280 | 930  | 146 |
| REB-60  | 995  | 970  | 1055 | 910  | 1130 | 728 | 313 | 1065 | 197 |
| REB-80  | 883  | 1325 | 953  | 1255 | 1485 | 429 | 390 | 1000 | 247 |
| REB-120 | 1132 | 1328 | 1202 | 1258 | 1488 | 680 | 395 | 1250 | 247 |

AF: Fresh air from outside/IL: Air blown into the premises/SV: Stale air outlet/EL: Air extracted from the premises

# RIS P EKO



Heat recovery ventilators with crossed flow plates, automatic control and EC motor, designed for horizontal ducts and installation in false ceilings



FLEX panel included in all models

**Common characteristics:**

- Efficient low-noise EC adjustable fans.
- Maintenance switch – disconnecter incorporated.
- Thermal efficiency of up to 90%.
- Sound insulation up to 50mm thick for low noise level.
- Broad access for maintenance from underneath the machine.
- Tray for collecting condensation with drainage.

**PRV 3.0 control functions incorporated:**

- Free cooling function with motorised BY-PASS.
- Fan speed control by manual selection or optional external sensors (CO2 or pressure).
- Frost protection built-in.
- Built-in control system with FLEX remote control panel (including 13 m cable).
- Control of external closing hatch (hatches included).
- ON/OFF and speed control available through panel or external switches.
- Control of external DX coolers.
- Built-in temperature and humidity sensors.

- Filter condition control through built-in pressure switches (for some models).
- Management of fire alarms and equipment failure alarms.
- Compatible with MODBUS RTU.

**Finish:**

- RAL 7040 or 9016 (400,700) paint.

**Versions:**

- Environmental: Renewal of air without supplying heat (S).
- Electric: With heating supplied by single-stage electrically heated coils (E).
- Water battery: With heating supplied by water coils external to the machine (W).

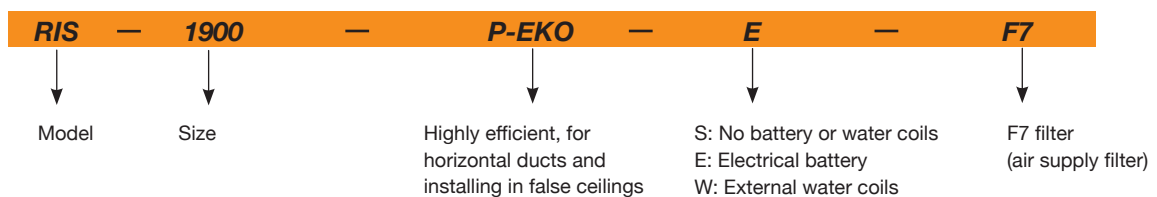


**On request:**

- Boxes with special filters.
- Adiabatic module.



## Order code



## Characteristics, depending on size

|   | RIS-400 | RIS-700 | RIS-1200 | RIS-1900 | RIS-2500 |
|---|---------|---------|----------|----------|----------|
| Standard filters (supply/extraction)                  | F7/M5   | F7/M5   | F7/M5    | F7/M5    | F7/M5    |
| Free cooling function with motorised BY-PASS          | YES     | YES     | YES      | YES      | YES      |
| Soundproofing thickness                               | 30mm    | 30mm    | 50mm     | 50mm     | 50mm     |
| Built-in pressure switch for filter condition control | -       | -       | YES      | YES      | YES      |

**Technical characteristics**

| Model            | Double-inlet  |             |            | Maximum flow F7 (m <sup>3</sup> /h) | Thermal efficiency (%) | LpA radiated 3m dB(A) | Total voltage (V) | Total current (A) | Total power (kW) | Weight (Kg) | According ErP |
|------------------|---------------|-------------|------------|-------------------------------------|------------------------|-----------------------|-------------------|-------------------|------------------|-------------|---------------|
|                  | Speed (r/min) | Current (A) | Power (kW) |                                     |                        |                       |                   |                   |                  |             |               |
| RIS-400-P-EKO-S  | 3490          | 2x1.17      | 2x0.12     | 500                                 | 90                     | 51                    | 1x230             | 2.39              | 0.26             | 74          | 2018          |
| RIS-400-P-EKO-E  | 3490          | 2x1.17      | 2x0.12     | 500                                 | 90                     | 51                    | 1x230             | 9.39              | 1.86             | 74          | 2018          |
| RIS-400-P-EKO-W  | 3490          | 2x1.17      | 2x0.12     | 500                                 | 90                     | 51                    | 1x230             | 2.39              | 0.26             | 82          | 2018          |
| RIS-700-P-EKO-S  | 3380          | 2x2.05      | 2x0.23     | 850                                 | 90                     | 56                    | 1x230             | 4.00              | 0.46             | 106         | 2018          |
| RIS-700-P-EKO-E  | 3380          | 2x2.05      | 2x0.23     | 850                                 | 90                     | 56                    | 1x230             | 17.01             | 3.46             | 106         | 2018          |
| RIS-700-P-EKO-W  | 3380          | 2x2.05      | 2x0.23     | 850                                 | 90                     | 56                    | 1x230             | 4.00              | 0.46             | 118.5       | 2018          |
| RIS-1200-P-EKO-S | 3400          | 2x2.95      | 2x0.45     | 1300                                | 90                     | 56                    | 1x230             | 5.40              | 0.82             | 170         | 2018          |
| RIS-1200-P-EKO-E | 3400          | 2x2.95      | 2x0.45     | 1300                                | 90                     | 56                    | 3x400             | 14.50             | 6.80             | 170         | 2018          |
| RIS-1200-P-EKO-W | 3400          | 2x2.95      | 2x0.45     | 1300                                | 90                     | 56                    | 1x230             | 5.40              | 0.82             | 178         | 2018          |
| RIS-1900-P-EKO-S | 2540          | 2x3.15      | 2x0.48     | 2100                                | 90                     | 60                    | 1x230             | 6.32              | 1.00             | 269         | 2018          |
| RIS-1900-P-EKO-E | 2540          | 2x3.15      | 2x0.48     | 2100                                | 90                     | 60                    | 3x400             | 15.00             | 7.00             | 270         | 2018          |
| RIS-1900-P-EKO-W | 2540          | 2x3.15      | 2x0.48     | 2100                                | 90                     | 60                    | 1x230             | 6.32              | 1.00             | 282         | 2018          |
| RIS-2500-P-EKO-S | 2800          | 2x3.00      | 2x0.67     | 2800                                | 90                     | 62                    | 1x230             | 6.20              | 1.40             | 313         | 2018          |
| RIS-2500-P-EKO-E | 2800          | 2x3.00      | 2x0.67     | 2800                                | 90                     | 62                    | 3x400             | 19.20             | 10.40            | 320         | 2018          |
| RIS-2500-P-EKO-W | 2800          | 2x3.00      | 2x0.67     | 2800                                | 90                     | 62                    | 1x230             | 6.20              | 1.40             | 326         | 2018          |

**Technical characteristics of models with electrically heated coil**



| Model            | Voltage (V) | Power (kW) |
|------------------|-------------|------------|
| RIS-400-P-EKO-E  | 1x230       | 1.6        |
| RIS-700-P-EKO-E  | 1x230       | 3          |
| RIS-1200-P-EKO-E | 3x400       | 6          |
| RIS-1900-P-EKO-E | 3x400       | 6          |
| RIS-2500-P-EKO-E | 3x400       | 9          |

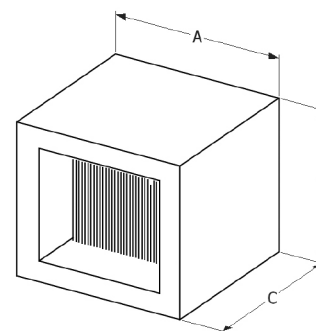
**Technical characteristics of models with water coil at 80/60 °C**



| Model            | Heat power (kW) | Water flow (l/s) | Head loss (kPa) | Air speed (m/s) | Max. temperature difference (°C) | Coil thread diam |
|------------------|-----------------|------------------|-----------------|-----------------|----------------------------------|------------------|
| RIS-400-P-EKO-W  | 6.25            | 0.08             | 15.24           | 3.4             | 33.5                             | 1/2"             |
| RIS-700-P-EKO-W  | 10.6            | 0.13             | 9.32            | 3.37            | 31                               | 1/2"             |
| RIS-1200-P-EKO-W | 15.5            | 0.19             | 3.56            | 3.11            | 33                               | 3/4"             |
| RIS-1900-P-EKO-W | 25.6            | 0.31             | 3.62            | 2.08            | 36                               | 1"               |
| RIS-2500-P-EKO-W | 30.1            | 0.37             | 4.85            | 2.68            | 33                               | 1"               |

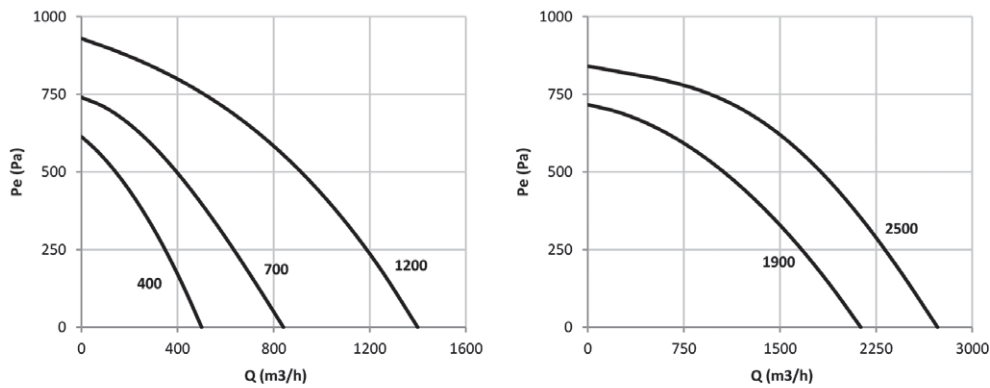
\* Data at 80/60°C, machine's maximum flow and outside temperature = 0°C

| Model            | A   | B   | C   |
|------------------|-----|-----|-----|
| RIS-400-P-EKO-W  | 289 | 265 | 304 |
| RIS-700-P-EKO-W  | 364 | 395 | 342 |
| RIS-1200-P-EKO-W | 500 | 250 | 250 |
| RIS-1900-P-EKO-W | 700 | 400 | 720 |
| RIS-2500-P-EKO-W | 700 | 400 | 720 |



External water coils

## Characteristic Curves



## Acoustic features

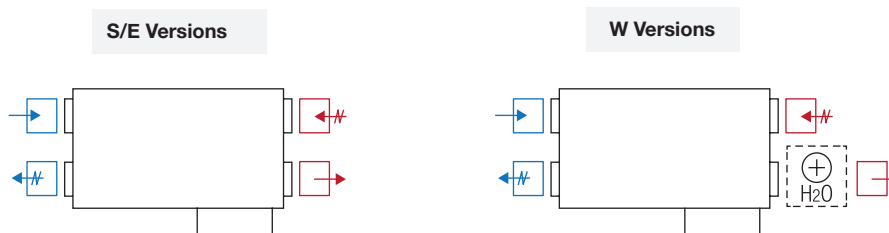
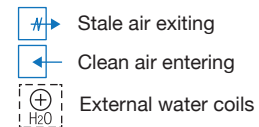
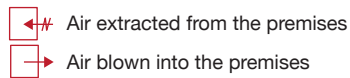
The values specified are determined according to free field measurements of sound levels in dB(A) at a distance of no less than 3 m from the equipment.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz

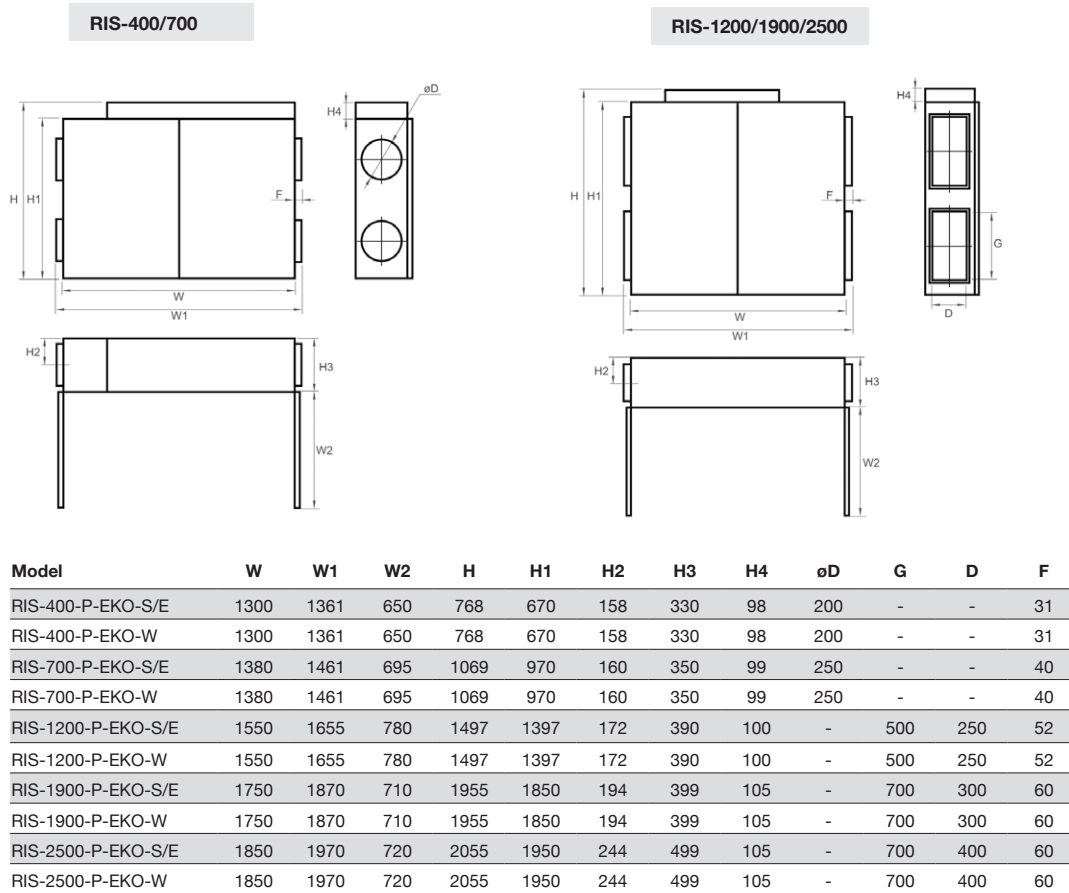
| Model    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------|----|-----|-----|-----|------|------|------|------|
| RIS-400  | 39 | 40  | 43  | 46  | 45   | 40   | 39   | 36   |
| RIS-700  | 46 | 45  | 47  | 50  | 50   | 47   | 43   | 42   |
| RIS-1200 | 43 | 42  | 48  | 50  | 49   | 48   | 46   | 40   |
| RIS-1900 | 49 | 50  | 52  | 54  | 54   | 50   | 48   | 41   |
| RIS-2500 | 43 | 46  | 54  | 56  | 57   | 54   | 50   | 45   |

## Configurations

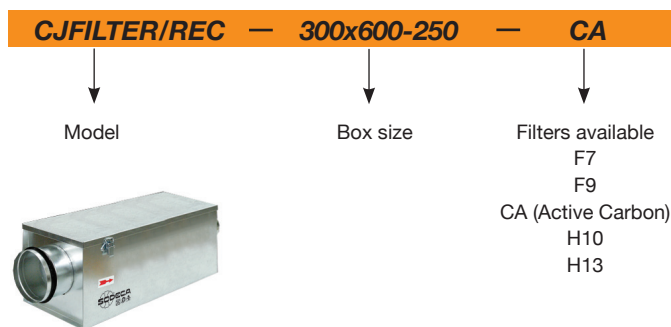
Plan view of equipment (opposite side to maintenance access)



**Dimensions in mm**



**CJFILTER/REC filter box configurations**



Filter box part numbers according to machine size and inlet/outlet cross-section

| Model          | Box size        |
|----------------|-----------------|
| RIS-400-P-EKO  | 300x600-200     |
| RIS-700-P-EKO  | 300x600-250     |
| RIS-1200-P-EKO | 300x600-250x500 |
| RIS-1900-P-EKO | 500x700-300x700 |
| RIS-2500-P-EKO | 500x700-400x700 |

For more information, see CJFILTER/REC section.

**Accessories**

See accessories section



# RIS H EKO



**Heat recovery ventilators with counterflow plate exchanger, automatic control and EC motor, designed for horizontal ducts and installation on roof or in technical room**



FLEX panel included in all models

**Common characteristics:**

- Efficient low-noise EC adjustable fans.
- Maintenance switch – disconnecter incorporated.
- Thermal efficiency of up to 90%.
- Sound insulation up to 50mm thick for low noise level.
- Large access doors for maintenance.
- Tray for collecting condensation with drainage.

**PRV 3.0 control functions incorporated:**

- Free cooling function with motorised BY-PASS.
- Fan speed control by manual selection or optional external sensors (CO2 or pressure).
- Frost protection built-in.
- Built-in control system with FLEX remote control panel (including 13 m cable).
- Control of external closing hatch (hatches included), for some models.
- ON/OFF and speed control available through panel or external switches.
- Control of external DX coolers.

- Built-in temperature and humidity sensors (for some models).
- Filter condition control through built-in pressure switches.
- Management of fire alarms and equipment failure alarms.
- Compatible with MODBUS RTU.

**Finish:**

- Silver/Ral 7040 paint.

**Versions:**

- Environmental: Renewal of air without supplying heat (S).
- Electric: With heating supplied by single-stage electrically heated coils (E).
- Water battery: With heating supplied by water coils external to the machine (W).



**On request:**

- Boxes with special filters.
- Adiabatic module.
- Cover for roof installation.

## Order code

**RIS — 2500 — H-EKO — E — D — F7**

|       |      |                  |   |  |                               |
|-------|------|------------------|---|--|-------------------------------|
| ↓     | ↓    | ↓                | ↓   | ↓  | ↓                             |
| Model | Size | Horizontal ducts | S: No battery or water coils<br>E: Electrical battery<br>W: External water coil | Side on which the air supply to the premises is located, seen from the maintenance access.<br><br>D: Right-hand side (standard)<br>K: left-hand side | F7 filter (air supply filter) |

## Accessories

See accessories section



FILTERS



CJFILTER/REC



ADIABATIC BOX



PRESSURE SWITCH



CO2 PROBE



TEJ

**Characteristics, depending on size**

|   | RIS-700 | RIS-1200 | RIS-1900 | RIS-2500 | RIS-3500 | RIS-5500 |
|---|---------|----------|----------|----------|----------|----------|
| Standard filters (supply/extraction)  | F7/M5   | F7/M5    | F7/M5    | F7/M5    | F7/M5    | F7/M5    |
| Free cooling function with motorised BY-PASS 100% of flow                   | YES     | YES      | YES      | YES      | YES      | YES      |
| Control of external closing hatches   | -       | -        | -        | YES      | YES      | YES      |
| Side for maintenance access can be changed (D↔K)                            | YES     | YES      | YES      | -        | -        | -        |
| Version availability according to maintenance access side (versions D or K) | D/K     | D/K      | D/K      | D        | K        | D        |
| Built-in pressure switches for filter condition control                     | -       | YES      | YES      | YES      | YES      | YES      |

**Technical characteristics**

| Model            | Double-inlet  |             |            | Maximum flow F7 (m <sup>3</sup> /h) | Thermal efficiency (%) | LpA radiated 3m dB(A) | Total voltage (V) | Total current (A) | Total power (kW) | Weight (Kg) | According ErP |
|------------------|---------------|-------------|------------|-------------------------------------|------------------------|-----------------------|-------------------|-------------------|------------------|-------------|---------------|
|                  | Speed (r/min) | Current (A) | Power (kW) |                                     |                        |                       |                   |                   |                  |             |               |
| RIS-700-H-EKO-S  | 2930          | 2x1.7       | 2x0.23     | 850                                 | 90                     | 56                    | 1x230             | 3.3               | 0.4              | 105         | 2018          |
| RIS-700-H-EKO-E  | 2930          | 2x1.7       | 2x0.23     | 850                                 | 90                     | 56                    | 1x230             | 8.5               | 1.6              | 105         | 2018          |
| RIS-700-H-EKO-W  | 2930          | 2x1.7       | 2x0.23     | 850                                 | 90                     | 56                    | 1x230             | 3.3               | 0.4              | 117.5       | 2018          |
| RIS-1200-H-EKO-S | 3400          | 2x2.7       | 2x0.42     | 1350                                | 90                     | 53                    | 1x230             | 5.3               | 0.8              | 184         | 2018          |
| RIS-1200-H-EKO-E | 3400          | 2x2.7       | 2x0.42     | 1350                                | 90                     | 53                    | 1x230             | 14                | 2.8              | 184         | 2018          |
| RIS-1200-H-EKO-W | 3400          | 2x2.7       | 2x0.42     | 1350                                | 90                     | 53                    | 1x230             | 5.3               | 0.8              | 200         | 2018          |
| RIS-1900-H-EKO-S | 2600          | 2x3.2       | 2x0.50     | 2000                                | 90                     | 60                    | 1x230             | 6.3               | 0.9              | 260         | 2018          |
| RIS-1900-H-EKO-E | 2600          | 2x3.2       | 2x0.50     | 2000                                | 90                     | 60                    | 1x230             | 19.3              | 3.9              | 260         | 2018          |
| RIS-1900-H-EKO-W | 2600          | 2x3.2       | 2x0.50     | 2000                                | 90                     | 60                    | 1x230             | 6.3               | 0.9              | 276         | 2018          |
| RIS-2500-H-EKO-S | 2200          | 2x4.4       | 2x1.00     | 3300                                | 90                     | 62                    | 3x400             | 8.4               | 1.8              | 390         | 2018          |
| RIS-2500-H-EKO-E | 2200          | 2x4.4       | 2x1.00     | 3300                                | 90                     | 62                    | 3x400             | 13.6              | 5.5              | 390         | 2018          |
| RIS-2500-H-EKO-W | 2200          | 2x4.4       | 2x1.00     | 3300                                | 90                     | 62                    | 3x400             | 8.4               | 1.8              | 408         | 2018          |
| RIS-3500-H-EKO-S | 2390          | 2x5.4       | 2x1.60     | 4100                                | 90                     | 69                    | 3x400             | 10.9              | 2.3              | 627         | 2018          |
| RIS-3500-H-EKO-E | 2390          | 2x5.4       | 2x1.60     | 4100                                | 90                     | 69                    | 3x400             | 19.5              | 8.3              | 627         | 2018          |
| RIS-3500-H-EKO-W | 2390          | 2x5.4       | 2x1.60     | 4100                                | 90                     | 69                    | 3x400             | 10.9              | 2.3              | 649         | 2018          |
| RIS-5500-H-EKO-S | 2180          | 2x3.6       | 2x1.80     | 6100                                | 90                     | 77                    | 3x400             | 6                 | 3.7              | 768         | 2018          |
| RIS-5500-H-EKO-E | 2180          | 2x3.6       | 2x1.80     | 6100                                | 90                     | 77                    | 3x400             | 23.3              | 15.7             | 768         | 2018          |
| RIS-5500-H-EKO-W | 2180          | 2x3.6       | 2x1.80     | 6100                                | 90                     | 77                    | 3x400             | 6                 | 3.7              | 790         | 2018          |

**Technical characteristics of models with electrically heated coil**


| Model            | Voltage (V) | Power (kW) |
|------------------|-------------|------------|
| RIS-700-H-EKO-E  | 1x230       | 1.2        |
| RIS-1200-H-EKO-E | 1x230       | 2          |
| RIS-1900-H-EKO-E | 1x230       | 3          |
| RIS-2500-H-EKO-E | 3x400       | 3.6        |
| RIS-3500-H-EKO-E | 3x400       | 6          |
| RIS-5500-H-EKO-E | 3x400       | 12         |



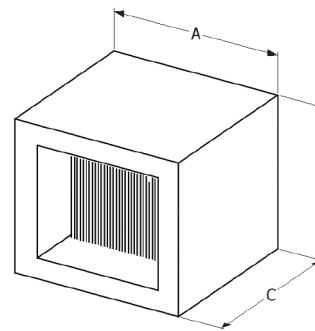
## Technical characteristics of models with water coil at 80/60 °C



| Model            | Heat power (kW) | Water flow (l/s) | Head loss (kPa) | Air speed (m/s) | Max. temperature difference (°C) | Coil thread diam |
|------------------|-----------------|------------------|-----------------|-----------------|----------------------------------|------------------|
| RIS-700-H-EKO-W  | 10.6            | 0.13             | 9.32            | 3.37            | 31.3                             | 1/2"             |
| RIS-1200-H-EKO-W | 15.6            | 0.19             | 9.5             | 3               | 33                               | 1/2"             |
| RIS-1900-H-EKO-W | 10.6            | 0.13             | 9.5             | 2.06            | 21                               | 1/2"             |
| RIS-2500-H-EKO-W | 20              | 0.24             | 15.6            | 2.44            | 20                               | 1/2"             |
| RIS-3500-H-EKO-W | 33              | 0.4              | 23              | 2.57            | 20                               | 3/4"             |
| RIS-5500-H-EKO-W | 33              | 0.4              | 23              | 2.57            | 20                               | 3/4"             |

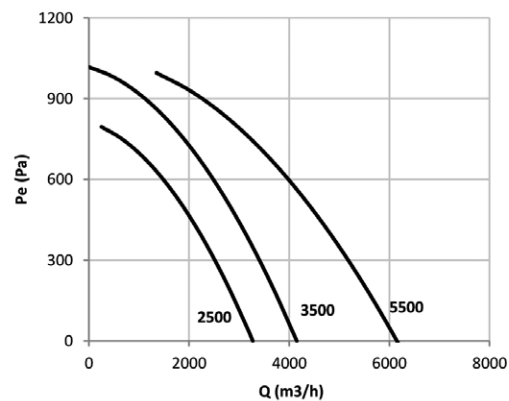
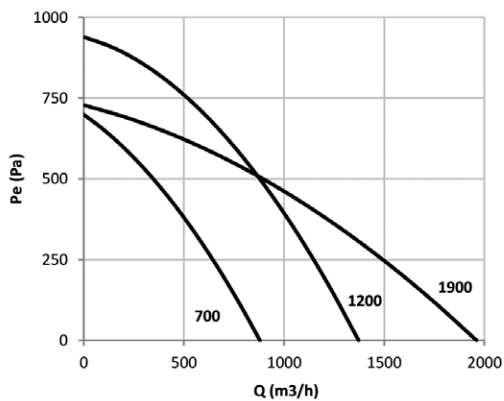
\* Data at 80/60°C, machine's maximum flow and outside temperature = 0°C

| Model             | A    | B   | C   |
|-------------------|------|-----|-----|
| RIS-700- H-EKO-W  | 364  | 395 | 342 |
| RIS-1200- H-EKO-W | 439  | 460 | 342 |
| RIS-1900- H-EKO-W | 679  | 813 | 791 |
| RIS-2500- H-EKO-W | 880  | 838 | 756 |
| RIS-3500- H-EKO-W | 1150 | 944 | 795 |
| RIS-5500- H-EKO-W | 1150 | 944 | 795 |



External water coils

## Characteristic Curves



## Acoustic features

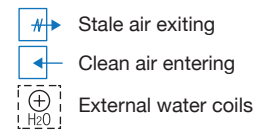
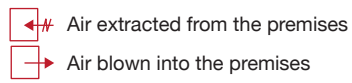
The values specified are determined according to free field measurements of sound levels in dB(A) at a distance of no less than 3 m from the equipment.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz

| Model    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------|----|-----|-----|-----|------|------|------|------|
| RIS-700  | 42 | 45  | 49  | 54  | 45   | 43   | 40   | 37   |
| RIS-1200 | 41 | 44  | 43  | 48  | 47   | 43   | 40   | 33   |
| RIS-1900 | 40 | 41  | 51  | 55  | 53   | 52   | 49   | 42   |
| RIS-2500 | 42 | 45  | 57  | 58  | 55   | 52   | 44   | 36   |
| RIS-3500 | 53 | 59  | 65  | 62  | 62   | 59   | 52   | 58   |
| RIS-5500 | 51 | 54  | 71  | 72  | 71   | 68   | 65   | 58   |

**Configurations**

View of machine from the maintenance access side



**Configuration D**

**Configuration K**

RIS 700/1200/1900  
S / E Versions



RIS 2500  
S / E Versions



RIS 3500  
S / E Versions



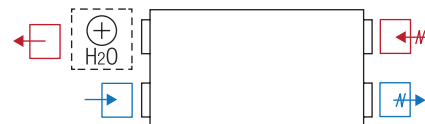
RIS 5500  
S / E Versions



RIS 700/1200/1900  
W Versions



RIS 2500/5500  
W Versions



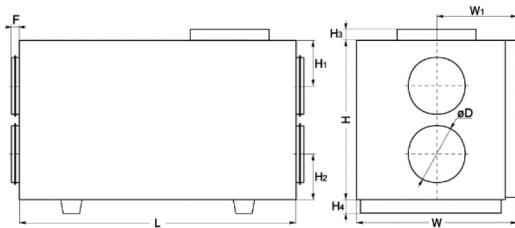
RIS 3500  
W Versions



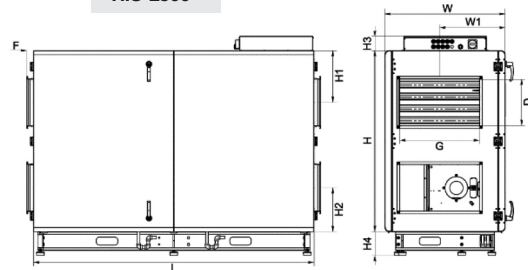
RIS 5500  
W Versions

## Dimensions in mm

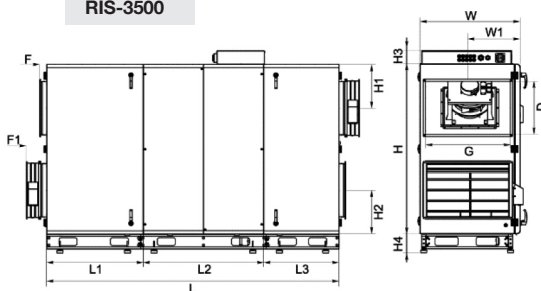
**RIS-700/1200/1900**



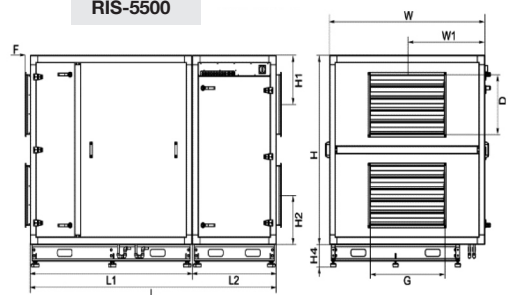
**RIS-2500**



**RIS-3500**



**RIS-5500**



| Model               | L    | L1   | L2   | L3  | W    | W1  | H    | H1  | H2  | H3  | H4  | F  | F1  | ØD  | G   | D   |
|---------------------|------|------|------|-----|------|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|
| RIS-700- H-EKO-S/E  | 1200 | -    | -    | -   | 670  | 335 | 780  | 210 | 210 | 65  | 126 | 40 | -   | 250 | -   | -   |
| RIS-700- H-EKO-W    | 1200 | -    | -    | -   | 670  | 335 | 780  | 210 | 210 | 65  | 126 | 40 | -   | 250 | -   | -   |
| RIS-1200- H-EKO-S/E | 1500 | -    | -    | -   | 760  | 380 | 1000 | 269 | 269 | 70  | 141 | 40 | -   | 315 | -   | -   |
| RIS-1200- H-EKO-W   | 1500 | -    | -    | -   | 760  | 380 | 1000 | 269 | 269 | 70  | 141 | 40 | -   | 315 | -   | -   |
| RIS-1900- H-EKO-S/E | 1800 | -    | -    | -   | 800  | 400 | 1245 | 331 | 331 | 106 | 141 | 70 | -   | 400 | -   | -   |
| RIS-1900- H-EKO-W   | 1800 | -    | -    | -   | 800  | 400 | 1245 | 331 | 331 | 106 | 141 | 70 | -   | 400 | -   | -   |
| RIS-2500- H-EKO-S/E | 2100 | -    | -    | -   | 900  | 490 | 1355 | 387 | 327 | 108 | 180 | 50 | -   | -   | 600 | 350 |
| RIS-2500- H-EKO-W   | 2100 | -    | -    | -   | 900  | 490 | 1355 | 387 | 327 | 108 | 180 | 50 | -   | -   | 600 | 350 |
| RIS-3500- H-EKO-S/E | 2756 | 909  | 1132 | 709 | 946  | 494 | 1600 | 413 | 413 | 129 | 180 | 65 | 192 | -   | 800 | 500 |
| RIS-3500- H-EKO-W   | 2756 | 909  | 1132 | 709 | 946  | 494 | 1600 | 413 | 413 | 129 | 180 | 65 | 192 | -   | 800 | 500 |
| RIS-5500- H-EKO-S/E | 2644 | 1740 | 900  | -   | 1670 | 835 | 1600 | 415 | 415 | -   | 180 | 55 | -   | -   | 800 | 500 |
| RIS-5500- H-EKO-W   | 2644 | 1740 | 900  | -   | 1670 | 835 | 1600 | 415 | 415 | -   | 180 | 55 | -   | -   | 800 | 500 |

## CJFILTER/REC filter box configurations

**CJFILTER/REC — 300x600-250 — CA**

Model

Box size

Filters available  
F7  
F9  
CA (Active Carbon)  
H10  
H13



Filter box part numbers according to machine size and inlet/outlet cross-section

| Model          | Box size         |
|----------------|------------------|
| RIS-700-H-EKO  | 300x600-250      |
| RIS-1200-H-EKO | 600x600-315      |
| RIS-1900-H-EKO | 600x600-400      |
| RIS-2500-H-EKO | 600x900-350x600  |
| RIS-3500-H-EKO | 600x900-500x800  |
| RIS-5500-H-EKO | 600x1200-500x800 |

For more information, see CJFILTER/REC section.

# RIRS H EKO



Heat recovery ventilators with rotating exchanger, automatic control and EC motor, designed for horizontal ducts and installation on roof or in technical room



FLEX panel included in all models

**Common characteristics:**

- Efficient low-noise EC adjustable fans.
- Maintenance switch – disconnecter incorporated.
- Thermal efficiency of up to 80%.
- Sound insulation 50mm thick for low noise level.
- Large access doors for correct maintenance.
- Tray for collecting condensation with drainage.

**PRV 3.0 control functions incorporated:**

- Free cooling function.
- Fan speed control by manual selection or optional external sensors (CO2 or pressure).
- Frost protection built-in.
- Built-in control system with FLEX remote control panel (including 13 m cable).
- ON/OFF and speed control available through panel or external switches.
- Control of external DX coolers.
- Built-in temperature and humidity sensors.

- Filter condition control through built-in pressure switches (for some models).
- Management of fire alarms and equipment failure alarms.
- Compatible with MODBUS RTU.
- Models 400 and 700 have additional extraction without recovery, for kitchen fumes.

**Finish:**

- Silver/Ral 7040 paint.

**Versions:**

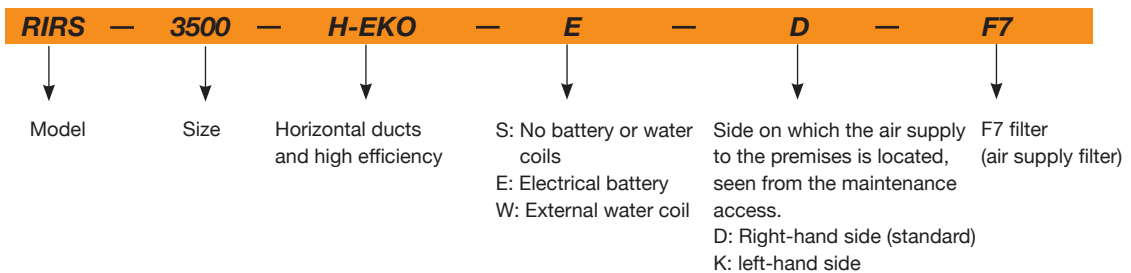
- Environmental: Renewal of air without supplying heat (S).
- Electric: With heating supplied by single-stage electrically heated coils (E).
- Water battery: With heating supplied by water coils external to the machine (W).



**On request:**

- Boxes with special filters.
- Adiabatic module.
- Cover for roof installation.

**Order code**



|   | RIRS-400 | RIRS-700 | RIRS-1200 | RIRS-1900 | RIRS-2500 | RIRS-3500 | RIRS-5500 |
|---|----------|----------|-----------|-----------|-----------|-----------|-----------|
| Standard filters (supply/extraction)  | F7/M5    | F7/M5    | F7/M5     | F7/M5     | F7/M5     | F7/M5     | F7/M5     |
| Free cooling function 100% of flow  | YES      | YES      | YES       | YES       | YES       | YES       | YES       |
| Side for maintenance access can be changed (D↔K)                            | YES      | YES      | YES       | YES       | YES       | YES       | NO        |
| Version availability according to maintenance access side (versions D or K) | D/K      | D/K      | D/K       | D/K       | D/K       | D/K       | D         |
| Built-in pressure switches for filter condition control                     | -        | -        | YES       | YES       | YES       | YES       | YES       |

## Technical characteristics

| Model             | Double-inlet  |             |            | Maximum flow F7 (m3/h) | Thermal efficiency (%) | LpA radiated 3m dB(A) | Total voltage (V) | Total current (A) | Total power (kW) | Weight (Kg) | According ErP |
|-------------------|---------------|-------------|------------|------------------------|------------------------|-----------------------|-------------------|-------------------|------------------|-------------|---------------|
|                   | Speed (r/min) | Current (A) | Power (kW) |                        |                        |                       |                   |                   |                  |             |               |
| RIRS-400-H-EKO S  | 3490          | 2x1.20      | 2x0,132    | 540                    | 75                     | 55                    | 1x230             | 2.46              | 0.3              | 72          | 2018          |
| RIRS-400-H-EKO E  | 3490          | 2x1.20      | 2x0,132    | 540                    | 75                     | 55                    | 1x230             | 7.66              | 1.5              | 72          | 2018          |
| RIRS-400-H-EKO W  | 3490          | 2x1.20      | 2x0,132    | 540                    | 75                     | 55                    | 1x230             | 2.46              | 0.3              | 80.5        | 2018          |
| RIRS-700-H-EKO S  | 3380          | 2x1.80      | 2x0,210    | 750                    | 75                     | 55                    | 1x230             | 3.74              | 0.4              | 96          | 2018          |
| RIRS-700-H-EKO E  | 3380          | 2x1.80      | 2x0,210    | 750                    | 75                     | 55                    | 1x230             | 12.44             | 2.4              | 96          | 2018          |
| RIRS-700-H-EKO W  | 3380          | 2x1.80      | 2x0,210    | 750                    | 75                     | 55                    | 1x230             | 3.74              | 0.4              | 108.5       | 2018          |
| RIRS-1200-H-EKO S | 3400          | 2x2.80      | 2x0,430    | 1400                   | 80                     | 57                    | 1x230             | 5.87              | 0.9              | 160         | 2018          |
| RIRS-1200-H-EKO E | 3400          | 2x2.80      | 2x0,430    | 1400                   | 80                     | 57                    | 2x400             | 15.87             | 4.9              | 162         | 2018          |
| RIRS-1200-H-EKO W | 3400          | 2x2.80      | 2x0,430    | 1400                   | 80                     | 57                    | 1x230             | 5.87              | 0.9              | 176         | 2018          |
| RIRS-1900-H-EKO S | 2600          | 2x3.20      | 2x0,500    | 2150                   | 74                     | 61                    | 1x230             | 6.62              | 1.0              | 160         | 2018          |
| RIRS-1900-H-EKO E | 2600          | 2x3.20      | 2x0,500    | 2150                   | 74                     | 61                    | 3x400             | 19.62             | 10.0             | 162         | 2018          |
| RIRS-1900-H-EKO W | 2600          | 2x3.20      | 2x0,500    | 2150                   | 74                     | 61                    | 1x230             | 6.62              | 1.0              | 176         | 2018          |
| RIRS-2500-H-EKO S | 2800          | 2x3.35      | 2x0,750    | 2900                   | 80                     | 62                    | 1x230             | 6.95              | 1.5              | 348         | 2018          |
| RIRS-2500-H-EKO E | 2800          | 2x3.35      | 2x0,750    | 2900                   | 80                     | 62                    | 3x400             | 19.95             | 10.5             | 350         | 2018          |
| RIRS-2500-H-EKO W | 2800          | 2x3.50      | 2x0,750    | 2900                   | 80                     | 62                    | 1x230             | 6.95              | 1.5              | 366         | 2018          |
| RIRS-3500-H-EKO S | 2390          | 2x5.75      | 2x1,300    | 4500                   | 80                     | 66                    | 1x230             | 12.13             | 2.7              | 490         | 2018          |
| RIRS-3500-H-EKO E | 2390          | 2x5.75      | 2x1,300    | 4500                   | 80                     | 66                    | 3x400             | 29.43             | 14.7             | 492         | 2018          |
| RIRS-3500-H-EKO W | 2390          | 2x5.75      | 2x1,300    | 4500                   | 80                     | 66                    | 1x230             | 12.13             | 2.7              | 514         | 2018          |
| RIRS-5500-H-EKO S | 2180          | 2x3.20      | 2x2,000    | 6900                   | 80                     | 78                    | 3x400             | 6.65              | 4.2              | 623         | 2018          |
| RIRS-5500-H-EKO E | 2180          | 2x3.20      | 2x2,000    | 6900                   | 80                     | 78                    | 3x400             | 28.35             | 19               | 625         | 2018          |
| RIRS-5500-H-EKO W | 2180          | 2x3.20      | 2x2,000    | 6900                   | 80                     | 78                    | 3x400             | 6.65              | 4.2              | 647         | 2018          |

## Technical characteristics of models with electrically heated coil



| Model             | Voltage (V) | Power (kW) |
|-------------------|-------------|------------|
| RIRS-400-H-EKO-E  | 1X230       | 1.2        |
| RIRS-700-H-EKO-E  | 1X230       | 2          |
| RIRS-1200-H-EKO-E | 2X400       | 4          |
| RIRS-1900-H-EKO-E | 3X400       | 9          |
| RIRS-2500-H-EKO-E | 3X400       | 9          |
| RIRS-3500-H-EKO-E | 3X400       | 12         |
| RIRS-5500-H-EKO-E | 3X400       | 14.8       |

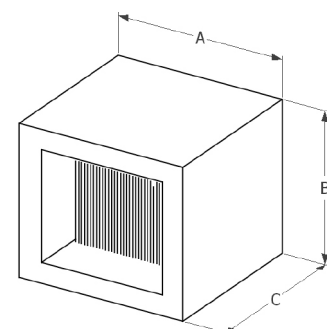
## Technical characteristics of models with water coil at 80/60 °C



| Model             | Heat power (kW) | Water flow (l/s) | Head loss (kPa) | Air speed (m/s) | Max. temperature difference (°C) | Coil thread diam |
|-------------------|-----------------|------------------|-----------------|-----------------|----------------------------------|------------------|
| RIRS-400-H-EKO-W  | 6.25            | 0.08             | 15.24           | 3.4             | 33.5                             | 1/2"             |
| RIRS-700-H-EKO-W  | 10.6            | 0.13             | 9.32            | 3.37            | 31.38                            | 1/2"             |
| RIRS-1200-H-EKO-W | 15.6            | 0.19             | 9.49            | 2.9             | 33                               | 1/2"             |
| RIRS-1900-H-EKO-W | 18.2            | 0.22             | 12.5            | 3.83            | 30                               | 1/2"             |
| RIRS-2500-H-EKO-W | 20              | 0.24             | 15.62           | 2.44            | 20                               | 1/2"             |
| RIRS-3500-H-EKO-W | 18.25           | 0.35             | 18.25           | 2.06            | 21.5                             | 3/4"             |
| RIRS-5500-H-EKO-W | 33              | 0.4              | 22.97           | 2.57            | 20                               | 3/4"             |

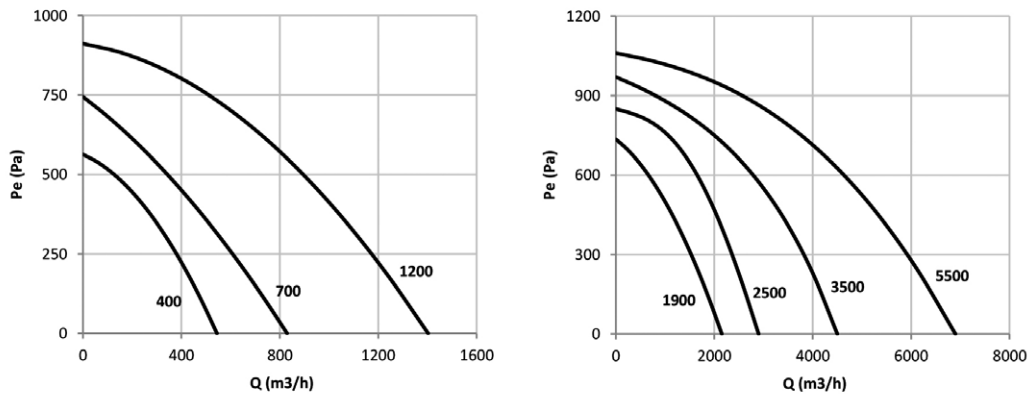
\* Data at 80/60°C, machine's maximum flow and outside temperature = 0°C

| Model             | A    | B   | C   |
|-------------------|------|-----|-----|
| RIRS-400-H-EKO-W  | 289  | 265 | 304 |
| RIRS-700-H-EKO-W  | 364  | 395 | 342 |
| RIRS-1200-H-EKO-W | 439  | 460 | 342 |
| RIRS-1900-H-EKO-W | 439  | 460 | 342 |
| RIRS-2500-H-EKO-W | 880  | 838 | 756 |
| RIRS-3500-H-EKO-W | 880  | 838 | 756 |
| RIRS-5500-H-EKO-W | 1150 | 944 | 795 |



External water coils

**Characteristic Curves**



**Acoustic features**

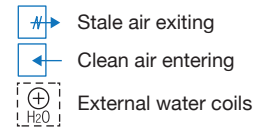
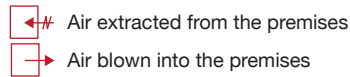
The values specified are determined according to free field measurements of sound levels in dB(A) at a distance of no less than 3 m from the equipment.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz

| Model     | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|-----------|----|-----|-----|-----|------|------|------|------|
| RIRS-400  | 41 | 43  | 44  | 53  | 48   | 45   | 44   | 41   |
| RIRS-700  | 44 | 48  | 48  | 51  | 49   | 46   | 44   | 43   |
| RIRS-1200 | 51 | 52  | 53  | 47  | 44   | 41   | 35   | 33   |
| RIRS-1900 | 42 | 44  | 58  | 53  | 51   | 53   | 50   | 48   |
| RIRS-2500 | 44 | 45  | 52  | 60  | 54   | 52   | 48   | 43   |
| RIRS-3500 | 52 | 55  | 60  | 61  | 58   | 56   | 50   | 48   |
| RIRS-5500 | 58 | 60  | 71  | 73  | 72   | 69   | 64   | 57   |

**Configurations**

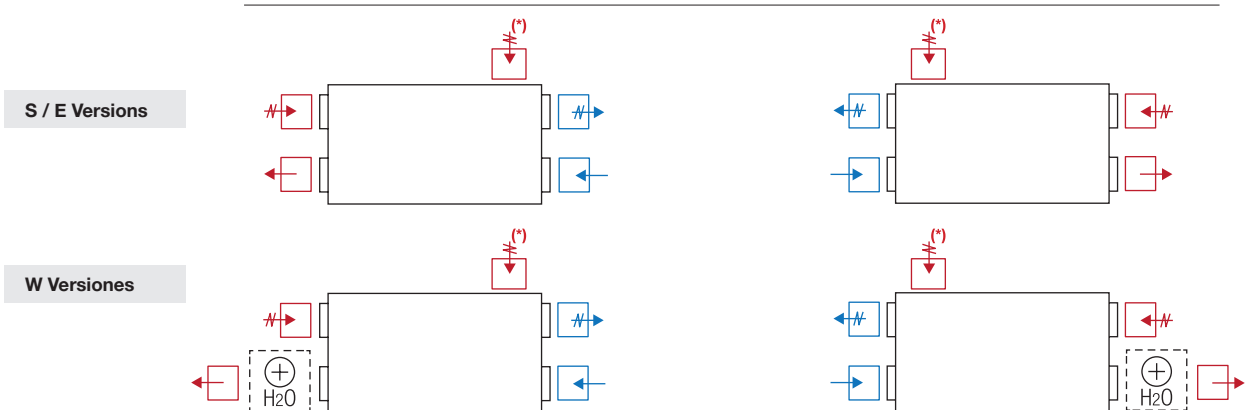
View of machine from the maintenance access side



(\*) Extraction of air from the premises without recovery, only for models 400 and 700.

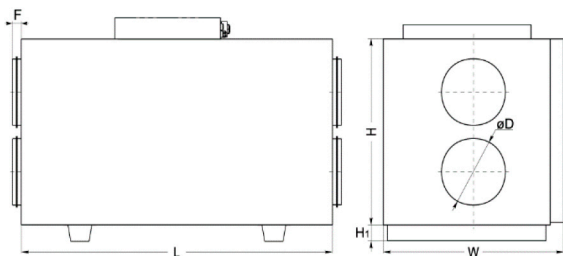
**Configuration D**

**Configuration K**

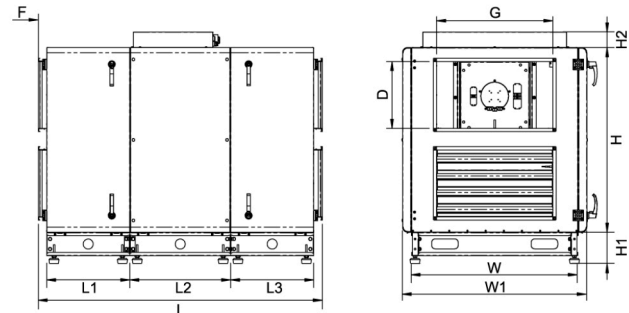


## Dimensions in mm

RIRS-400/700/1200/1900



RIRS-2500/3500/5500



| Modelo              | L    | L1  | L2  | L3  | W    | W1   | H    | H1  | H2  | øD  | G   | D   | F  |
|---------------------|------|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|----|
| RIRS-400-H-EKO-S/E  | 1000 | -   | -   | -   | 560  | -    | 610  | 40  | -   | 200 | -   | -   | 30 |
| RIRS-400-H-EKO-W    | 1000 | -   | -   | -   | 560  | -    | 610  | 40  | -   | 200 | -   | -   | 30 |
| RIRS-700-H-EKO-S/E  | 1100 | -   | -   | -   | 653  | -    | 700  | 40  | -   | 250 | -   | -   | 40 |
| RIRS-700-H-EKO-W    | 1100 | -   | -   | -   | 653  | -    | 700  | 40  | -   | 250 | -   | -   | 40 |
| RIRS-1200-H-EKO-S/E | 1350 | -   | -   | -   | 853  | -    | 900  | 70  | -   | 315 | -   | -   | 40 |
| RIRS-1200-H-EKO-W   | 1350 | -   | -   | -   | 853  | -    | 900  | 70  | -   | 315 | -   | -   | 40 |
| RIRS-1900-H-EKO-S/E | 1350 | -   | -   | -   | 853  | -    | 900  | 70  | -   | 315 | -   | -   | 40 |
| RIRS-1900-H-EKO-W   | 1350 | -   | -   | -   | 853  | -    | 900  | 70  | -   | 315 | -   | -   | 40 |
| RIRS-2500-H-EKO-S/E | 1608 | 500 | 606 | 500 | 1000 | 1110 | 1105 | 180 | 96  | -   | 700 | 400 | 50 |
| RIRS-2500-H-EKO-W   | 1608 | 500 | 606 | 500 | 1000 | 1110 | 1105 | 180 | 96  | -   | 700 | 400 | 50 |
| RIRS-3500-H-EKO-S/E | 1901 | 630 | 628 | 630 | 1032 | 1205 | 1302 | 194 | 131 | -   | 700 | 400 | 50 |
| RIRS-3500-H-EKO-W   | 1901 | 630 | 628 | 630 | 1032 | 1205 | 1302 | 194 | 131 | -   | 700 | 400 | 50 |
| RIRS-5500-H-EKO-S/E | 1908 | 600 | 700 | 600 | 1394 | 1408 | 1485 | 192 | 103 | -   | 800 | 500 | 50 |
| RIRS-5500-H-EKO-W   | 1908 | 600 | 700 | 600 | 1394 | 1408 | 1485 | 192 | 103 | -   | 800 | 500 | 50 |

## CJFILTER/REC filter box configurations

**CJFILTER/REC — 300x600-250 — CA**

Model



Box size

Filters available  
F7  
F9  
CA (Active Carbon)  
H10  
H13

Filter box part numbers according to machine size and inlet/outlet cross-section

| Model           | Box size         |
|-----------------|------------------|
| RIRS-400-H-EKO  | 300x600-200      |
| RIRS-700-H-EKO  | 300x600-250      |
| RIRS-1200-H-EKO | 600x600-315      |
| RIRS-1900-H-EKO | 600x600-315      |
| RIRS-2500-H-EKO | 600x900-400x700  |
| RIRS-3500-H-EKO | 600x900-400x700  |
| RIRS-5500-H-EKO | 600x1200-500x800 |

For more information, see CJFILTER/REC section.

## Accessories

See accessories section



FILTERS

CJFILTER/REC

ADIABATIC BOX

PRESSURE SWITCH

CO2 PROBE

TEJ

# RIRS V EKO



Heat recovery ventilators with rotating exchanger, automatic control and EC motor, designed for vertical ducts and installation in technical room



FLEX panel included in all models

**Common characteristics:**

- Efficient low-noise EC adjustable fans.
- Maintenance switch – disconnecter incorporated.
- Thermal efficiency of up to 80%.
- Sound insulation 50mm thick for low noise level.
- Large access doors for correct maintenance.
- Tray for collecting condensation with drainage.

**PRV 3.0 control functions incorporated:**

- Free cooling function.
- Fan speed control by manual selection or optional external sensors (CO2 or pressure).
- Frost protection built-in.
- Built-in control system with FLEX remote control panel (including 13 m cable).
- ON/OFF and speed control available through panel or external switches.
- Control of external DX coolers.

- Built-in temperature and humidity sensors.
- Filter condition control through built-in pressure switches.
- Management of fire alarms and equipment failure alarms.
- Compatible with MODBUS RTU.

**Finish:**

- Silver/Ral 7040 paint.

**Versions:**

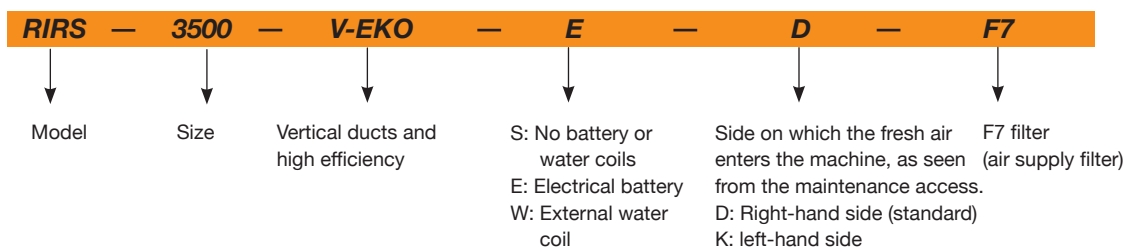
- Environmental: Renewal of air without supplying heat (S).
- Electric: With heating supplied by single-stage electrically heated coils (E).
- Water battery: With heating supplied by water coils external to the machine (W).



**On request:**

- Boxes with special filters.
- Adiabatic module.

## Order code



## Characteristics, depending on size

|   | RIRS-400 | RIRS-700 | RIRS-1200 | RIRS-1900 | RIRS-2500 | RIRS-3500 | RIRS-5500 |
|---|----------|----------|-----------|-----------|-----------|-----------|-----------|
| Standard filters (supply/extraction)  | F7/M5    | F7/M5    | F7/M5     | F7/M5     | F7/M5     | F7/M5     | F7/M5     |
| Free cooling function 100% of flow  | YES      | YES      | YES       | YES       | YES       | YES       | YES       |
| Side for maintenance access can be changed (D↔K)                            | -        | -        | -         | -         | YES       | YES       | YES       |
| Version availability according to maintenance access side (versions D or K) | D/K      | D/K      | D/K       | D/K       | D/K       | D/K       | D/K       |



## Technical characteristics

| Model             | Fans          |             |            | Maximum flow F7 (m3/h) | Thermal efficiency (%) | LpA radiated 3m dB(A) | Total voltage (V) | Total current (A) | Total power (kW) | Weight (Kg) | According ErP |
|-------------------|---------------|-------------|------------|------------------------|------------------------|-----------------------|-------------------|-------------------|------------------|-------------|---------------|
|                   | Speed (r/min) | Current (A) | Power (kW) |                        |                        |                       |                   |                   |                  |             |               |
| RIRS-400-V-EKO-S  | 3490          | 2x1.20      | 2x0.13     | 500                    | 75                     | 54                    | 1X230             | 2.66              | 0.35             | 79          | 2018          |
| RIRS-400-V-EKO-E  | 3490          | 2x1.20      | 2x0.13     | 500                    | 75                     | 54                    | 1X230             | 6.84              | 1.50             | 79          | 2018          |
| RIRS-400-V-EKO-W  | 3490          | 2x1.20      | 2x0.13     | 500                    | 75                     | 54                    | 1X230             | 2.66              | 0.35             | 87          | 2018          |
| RIRS-700-V-EKO-S  | 3380          | 2x1.80      | 2x0.22     | 900                    | 74                     | 55                    | 1X230             | 3.60              | 0.45             | 104         | 2018          |
| RIRS-700-V-EKO-E  | 3380          | 2x1.80      | 2x0.22     | 900                    | 74                     | 55                    | 1X230             | 12.30             | 2.45             | 104         | 2018          |
| RIRS-700-V-EKO-W  | 3380          | 2x1.80      | 2x0.22     | 900                    | 74                     | 55                    | 1X230             | 3.60              | 0.45             | 116         | 2018          |
| RIRS-1200-V-EKO-S | 3400          | 2x2.80      | 2x0.41     | 1550                   | 74                     | 57                    | 2X400             | 5.70              | 0.84             | 180         | 2018          |
| RIRS-1200-V-EKO-E | 3400          | 2x2.80      | 2x0.41     | 1550                   | 74                     | 57                    | 2X400             | 15.70             | 4.84             | 180         | 2018          |
| RIRS-1200-V-EKO-W | 3400          | 2x2.80      | 2x0.41     | 1550                   | 74                     | 57                    | 2X400             | 5.70              | 0.84             | 196         | 2018          |
| RIRS-1900-V-EKO-S | 2600          | 2x3.15      | 2x0.50     | 2000                   | 74                     | 60                    | 3X400             | 6.50              | 1.00             | 178         | 2018          |
| RIRS-1900-V-EKO-E | 2600          | 2x3.15      | 2x0.50     | 2000                   | 74                     | 60                    | 3X400             | 19.50             | 10.00            | 180         | 2018          |
| RIRS-1900-V-EKO-W | 2600          | 2x3.15      | 2x0.50     | 2000                   | 74                     | 60                    | 3X400             | 6.50              | 1.00             | 194         | 2018          |
| RIRS-2500-V-EKO-S | 2800          | 2x3.30      | 2x0.75     | 2800                   | 80                     | 62                    | 3X400             | 7.00              | 1.55             | 270         | 2018          |
| RIRS-2500-V-EKO-E | 2800          | 2x3.30      | 2x0.75     | 2800                   | 80                     | 62                    | 3X400             | 20.00             | 10.50            | 280         | 2018          |
| RIRS-2500-V-EKO-W | 2800          | 2x3.30      | 2x0.75     | 2800                   | 80                     | 62                    | 3X400             | 7.00              | 1.55             | 278         | 2018          |
| RIRS-3500-V-EKO-S | 2390          | 2x6.00      | 2x1.35     | 4300                   | 80                     | 64                    | 3X400             | 12.00             | 2.70             | 370         | 2018          |
| RIRS-3500-V-EKO-E | 2390          | 2x6.00      | 2x1.35     | 4300                   | 80                     | 64                    | 3X400             | 29.30             | 14.70            | 380         | 2018          |
| RIRS-3500-V-EKO-W | 2390          | 2x6.00      | 2x1.35     | 4300                   | 80                     | 64                    | 3X400             | 12.00             | 2.70             | 380         | 2018          |
| RIRS-5500-V-EKO-S | 2180          | 2x3.10      | 2x1.90     | 6300                   | 80                     | 74                    | 3X400             | 6.55              | 3.84             | 565         | 2018          |
| RIRS-5500-V-EKO-E | 2180          | 2x3.10      | 2x1.90     | 6300                   | 80                     | 74                    | 3X400             | 32.55             | 21.84            | 580         | 2018          |
| RIRS-5500-V-EKO-W | 2180          | 2x3.10      | 2x1.90     | 6300                   | 80                     | 74                    | 3X400             | 6.55              | 3.84             | 583         | 2018          |

## Technical characteristics of models with electrically heated coil



| Model             | Voltage (V) | Power (kW) |
|-------------------|-------------|------------|
| RIRS-400-V-EKO-E  | 1X230       | 1.2        |
| RIRS-700-V-EKO-E  | 1X230       | 2          |
| RIRS-1200-V-EKO-E | 2X400       | 4          |
| RIRS-1900-V-EKO-E | 3X400       | 9          |
| RIRS-2500-V-EKO-E | 3X400       | 9          |
| RIRS-3500-V-EKO-E | 3X400       | 12         |
| RIRS-5500-V-EKO-E | 3X400       | 18         |

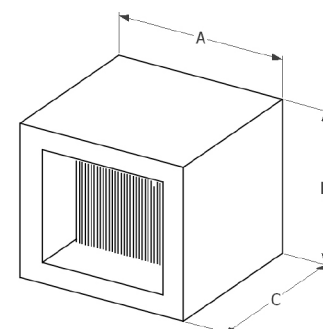
## Technical characteristics of models with water coil at 80/60 °C



| Model             | Heat power (kW) | Water flow (l/s) | Head loss (kPa) | Air speed (m/s) | Max. temperature difference (°C) | Coil thread diam |
|-------------------|-----------------|------------------|-----------------|-----------------|----------------------------------|------------------|
| RIRS-400-V-EKO-W  | 6.25            | 0.08             | 15.24           | 3.4             | 33.5                             | 1/2"             |
| RIRS-700-V-EKO-W  | 10.6            | 0.13             | 9.3             | 3.3             | 31.3                             | 1/2"             |
| RIRS-1200-V-EKO-W | 15.6            | 0.20             | 9.5             | 3.0             | 33                               | 1/2"             |
| RIRS-1900-V-EKO-W | 18.2            | 0.22             | 12.5            | 3.8             | 30                               | 1/2"             |
| RIRS-2500-V-EKO-W | 25              | 0.31             | 5.8             | 5               | 27.5                             | 3/4"             |
| RIRS-3500-V-EKO-W | 31.9            | 0.39             | 9.86            | 5.5             | 26.25                            | 3/4"             |
| RIRS-5500-V-EKO-W | 61              | 0.76             | 7.35            | 4.5             | 28                               | 1"               |

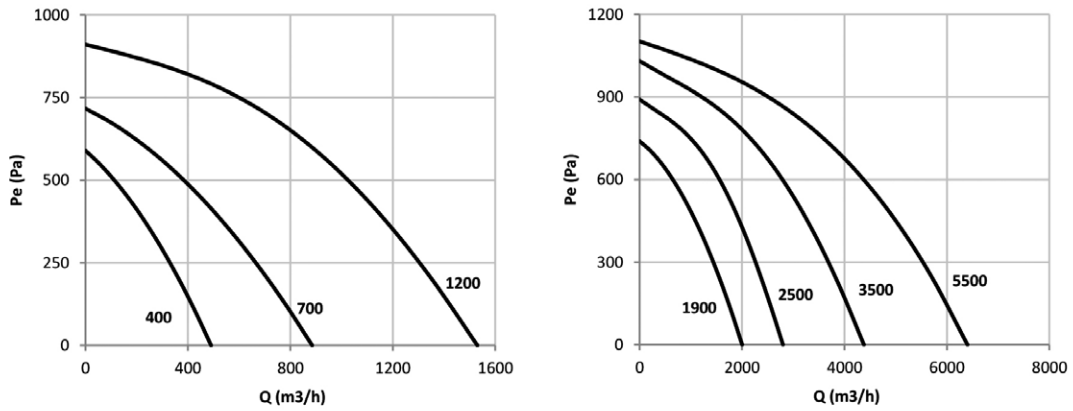
\* Data at 80/60°C, machine's maximum flow and outside temperature = 0°C

| Model             | A   | B   | C   |
|-------------------|-----|-----|-----|
| RIRS-400-V-EKO-W  | 289 | 265 | 304 |
| RIRS-700-V-EKO-W  | 364 | 395 | 342 |
| RIRS-1200-V-EKO-W | 439 | 460 | 342 |
| RIRS-1900-V-EKO-W | 439 | 460 | 342 |
| RIRS-2500-V-EKO-W | 540 | 290 | 300 |
| RIRS-3500-V-EKO-W | 640 | 340 | 300 |
| RIRS-5500-V-EKO-W | 840 | 540 | 300 |



External water coils

**Characteristic Curves**



**Acoustic features**

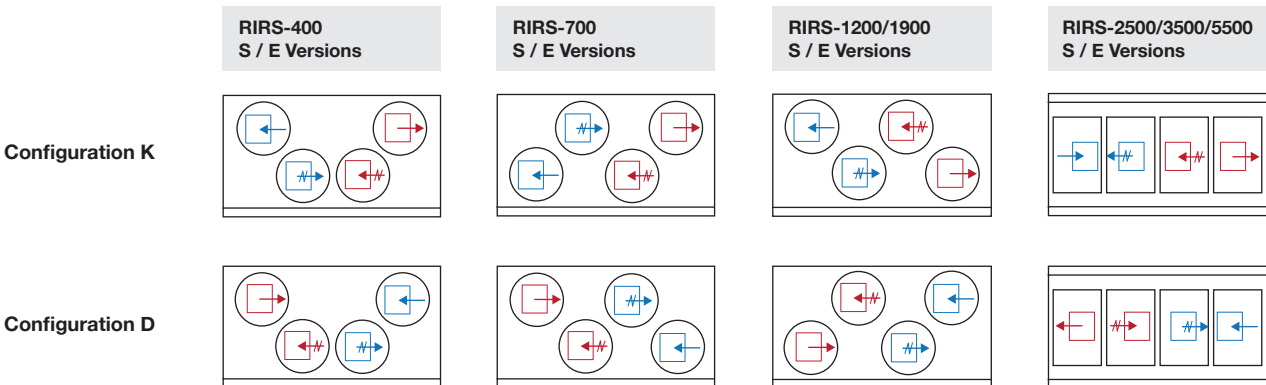
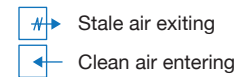
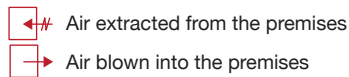
The values specified are determined according to free field measurements of sound levels in dB(A) at a distance of no less than 3 m from the equipment.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz

| Model     | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|-----------|----|-----|-----|-----|------|------|------|------|
| RIRS-400  | 47 | 51  | 48  | 41  | 42   | 43   | 33   | 28   |
| RIRS-700  | 44 | 47  | 50  | 49  | 44   | 43   | 39   | 39   |
| RIRS-1200 | 44 | 47  | 54  | 49  | 47   | 49   | 46   | 36   |
| RIRS-1900 | 41 | 44  | 57  | 51  | 49   | 53   | 52   | 45   |
| RIRS-2500 | 44 | 45  | 54  | 59  | 52   | 52   | 49   | 46   |
| RIRS-3500 | 50 | 55  | 58  | 59  | 57   | 53   | 49   | 45   |
| RIRS-5500 | 57 | 58  | 66  | 69  | 68   | 65   | 51   | 54   |

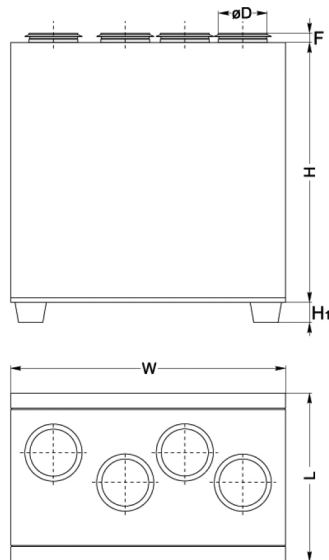
**Configurations**

View of machine from the maintenance access side

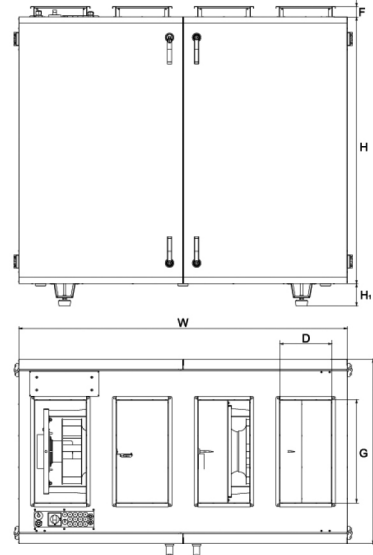


**Dimensions in mm**

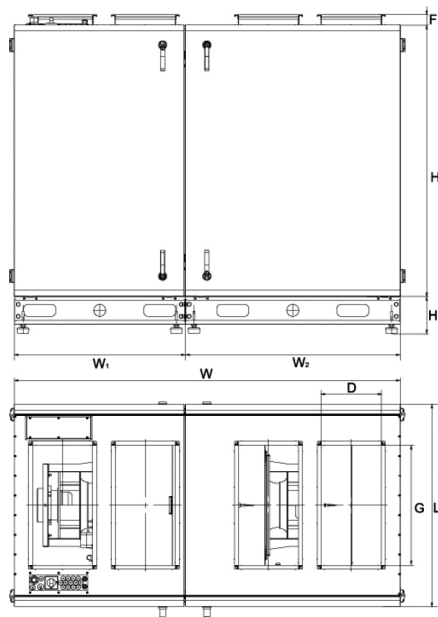
**RIRS-400/700/1200/1900**



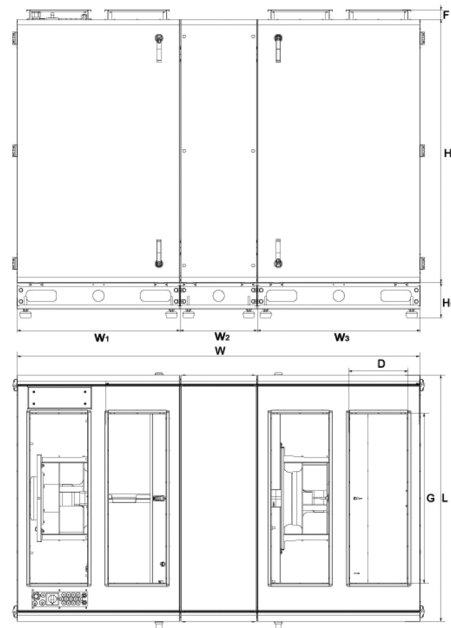
**RIRS-2500**



**RIRS-3500**



**RIRS-5500**



| Model               | L    | W    | W1  | W2   | W3  | H    | H1  | øD  | G   | D   | F  |
|---------------------|------|------|-----|------|-----|------|-----|-----|-----|-----|----|
| RIRS-400-V-EKO-S/E  | 553  | 900  | -   | -    | -   | 850  | 40  | 160 | -   | -   | 30 |
| RIRS-400-V-EKO-W    | 553  | 900  | -   | -    | -   | 850  | 40  | 160 | -   | -   | 30 |
| RIRS-700-V-EKO-S/E  | 655  | 1100 | -   | -    | -   | 980  | 40  | 250 | -   | -   | 40 |
| RIRS-700-V-EKO-W    | 655  | 1100 | -   | -    | -   | 980  | 40  | 250 | -   | -   | 40 |
| RIRS-1200-V-EKO-S/E | 855  | 1500 | -   | -    | -   | 1150 | 70  | 315 | -   | -   | 40 |
| RIRS-1200-V-EKO-W   | 855  | 1500 | -   | -    | -   | 1150 | 70  | 315 | -   | -   | 40 |
| RIRS-1900-V-EKO-S/E | 855  | 1500 | -   | -    | -   | 1150 | 70  | 315 | -   | -   | 40 |
| RIRS-1900-V-EKO-W   | 855  | 1500 | -   | -    | -   | 1150 | 70  | 315 | -   | -   | 40 |
| RIRS-2500-V-EKO-S/E | 900  | 1600 | -   | -    | -   | 1300 | 110 | -   | 500 | 250 | 50 |
| RIRS-2500-V-EKO-W   | 900  | 1600 | -   | -    | -   | 1300 | 110 | -   | 500 | 250 | 50 |
| RIRS-3500-V-EKO-S/E | 1010 | 1930 | 850 | 1075 | -   | 1355 | 190 | -   | 600 | 300 | 50 |
| RIRS-3500-V-EKO-W   | 1010 | 1930 | 850 | 1075 | -   | 1355 | 190 | -   | 600 | 300 | 50 |
| RIRS-5500-V-EKO-S/E | 1310 | 2120 | 855 | 400  | 855 | 1400 | 190 | -   | 900 | 300 | 50 |
| RIRS-5500-V-EKO-W   | 1310 | 2120 | 855 | 400  | 855 | 1400 | 190 | -   | 900 | 300 | 50 |

**CJFILTER/REC filter box configurations**

**CJFILTER/REC — 300x600-250 — CA**

Model



Box size

Filters available  
F7  
F9  
CA (Active Carbon)  
H10  
H13

Filter box part numbers according to machine size and inlet/outlet cross-section

| Model           | Box size         |
|-----------------|------------------|
| RIRS-400-V-EKO  | 300x600-200      |
| RIRS-700-V-EKO  | 300x600-250      |
| RIRS-1200-V-EKO | 600x600-315      |
| RIRS-1900-V-EKO | 600x600-315      |
| RIRS-2500-V-EKO | 600x900-400x700  |
| RIRS-3500-V-EKO | 600x900-400x700  |
| RIRS-5500-V-EKO | 600x1200-500x800 |

For more information, see CJFILTER/REC section.

**Accessories**

See accessories section



FILTERS

CJFILTER/REC

ADIABATIC BOX

PRESSURE SWITCH

CO2 PROBE

# CJFILTER/REC

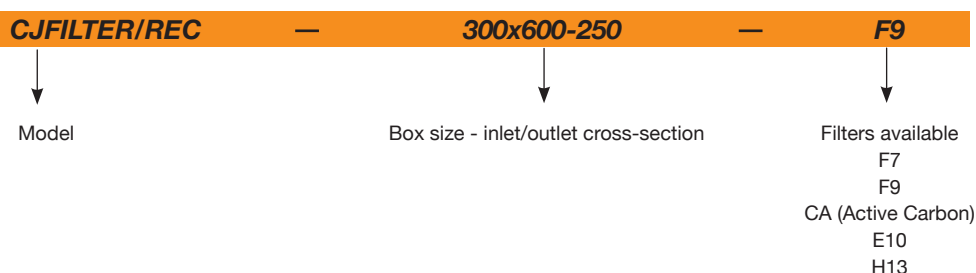
Air filter boxes for circular ducts equipped with different types of filter, depending on model



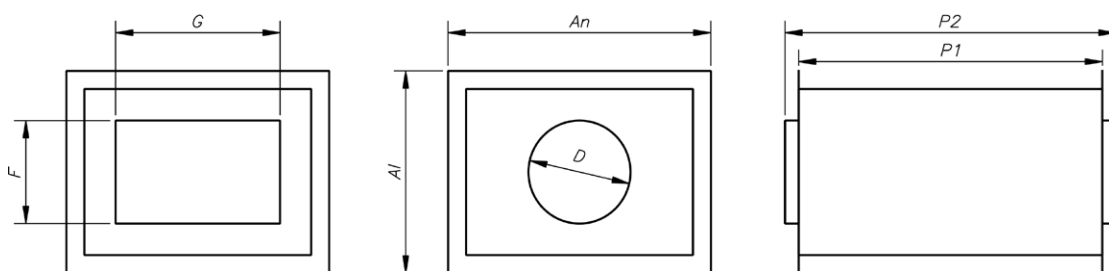
Principal characteristics:

- Side access panel for maintenance.
- Easy to install.
- Quick and easy filter replacement using rails.
- 5mm-thick sound insulation.
- Low-profile models for fitting in false ceiling.
- Compact F7 and F9 filters for mounting on 98mm rail.
- Polyhedral filters 292mm deep with efficiency levels E10, H13 and CA (Active Carbon) for mounting on 25mm rail.

## Order code

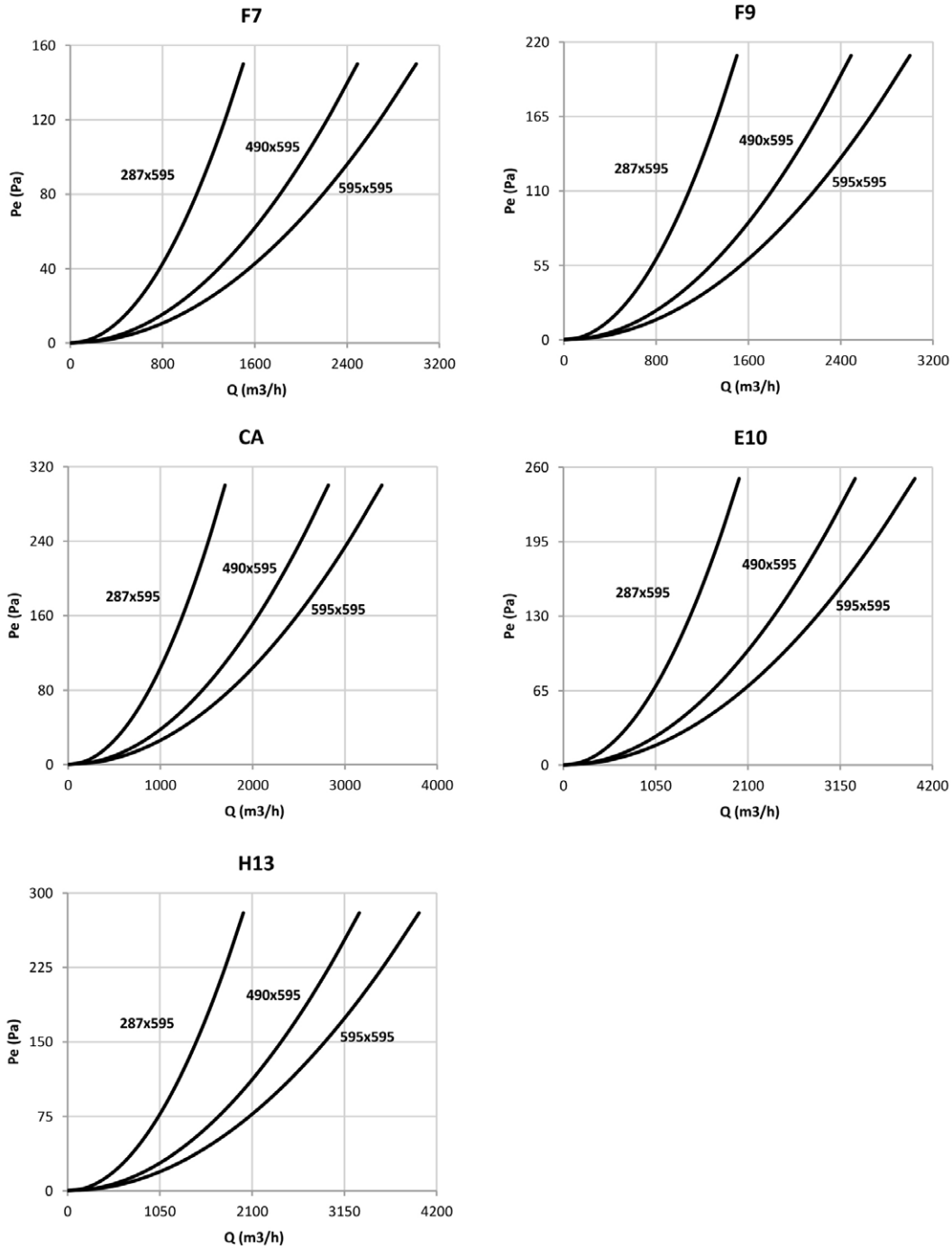


## Dimensions in mm



| Model                        | Al  | An  | P1  | P2  | F   | G   | D   | Model                         | Al  | An   | P1  | P2  | F   | G   | D   |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-------------------------------|-----|------|-----|-----|-----|-----|-----|
| CJFILTER/REC-300x600-150     | 370 | 640 | 450 | 530 | -   | -   | 150 | CJFILTER/REC-600x1200-450     | 670 | 1240 | 450 | 530 | -   | -   | 450 |
| CJFILTER/REC-300x600-160     | 370 | 640 | 450 | 530 | -   | -   | 160 | CJFILTER/REC-600x1200-500x800 | 670 | 1240 | 450 | 530 | 500 | 800 | -   |
| CJFILTER/REC-300x600-200     | 370 | 640 | 450 | 530 | -   | -   | 200 | CJFILTER/REC-600x600-315      | 670 | 640  | 450 | 530 | -   | -   | 315 |
| CJFILTER/REC-300x600-250     | 370 | 640 | 450 | 530 | -   | -   | 250 | CJFILTER/REC-600x600-400      | 670 | 640  | 450 | 530 | -   | -   | 400 |
| CJFILTER/REC-300x600-250x500 | 370 | 640 | 450 | 530 | 250 | 500 | -   | CJFILTER/REC-600x900-315      | 670 | 940  | 450 | 530 | -   | -   | 315 |
| CJFILTER/REC-500x700-250x500 | 570 | 740 | 450 | 530 | 250 | 500 | -   | CJFILTER/REC-600x900-350x600  | 670 | 940  | 450 | 530 | 350 | 600 | -   |
| CJFILTER/REC-500x700-300x700 | 570 | 740 | 450 | 530 | 300 | 700 | -   | CJFILTER/REC-600x900-355      | 670 | 940  | 450 | 530 | -   | -   | 355 |
| CJFILTER/REC-500x700-315     | 570 | 740 | 450 | 530 | -   | -   | 315 | CJFILTER/REC-600x900-400x700  | 670 | 940  | 450 | 530 | 400 | 700 | -   |
| CJFILTER/REC-500x700-355     | 570 | 740 | 450 | 530 | -   | -   | 355 | CJFILTER/REC-600x900-450      | 670 | 940  | 450 | 530 | -   | -   | 450 |
| CJFILTER/REC-500x700-400x700 | 570 | 740 | 450 | 530 | 400 | 700 | -   | CJFILTER/REC-600x900-500x800  | 670 | 940  | 450 | 530 | 500 | 800 | -   |

**Characteristic curves (head losses)**



**Codes of available filters and filter combinations according to box sizes**

| No OF FILTERS ACCORDING TO BOX SIZE |             |         |         |
|-------------------------------------|-------------|---------|---------|
| BOX SIZE<br>(Height x Width)        | FILTER SIZE |         |         |
|                                     | 287x592     | 490x592 | 592x592 |
| 300x600                             | 1           | -       | -       |
| 500x700                             | -           | 1       | -       |
| 600x600                             | -           | -       | 1       |
| 900x600                             | 1           | -       | 1       |
| 1200x600                            | -           | -       | 2       |

| FILTER SIZE | FILTER CODE ACCORDING TO SIZE AND EFFICIENCY |         |         |         |         |
|-------------|--|---------|---------|---------|---------|
|             | F7   | F9      | CA      | E10     | H13     |
| 287x595     | 1104804                                      | 1104833 | 1082526 | 1104852 | 1104857 |
| 490x595     | 1104832                                      | 1104846 | 1104849 | 1104855 | 1104858 |
| 595x595     | 1082426                                      | 1104847 | 1082525 | 1104856 | 1104859 |

# SV/FILTER

Low noise in-line duct extractors with different stages of filtration



- G4 + F6
- F6 + F8
- F7 + F9

#### Features:

- Acoustic casing covered with sound absorbing material.
- Standard flanged inlet and outlet to aid in duct installation.
- G4 + F6, F6 + F8 and F7 + F9 filters, according to model.
- Easy access inspection and cleaning cover.

#### Construction:

- Galvanized sheet steel casing.
- Backward-curved turbine, except models 125 and 150, which have multi-blade impellers. Supplied with four mounting brackets, to make installation easier.
- Access doors to facilitate maintenance and cleaning.

#### Motor:

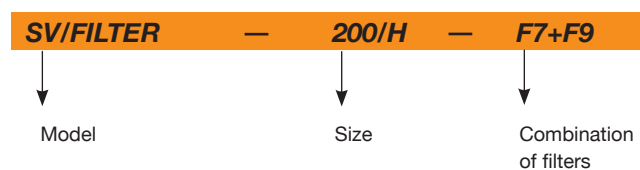
- Class F motors with external rotor, ball bearings, IP-54 protection, and built-in thermal protector.
- 230V single-phase. -50/60Hz. Adjustable.
- Max. temperature of air for transport +50°C.

#### Finish:

- Anticorrosive finish in polyester resin polymerised at 190°C, after degreasing with phosphate-free nanotechnology treatment.



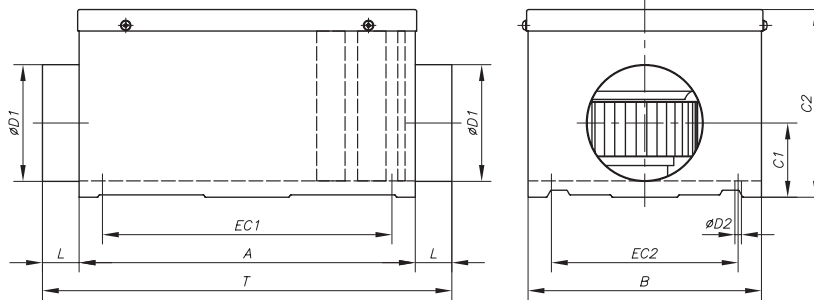
### Order code



### Technical characteristics

| Model           | Speed<br>(r/min) | Max. admissible current (A)<br>230V | Installed power<br>(kW) | Maximum airflow (m <sup>3</sup> /h) |                 |                 | No. pre-filters | No. Filters | Filter Dimensions (mm) |             | Weight (Kg) | According ErP |
|-----------------|------------------|-------------------------------------|-------------------------|-------------------------------------|-----------------|-----------------|-----------------|-------------|------------------------|-------------|-------------|---------------|
|                 |                  |                                     |                         | Filters (G4+F6)                     | Filters (F6+F8) | Filters (F7+F9) |                 |             | Filters (G4)           | Filters (F) |             |               |
| SV/FILTER-125/H | 2220             | 0,65                                | 0,08                    | 300                                 | 255             | 240             | 1               | 1           | 282x194x48             | 282x194x98  | 9,1         | 2018          |
| SV/FILTER-150/H | 2200             | 1,25                                | 0,17                    | 445                                 | 385             | 360             | 1               | 1           | 334x216x48             | 334x216x98  | 12,3        | 2018          |
| SV/FILTER-200/H | 1240             | 0,85                                | 0,12                    | 590                                 | 430             | 375             | 1               | 1           | 389x248x48             | 389x248x98  | 15,1        | 2018          |
| SV/FILTER-250/H | 2380             | 0,95                                | 0,14                    | 660                                 | 560             | 525             | 1               | 1           | 414x267x48             | 414x267x98  | 17,8        | 2018          |
| SV/FILTER-315/H | 1330             | 0,75                                | 0,12                    | 1035                                | 850             | 790             | 1               | 1           | 513x344x48             | 513x344x98  | 26,4        | 2018          |
| SV/FILTER-350/H | 1280             | 0,95                                | 0,14                    | 1550                                | 1270            | 1180            | 1               | 1           | 602x385x48             | 602x385x98  | 36,3        | 2018          |
| SV/FILTER-400/H | 1330             | 1,80                                | 0,30                    | 2050                                | 1720            | 1600            | 1               | 1           | 660x405x48             | 660x405x98  | 46,4        | 2018          |

**Dimensions in mm**

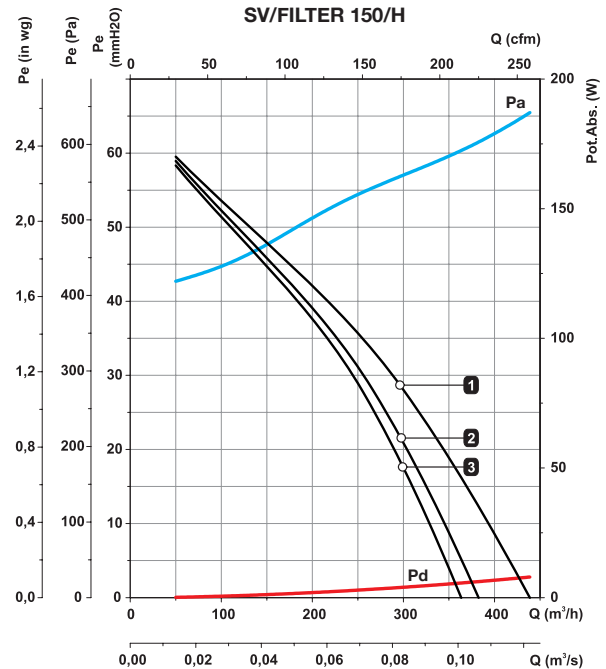
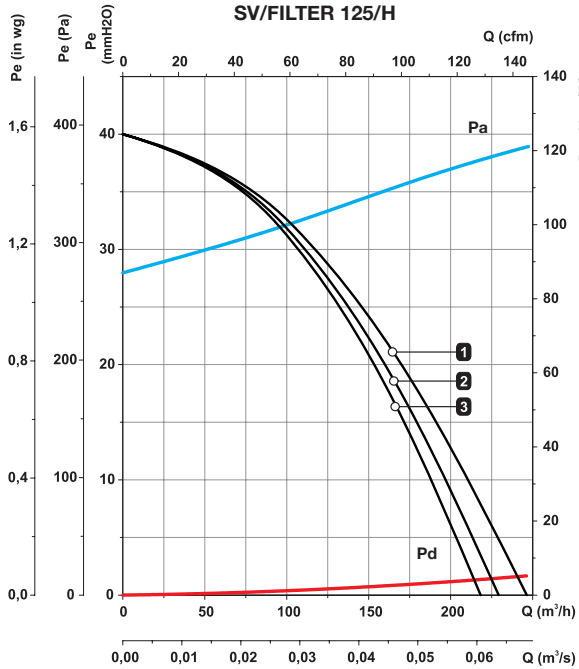


| Model           | A    | B   | C1  | C2  | Ø D1 | L    | Ø D2 | EC1 | EC2 | T    |
|-----------------|------|-----|-----|-----|------|------|------|-----|-----|------|
| SV/FILTER-125/H | 657  | 290 | 80  | 222 | 125  | 36.5 | 7    | 607 | 240 | 730  |
| SV/FILTER-150/H | 700  | 340 | 92  | 244 | 150  | 36.5 | 7    | 650 | 290 | 773  |
| SV/FILTER-200/H | 775  | 395 | 117 | 273 | 200  | 36   | 7    | 725 | 345 | 847  |
| SV/FILTER-250/H | 775  | 395 | 140 | 293 | 250  | 50   | 7    | 725 | 345 | 875  |
| SV/FILTER-315/H | 860  | 520 | 175 | 371 | 315  | 48   | 8.5  | 809 | 469 | 956  |
| SV/FILTER-350/H | 960  | 610 | 200 | 410 | 355  | 48   | 8.5  | 909 | 564 | 1056 |
| SV/FILTER-400/H | 1035 | 670 | 219 | 455 | 400  | 38   | 8.5  | 984 | 624 | 1111 |

**Characteristic Curves**

Equipment curve according to built-in filters **1** G4+F6 **2** F6+F8 **3** F7+F9

Static pressure                           Dynamic pressure      Absorbed power





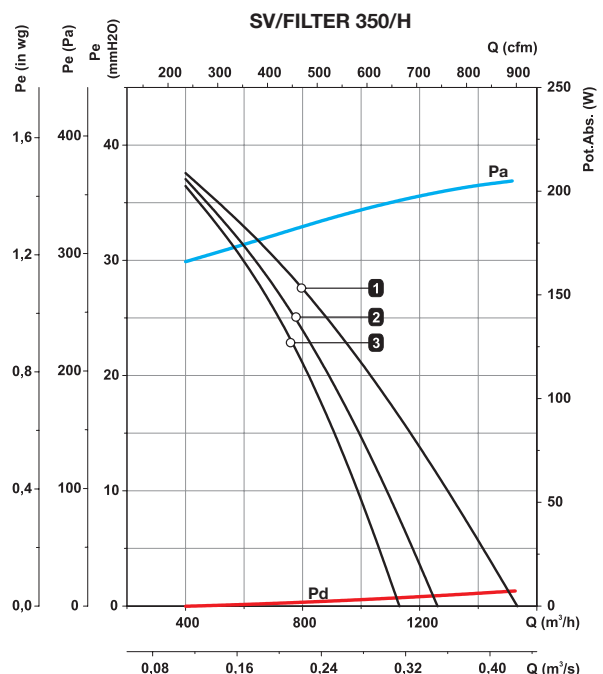
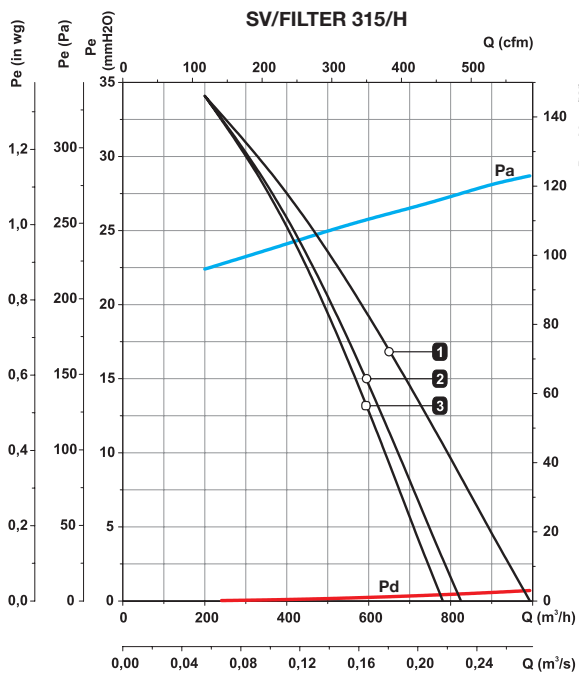
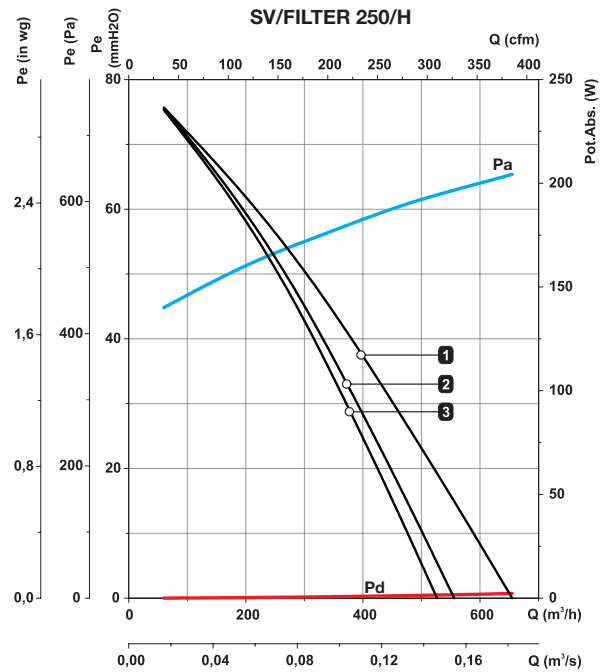
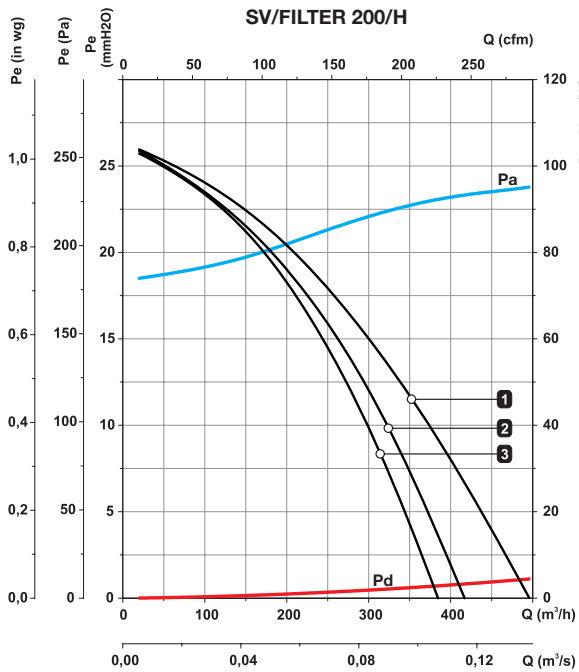
## Characteristic Curves

Equipment curve according to built-in filters **1** G4+F6 **2** F6+F8 **3** F7+F9

Static pressure

Dynamic pressure

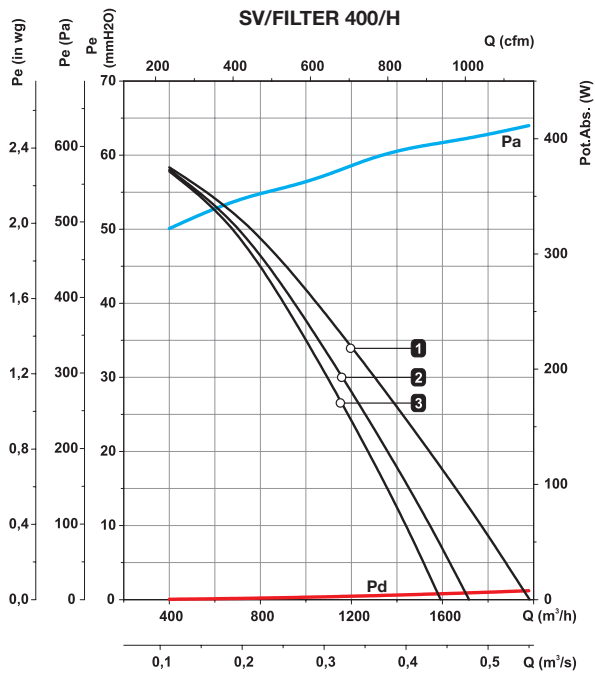
Absorbed power



**Characteristic Curves**

Equipment curve according to built-in filters **1** G4+F6 **2** F6+F8 **3** F7+F9

Static pressure                           Dynamic pressure      Absorbed power



**Accessories**

See accessories section



# UFR

**Soundproofed filtration units with sandwich panel, equipped with high-performance fans with backward-curved impeller and different stages of filtration depending on model**



**Features:**

- Soundproofed structure.
- Direct operation.
- Air outlet, configurable for 4 sides.
- F6 + F8, F7 + F9 and G4 + F6 filters, depending on model selected.
- Possibility of pre-filter plus two stages of filtration.
- Easy access inspection and cleaning covers.
- Pressure inlets and pressure probe for filter control.

- High-performance impeller with backward-curved blades made from sheet steel.
- Built-in base.

**Motor:**

- Class F motors, with ball bearings, IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V -50Hz (power over 4kW).
- Temperature of the air to transport: -20°C +60°C.

**Construction:**

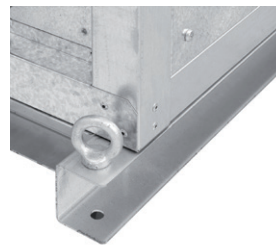
- Galvanised sheet steel structure with soundproofing.

**Finish:**

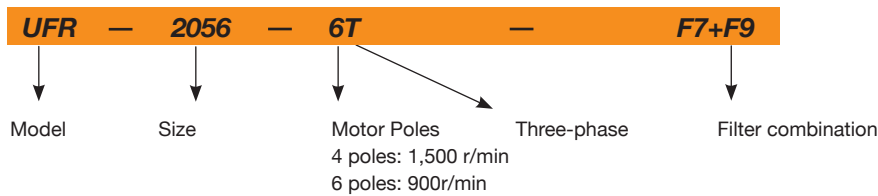
- Anticorrosive galvanized sheet steel.



- F6 + F8
- F7 + F9
- G4 + F6



**Order code**

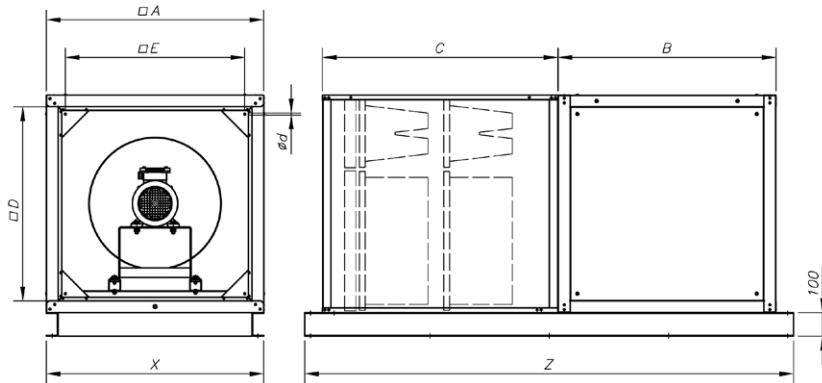


**Technical characteristics**

| Model               | Speed (r/min) | Max. admissible current (A) |       |       | Installed power (kW) | Max. airflow (m³/h) |                 |                 | Number of pre-filters |         | Number of filters |         | Weight (Kg) | According ErP |
|---------------------|---------------|-----------------------------|-------|-------|----------------------|---------------------|-----------------|-----------------|-----------------------|---------|-------------------|---------|-------------|---------------|
|                     |               | 230V                        | 400V  | 690V  |                      | filters (F6+F8)     | filters (F7+F9) | filters (G4+F6) | Whole*                | Medium* | Whole*            | Medium* |             |               |
| UFR-1240-4T IE3     | 1430          | 3,34                        | 1,93  |       | 0,75                 | 3.245               | 3.185           | 3.005           | 1                     | 0       | 1                 | 0       | 107,5       | 2018          |
| UFR-1850-4T IE3     | 1420          | 5,97                        | 3,45  |       | 1,50                 | 4.705               | 4.620           | 4.350           | 1                     | 0       | 1                 | 0       | 110         | 2018          |
| UFR-2056-4T IE3     | 1430          | 8,38                        | 4,84  |       | 2,20                 | 7.680               | 7.580           | 7.235           | 1                     | 2       | 1                 | 2       | 168,5       | 2018          |
| UFR-2056-6T IE3     | 935           | 3,77                        | 2,18  |       | 0,75                 | 5.325               | 5.250           | 5.010           | 1                     | 2       | 1                 | 2       | 163         | 2018          |
| UFR-2263-4T IE3     | 1460          |                             | 11,03 | 6,37  | 5,50                 | 11.995              | 11.680          | 11.375          | 1                     | 2       | 1                 | 2       | 221,5       | 2018          |
| UFR-2263-6T IE3     | 950           | 5,23                        | 3,02  |       | 1,10                 | 7.200               | 7.100           | 7.000           | 1                     | 2       | 1                 | 2       | 177,5       | 2018          |
| UFR-2071-4T IE3     | 1460          |                             | 20,64 | 11,92 | 11,00                | 15.045              | 14.535          | 14.060          | 1                     | 2       | 1                 | 2       | 265         | 2018          |
| UFR-2071-6T-3 IE3   | 940           | 9,28                        | 5,36  |       | 2,20                 | 9.175               | 8.990           | 8.810           | 1                     | 2       | 1                 | 2       | 195         | 2018          |
| UFR-2071-6T-5.5 IE3 | 970           | 16,35                       | 9,44  |       | 4,00                 | 10.130              | 9.770           | 9.440           | 1                     | 2       | 1                 | 2       | 241,5       | 2018          |
| UFR-2880-6T IE3     | 970           | 16,35                       | 9,44  |       | 4,00                 | 11.500              | 11.165          | 10.845          | 1                     | 2       | 1                 | 2       | 242         | 2018          |

\*Pre-filter dimensions: Whole: 585x585x48. Medium: 290x585x48  
 \*Filter dimensions: Whole: 593x593x292. Medium: 288x593x292

**Dimensions in mm**

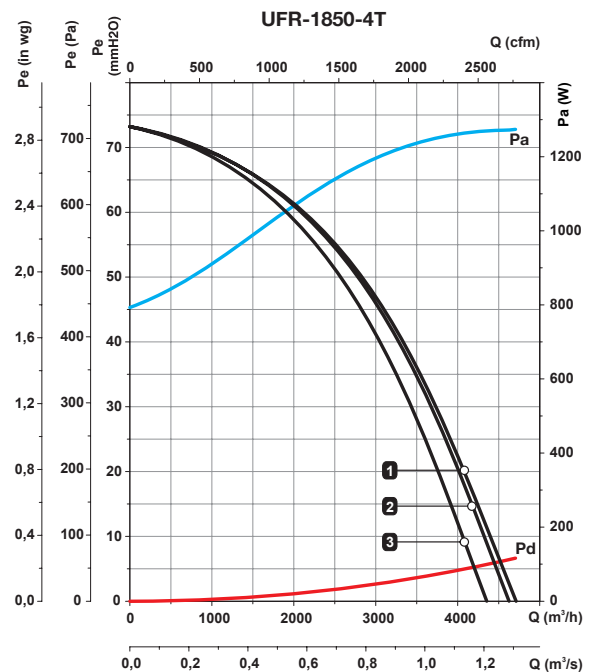
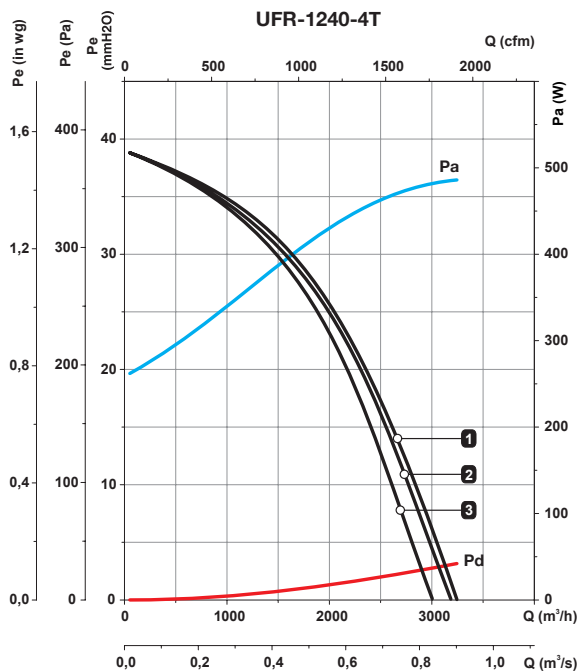


| Model           | A    | B    | C    | D   | E   | Ø d | X    | Z    |
|-----------------|------|------|------|-----|-----|-----|------|------|
| UFR-1240-4T     | 800  | 800  | 950  | 700 | 640 | M6  | 800  | 1906 |
| UFR-1850-4T     | 800  | 800  | 950  | 700 | 640 | M6  | 800  | 1906 |
| UFR-2056-4T     | 925  | 925  | 1000 | 823 | 763 | M6  | 925  | 2081 |
| UFR-2056-6T     | 925  | 925  | 1000 | 823 | 763 | M6  | 925  | 2081 |
| UFR-2263-4T     | 1000 | 1000 | 1000 | 960 | 838 | M6  | 1000 | 2156 |
| UFR-2263-6T     | 925  | 925  | 1000 | 960 | 763 | M6  | 925  | 2081 |
| UFR-2071-4T     | 1060 | 1060 | 1000 | 960 | 900 | M6  | 1060 | 2216 |
| UFR-2071-6T     | 1000 | 1000 | 1000 | 960 | 838 | M6  | 1000 | 2156 |
| UFR-2071-6T-5,5 | 1060 | 1060 | 1000 | 960 | 900 | M6  | 1060 | 2216 |
| UFR-2880-6T     | 1060 | 1060 | 1000 | 960 | 900 | M6  | 1060 | 2216 |

**Characteristic Curves**

Equipment curve according to built-in filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure                           Dynamic pressure                           Absorbed power                     



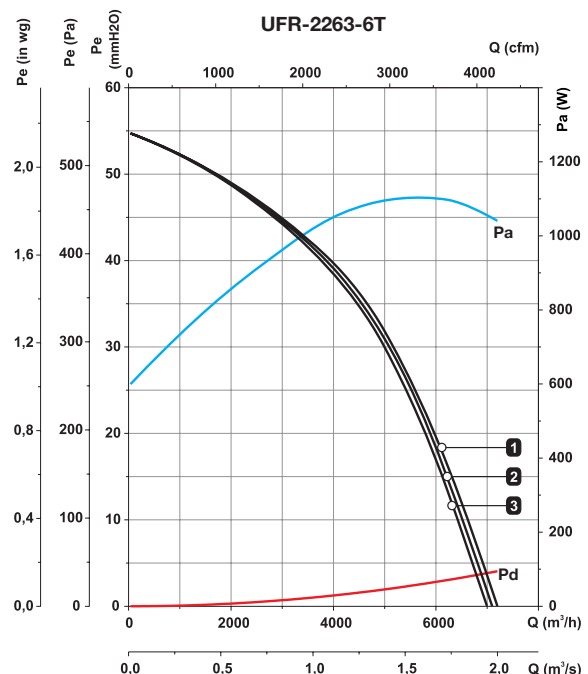
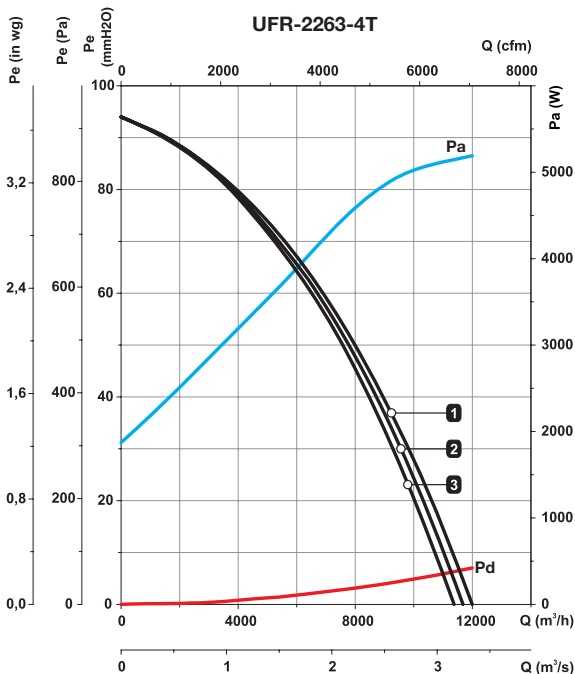
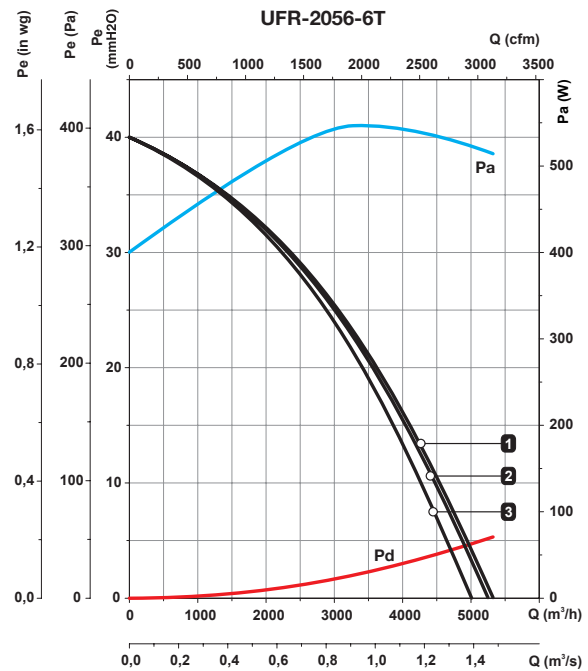
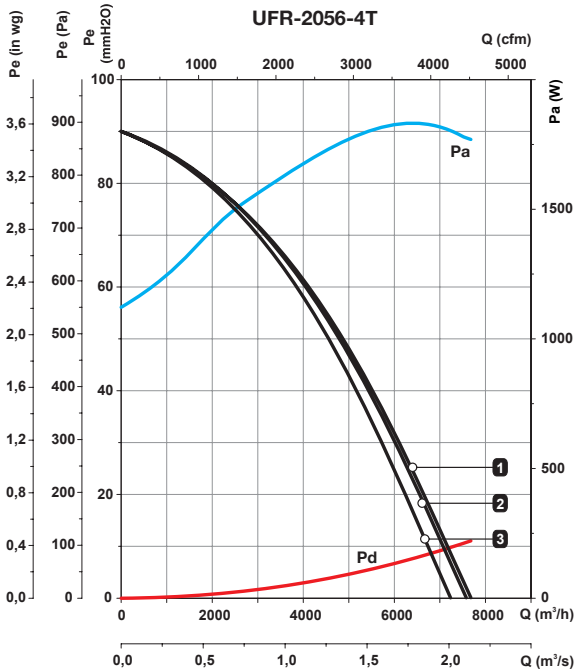
## Characteristic Curves

Equipment curve according to built-in filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure

Dynamic pressure

Absorbed power



## Accessories

See accessories section



FILTERS



CJFILTER



PRESSURE SWITCH



SI-PRESSURE



CONSTANT FLOW KIT



PRESSURE PROBE



INT

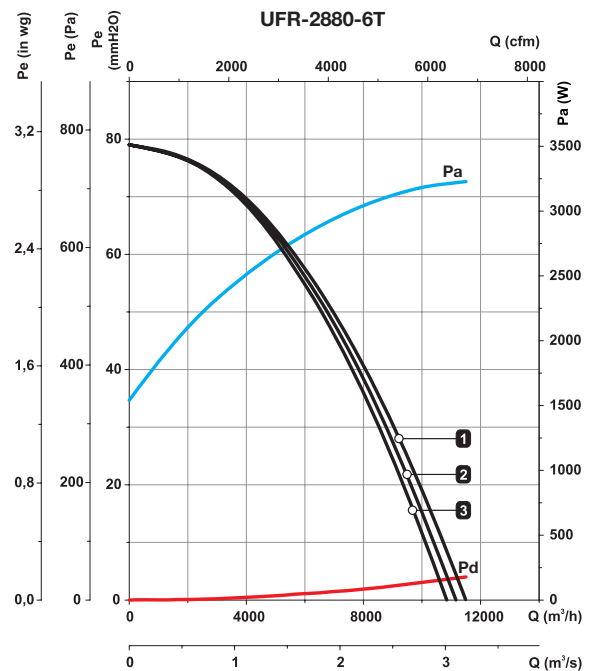
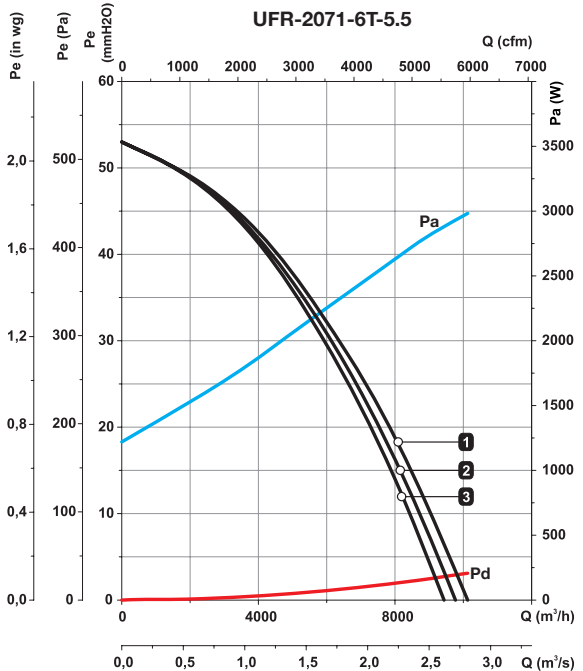
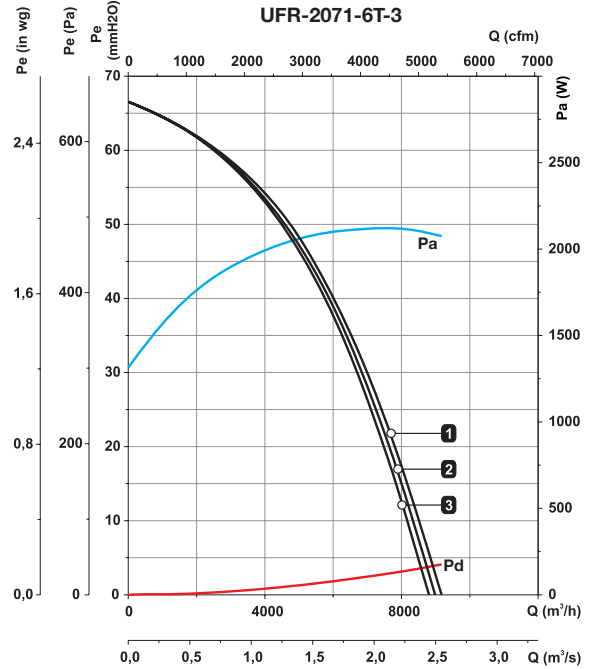
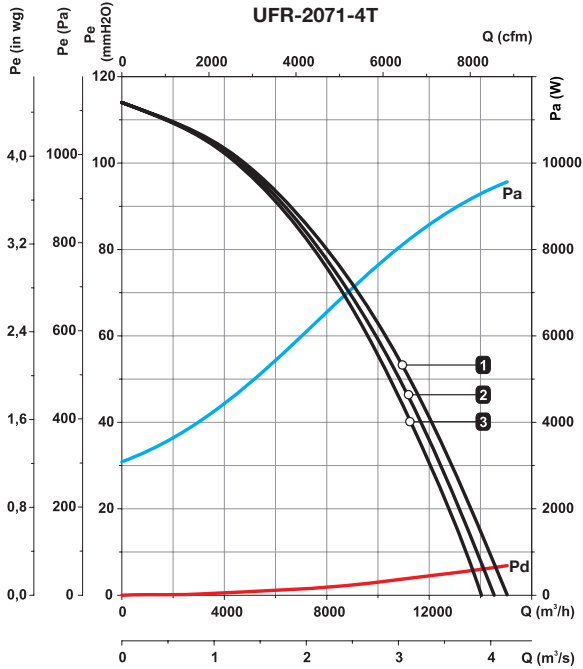


VIS

**Characteristic Curves**

Equipment curve according to built-in filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure  Dynamic pressure  Absorbed power

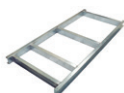


**Accessories**

See accessories section



TEJ



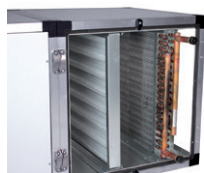
BASE STAND



SILENT-BLOCKS

# UDT

**Soundproofed air treatment units with direct drive motors, fitted with double-inlet fans and optional modules for filtration, electrical or hot-water heating**



**Box:**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Stuffing-box for cable inlet.

**Fan:**

- Ventilation units, equipped with CBD series fans.
- Impellers with forward-facing blades made from galvanised sheet steel.

**Motor:**

- High efficiency (HE) motors in compliance with ErP 2015.
- Class F motors, with ball bearings, IP54 protection.

- Single-phase 220-240V 50Hz and Three-phase 220-240/380-415V 50Hz.
- Max. air temperature to transport: -20°C.+ 60°C.

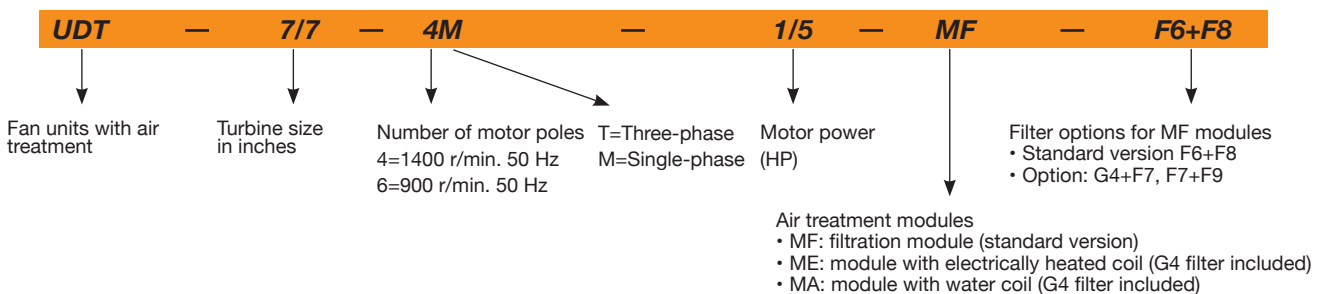
**Versions:**

- MF: Filtration Module. Standard version F6+F8 and optionally F7+F9.
- ME: Module with electrically heated coil. Standard version G4 and optionally with F6+F8 or F7+F9 filters.
- MA: Module with water coil. Standard version G4 and optionally with F6+F8 or F7+F9 filters.

**On request:**

- Vertical outlet.
- Module installed as blower.

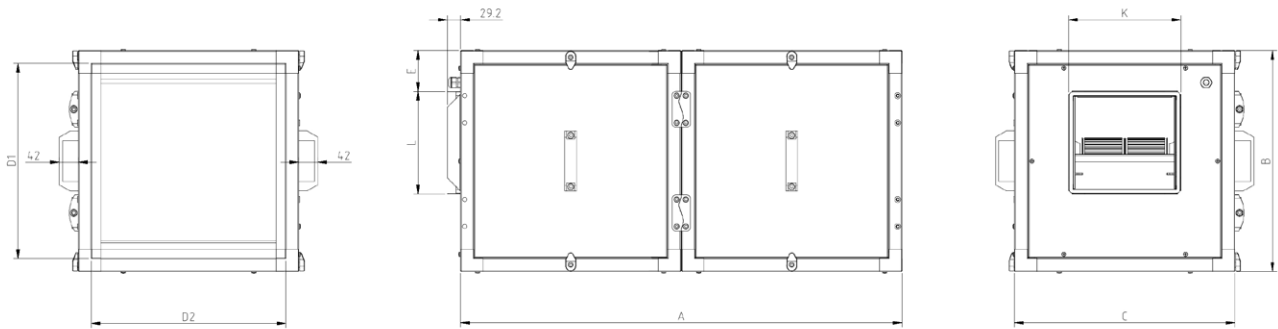
## Order code



## Technical characteristics

| Model              | Speed<br>(r/min) | Maximum admissible current<br>(A) |       | Installed power<br>(kW) | Maximum<br>airflow<br>(m3/h) | Sound Level<br>dB(A) | Approx. weight<br>(Kg) |
|--------------------|------------------|-----------------------------------|-------|-------------------------|------------------------------|----------------------|------------------------|
|                    |                  | 230 V                             | 400 V |                         |                              |                      |                        |
| UDT-7/7-4M 1/5     | 1230             | 1.4                               |       | 0.15                    | 1520                         | 58                   | 22.5                   |
| UDT-9/9-4M 1/2     | 1320             | 3.3                               |       | 0.37                    | 2800                         | 66                   | 31.8                   |
| UDT-9/9-4M 3/4     | 1310             | 4.5                               |       | 0.55                    | 3600                         | 70                   | 32.6                   |
| UDT-10/10-4M 1/2   | 1320             | 3.3                               |       | 0.37                    | 2800                         | 65                   | 37.3                   |
| UDT-10/10-4M 3/4   | 1310             | 4.5                               |       | 0.55                    | 3950                         | 70                   | 38.1                   |
| UDT-12/12-6T 1 1/2 | 850              | 6.6                               | 3.8   | 1.1                     | 7800                         | 74                   | 53.8                   |
| UDT-12/12-6M 3/4   | 850              | 5                                 |       | 0.55                    | 4900                         | 63                   | 52.3                   |
| UDT-12/12-6M 1     | 850              | 6                                 |       | 0.75                    | 6000                         | 70                   | 53.3                   |
| UDT-15/15-6T 3     | 890              | 10.9                              | 6.3   | 2.2                     | 11900                        | 74                   | 80                     |

**Dimensions in mm**



| Model     | A    | B   | C   | D1  | D2  | E   | L   | K   |
|-----------|------|-----|-----|-----|-----|-----|-----|-----|
| UDT-7/7   | 980  | 490 | 490 | 428 | 428 | 91  | 226 | 247 |
| UDT-9/9   | 1100 | 550 | 550 | 488 | 488 | 86  | 279 | 317 |
| UDT-10/10 | 1210 | 605 | 605 | 543 | 543 | 88  | 306 | 343 |
| UDT-12/12 | 1360 | 680 | 680 | 618 | 618 | 84  | 360 | 404 |
| UDT-15/15 | 1710 | 855 | 855 | 793 | 793 | 119 | 423 | 490 |

**Acoustic features**

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz

| Model          | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------------|----|-----|-----|-----|------|------|------|------|
| 7/7-4M 1/5     | 43 | 54  | 58  | 62  | 64   | 63   | 62   | 53   |
| 9/9-4M 1/2     | 51 | 62  | 66  | 70  | 72   | 71   | 70   | 61   |
| 9/9-4M 3/4     | 55 | 66  | 70  | 74  | 76   | 75   | 74   | 65   |
| 10/10-4M 1/2   | 50 | 61  | 65  | 69  | 71   | 70   | 69   | 60   |
| 10/10-4M 3/4   | 55 | 66  | 70  | 74  | 76   | 75   | 74   | 65   |
| 12/12-6T 1 1/2 | 59 | 70  | 74  | 78  | 80   | 79   | 78   | 69   |
| 12/12-6M 3/4   | 48 | 59  | 63  | 67  | 69   | 68   | 67   | 58   |
| 12/12-6M 1     | 55 | 66  | 70  | 74  | 76   | 75   | 74   | 65   |
| 15/15-6T 3     | 61 | 72  | 77  | 81  | 83   | 81   | 80   | 71   |

**Air treatment module options**



**MF: Filtration Modules**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module F6+F8 and optionally F7+F9.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



**ME: Modules with electrically heated coils**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Stuffing-box for cable inlet.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



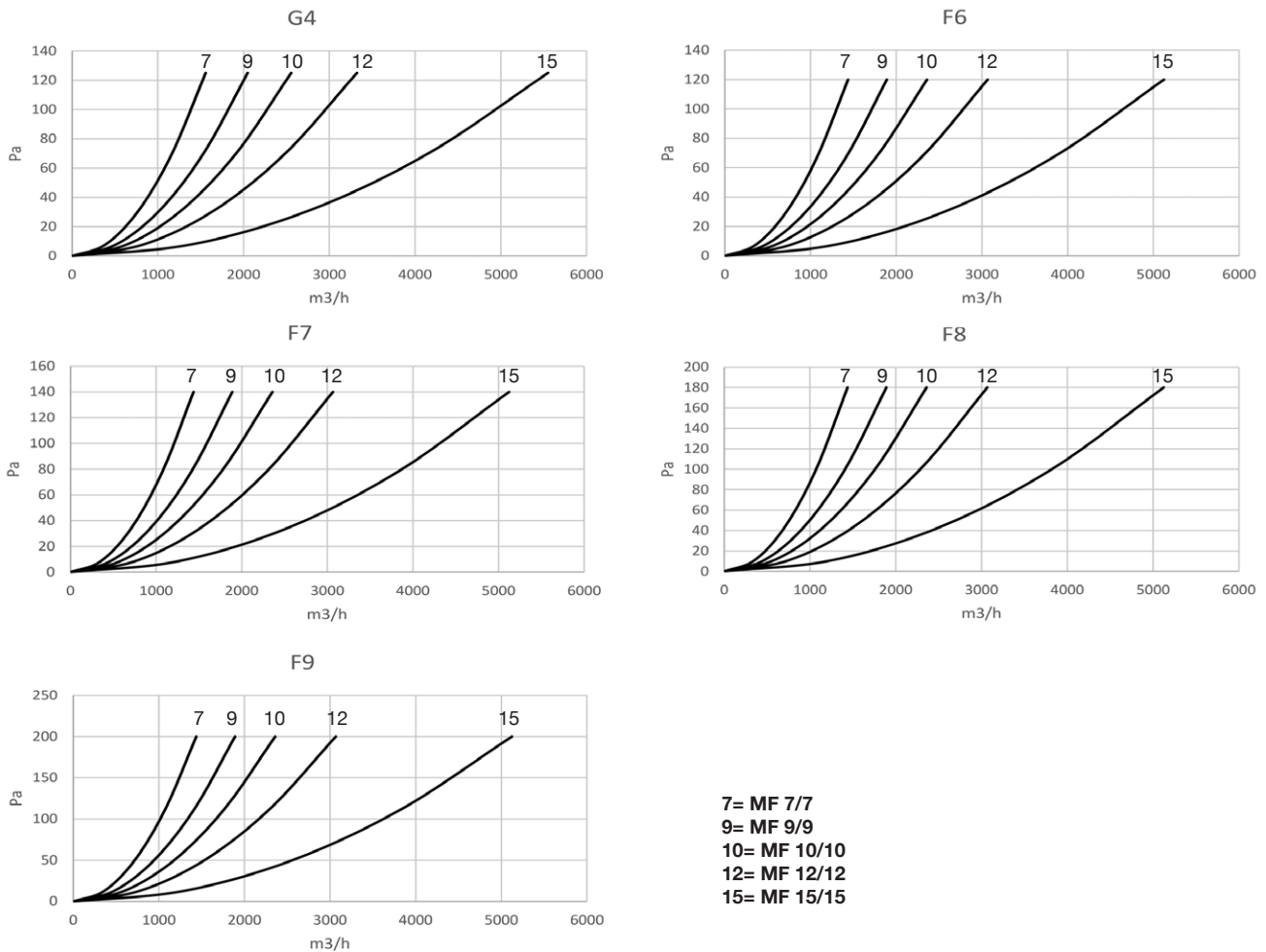
**MA: Modules with water coils**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



## MF: Filtration module characteristics

### F Head loss - filters

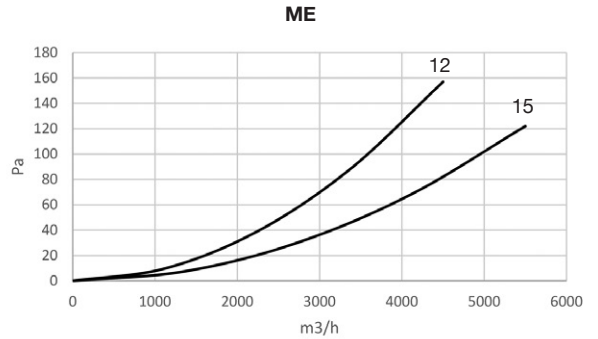
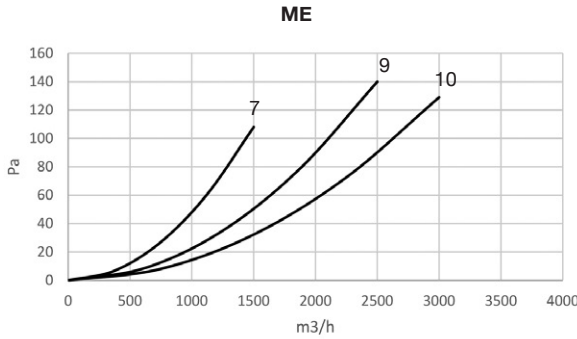


### ME: Technical characteristics of electrically heated coil



| Model    | Current (A) | Installed power (kW) |         |         | Maximum airflow (m <sup>3</sup> /h) | Approx. weight (Kg) |         |
|----------|-------------|----------------------|---------|---------|-------------------------------------|---------------------|---------|
|          |             | 400V                 | Stage 1 | Stage 2 |                                     |                     | Stage 3 |
| ME-7/7   | 13          |                      | 3       | 3       | 3                                   | 1500                | 23      |
| ME-9/9   | 23          |                      | 5.4     | 5.4     | 5.4                                 | 3300                | 33      |
| ME-10/10 | 33          |                      | 7.7     | 7.7     | 7.7                                 | 4500                | 44      |
| ME-12/12 | 52          |                      | 12      | 12      | 12                                  | 6000                | 61      |
| ME-15/15 | 81          |                      | 18.8    | 18.8    | 18.8                                | 10000               | 96      |

**Head loss - electrical coil heaters**



**MA: Characteristics of 90/70°C water coil for air at 0°C**



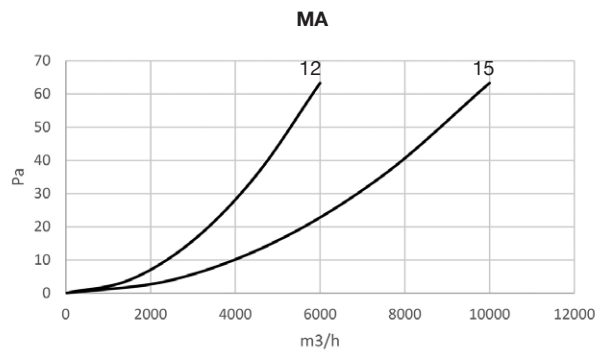
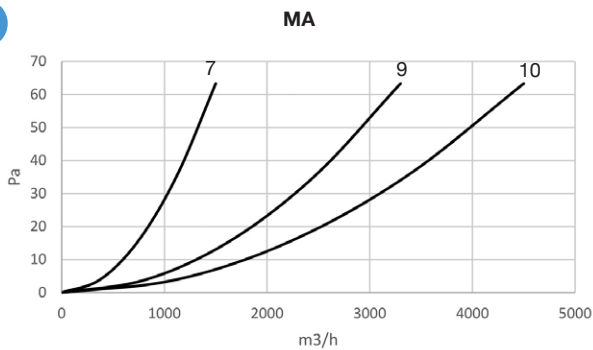
| Model    | Installed (kW) | Maximum airflow (m3/h) | Water flow (m3/h) | Water head loss (kPa) | Connection (in) | Approx. weight (Kg) |
|----------|----------------|------------------------|-------------------|-----------------------|-----------------|---------------------|
| MA-7/7   | 23             | 1500                   | 1.0               | 16.3                  | 1/2"            | 18                  |
| MA-9/9   | 37             | 2500                   | 1.7               | 26.6                  | 1/2"            | 25                  |
| MA-10/10 | 46             | 3000                   | 2.0               | 17.6                  | 3/4"            | 31                  |
| MA-12/12 | 66             | 4500                   | 2.9               | 29.8                  | 3/4"            | 39                  |
| MA-15/15 | 108            | 5500                   | 4.8               | 21.4                  | 1"              | 63                  |

**MA: Characteristics of 80/60°C water coil for air at 0°C**

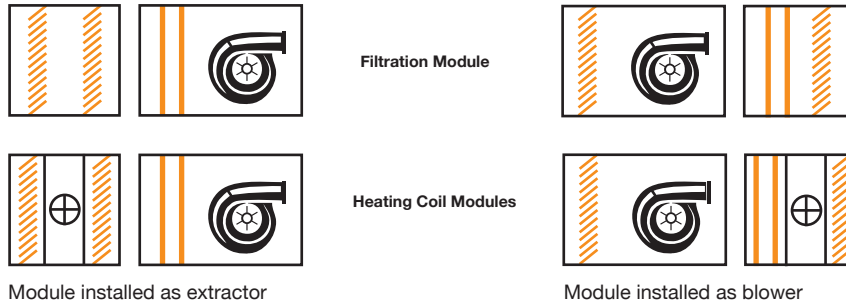


| Model    | Installed (kW) | Maximum airflow (m3/h) | Water flow (m3/h) | Water head loss (kPa) | Connection (in) | Approx. weight (Kg) |
|----------|----------------|------------------------|-------------------|-----------------------|-----------------|---------------------|
| MA-7/7   | 20             | 1500                   | 0.9               | 13.0                  | 1/2"            | 18                  |
| MA-9/9   | 33             | 2500                   | 1.4               | 21.3                  | 1/2"            | 25                  |
| MA-10/10 | 40             | 3000                   | 1.7               | 14.0                  | 3/4"            | 31                  |
| MA-12/12 | 58             | 4500                   | 2.5               | 23.8                  | 3/4"            | 39                  |
| MA-15/15 | 100            | 5500                   | 4.2               | 17.5                  | 1"              | 63                  |

**Head loss - water coil heaters**



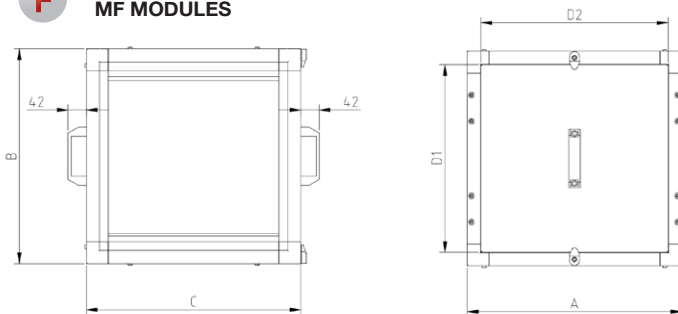
### Installation and filter position diagrams



### Module Dimensions mm

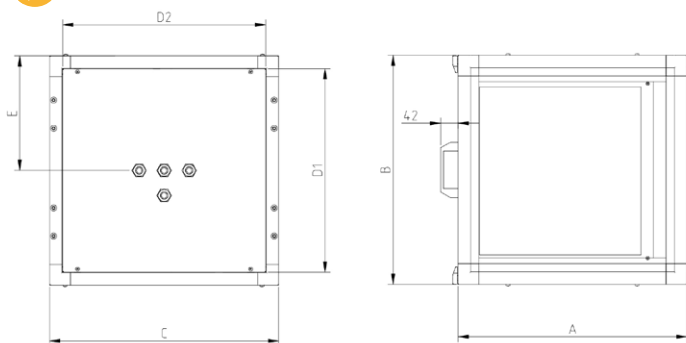
Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS

#### **F** MF MODULES



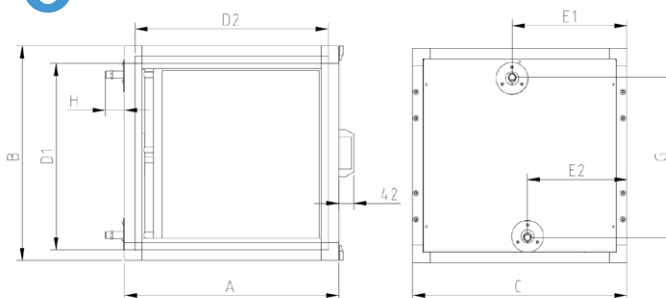
| Model    | A   | B   | C   | D1  | D2  |
|----------|-----|-----|-----|-----|-----|
| MF-7/7   | 490 | 490 | 490 | 428 | 428 |
| MF-9/9   | 550 | 550 | 550 | 488 | 488 |
| MF-10/10 | 605 | 605 | 605 | 543 | 543 |
| MF-12/12 | 680 | 680 | 680 | 618 | 618 |
| MF-15/15 | 855 | 855 | 855 | 793 | 793 |

#### **E** ME MODULES



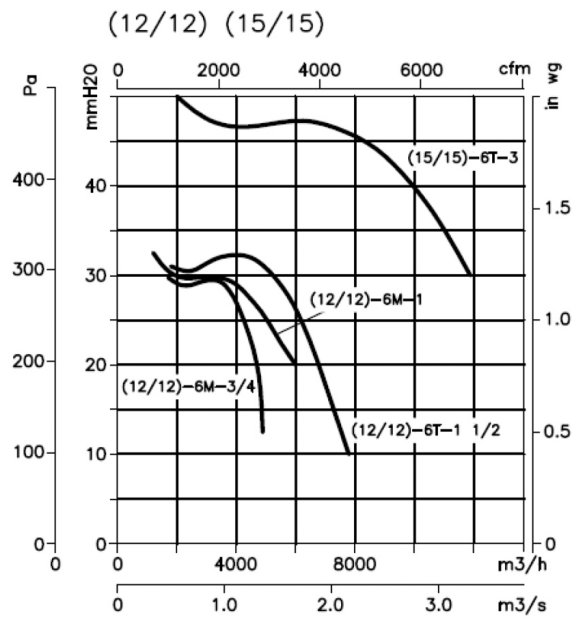
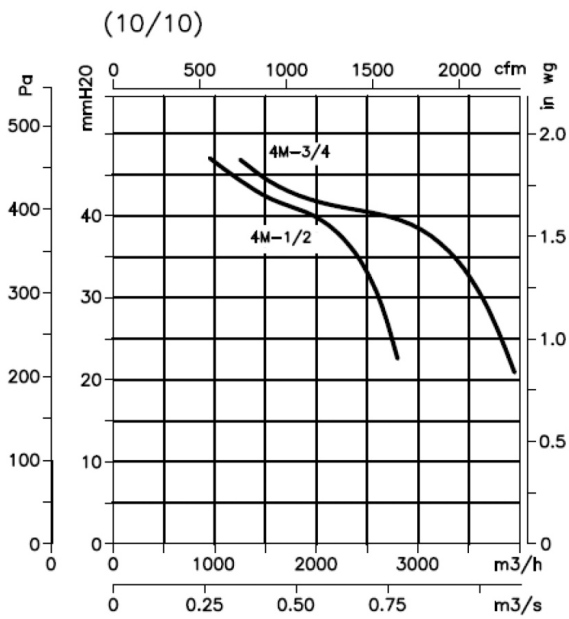
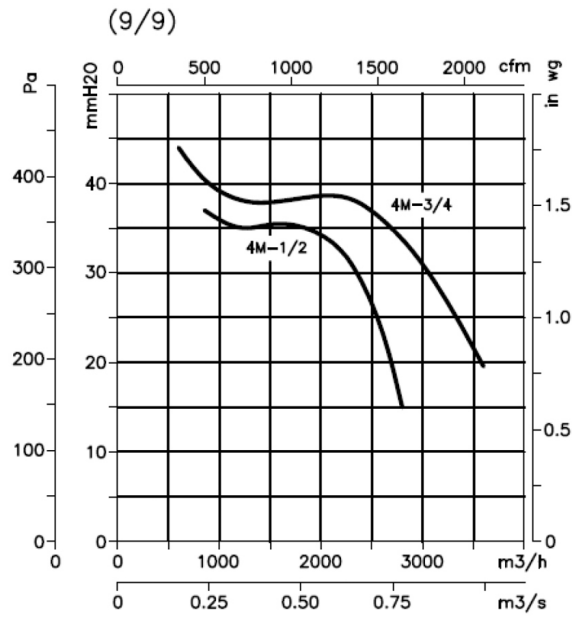
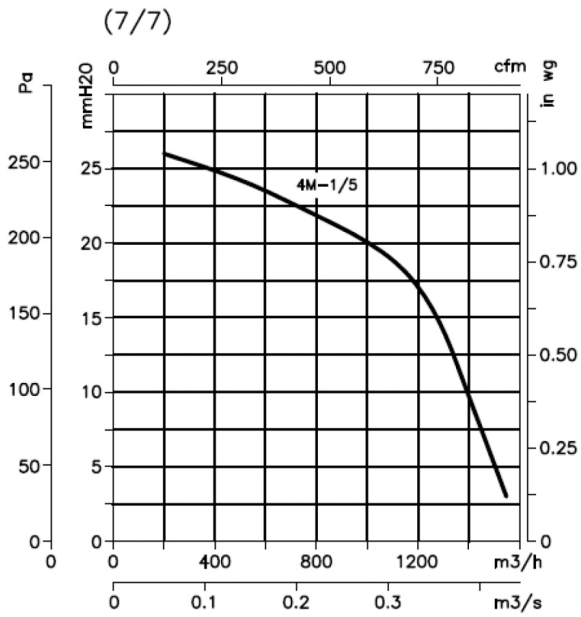
| Model    | A   | B   | C   | D1  | D2  | E     |
|----------|-----|-----|-----|-----|-----|-------|
| ME-7/7   | 490 | 490 | 490 | 428 | 428 | 245   |
| ME-9/9   | 550 | 550 | 550 | 488 | 488 | 275   |
| ME-10/10 | 605 | 605 | 605 | 543 | 543 | 302,5 |
| ME-12/12 | 680 | 680 | 680 | 618 | 618 | 340   |
| ME-15/15 | 855 | 855 | 855 | 793 | 793 | 427,5 |

#### **A** MA MODULES



| Model    | A    | B    | C    | D1  | D2  | E1    | E2    | G   | H    |
|----------|------|------|------|-----|-----|-------|-------|-----|------|
| MA 7/7   | 490  | 490  | 490  | 428 | 428 | 266,5 | 223,5 | 334 | 59,5 |
| MA 9/9   | 550  | 550  | 550  | 488 | 488 | 296,5 | 253,5 | 410 | 57,2 |
| MA 10/10 | 605  | 605  | 605  | 543 | 543 | 324   | 281   | 452 | 54   |
| MA 12/12 | 680  | 680  | 680  | 618 | 618 | 361,5 | 318,5 | 527 | 79,5 |
| MA 15/15 | 855  | 855  | 855  | 793 | 793 | 460   | 395   | 671 | 42,2 |
| MA 18/18 | 1000 | 1000 | 1000 | 938 | 938 | 521,5 | 478,5 | 814 | 47,2 |

Characteristic curves - fans



# MODULAR KIT AIR TREATMENT UNITS

**CJBD/AL: Soundproofed ventilation units with profiles in aluminium and pre-lacquered sheet**

**CJBD/ALS: Ventilation units with double wall of insulation, pre-lacquered sheet and profiles in aluminium**



Filtration Modules



Modules with electrical coils



Modules with water coils

#### Fan:

- CBD series double-inlet fans.
- Aluminium profile structure with thermal insulation and soundproofing.
- Impeller with forward-facing blades made from galvanised sheet steel.
- Stuffing-box for cable inlet.

- Max. air temperature to transport: -20°C+ 60°C

#### Finish:

- Anticorrosive pre-lacquered sheet steel and aluminium.

#### On request:

- With circular inlet.

#### Motor:

- Class F closed motors with incorporated thermal protector, ball bearings and IP-54 protection.
- Single-phase 220-240V.-50Hz. and three-phase 220-240/380-415V.-50Hz.

## Order code

**CJBD/AL — 2525 — 6M — 1/3**

CJBD/AL: With aluminium profiles and soundproofed pre-lacquered sheet.  
CJBD/ALS: With double wall of insulation, pre-lacquered sheet and aluminium profiles

Impeller size in mm  
mm inches

|      |       |
|------|-------|
| 1919 | 7/7   |
| 2525 | 9/9   |
| 2828 | 10/10 |
| 3333 | 12/12 |
| 3939 | 15/15 |

Number of motor poles

|                    |
|--------------------|
| 4=1400 r/min 50 Hz |
| 6=900 r/min 50 Hz  |

T=Three-phase  
M=Single-phase  
Installed motor (HP)

## Technical characteristics

| Model            | Speed (r/min) | Maximum admissible current (A) |       | Installed power (kW) | Maximum airflow (m3/h) | Sound level dB(A) | Weight approx. (Kg) |
|------------------|---------------|--------------------------------|-------|----------------------|------------------------|-------------------|---------------------|
|                  |               | 230V                           | 400 V |                      |                        |                   |                     |
| CJBD/AL CJBD/ALS | 1919-4M 1/5   | 1.40                           |       | 0.15                 | 1520                   | 58                | 22.5                |
| CJBD/AL CJBD/ALS | 1919-6M 1/10  | 0.85                           |       | 0.08                 | 1230                   | 53                | 22.5                |
| CJBD/AL CJBD/ALS | 2525-4M 1/2   | 3.30                           |       | 0.37                 | 2800                   | 66                | 31.8                |
| CJBD/AL CJBD/ALS | 2525-4M 3/4   | 4.50                           |       | 0.55                 | 3600                   | 70                | 32.6                |
| CJBD/AL CJBD/ALS | 2525-6M 1/5   | 1.50                           |       | 0.15                 | 2200                   | 59                | 30.1                |
| CJBD/AL CJBD/ALS | 2525-6M 1/3   | 2.20                           |       | 0.25                 | 2700                   | 61                | 31.3                |
| CJBD/AL CJBD/ALS | 2828-4M 1/2   | 3.30                           |       | 0.37                 | 2800                   | 65                | 37.3                |
| CJBD/AL CJBD/ALS | 2828-4M 3/4   | 4.50                           |       | 0.55                 | 3950                   | 70                | 38.1                |
| CJBD/AL CJBD/ALS | 2828-6M 1/3   | 2.20                           |       | 0.25                 | 3200                   | 61                | 36.8                |
| CJBD/AL CJBD/ALS | 3333-6T 1 1/2 | 6.60                           | 3.80  | 1.10                 | 7800                   | 74                | 53.8                |
| CJBD/AL CJBD/ALS | 3333-6M 3/4   | 5.00                           |       | 0.55                 | 4900                   | 63                | 52.3                |
| CJBD/AL CJBD/ALS | 3333-6M 1     | 6.00                           |       | 0.75                 | 6000                   | 70                | 53.3                |
| CJBD/AL CJBD/ALS | 3939-6T 3     | 10.90                          | 6.30  | 2.20                 | 11900                  | 74                | 80.0                |

**Acoustic features**

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz

| Model        | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Model         | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--------------|----|-----|-----|-----|------|------|------|------|---------------|----|-----|-----|-----|------|------|------|------|
| 1919-4M 1/5  | 43 | 54  | 58  | 62  | 64   | 63   | 62   | 53   | 2828-4M 3/4   | 55 | 66  | 70  | 74  | 76   | 75   | 74   | 65   |
| 1919-6M 1/10 | 38 | 49  | 53  | 57  | 59   | 58   | 57   | 48   | 2828-6M 1/3   | 46 | 57  | 61  | 65  | 67   | 66   | 65   | 56   |
| 2525-4M 1/2  | 51 | 62  | 66  | 70  | 72   | 71   | 70   | 61   | 3333-6T 1 1/2 | 59 | 70  | 74  | 78  | 80   | 79   | 78   | 69   |
| 2525-4M 3/4  | 55 | 66  | 70  | 74  | 76   | 75   | 74   | 65   | 3333-6M 3/4   | 48 | 59  | 63  | 67  | 69   | 68   | 67   | 58   |
| 2525-6M 1/5  | 44 | 55  | 59  | 63  | 65   | 64   | 63   | 54   | 3333-6M 1     | 55 | 66  | 70  | 74  | 76   | 75   | 74   | 65   |
| 2525-6M 1/3  | 46 | 57  | 61  | 65  | 67   | 66   | 65   | 56   | 3939-6T 3     | 61 | 72  | 77  | 81  | 83   | 81   | 80   | 71   |
| 2828-4M 1/2  | 50 | 61  | 65  | 69  | 71   | 70   | 69   | 60   |               |    |     |     |     |      |      |      |      |

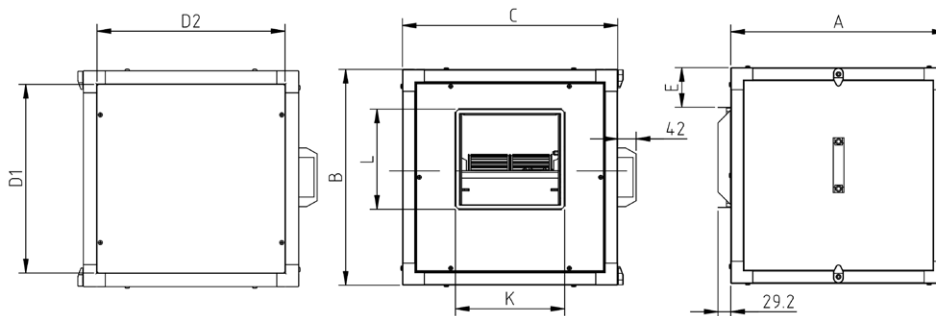


**Erp. (Energy Related Products)**

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

**Dimensions in mm**

CJBD/AL  
CJBD/ALS



| Model                   | Equiv. Inches | A   | B   | C   | D1  | D2  | E   | L   | K   |
|-------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| CJBD-AL / CJBD-ALS 1919 | 7/7           | 490 | 490 | 490 | 428 | 428 | 91  | 226 | 247 |
| CJBD-AL / CJBD-ALS 2525 | 9/9           | 550 | 550 | 550 | 488 | 488 | 86  | 279 | 317 |
| CJBD-AL / CJBD-ALS 2828 | 10/10         | 605 | 605 | 605 | 543 | 543 | 88  | 306 | 343 |
| CJBD-AL / CJBD-ALS 3333 | 12/12         | 680 | 680 | 680 | 618 | 618 | 84  | 360 | 404 |
| CJBD-AL / CJBD-ALS 3939 | 15/15         | 855 | 855 | 855 | 793 | 793 | 119 | 423 | 490 |

## Air treatment module options



### MF: Filtration Modules

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module F6+F8 and optionally F7+F9.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



### ME: Modules with electrically heated coils

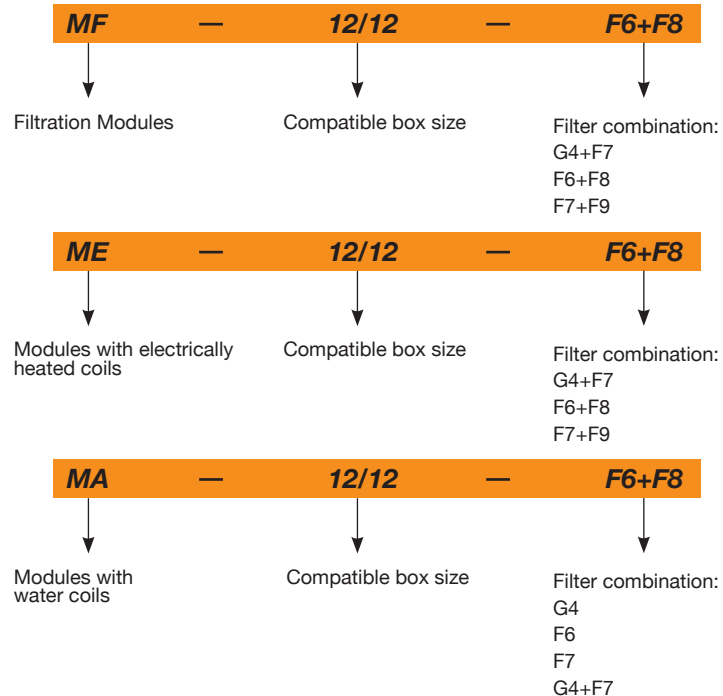
- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Stuffing-box for cable inlet.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



### MA: Modules with water coils

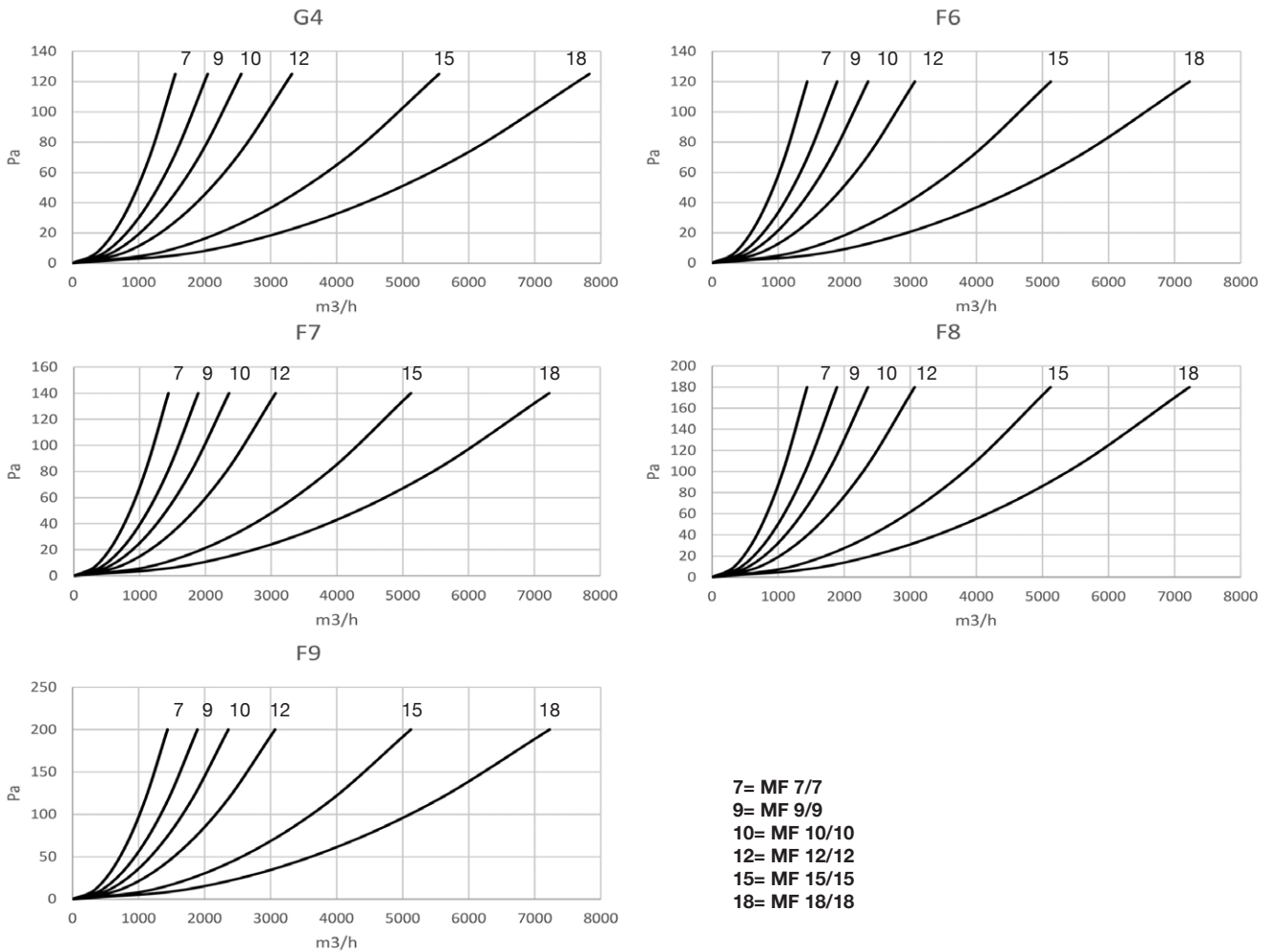
- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.

## Order code



**MF: Filtration module characteristics**

**F Head loss - filters**



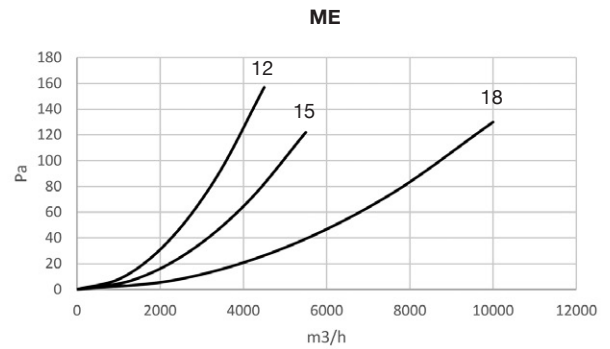
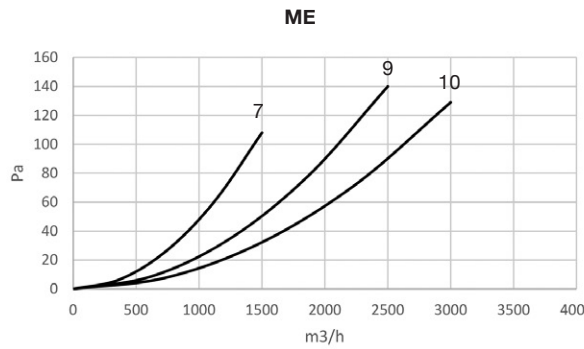
**ME: Technical characteristics of electrically heated coil**



| Model    | Current (A) | Installed power (kW) |         |         | Maximum airflow (m3/h) | Approx. weight (Kg) |         |
|----------|-------------|----------------------|---------|---------|------------------------|---------------------|---------|
|          |             | 400V                 | Stage 1 | Stage 2 |                        |                     | Stage 3 |
| ME-7/7   | 13          |                      | 3       | 3       | 3                      | 1500                | 23      |
| ME-9/9   | 23          |                      | 5.4     | 5.4     | 5.4                    | 3300                | 33      |
| ME-10/10 | 33          |                      | 7.7     | 7.7     | 7.7                    | 4500                | 44      |
| ME-12/12 | 52          |                      | 12      | 12      | 12                     | 6000                | 61      |
| ME-15/15 | 81          |                      | 18.8    | 18.8    | 18.8                   | 10000               | 96      |
| ME-18/18 | 97          |                      | 22.5    | 22.5    | 22.5                   | 13000               | 123     |



### Head loss - electrical coil heaters



### MA: Characteristics of 90/70°C water coil for air at 0°C



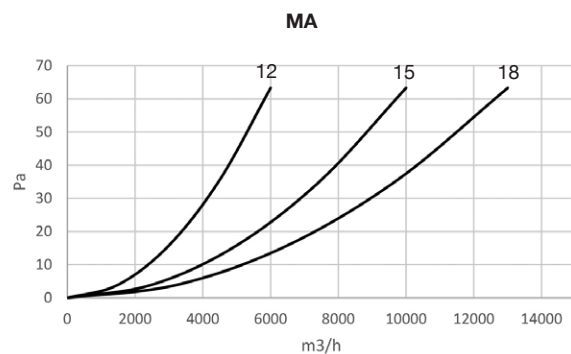
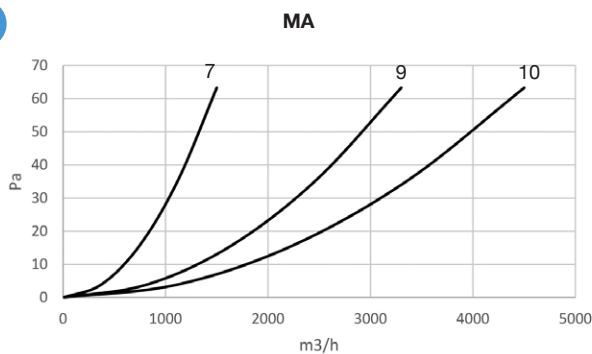
| Model    | Installed (kW) | Maximum airflow (m3/h) | Water flow (m3/h) | Water head loss (kPa) | Connection (in) | Approx. weight (Kg) |
|----------|----------------|------------------------|-------------------|-----------------------|-----------------|---------------------|
| MA-7/7   | 23             | 1500                   | 1.0               | 16.3                  | 1/2"            | 18                  |
| MA-9/9   | 37             | 2500                   | 1.7               | 26.6                  | 1/2"            | 25                  |
| MA-10/10 | 46             | 3000                   | 2.0               | 17.6                  | 3/4"            | 31                  |
| MA-12/12 | 66             | 4500                   | 2.9               | 29.8                  | 3/4"            | 39                  |
| MA-15/15 | 108            | 5500                   | 4.8               | 21.4                  | 1"              | 63                  |
| MA-18/18 | 153            | 10000                  | 6.8               | 21.9                  | 1 1/4"          | 87                  |

### MA: Characteristics of 80/60°C water coil for air at 0°C

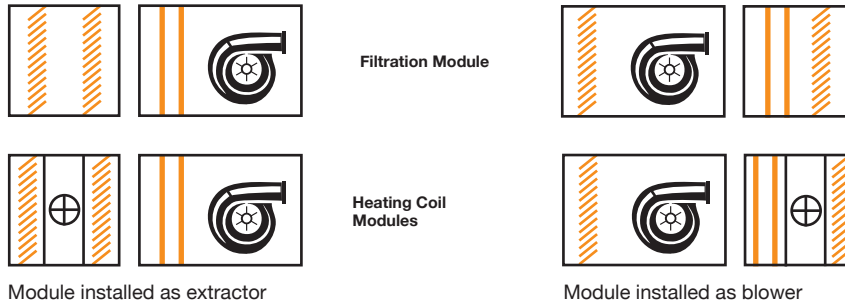


| Model    | Installed (kW) | Maximum airflow (m3/h) | Water flow (m3/h) | Water head loss (kPa) | Connection (in) | Approx. weight (Kg) |
|----------|----------------|------------------------|-------------------|-----------------------|-----------------|---------------------|
| MA-7/7   | 20             | 1500                   | 0.9               | 13.0                  | 1/2"            | 18                  |
| MA-9/9   | 33             | 2500                   | 1.4               | 21.3                  | 1/2"            | 25                  |
| MA-10/10 | 40             | 3000                   | 1.7               | 14.0                  | 3/4"            | 31                  |
| MA-12/12 | 58             | 4500                   | 2.5               | 23.8                  | 3/4"            | 39                  |
| MA-15/15 | 100            | 5500                   | 4.2               | 17.5                  | 1"              | 63                  |
| MA-18/18 | 133            | 10000                  | 5.8               | 17.5                  | 1 1/4"          | 87                  |

### Head loss - water coil heaters



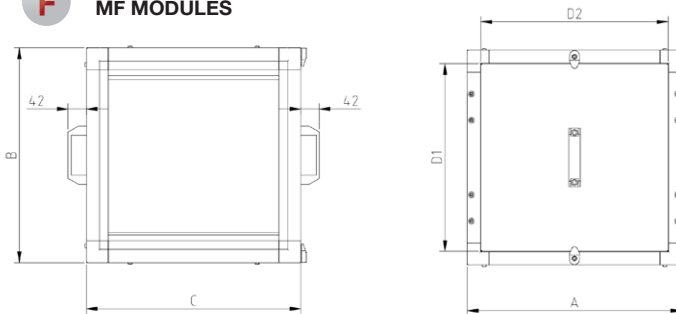
**Installation and filter position diagrams**



**Module Dimensions mm**

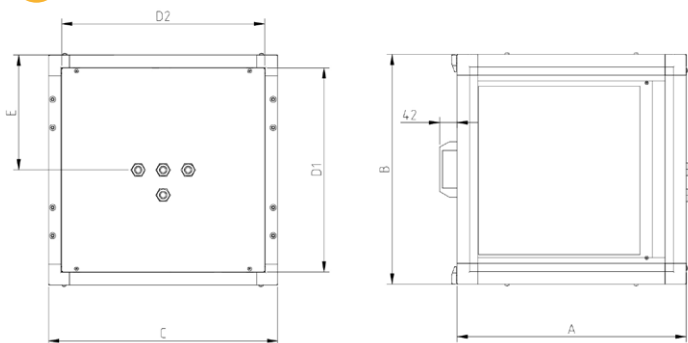
Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS

**F MF MODULES**



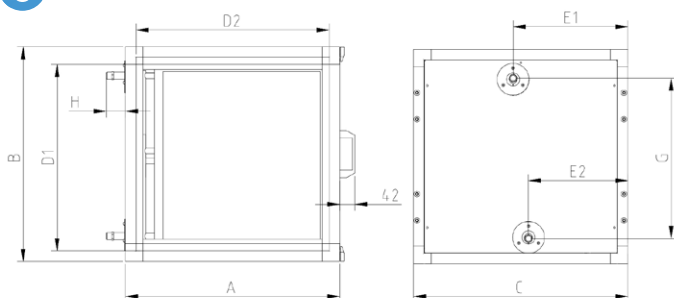
| Model    | A    | B    | C    | D1  | D2  |
|----------|------|------|------|-----|-----|
| MF-7/7   | 490  | 490  | 490  | 428 | 428 |
| MF-9/9   | 550  | 550  | 550  | 488 | 488 |
| MF-10/10 | 605  | 605  | 605  | 543 | 543 |
| MF-12/12 | 680  | 680  | 680  | 618 | 618 |
| MF-15/15 | 855  | 855  | 855  | 793 | 793 |
| MF-18/18 | 1000 | 1000 | 1000 | 938 | 938 |

**ME MODULES**



| Model    | A    | B    | C    | D1  | D2  | E     |
|----------|------|------|------|-----|-----|-------|
| ME-7/7   | 490  | 490  | 490  | 428 | 428 | 245   |
| ME-9/9   | 550  | 550  | 550  | 488 | 488 | 275   |
| ME-10/10 | 605  | 605  | 605  | 543 | 543 | 302.5 |
| ME-12/12 | 680  | 680  | 680  | 618 | 618 | 340   |
| ME-15/15 | 855  | 855  | 855  | 793 | 793 | 427.5 |
| ME-18/18 | 1000 | 1000 | 1000 | 938 | 938 | 500   |

**MA MODULES**



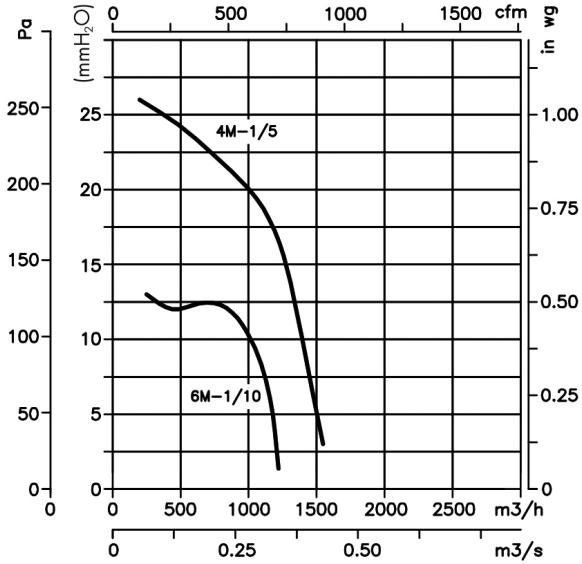
| Model    | A    | B    | C    | D1  | D2  | E1    | E2    | G   | H    |
|----------|------|------|------|-----|-----|-------|-------|-----|------|
| MA 7/7   | 490  | 490  | 490  | 428 | 428 | 266,5 | 223,5 | 334 | 59,5 |
| MA 9/9   | 550  | 550  | 550  | 488 | 488 | 296,5 | 253,5 | 410 | 57,2 |
| MA 10/10 | 605  | 605  | 605  | 543 | 543 | 324   | 281   | 452 | 54   |
| MA 12/12 | 680  | 680  | 680  | 618 | 618 | 361,5 | 318,5 | 527 | 79,5 |
| MA 15/15 | 855  | 855  | 855  | 793 | 793 | 460   | 395   | 671 | 42,2 |
| MA 18/18 | 1000 | 1000 | 1000 | 938 | 938 | 521,5 | 478,5 | 814 | 47,2 |

### Characteristic curves - fans

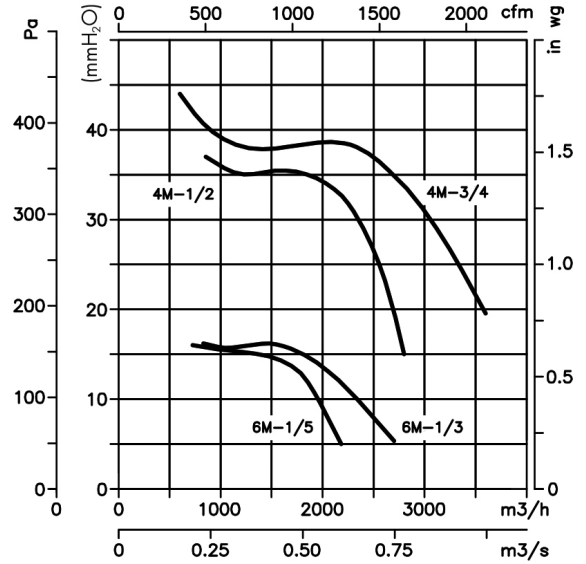
Q= Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

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

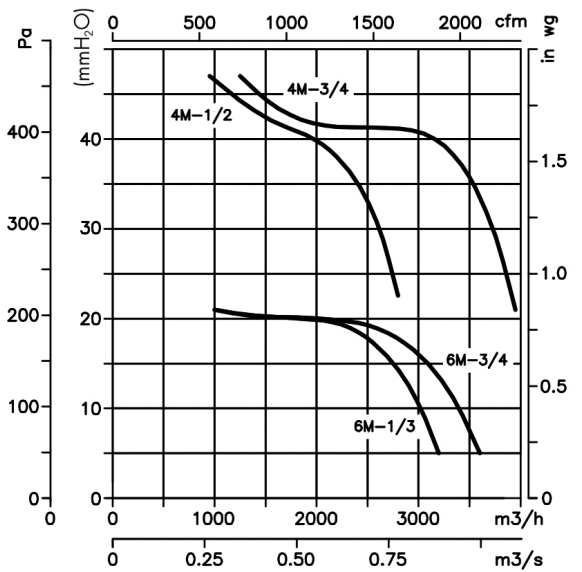
**1919**



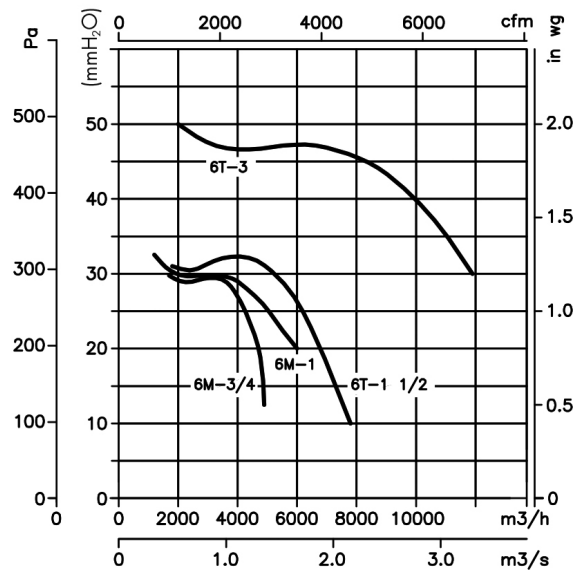
**2525**



**2828**



**3333/3939**



INT

### Accessories



# UFX



**Soundproofed filtration units equipped with double inlet fans and different stages of filtration, depending on model**



**Features:**

- Soundproofed structure.
- Belt-driven.
- F6 + F8, F7 + F9 and G4 + F6 filters, depending on model selected.
- Possibility of pre-filter plus two stages of filtration.
- Easy access inspection and cleaning covers.
- Pressure inlets for filter control.

**Motor:**

- Class F motors, with ball bearings, IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V -50Hz (power over 4kW).
- Temperature of the air to transport: -20°C +60°C.
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.



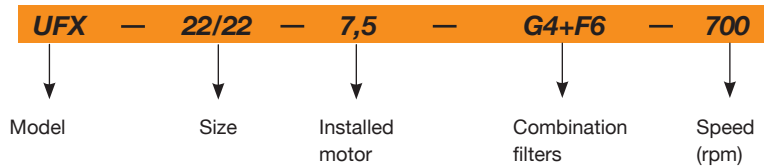
**Construction:**

- Galvanised sheet steel structure with soundproofing.
- Impeller with forward-facing blades made from galvanised sheet steel.
- Stuffing-box for cable inlet.
- Built-in base.

**Finish:**

- Anticorrosive in galvanized sheet steel.

**Order code**

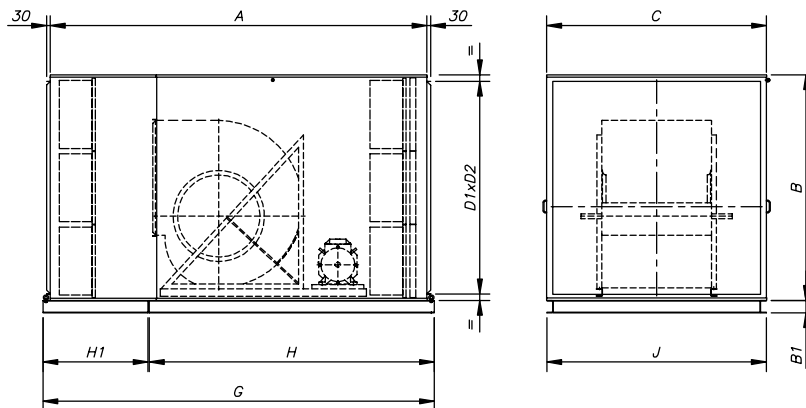


**Technical characteristics**

| Model     | Max. Installed power (kW) | Maximum airflow (m³/h) |                 |                 | Number of pre-filters |         | Number of filters |         | Weight (Kg) | According ErP |
|-----------|---------------------------|------------------------|-----------------|-----------------|-----------------------|---------|-------------------|---------|-------------|---------------|
|           |                           | Filters (F6+F8)        | Filters (F7+F9) | Filters (G4+F6) | Whole*                | Medium* | Whole*            | Medium* |             |               |
| UFX-12/12 | 2,20                      | 5.250                  | 5.100           | 4.650           | 1                     | 0       | 1                 | 0       | 112         | 2018          |
| UFX-15/15 | 3,00                      | 9.050                  | 8.870           | 8.225           | 1                     | 2       | 1                 | 2       | 148         | 2018          |
| UFX-18/18 | 4,00                      | 10.735                 | 10.370          | 9.320           | 1                     | 2       | 1                 | 2       | 195,5       | 2018          |
| UFX-20/20 | 7,50                      | 16.805                 | 16.510          | 15.575          | 4                     | 0       | 4                 | 0       | 351,5       | 2018          |
| UFX-22/22 | 11,00                     | 21.100                 | 20.610          | 19.110          | 4                     | 0       | 4                 | 0       | 401         | 2018          |
| UFX-25/25 | 11,00                     | 26.760                 | 26.190          | 24.355          | 4                     | 4       | 4                 | 4       | 457         | 2018          |
| UFX-30/28 | 15,00                     | 41.060                 | 40.310          | 37.840          | 9                     | 0       | 9                 | 0       | 575         | 2018          |

\*Pre-filter dimensions: Whole: 585x585x48. Medium: 290x585x48  
 \*Filter dimensions: Whole: 593x593x292. Medium: 288x593x292

## Dimensions in mm



| Model     | A      | B      | C    | D1   | D2   | B1  | H    | H1    | G      | J    |
|-----------|--------|--------|------|------|------|-----|------|-------|--------|------|
| UFX-12/12 | 1782   | 650    | 700  | 556  | 606  | 60  | -    | -     | 1902   | 698  |
| UFX-15/15 | 2157.5 | 932.5  | 888  | 826  | 794  | 80  | 1610 | 657.5 | 2277.5 | 886  |
| UFX-18/18 | 2272.5 | 932.5  | 888  | 826  | 794  | 80  | 1725 | 657.5 | 2392.5 | 886  |
| UFX-20/20 | 2515   | 1236.5 | 1192 | 1123 | 1095 | 80  | 1855 | 770   | 2635   | 1194 |
| UFX-22/22 | 2630   | 1236.5 | 1192 | 1123 | 1095 | 80  | 1970 | 770   | 2750   | 1194 |
| UFX-25/25 | 2827   | 1524.5 | 1480 | 1422 | 1386 | 100 | 2083 | 854   | 2947   | 1478 |
| UFX-30/38 | 3060   | 1832.5 | 1786 | 1727 | 1690 | 100 | 2316 | 854   | 3180   | 1784 |

## Accessories

See accessories section



FILTERS



CJFILTER



PRESSURE SWITCH



SI-PRESSURE



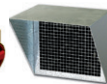
CONSTANT FLOW KIT



PRESSURE PROBE



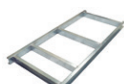
INT



VIS



TEJ



BASE STAND



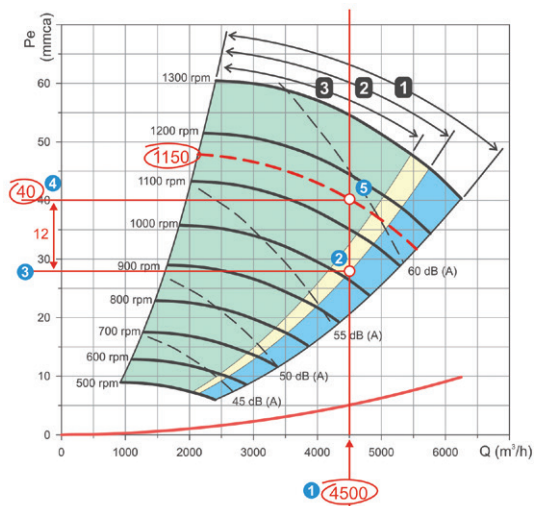
SILENT-BLOCKS

## EXAMPLE OF SELECTION OF FILTRATION UNIT UFX

Useful areas according to filters **1** F6+F8    **2** F7+F9    **3** G4+F6  
 Static pressure \_\_\_\_\_    Dynamic pressure \_\_\_\_\_    Sound level dB(A) - - - - -

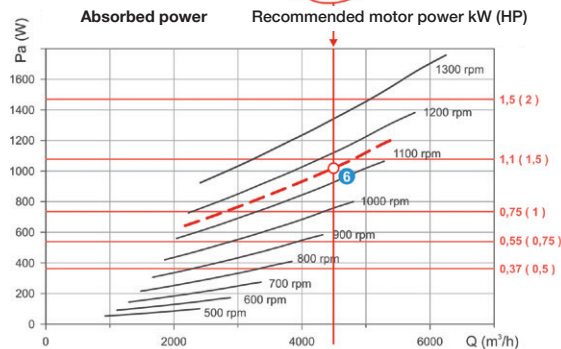
**Initial data:**

- Working flow with clean filters. It is advised to increase the required flow by 10%. In total, 4500 m<sup>3</sup>/h.
- Loss of load from the installation 12 mm.w.c.
- Desired filter combination. F7+F9.



**Procedure:**

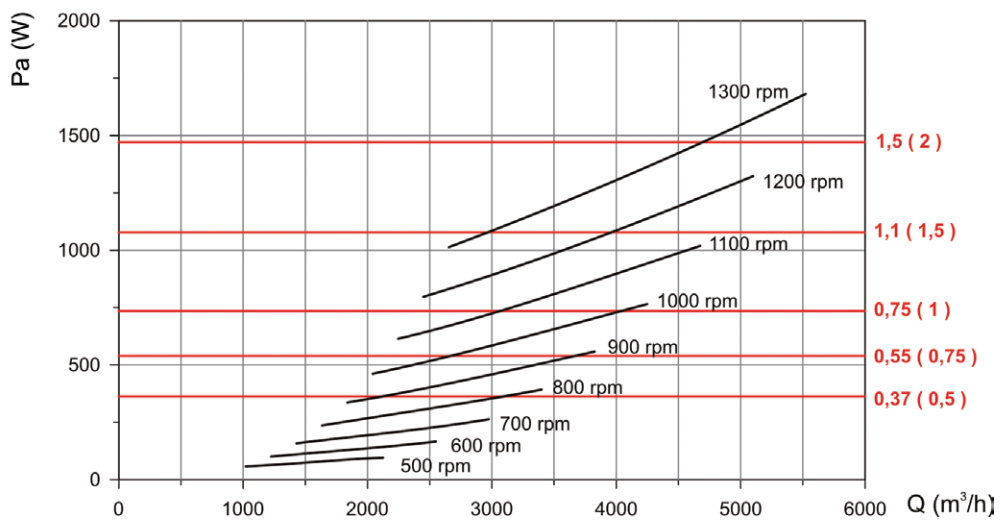
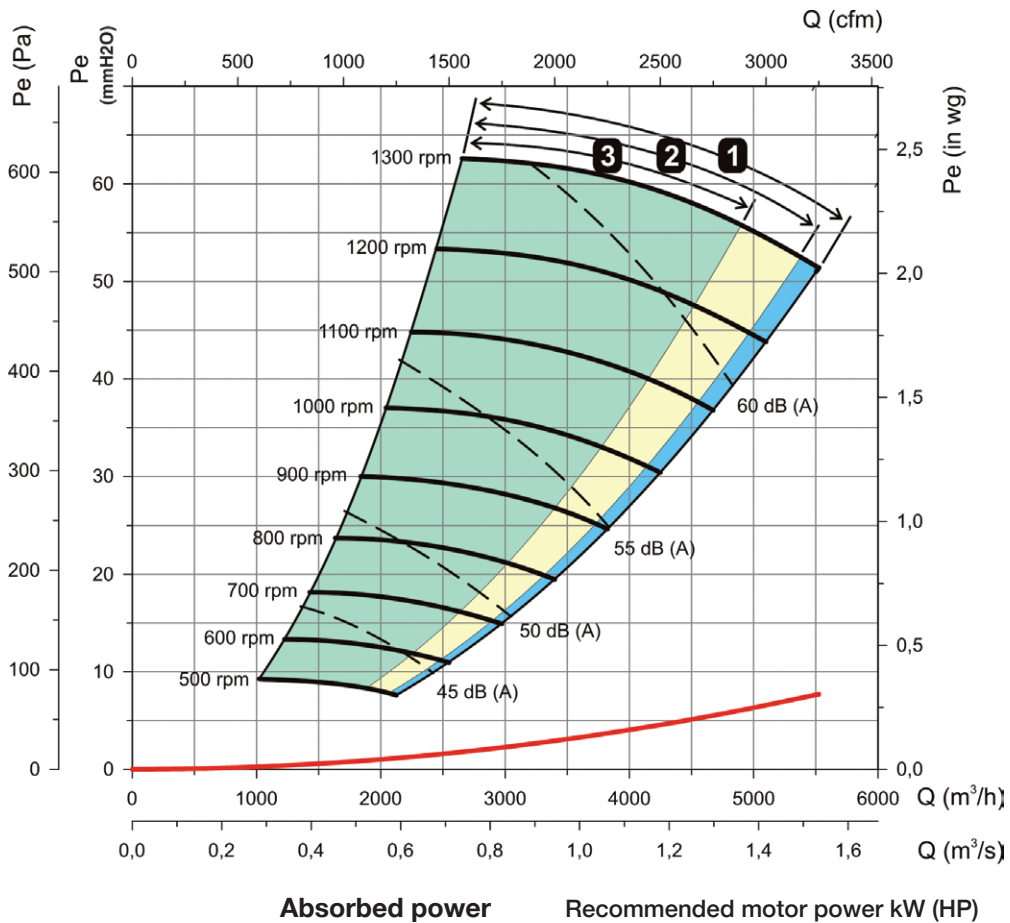
- On the flow-pressure graph, trace a vertical line from the point of 4500 m<sup>3</sup>/h on the flow (1) axis, through the entire graph, to the point of least pressure of the working area of F7 + F9 (2).
- Trace a horizontal line to the pressure scale (3). The value on the Pe scale is the resistance of the 100% clean filters. In this case, 28 mm.w.c.
- Trace a line parallel to the horizontal line, by adding on the installation's head loss of 12 mm.w.c. (4).
- Point (5) is the service point of the equipment, under operating conditions: 4500 m<sup>3</sup>/h at 40 mm.w.c. It must be checked that the service point is within the useful area of F7+F9. If this is not the case, another piece of equipment must be found.
- The speed of transmission is determined by the position of the service point, between two curves at a known speed. In this case, the result is 1150 rpm.
- As the filters get dirty, the pressure will increase and the flow will diminish following the curve of 1150 rpm. The dirty filter must be replaced by a clean one when the flow is reduced to below the acceptable level, or the pressure rises above the maximum indicated on the RITE.
- In the graph of absorbed power, it is possible to find the appropriate motor, tracing a curve of 1150 rpm, between the curves drawn. In the intersection with the flow line, the service point is obtained (6).
- The power immediately above the operating point is 1.5 HP



### Characteristic Curves

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6  
 Static pressure \_\_\_\_\_ Dynamic pressure \_\_\_\_\_ Sound level dB(A) \_\_\_\_\_

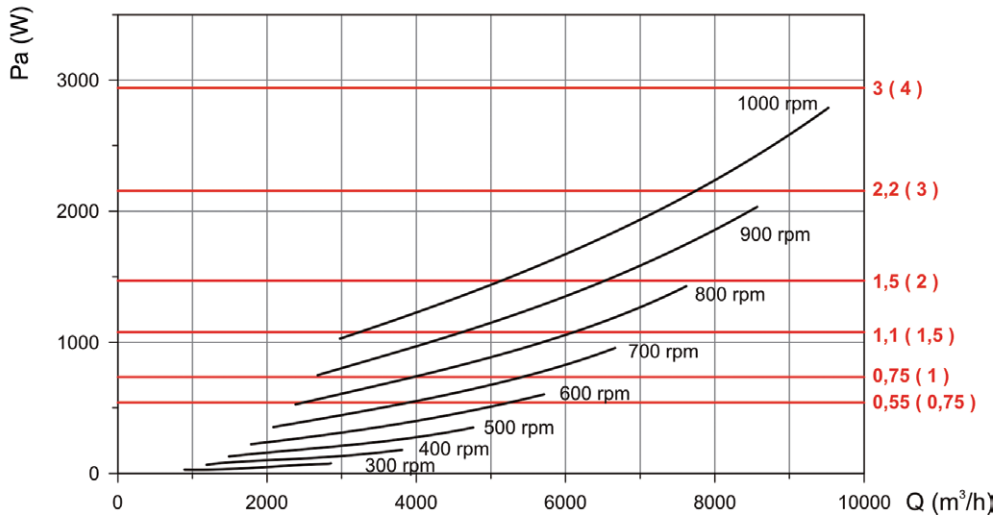
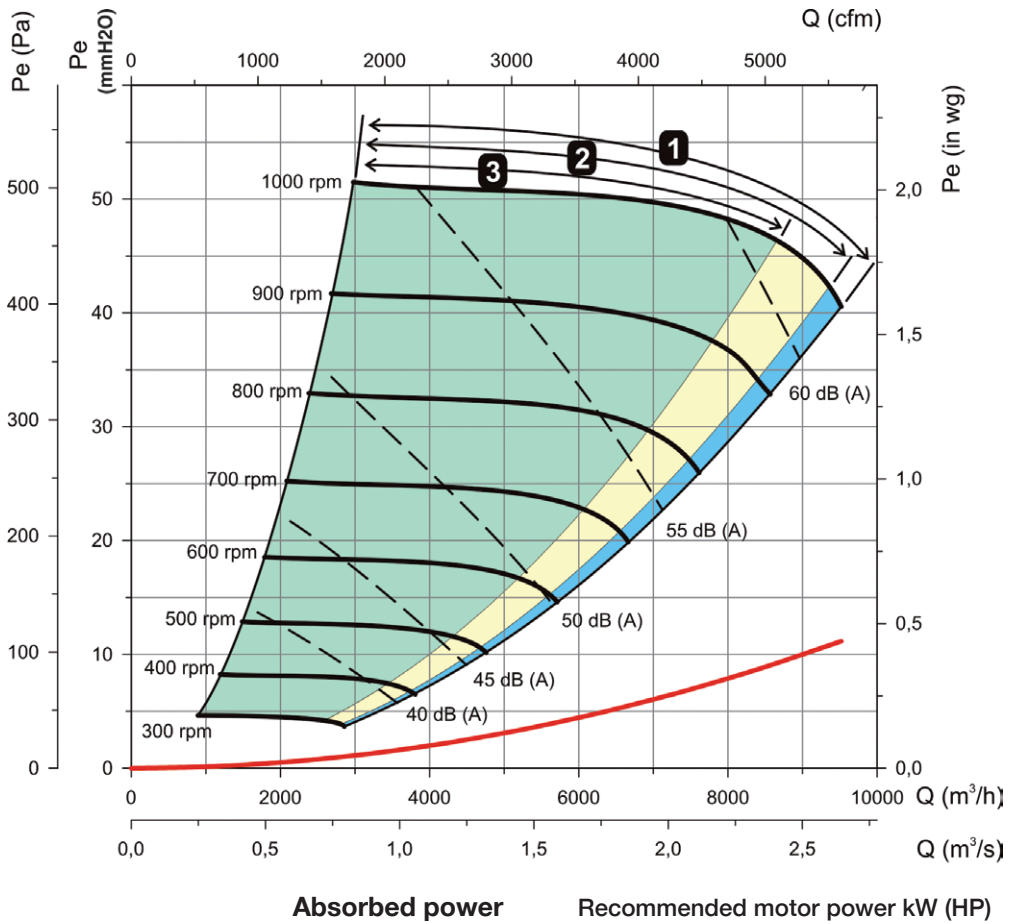
#### UFX-12/12



**Characteristic Curves**

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6  
 Static pressure                      Dynamic pressure                      Sound level dB(A)                     

**UXF-15/15**

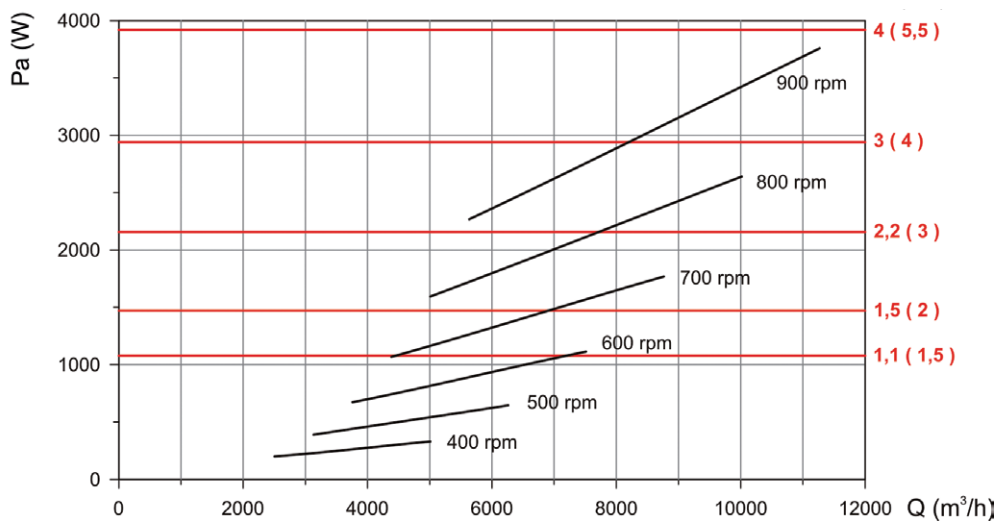
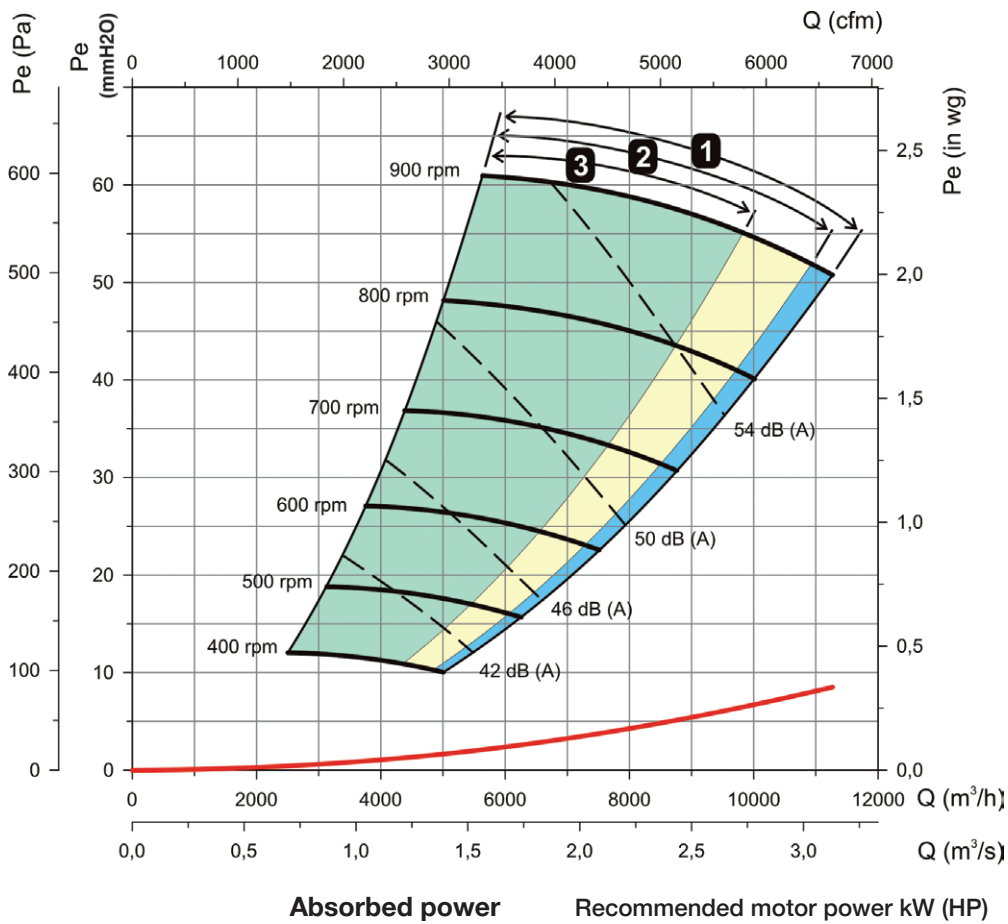




## Characteristic Curves

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6  
 Static pressure                      Dynamic pressure                      Sound level dB(A)                     

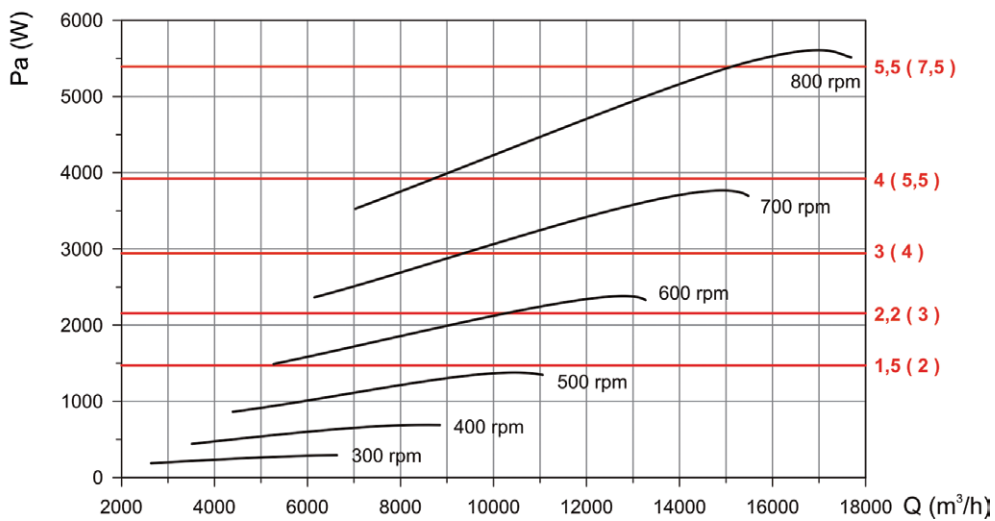
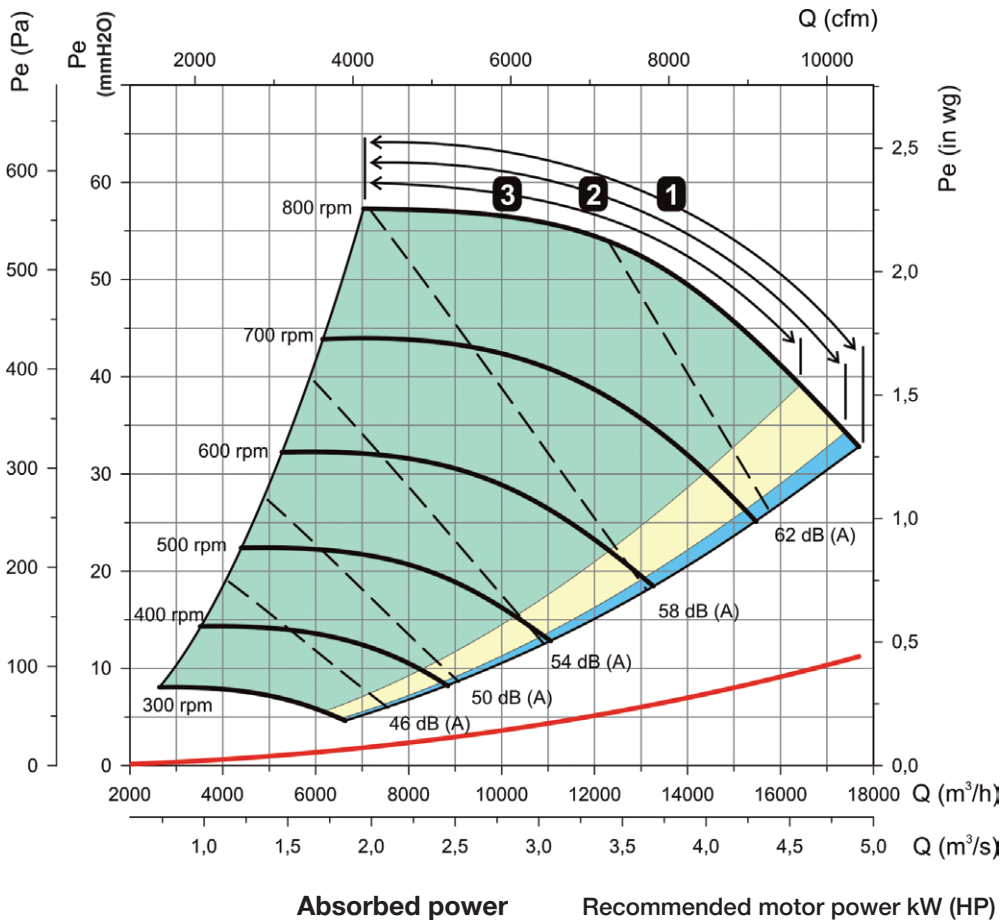
### UFX-18/18



**Characteristic Curves**

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6  
 Static pressure                      Dynamic pressure                      Sound level dB(A)                     

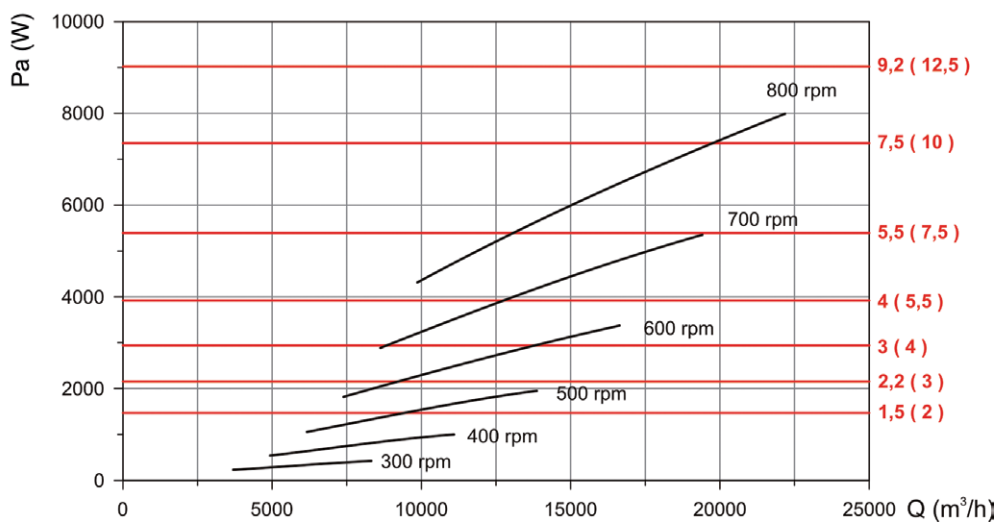
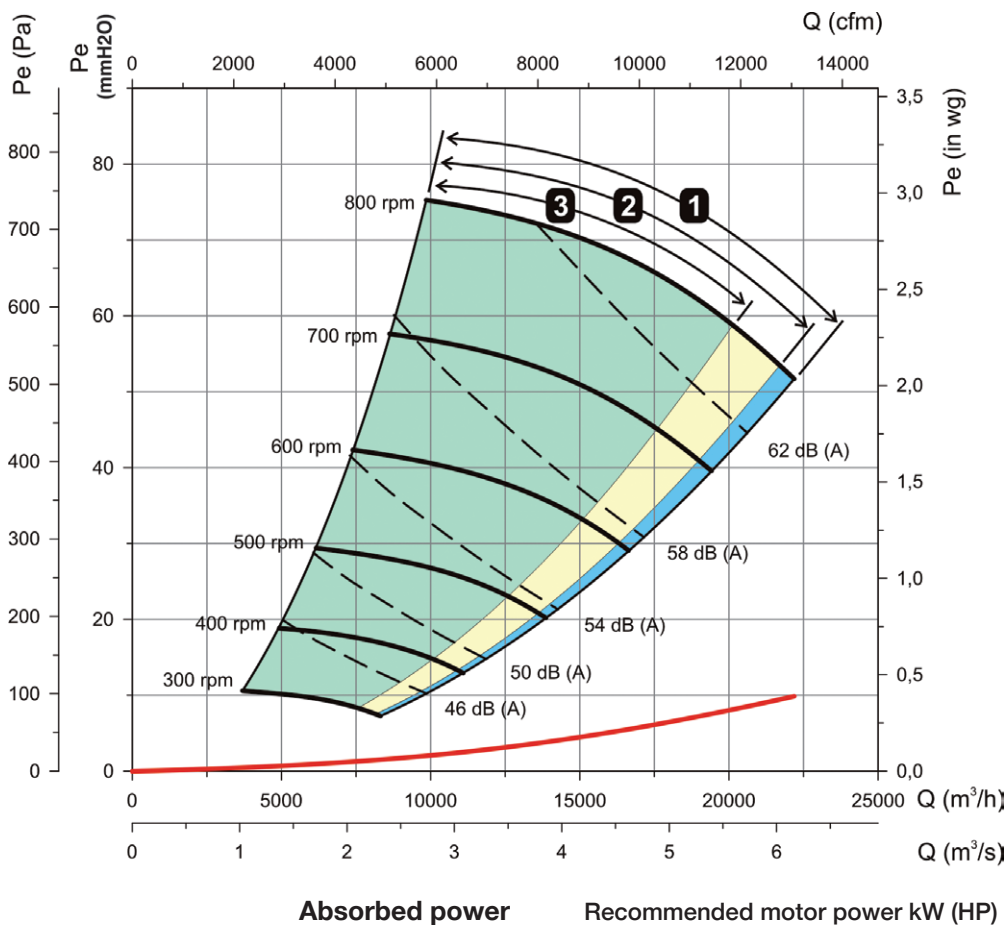
**UFX-20/20**



## Characteristic Curves

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6  
 Static pressure                      Dynamic pressure                      Sound level dB(A)                     

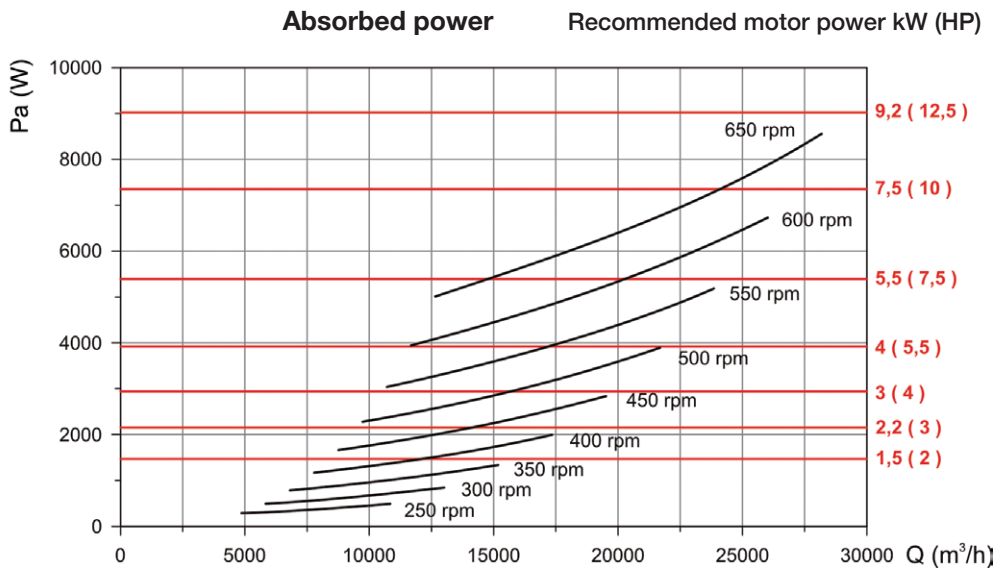
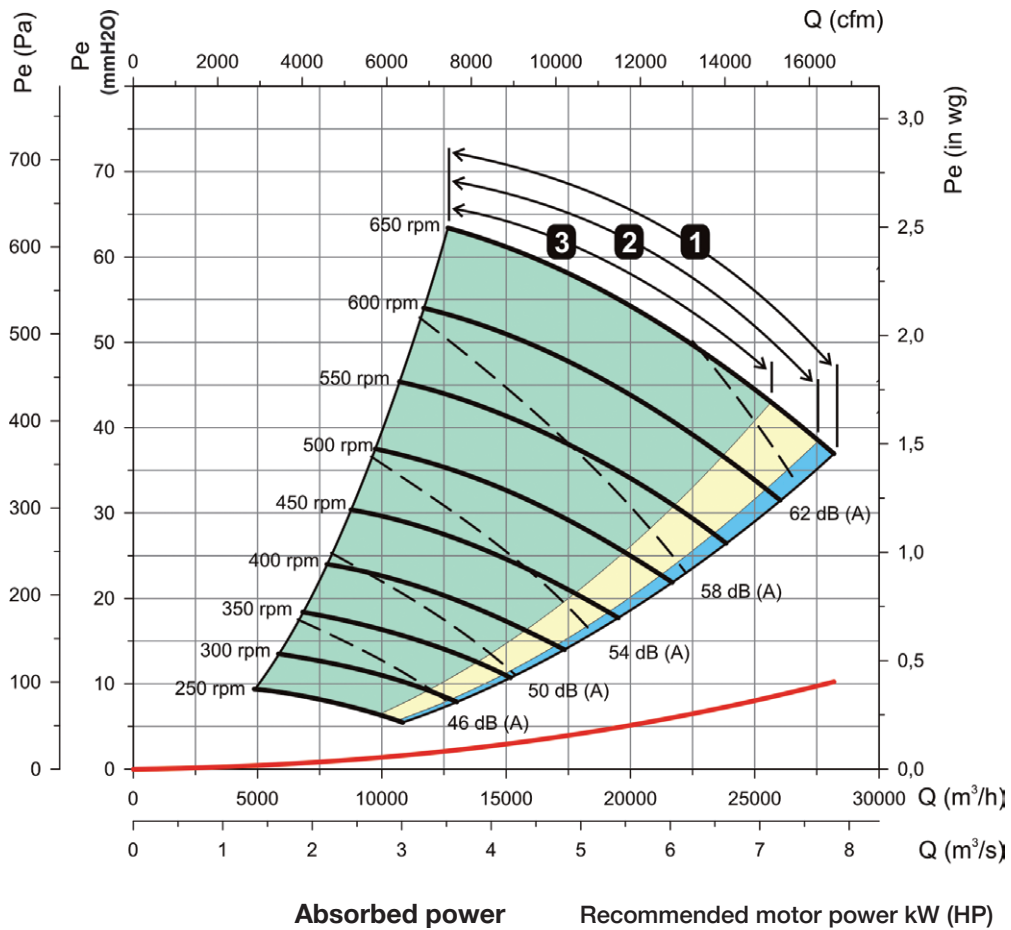
### UFX-22/22



**Characteristic Curves**

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6  
 Static pressure                      Dynamic pressure                      Sound level dB(A)                     

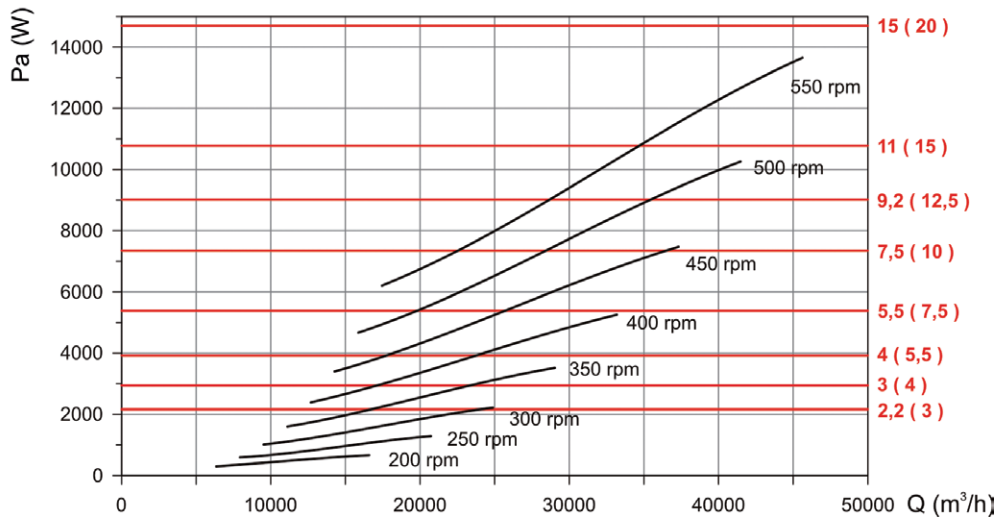
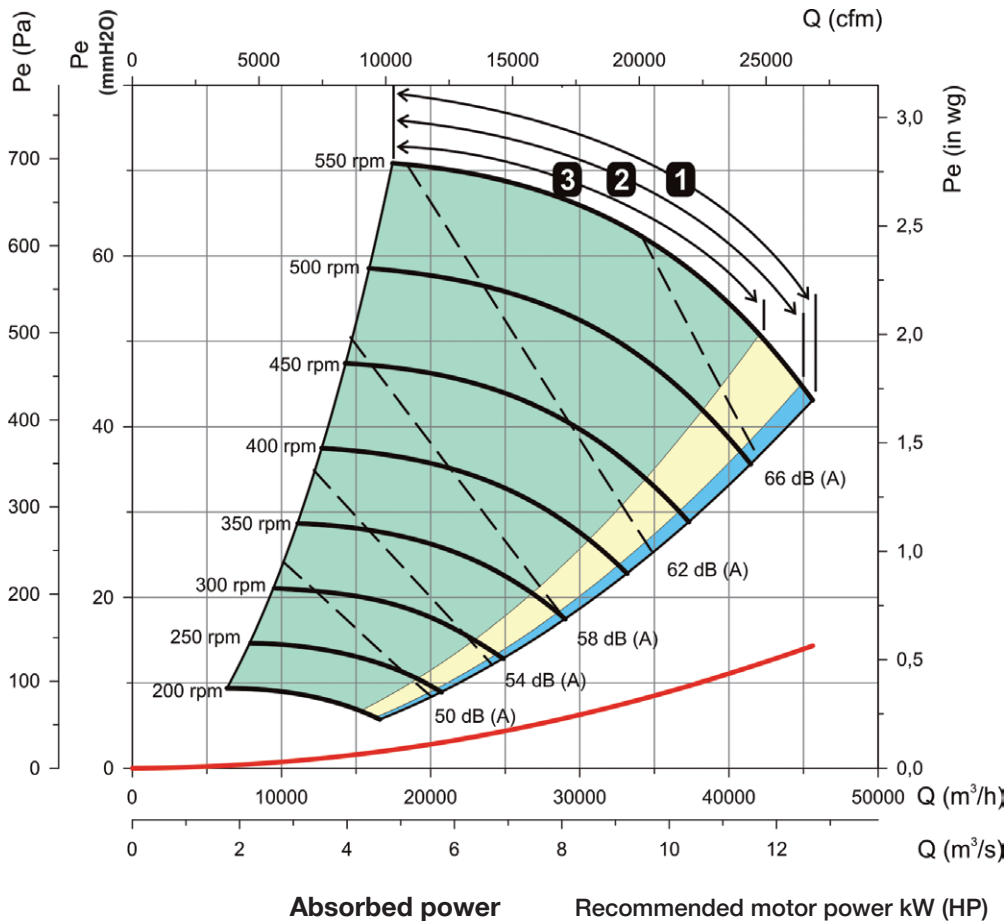
**UFX-25/25**



### Characteristic Curves

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6  
 Static pressure                      Dynamic pressure                      Sound level dB(A)                     

#### UFX-30/28





# UFRX

**Soundproofed filtration units equipped with double inlet fans, with very robust backward-curved impeller and different stages of filtration depending on model**



**Features:**

- Belt-driven.
- Built-in base.
- Filters F6 + F8, F7 + F9 and G4 + F6.
- Optionally pre-filter plus three stages of filtration
- Easy access inspection and cleaning covers.
- Pressure inlets and pressure switches for filter control.

**Motor:**

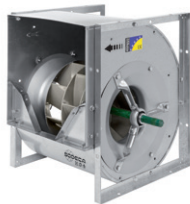
- Class F motors, with ball bearings, IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V -50Hz (power over 4kW).
- Temperature of the air to transport: -20°C +60°C.
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.

**Construction:**

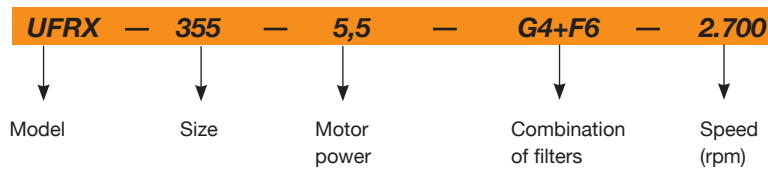
- Galvanised sheet steel structure with soundproofing.
- Impeller with backward-curved blades made from sheet steel.
- Built-in base.

**Finish:**

- Anticorrosive pre-lacquered sheet steel



**Order code**

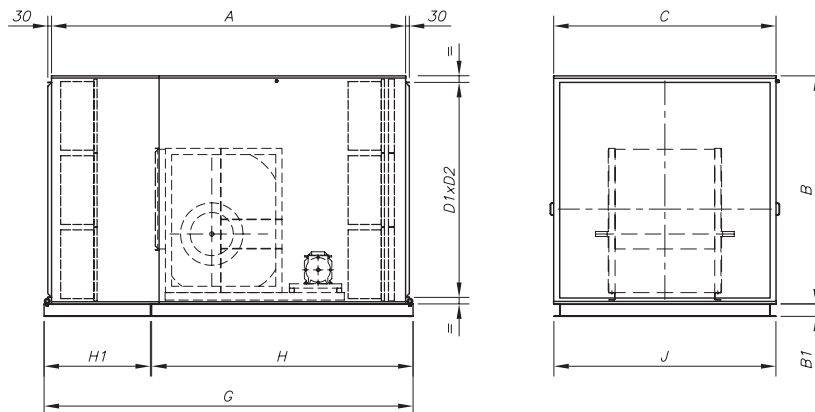


**Technical characteristics**

| Model    | Max. Installed power (kW) | Maximum airflow (m³/h) |                 |                 | Number of pre-filters |         | Number of filters |         | Weight (Kg) | According ErP |
|----------|---------------------------|------------------------|-----------------|-----------------|-----------------------|---------|-------------------|---------|-------------|---------------|
|          |                           | Filters (F6+F8)        | Filters (F7+F9) | Filters (G4+F6) | Whole*                | Medium* | Whole*            | Medium* |             |               |
| UFRX-315 | 3,0                       | 8.550                  | 8.075           | 7.600           | 1                     | 2       | 1                 | 2       | 117         | 2018          |
| UFRX-355 | 5,5                       | 12.330                 | 11.645          | 10.960          | 4                     | 0       | 4                 | 0       | 155,5       | 2018          |
| UFRX-400 | 7,5                       | 16.470                 | 15.555          | 14.640          | 4                     | 0       | 4                 | 0       | 204         | 2018          |
| UFRX-450 | 11,0                      | 20.700                 | 19.550          | 18.400          | 4                     | 4       | 4                 | 4       | 364,5       | 2018          |
| UFRX-500 | 15,0                      | 28.800                 | 27.200          | 25.600          | 4                     | 4       | 4                 | 4       | 415         | 2018          |
| UFRX-560 | 18,5                      | 36.360                 | 34.340          | 32.320          | 9                     | 0       | 9                 | 0       | 478         | 2018          |
| UFRX-630 | 18,5                      | 43.000                 | 42.000          | 41.000          | 9                     | 0       | 9                 | 0       | 594         | 2018          |

\*Pre-filter dimensions: Whole: 585x585x48. Medium: 290x585x48  
 \*Filter dimensions: Whole: 593x593x292. Medium: 288x593x292

## Dimensions in mm



| Model    | Height |        | Width |      | B1   | H   | H1   | G     | J      |      |
|----------|--------|--------|-------|------|------|-----|------|-------|--------|------|
|          | A      | B      | C     | D1   |      |     |      |       |        | D2   |
| UFRX-315 | 1987.5 | 932.5  | 888   | 826  | 794  | 80  | 1440 | 657.5 | 2107.5 | 886  |
| UFRX-355 | 2401   | 1236.5 | 1192  | 1123 | 1095 | 80  | 1741 | 770.5 | 2521.5 | 1194 |
| UFRX-400 | 2401   | 1236.5 | 1192  | 1123 | 1095 | 80  | 1741 | 770.5 | 2521.5 | 1194 |
| UFRX-450 | 2485   | 1551.5 | 1480  | 1422 | 1386 | 100 | 1741 | 854   | 2605.5 | 1478 |
| UFRX-500 | 2725   | 1551.5 | 1480  | 1422 | 1386 | 100 | 1981 | 854   | 2845.5 | 1478 |
| UFRX-560 | 2844   | 1855.5 | 1786  | 1727 | 1690 | 100 | 2100 | 854   | 2964.5 | 1784 |
| UFRX-630 | 2844   | 1855.5 | 1786  | 1727 | 1690 | 100 | 2100 | 854   | 2964.5 | 1784 |

## Accessories

See accessories section



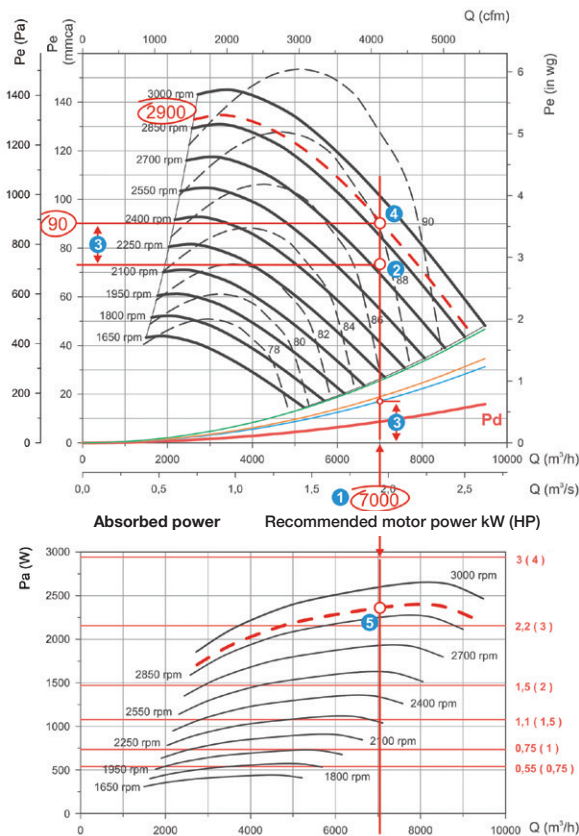
## EXAMPLE OF SELECTING FILTRATION UNIT UFRX

Useful areas according to filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure \_\_\_\_\_ Sound level dB(A) \_\_\_\_\_

### Initial data:

- Working flow with clean filters. It is advised to increase the required flow by 10%. In total, 7000 m<sup>3</sup>/h.
- Head loss from the installation 72 mm.w.c.
- Desired combination of filters: F6+F8.



### Procedure:

- On the flow-pressure graph, trace a vertical line from the point of 7000 m<sup>3</sup>/h on the flow (1) axis, through the entire graph, to the working pressure of the installation (2)
- At point (2) add the head loss from the F6+F8 filters, in this case 18 mm.w.c. (3), obtaining point (4). The head loss from the 100% clean filters is taken into account.
- The resulting Point (4) is the service point of the equipment, under operating conditions: 7000 m<sup>3</sup>/h at 90 mm.w.c. Check that the service point is within the useful area of F7+F9. If this is not the case, another piece of equipment must be found.
- The speed of transmission is determined by the position of the service point, between two curves at a known speed. In this case, the result is 2900 rpm.
- As the filters get dirty, the pressure will increase and the flow will diminish following the curve of 2900 rpm. The dirty filter must be replaced by a clean one when the flow is reduced to below the acceptable level, or the pressure rises above the maximum indicated on the RITE.
- In the graph of absorbed power, it is possible to find the appropriate motor, tracing a curve of 2900 rpm, between the curves drawn. In the intersection with the flow line, the service point is obtained (5) The recommended power is immediately above the operating point, 4 HP in the example.

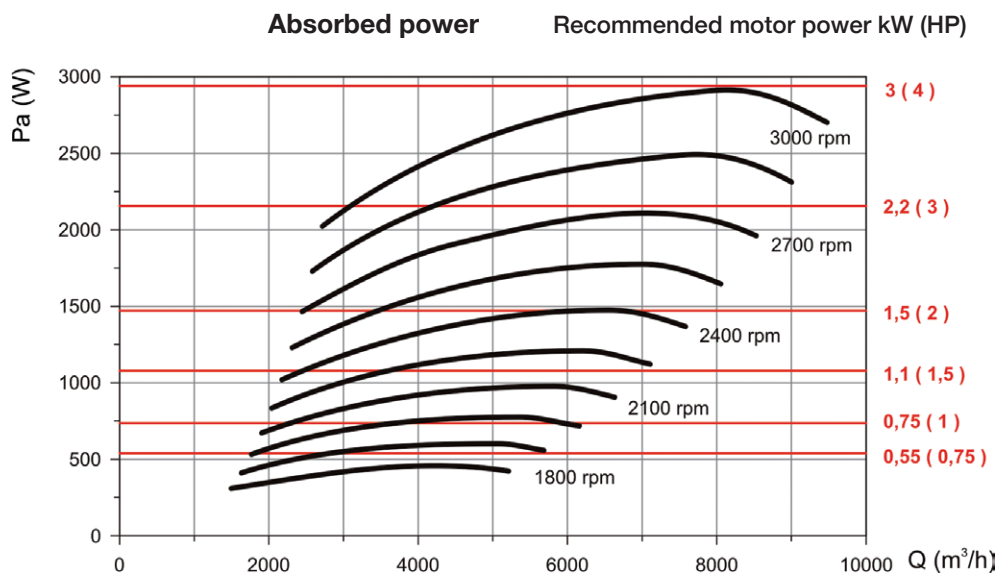
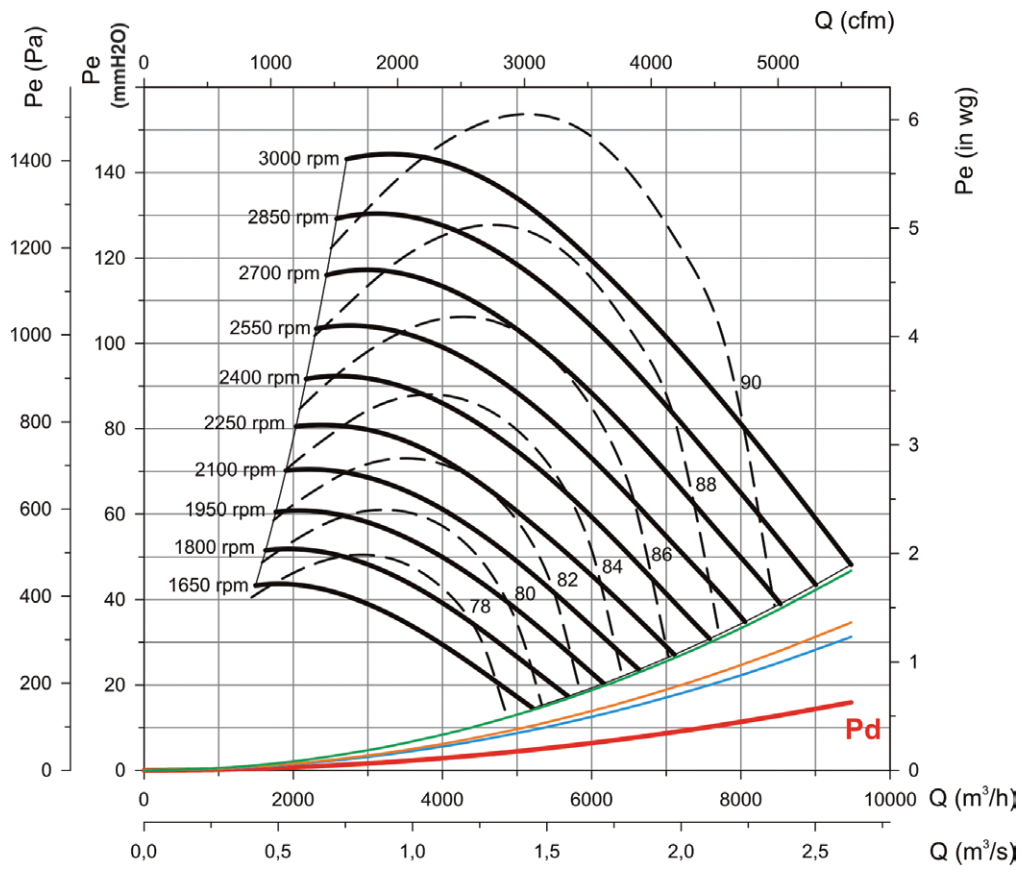


### Characteristic Curves

Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure                      Sound level dB(A) - - - - -

### UFRX-315

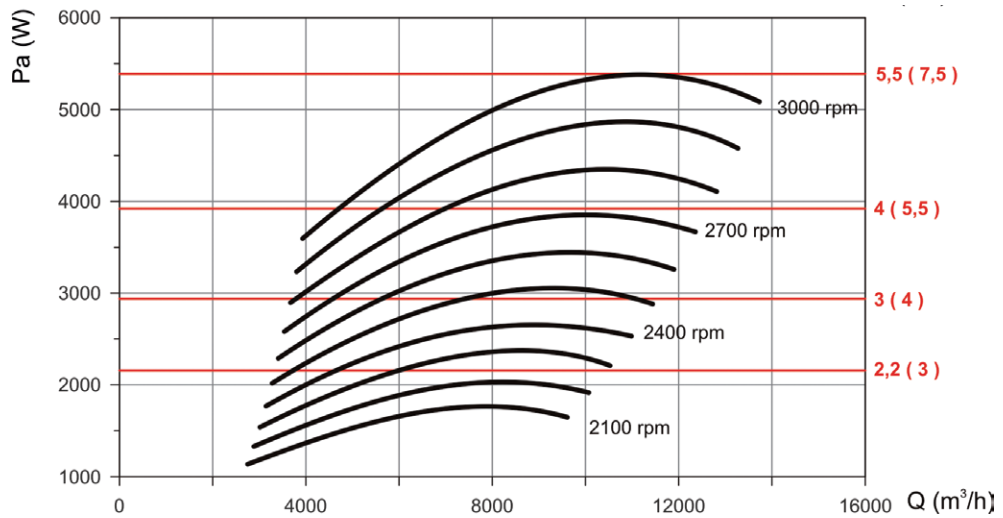
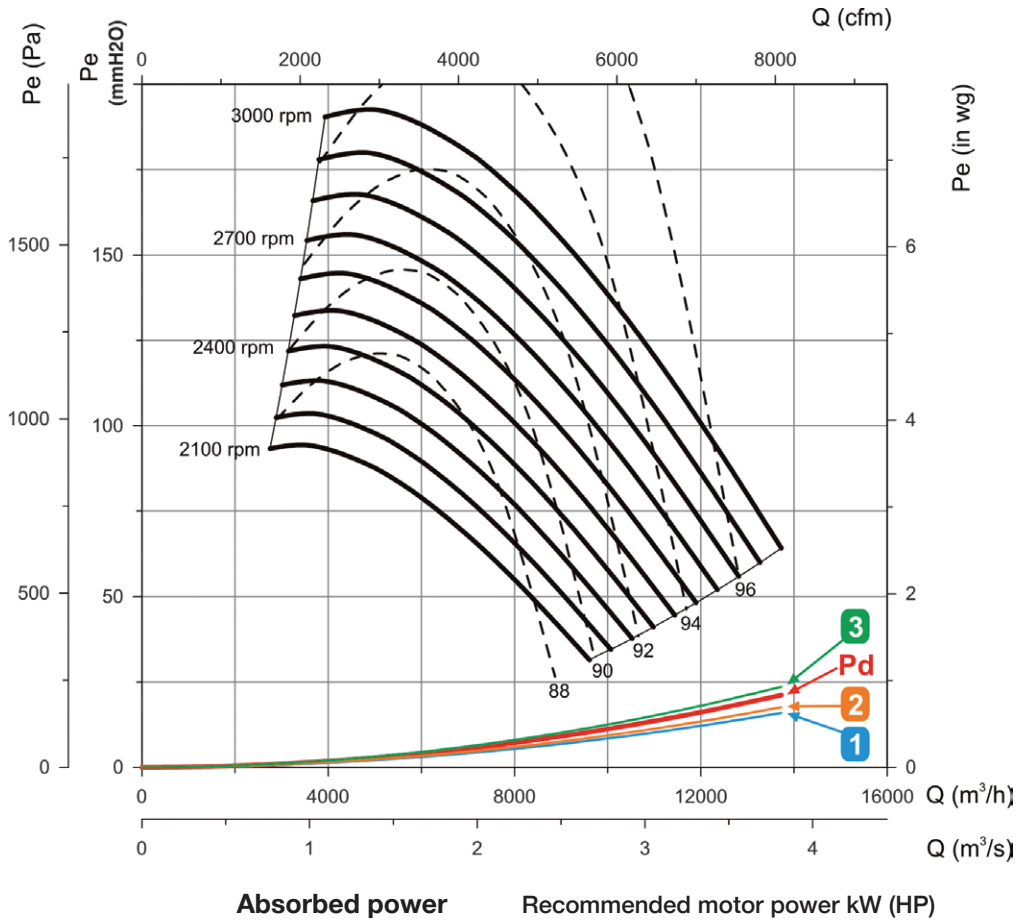


**Characteristic Curves**

Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure                      Sound level dB(A) - - - - -

**UFRX-355**

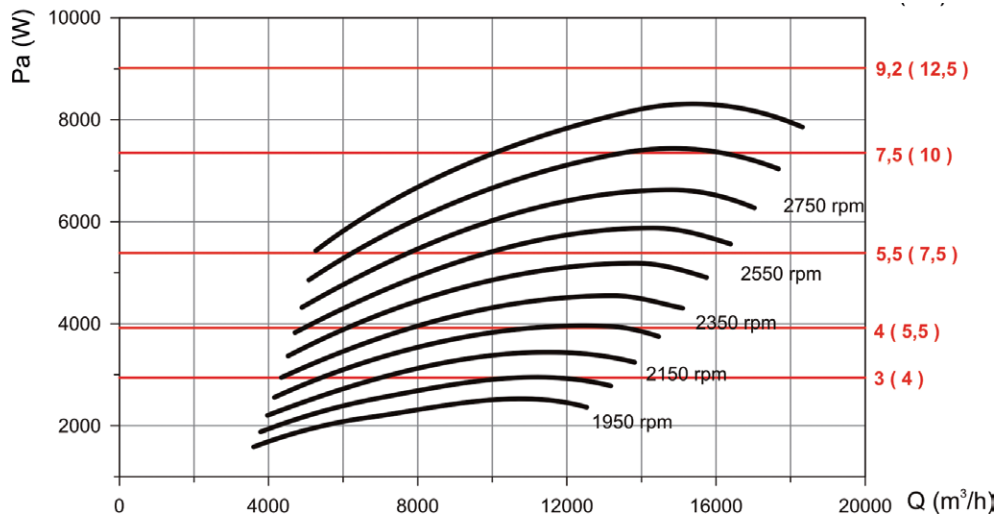
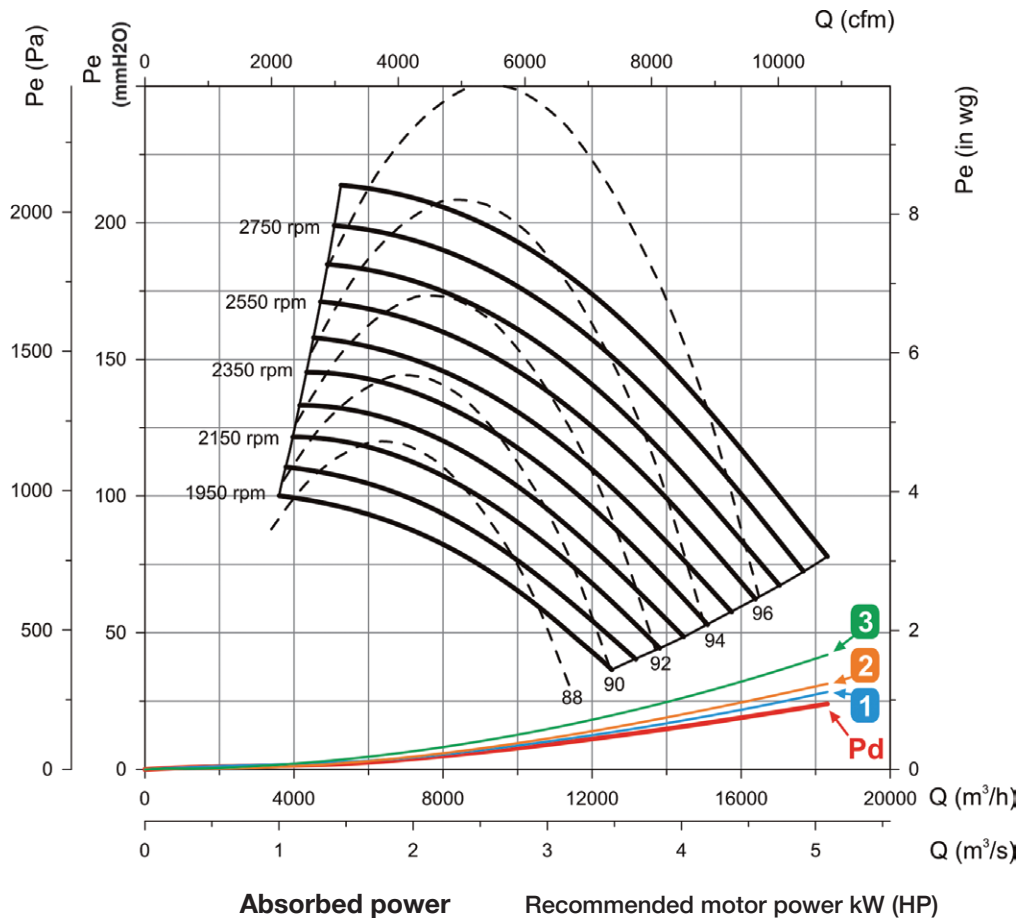


### Characteristic Curves

Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure \_\_\_\_\_ Sound level dB(A) \_\_\_\_\_

#### UFRX-400

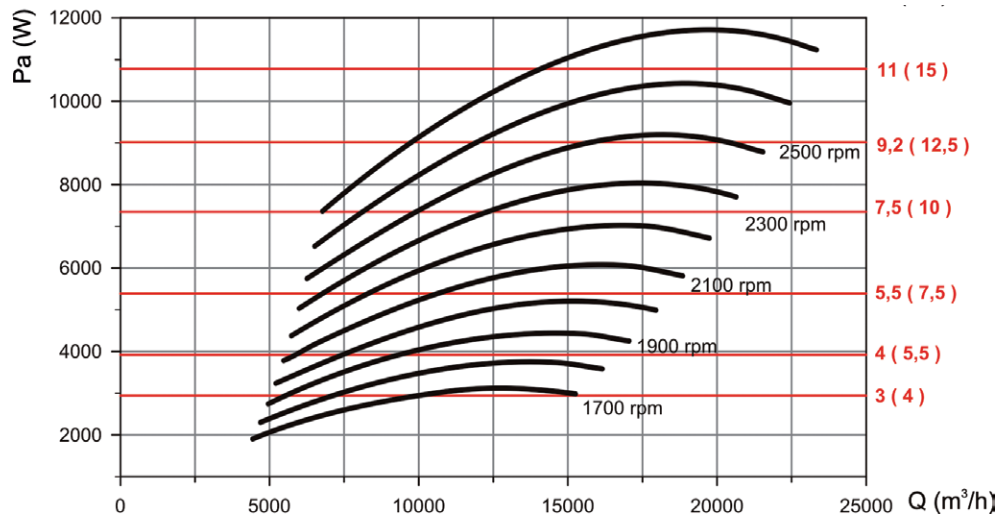
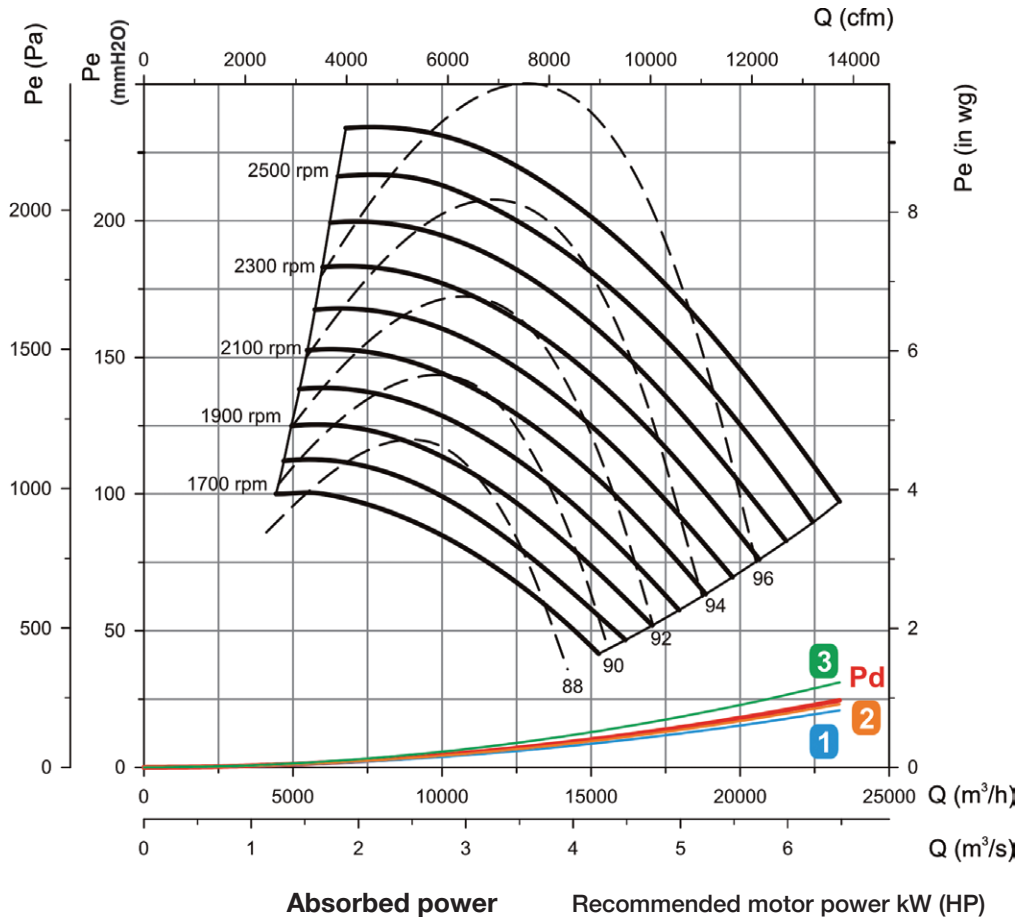


**Characteristic Curves**

Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure                      Sound level dB(A) - - - - -

**UFRX-450**

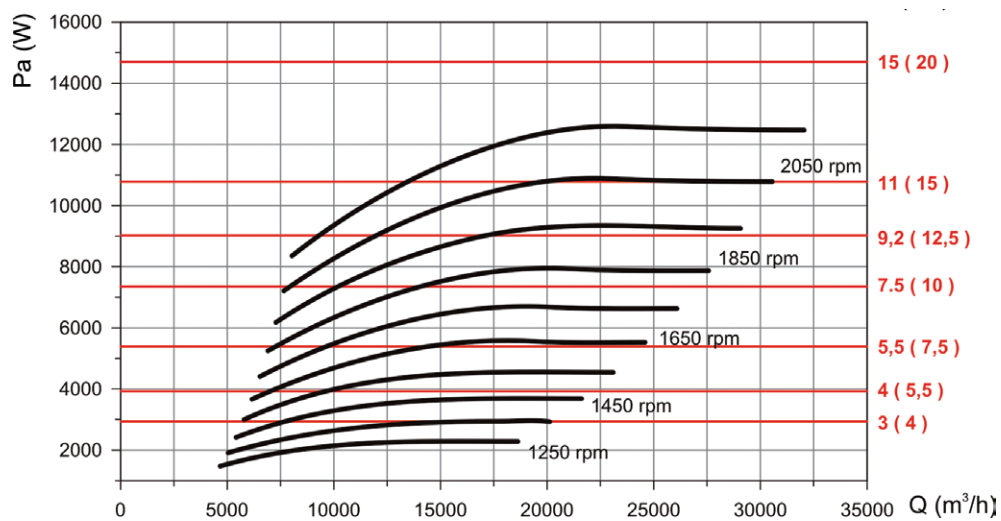
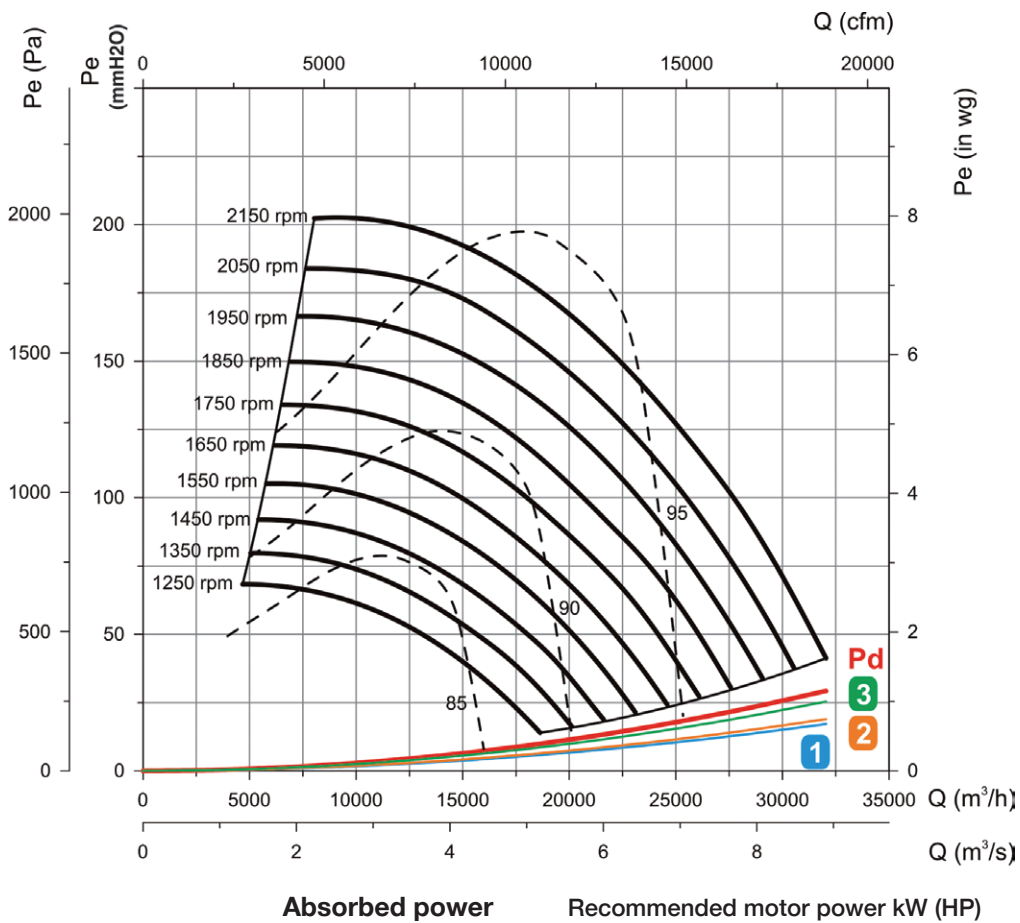


### Characteristic Curves

Useful areas according to filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure \_\_\_\_\_ Sound level dB(A) \_\_\_\_\_

#### UFRX-500

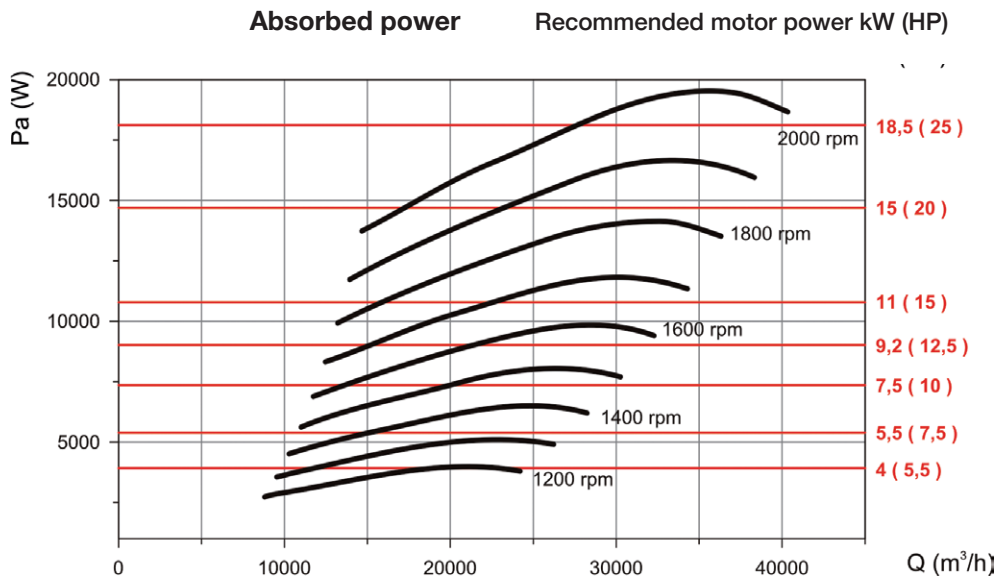
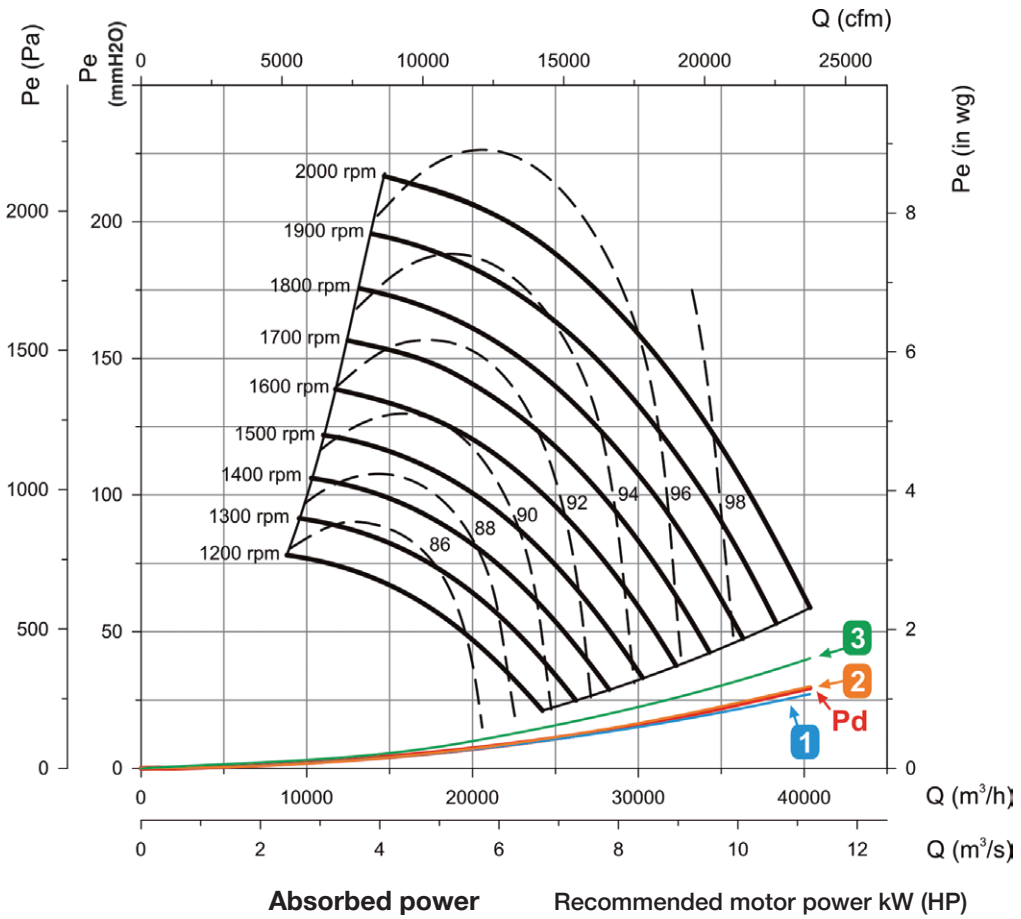


**Characteristic Curves**

Useful areas according to filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure                      Sound level dB(A) - - - - -

**UFRX-560**

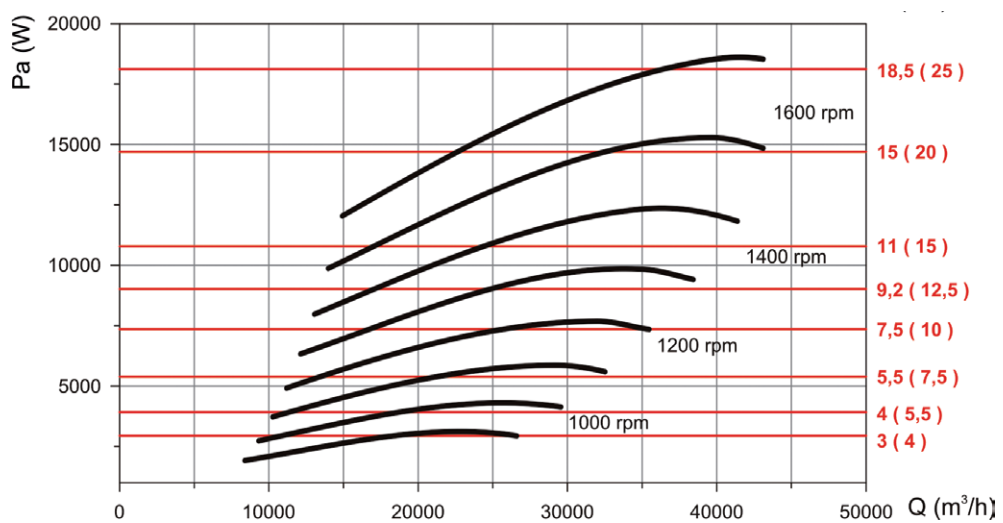
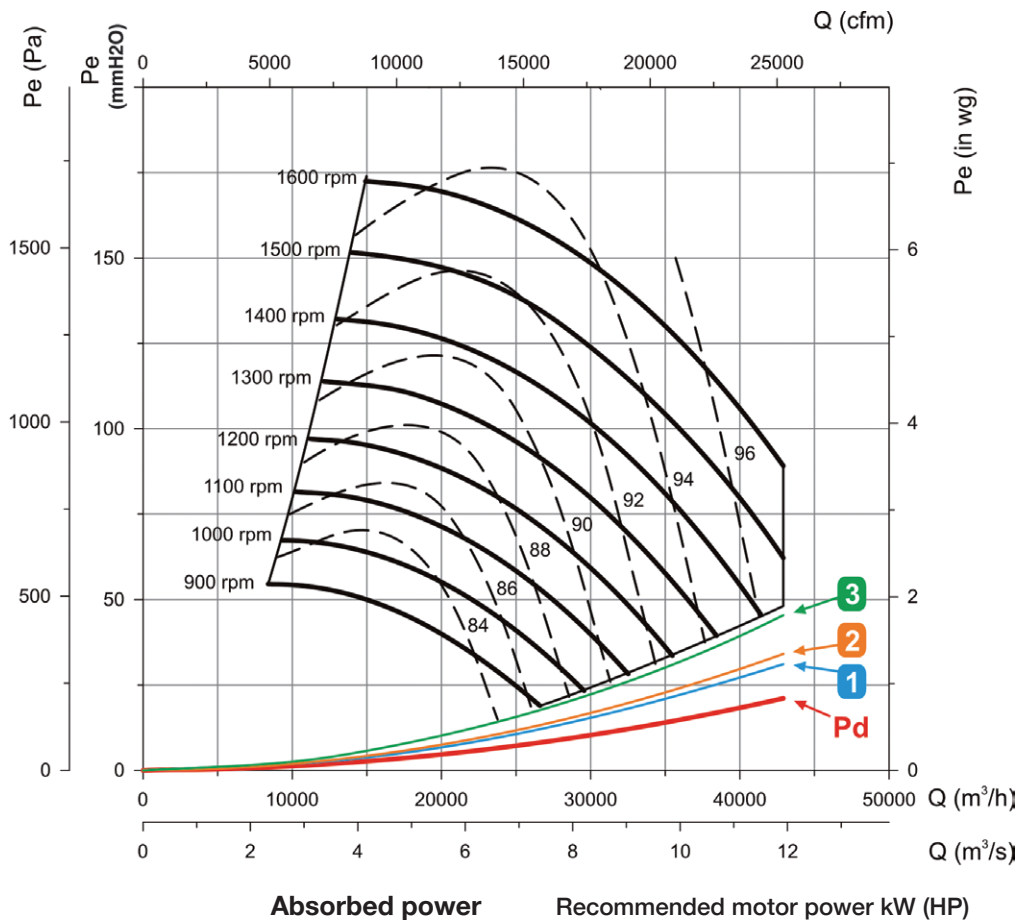


## Characteristic Curves

Useful areas according to filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure \_\_\_\_\_ Dynamic pressure \_\_\_\_\_ Sound level dB(A) \_\_\_\_\_

### UFRX-630





# UDTX

**Soundproofed belt-driven air treatment units, fitted with double-inlet fans and optional modules for filtration, electrical or hot-water heating**



**Box:**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Stuffing-box for cable inlet.

- Max. air temperature to transport: -20°C+ 60°C

**Versions:**

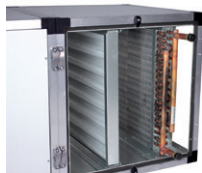
- MF: Filtration Module. Standard version F6+F8 and optionally F7+F9.
- ME: Module with electrically heated coil. Standard version G4 and optionally with F6+F8 or F7+F9 filters.
- MA: Module with water coil. Standard version G4 and optionally with F6+F8 or F7+F9 filters.

**Fan:**

- Ventilation units, equipped with fans from the CBX, CBXC or CBXR series
- Impellers with forward-facing blades made from galvanised sheet steel.

**On request:**

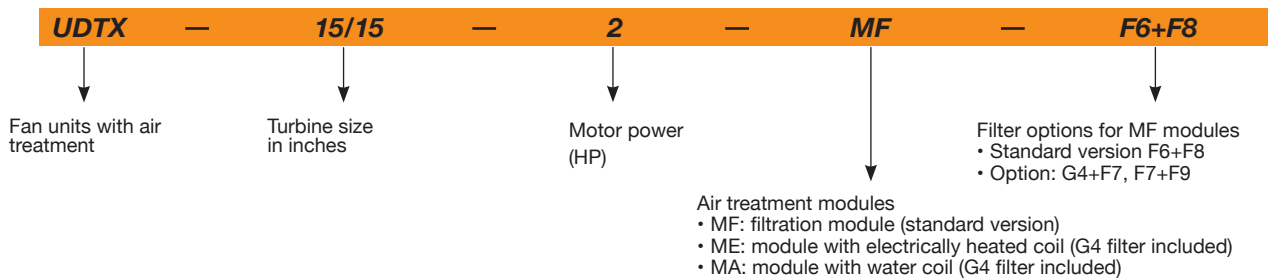
- Vertical outlet.
- Belt drive on left.
- Module installed as blower.



**Motor:**

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors, with ball bearings, IP54 protection.
- Three-phase 230/400V -50Hz. (up to 4kW) and 400/690V -50Hz (capacity over 4kW).

**Order code**



**Technical characteristics**

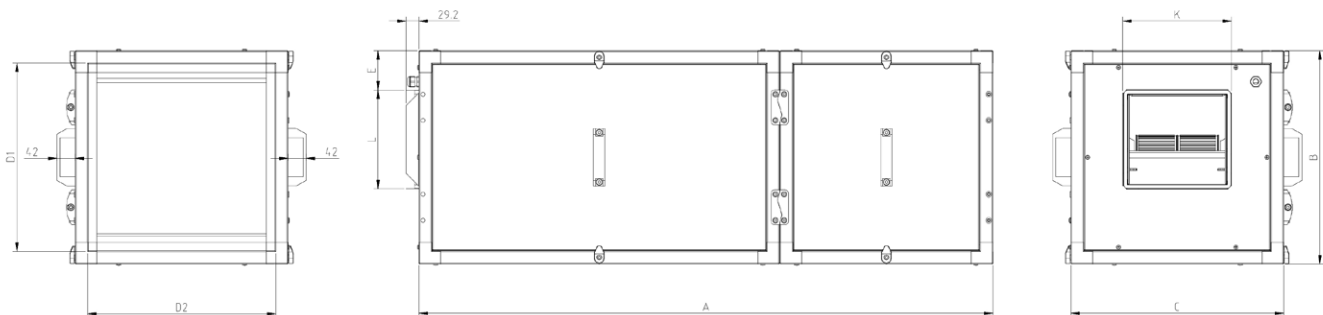
| Model          | Speed<br>(r/min) | Maximum admissible current<br>(A) |       |      | Installed power<br>(kW) | Maximum airflow<br>(m3/h) | Sound Level<br>dB(A) | Approx. weight<br>(Kg) | Assembly version |
|----------------|------------------|-----------------------------------|-------|------|-------------------------|---------------------------|----------------------|------------------------|------------------|
|                |                  | 230 V                             | 400 V | 690V |                         |                           |                      |                        |                  |
| UDTX-7/7-0.25  | 1090             | 1.23                              | 0.71  |      | 0.18                    | 1050                      | 48                   | 37                     | A                |
| UDTX-7/7-0.33  | 1220             | 1.66                              | 0.96  |      | 0.25                    | 1100                      | 50                   | 37.8                   | A                |
| UDTX-7/7-0.5   | 1420             | 2.02                              | 1.17  |      | 0.37                    | 1250                      | 53                   | 39                     | A                |
| UDTX-7/7-0.75  | 1600             | 2.92                              | 1.69  |      | 0.55                    | 1450                      | 56                   | 41                     | A                |
| UDTX-7/7-1     | 1790             | 3.1                               | 1.79  |      | 0.75                    | 1500                      | 58                   | 42.5                   | A                |
| UDTX-9/9-0.25  | 825              | 1.23                              | 0.71  |      | 0.18                    | 1700                      | 45                   | 48                     | A                |
| UDTX-9/9-0.33  | 920              | 1.66                              | 0.96  |      | 0.25                    | 1800                      | 48                   | 50                     | A                |
| UDTX-9/9-0.5   | 1020             | 2.02                              | 1.17  |      | 0.37                    | 2200                      | 51                   | 51.5                   | A                |
| UDTX-9/9-0.75  | 1050             | 2.92                              | 1.69  |      | 0.55                    | 2900                      | 55                   | 54.5                   | A                |
| UDTX-9/9-1     | 1070             | 3.1                               | 1.79  |      | 0.75                    | 3200                      | 56                   | 56                     | A                |
| UDTX-9/9-1.5   | 1260             | 4.03                              | 2.32  |      | 1.1                     | 3750                      | 60                   | 59                     | A                |
| UDTX-10/10-0.5 | 845              | 2.02                              | 1.17  |      | 0.37                    | 2950                      | 52                   | 55                     | A                |



## Technical characteristics

| Model           | Speed<br>(r/min) | Maximum admissible current<br>(A) |       |      | Installed<br>power<br>(kW) | Maximum<br>airflow<br>(m3/h) | Sound Level<br>dB(A) | Approx.<br>weight<br>(Kg) | Assembly<br>version |
|-----------------|------------------|-----------------------------------|-------|------|----------------------------|------------------------------|----------------------|---------------------------|---------------------|
|                 |                  | 230 V                             | 400 V | 690V |                            |                              |                      |                           |                     |
| UDTX-10/10-0.75 | 845              | 2.92                              | 1.69  |      | 0.55                       | 3800                         | 56                   | 57                        | A                   |
| UDTX-10/10-1    | 960              | 3.1                               | 1.79  |      | 0.75                       | 4175                         | 58                   | 58.5                      | A                   |
| UDTX-10/10-1.5  | 1070             | 4.03                              | 2.32  |      | 1.1                        | 4800                         | 61                   | 61.3                      | A                   |
| UDTX-10/10-2    | 1140             | 5.96                              | 3.44  |      | 1.5                        | 5400                         | 63                   | 64.6                      | A                   |
| UDTX-12/12-0.5  | 595              | 2.02                              | 1.17  |      | 0.37                       | 4200                         | 52                   | 69                        | A                   |
| UDTX-12/12-0.75 | 675              | 2.92                              | 1.69  |      | 0.55                       | 4800                         | 54                   | 71                        | A                   |
| UDTX-12/12-1    | 765              | 3.1                               | 1.79  |      | 0.75                       | 5400                         | 57                   | 72.4                      | A                   |
| UDTX-12/12-1.5  | 855              | 4.03                              | 2.32  |      | 1.1                        | 5800                         | 59                   | 75.3                      | A                   |
| UDTX-12/12-2    | 965              | 5.96                              | 3.44  |      | 1.5                        | 6500                         | 62                   | 78.6                      | A                   |
| UDTX-12/12-3    | 1180             | 8.36                              | 4.83  |      | 2.2                        | 7400                         | 65                   | 87                        | A                   |
| UDTX-15/15-0.75 | 525              | 2.92                              | 1.69  |      | 0.55                       | 5900                         | 49                   | 85                        | B                   |
| UDTX-15/15-1    | 595              | 3.1                               | 1.79  |      | 0.75                       | 6500                         | 52                   | 86.4                      | B                   |
| UDTX-15/15-1.5  | 635              | 4.03                              | 2.32  |      | 1.1                        | 7500                         | 54                   | 89.3                      | B                   |
| UDTX-15/15-2    | 670              | 5.96                              | 3.44  |      | 1.5                        | 8200                         | 56                   | 92.6                      | B                   |
| UDTX-15/15-3    | 740              | 8.36                              | 4.83  |      | 2.2                        | 9500                         | 59                   | 101                       | B                   |
| UDTX-15/15-4    | 805              | 10.96                             | 6.33  |      | 3                          | 10600                        | 61                   | 103                       | B                   |
| UDTX-15/15-5.5  | 965              | 14.1                              | 8.12  |      | 4                          | 12000                        | 63                   | 108                       | B                   |
| UDTX-18/18-1.5  | 480              | 4.03                              | 2.32  |      | 1.1                        | 9000                         | 48                   | 122                       | B                   |
| UDTX-18/18-2    | 605              | 5.96                              | 3.44  |      | 1.5                        | 9250                         | 51                   | 125.3                     | B                   |
| UDTX-18/18-3    | 590              | 8.36                              | 4.83  |      | 2.2                        | 11500                        | 54                   | 133.7                     | B                   |
| UDTX-18/18-4    | 640              | 10.96                             | 6.33  |      | 3                          | 13200                        | 56                   | 135.7                     | B                   |
| UDTX-18/18-5.5  | 675              | 14.1                              | 8.12  |      | 4                          | 15000                        | 58                   | 141                       | B                   |
| UDTX-18/18-7.5  | 760              |                                   | 11.6  | 6.72 | 5.5                        | 17000                        | 60                   | 154.5                     | B                   |

## Dimensions in mm



| Model      | A    | B    | C    | D1  | D2  | E   | L   | K   |
|------------|------|------|------|-----|-----|-----|-----|-----|
| UDTX-7/7   | 1320 | 490  | 490  | 428 | 428 | 91  | 226 | 247 |
| UDTX-9/9   | 1470 | 550  | 550  | 488 | 488 | 86  | 279 | 317 |
| UDTX-10/10 | 1575 | 605  | 605  | 543 | 543 | 88  | 306 | 343 |
| UDTX-12/12 | 1730 | 680  | 680  | 618 | 618 | 84  | 360 | 404 |
| UDTX-15/15 | 2075 | 855  | 855  | 793 | 793 | 119 | 423 | 490 |
| UDTX-18/18 | 2356 | 1000 | 1000 | 938 | 938 | 137 | 498 | 554 |

**Air treatment module options**



**MF: Filtration Modules**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module F6+F8 and optionally F7+F9.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



**ME: Modules with electrically heated coils**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Stuffing-box for cable inlet.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



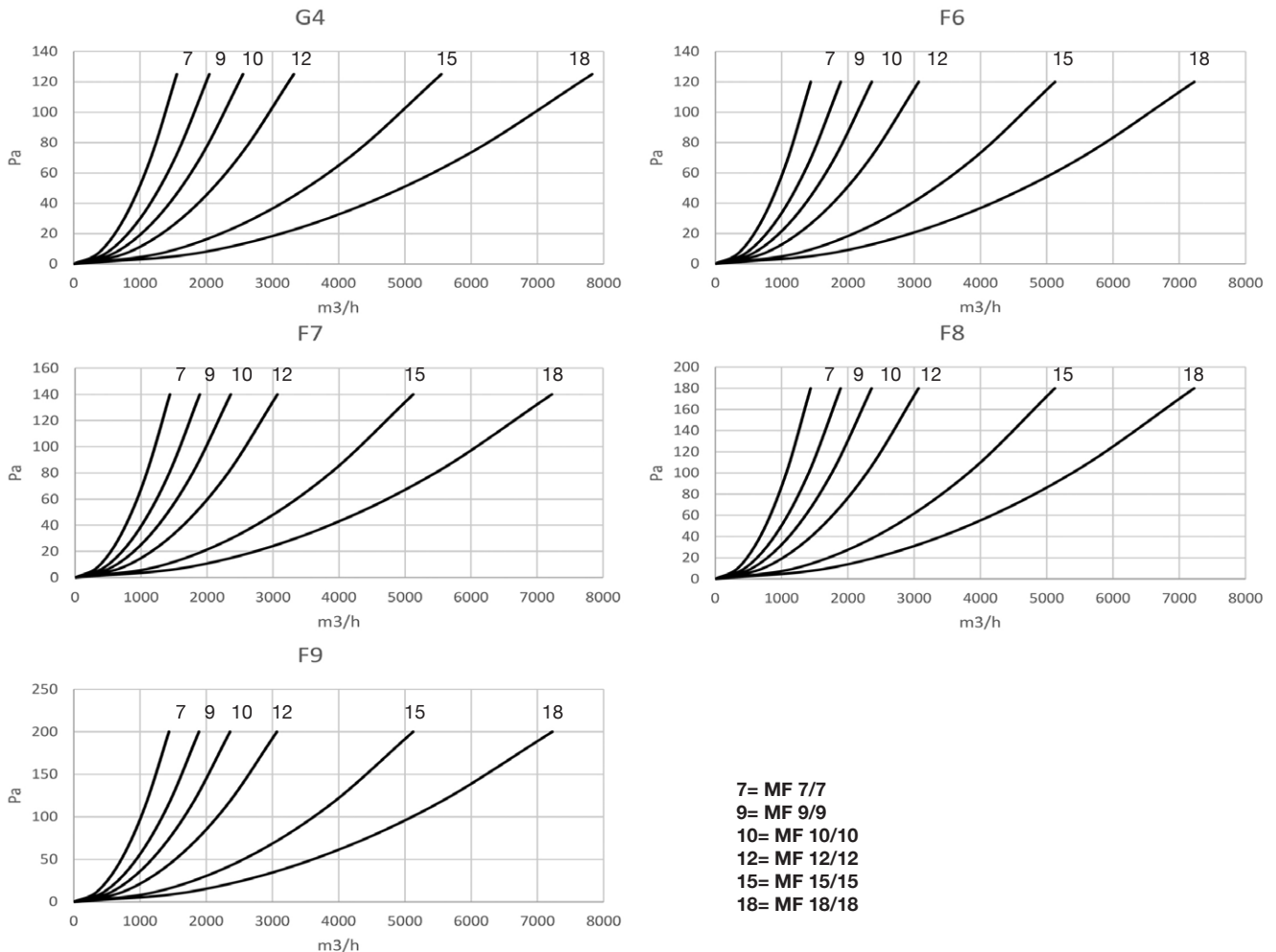
**MA: Modules with water coils**

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.

**MF: Filtration module characteristics**



**Head loss - filters**

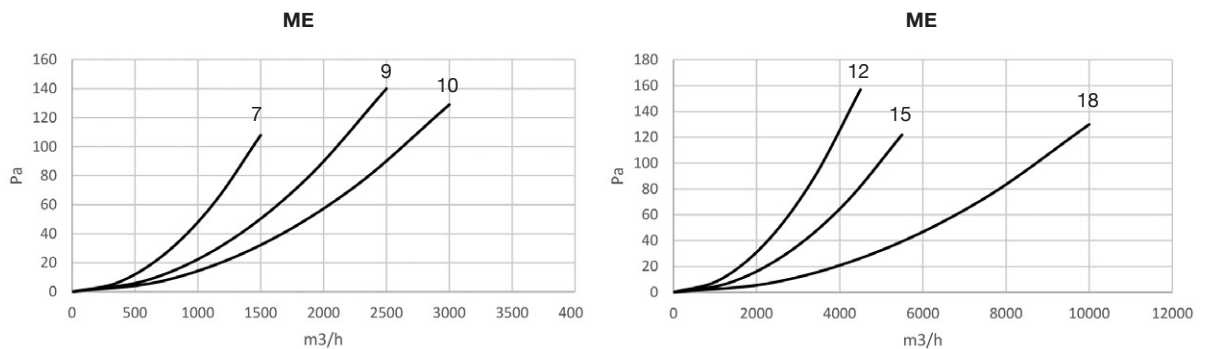


### ME: Technical characteristics of electrically heated coil



| Model    | Current (A) | Installed power (kW) |         |         | Maximum airflow (m <sup>3</sup> /h) | Approx. weight (Kg) |
|----------|-------------|----------------------|---------|---------|-------------------------------------|---------------------|
|          | 400V        | Stage 1              | Stage 2 | Stage 3 |                                     |                     |
| ME-7/7   | 13          | 3                    | 3       | 3       | 1500                                | 23                  |
| ME-9/9   | 23          | 5.4                  | 5.4     | 5.4     | 3300                                | 33                  |
| ME-10/10 | 33          | 7.7                  | 7.7     | 7.7     | 4500                                | 44                  |
| ME-12/12 | 52          | 12                   | 12      | 12      | 6000                                | 61                  |
| ME-15/15 | 81          | 18.8                 | 18.8    | 18.8    | 10000                               | 96                  |
| ME-18/18 | 97          | 22.5                 | 22.5    | 22.5    | 13000                               | 123                 |

### Head loss - electrical coil heaters



### MA: Characteristics of 90/70°C water coil for air at 0°C



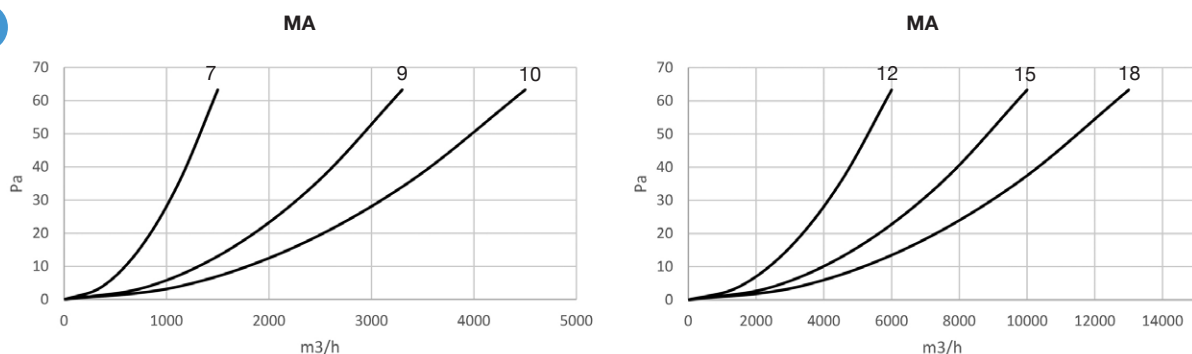
| Model    | Power (kW) | Maximum airflow (m <sup>3</sup> /h) | Water flow (m <sup>3</sup> /h) | Water head loss (kPa) | Connection (in) | Approx. weight (Kg) |
|----------|------------|-------------------------------------|--------------------------------|-----------------------|-----------------|---------------------|
|          | MA-7/7     | 23                                  | 1500                           | 1.0                   | 16.3            | 1/2"                |
| MA-9/9   | 37         | 2500                                | 1.7                            | 26.6                  | 1/2"            | 25                  |
| MA-10/10 | 46         | 3000                                | 2.0                            | 17.6                  | 3/4"            | 31                  |
| MA-12/12 | 66         | 4500                                | 2.9                            | 29.8                  | 3/4"            | 39                  |
| MA-15/15 | 108        | 5500                                | 4.8                            | 21.4                  | 1"              | 63                  |
| MA-18/18 | 153        | 10000                               | 6.8                            | 21.9                  | 1 1/4"          | 87                  |

### MA: Characteristics of 80/60°C water coil for air at 0°C

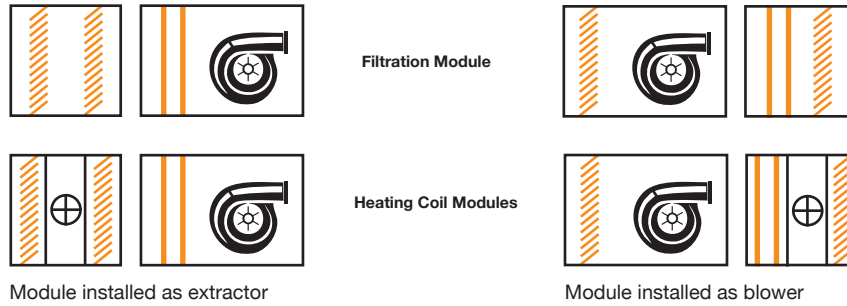


| Model    | Power (kW) | Maximum airflow (m <sup>3</sup> /h) | Water flow (m <sup>3</sup> /h) | Water head loss (kPa) | Connection (in) | Approx. weight (Kg) |
|----------|------------|-------------------------------------|--------------------------------|-----------------------|-----------------|---------------------|
|          | MA-7/7     | 20                                  | 1500                           | 0.9                   | 13.0            | 1/2"                |
| MA-9/9   | 33         | 2500                                | 1.4                            | 21.3                  | 1/2"            | 25                  |
| MA-10/10 | 40         | 3000                                | 1.7                            | 14.0                  | 3/4"            | 31                  |
| MA-12/12 | 58         | 4500                                | 2.5                            | 23.8                  | 3/4"            | 39                  |
| MA-15/15 | 100        | 5500                                | 4.2                            | 17.5                  | 1"              | 63                  |
| MA-18/18 | 133        | 10000                               | 5.8                            | 17.5                  | 1 1/4"          | 87                  |

### Head loss - water coil heaters



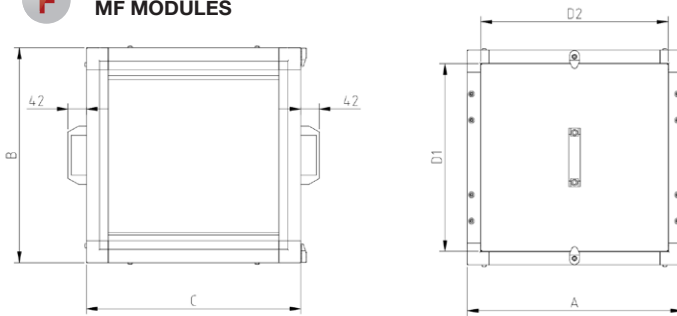
**Installation and filter position diagrams**



**Module Dimensions mm**

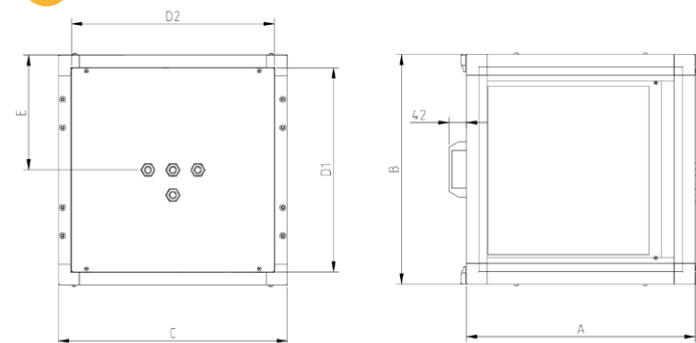
Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS

**F MF MODULES**



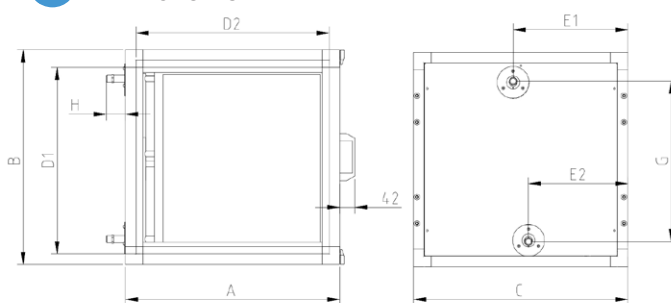
| Model    | A    | B    | C    | D1  | D2  |
|----------|------|------|------|-----|-----|
| MF-7/7   | 490  | 490  | 490  | 428 | 428 |
| MF-9/9   | 550  | 550  | 550  | 488 | 488 |
| MF-10/10 | 605  | 605  | 605  | 543 | 543 |
| MF-12/12 | 680  | 680  | 680  | 618 | 618 |
| MF-15/15 | 855  | 855  | 855  | 793 | 793 |
| MF-18/18 | 1000 | 1000 | 1000 | 938 | 938 |

**ME MODULES**



| Model    | A    | B    | C    | D1  | D2  | E     |
|----------|------|------|------|-----|-----|-------|
| ME-7/7   | 490  | 490  | 490  | 428 | 428 | 245   |
| ME-9/9   | 550  | 550  | 550  | 488 | 488 | 275   |
| ME-10/10 | 605  | 605  | 605  | 543 | 543 | 302.5 |
| ME-12/12 | 680  | 680  | 680  | 618 | 618 | 340   |
| ME-15/15 | 855  | 855  | 855  | 793 | 793 | 427.5 |
| ME-18/18 | 1000 | 1000 | 1000 | 938 | 938 | 500   |

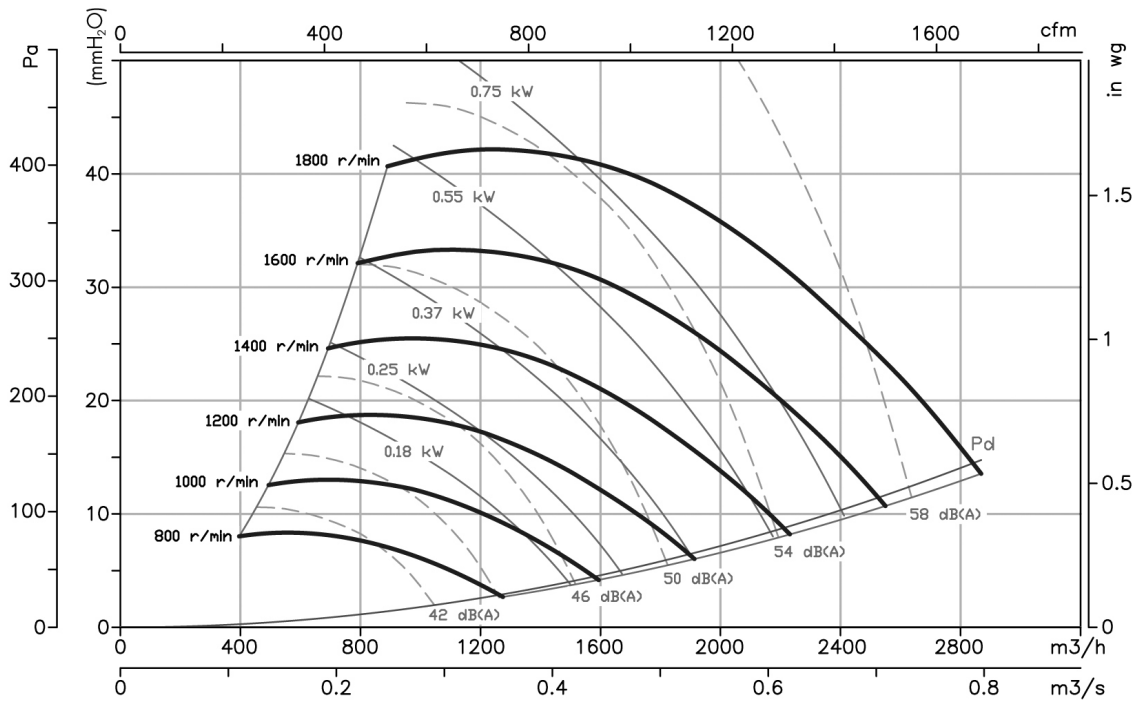
**MA MODULES**



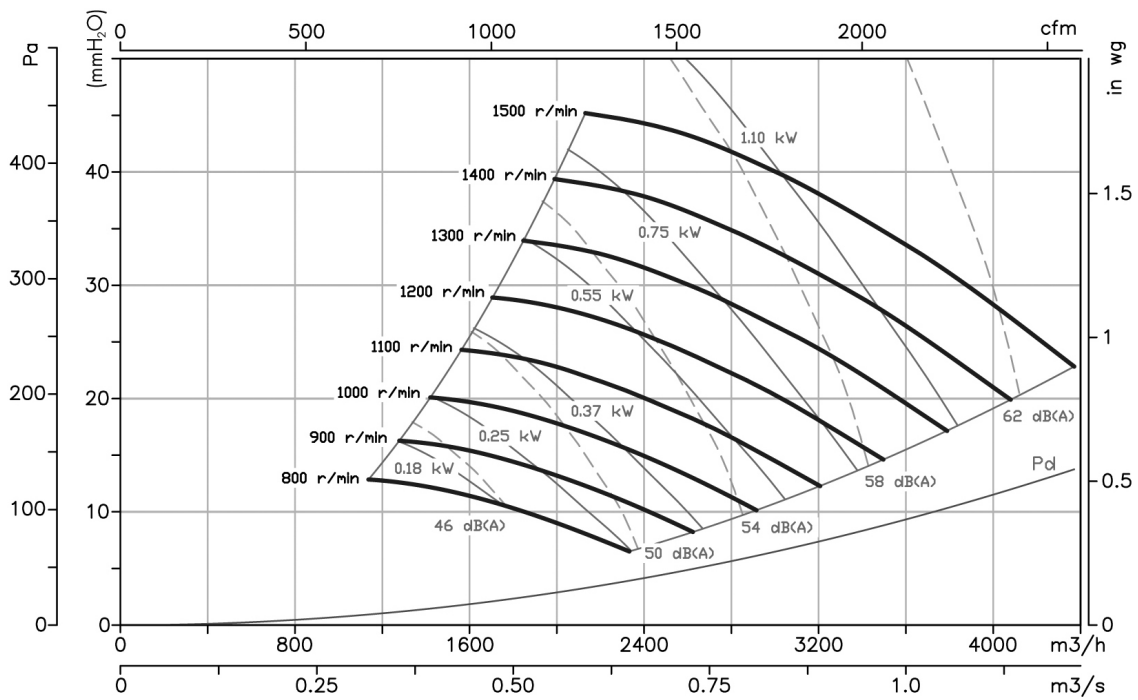
| Model    | A    | B    | C    | D1  | D2  | E1    | E2    | G   | H    |
|----------|------|------|------|-----|-----|-------|-------|-----|------|
| MA 7/7   | 490  | 490  | 490  | 428 | 428 | 266,5 | 223,5 | 334 | 59,5 |
| MA 9/9   | 550  | 550  | 550  | 488 | 488 | 296,5 | 253,5 | 410 | 57,2 |
| MA 10/10 | 605  | 605  | 605  | 543 | 543 | 324   | 281   | 452 | 54   |
| MA 12/12 | 680  | 680  | 680  | 618 | 618 | 361,5 | 318,5 | 527 | 79,5 |
| MA 15/15 | 855  | 855  | 855  | 793 | 793 | 460   | 395   | 671 | 42,2 |
| MA 18/18 | 1000 | 1000 | 1000 | 938 | 938 | 521,5 | 478,5 | 814 | 47,2 |

**Characteristic curves - fans**

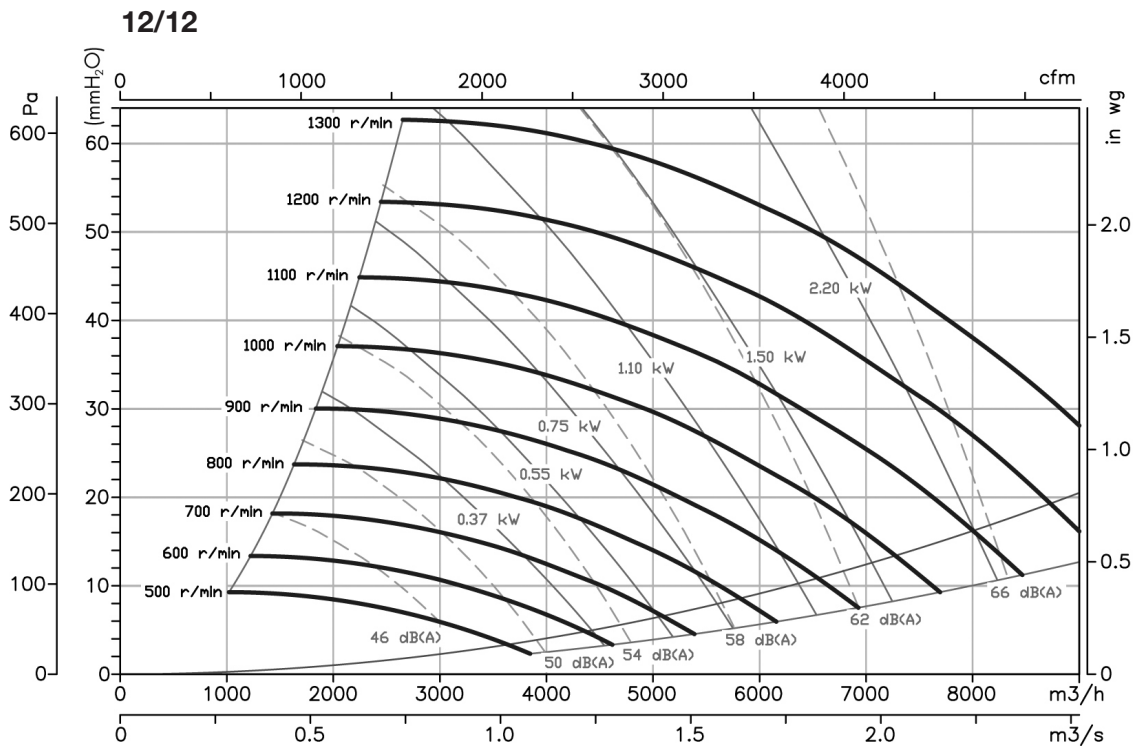
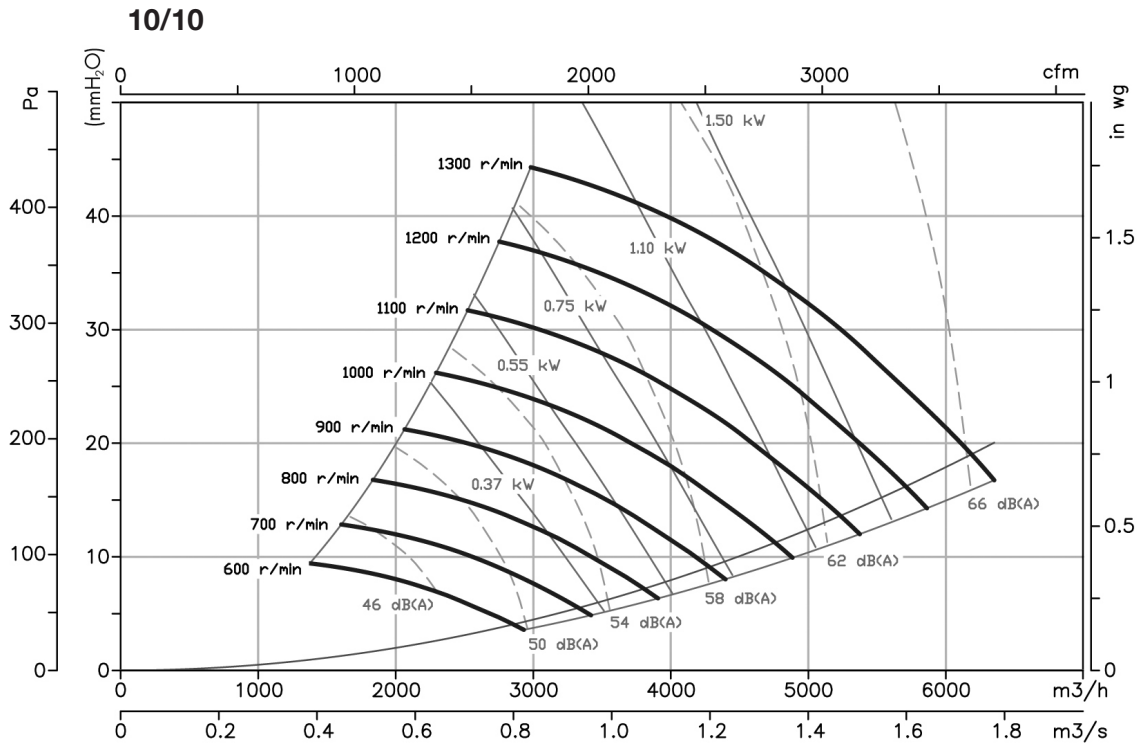
**7/7**



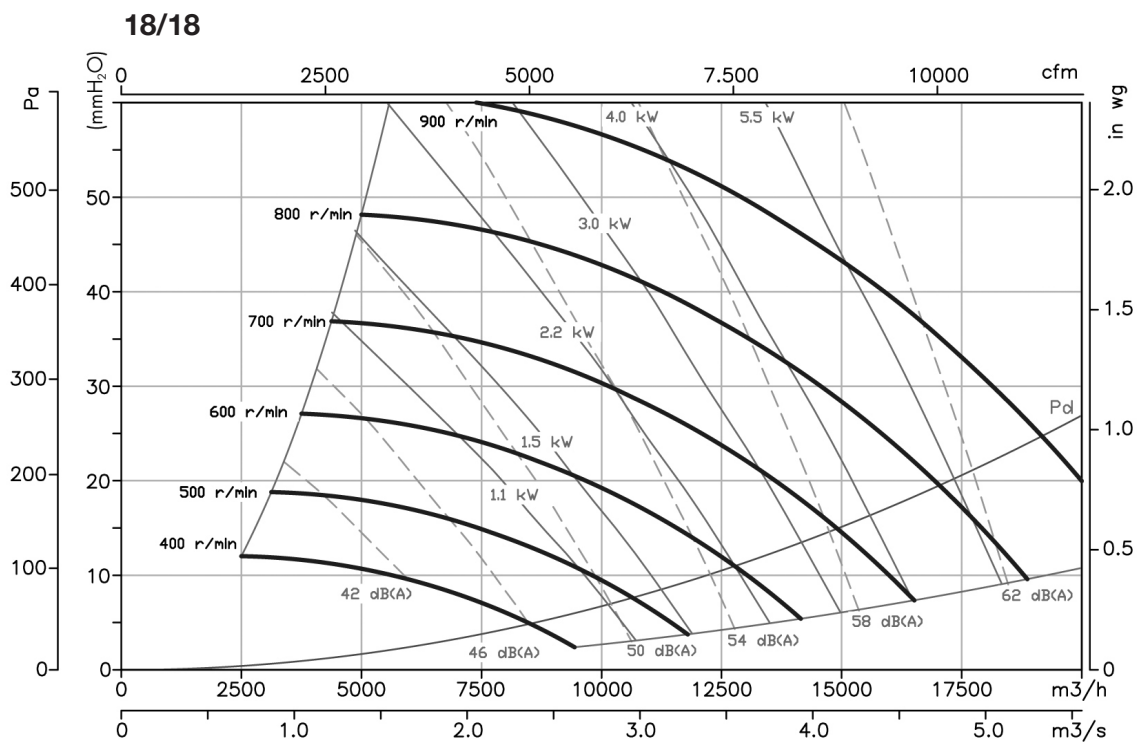
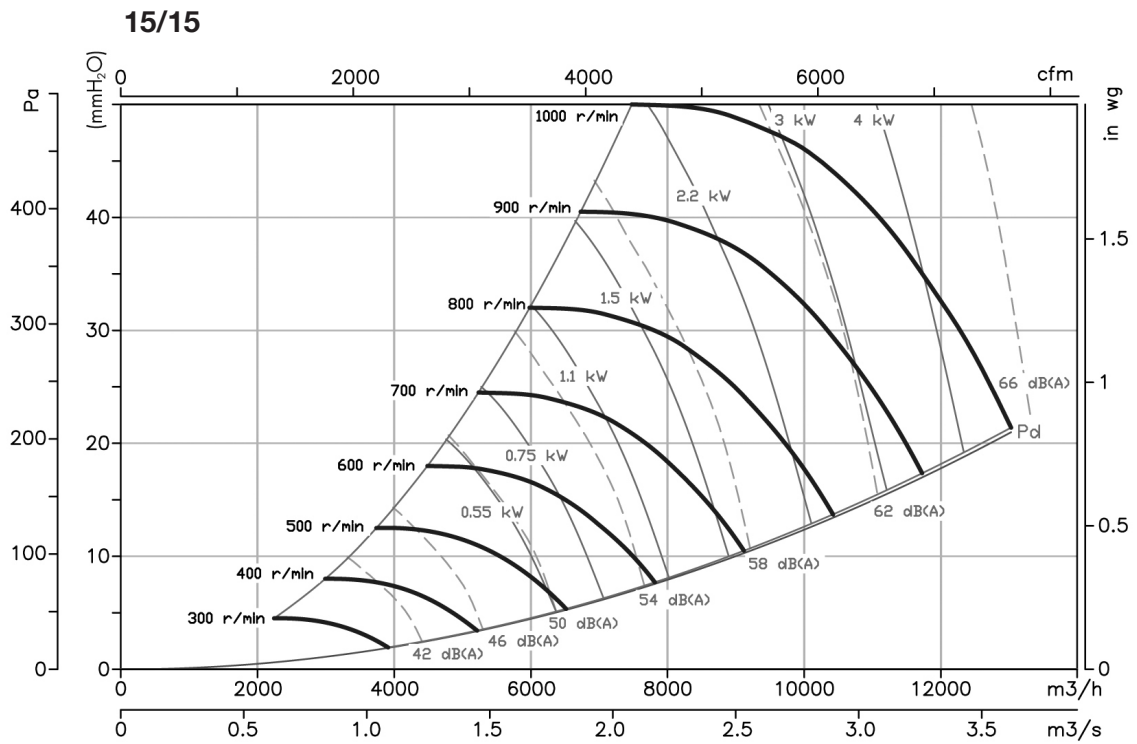
**9/9**



Characteristic curves - fans



**Characteristic curves - fans**





## FLEX REMOTE CONTROL PANEL

External control designed for operating the energy recovery ventilator automatically, according to the variables entered. For use with all RIS and RIRS series models. Standard control for RIS/RIRS EC and EKO series.

Features:

- Adjusts and displays the temperature of air entering the premises
- Adjusts and displays fan speed
- Controls temperature of air entering, external temperature, temperature of the premises and temperature of the extracted air
- Displays alarm signals
- Timer with weekly programme (start-up time, temperature of the premises, etc.)
- RS-485 communications cable for remote control, length 13m.
- It is possible to configure the constant flow control to be by CO2 sensor or pressure sensor. Only for RIS/RIRS of the EC or EKO series.



## FILTERS

Air filters, for replacement in the filtration units and heat recovery ventilators.



## ADIABATIC BOX

Box incorporating an adiabatic module. Contributes to cooling the air supplied to the premises. Installed in the extraction circuit between the pre-filter and the exchanger.



## SI-PRESOSTATO

**Pressure sensor**

Controls the pressure difference between filters, once it reaches the selected value it triggers a contact to activate an alarm relay.



## SI-PRESIÓN

**Pressure transmitter**

Controls the pressure differential in ventilation installations that transform pressure changes into an electrical signal

| Model                     | Power supply  | Output       | Max. consumption (VA) | Ø Connectors | Pressure range |
|---------------------------|---------------|--------------|-----------------------|--------------|----------------|
| SI-PRESIÓN TPDA           | 24V AC/24V DC | 0-10V/4-20mA | 4                     | 6.2 mm       | 0-2500 Pa      |
| SI-PRESIÓN TPDA c/DISPLAY | 24V AC/24V DC | 0-10V/4-20mA | 4                     | 6.2 mm       | 0-2500 Pa      |



## CONSTANT FLOW KIT

A set made up of a pressure transmitter and frequency converter, designed to increase the speed of the fan as the filter gets dirtier, and to maintain a constant flow in the installation.



## SI-VOC+HUMEDAD

Air quality, humidity and temperature sensor for 3-speed motor control

| Model          | Power supply | Outlet                | Maximum consumption (A) | Relative humidity range | Concentration range VOC | Temperature of use |
|----------------|--------------|-----------------------|-------------------------|-------------------------|-------------------------|--------------------|
| SI-VOC+HUMEDAD | 230 V AC     | 230 V AC (V1, V2, V3) | 2                       | 5% RH - 95% RH          | 0-999 ppm               | -10 +50 °C         |





## DIFFERENTIAL PRESSURE PROBE

Controls the difference in pressure between filters, to detect when the filters are dirty and need to be replaced.



## F MF

### Filtration Modules

See page on air treatment modules

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module F6+F8 and optionally F7+F9.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



## ME

### Modules with electrically heated coils

See page on air treatment modules

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Stuffing-box for cable inlet.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



## MA

### Modules with water coils

See page on air treatment modules

- Aluminium profile structure with thermal insulation and soundproofing.
- Side access panel for correct maintenance.
- Modular construction, for adding filter or air treatment modules.
- Standard version module G4 and optionally with F6+F8 or F7+F9 filters.
- Compatible with series UDT, UDTX, CJBD/AL, CJBD/ALS, CJBX/AL and CJBX/ALS.



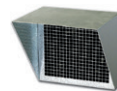
## INT

Stop-start safety switches in accordance with Standard UNE-EN 60204-1.

Features:

- Switches to install beside the fan, so that the mains current can be cut off before handling the fan.
- IP65 protection.
- Three-phase fans or two speed fans, use a 6-pole switch.
- For single-phase fans, use a 3-pole switch

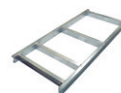
| Model          | Current (A) | (kW) | Cable input (mm) |
|----------------|-------------|------|------------------|
| INT-KG 20/3CA  | 16          | 7,5  | 29               |
| INT-KG 41/3CA  | 32          | 15   | 37,5             |
| INT-KG 64/3CA  | 63          | 22   | 37,5             |
| INT-KG 80/3CA  | 80          | 30   | 37,5             |
| INT-KG 100/3CA | 100         | 37   | 37,5             |
| INT-KG 20/6CA  | 16          | 7,5  | 29               |
| INT-KG 41/6CA  | 32          | 15   | 37,5             |
| INT-KG 64/6CA  | 63          | 22   | 37,5             |
| INT-KG 80/6CA  | 80          | 30   | 37,5             |
| INT-KG 100/6CA | 100         | 37   | 37,5             |



## VIS

Outlet hoods and inlet with protective grille.

Prevents objects and water from entering the interior of the filtration units.



## BS

Base stand

Base for the support of the filtration units on the ground.



## TEJ

Outside covers

Prevents water entering filtration units installed outside.



## SB

Vibration dampers

Spring dampers to prevent transmitting vibrations

## ALPHABETICAL INDEX OF REFERENCES

## VENTILATORS

|              |    |
|--------------|----|
| CJFILTER/REC | 37 |
| KIT MODULAR  | 53 |
| REB          | 17 |
| RIRS H EKO   | 28 |
| RIRS V EKO   | 32 |
| RIS H EKO    | 23 |
| RIS P EKO    | 19 |
| SV/FILTER    | 39 |
| UDT          | 47 |
| UDTX         | 80 |
| UFR          | 43 |
| UFRX         | 70 |
| UFX          | 60 |
| UNIREC       | 12 |
| VENUS        | 14 |

## ACCESSORIES

|                              |    |
|------------------------------|----|
| BS                           | 89 |
| CAJA ADIABÁTICA              | 88 |
| FILTROS                      | 88 |
| INT                          | 89 |
| KIT CAUDAL CONSTANTE         | 88 |
| MA                           | 89 |
| ME                           | 89 |
| MF                           | 89 |
| PANEL DE CONTROL REMOTO FLEX | 88 |
| SB                           | 89 |
| SI-PRESIÓN                   | 88 |
| SI-PRESOSTATO                | 88 |
| SI-VOC+HUMEDAD               | 88 |
| SONDA DE PRESIÓN DIFERENCIAL | 89 |
| TEJ                          | 89 |
| VIS                          | 89 |



## HEADQUARTER

**Sodeca S.L.U.**  
Ctra. de Berga, km 0,7  
E-08580 SANT QUIRZE  
DE BESORA  
Barcelona, SPAIN  
Tel. +34 93 852 91 11  
Fax: +34 93 852 90 42  
General sales:  
comercial@sodeca.com  
Export sales:  
ventilation@sodeca.com



## EUROPE

**FINLAND**  
**Sodeca Finland, Oy**  
Mr. Kai Yli-Sipilä  
Metsälinnankatu 30, PL2  
FI-32700 Huittinen  
FINLAND  
Tel. + 358 400 320 125  
orders.finland@sodeca.com

**PORTUGAL**  
**Sodeca Portugal, Unip. Lda.**  
PORTO  
Rua Veloso Salgado 1120/1138  
4450-801 Leça de Palmeira  
Tel. +351 229 991 100  
geral@sodeca.pt

LISBOA  
Pq. Emp. da Granja Pav. 8  
2625-607 Vialonga  
Tel. +351 219 748 491  
geral@sodeca.pt

ALGARVE  
Rua da Alegria S/N  
8200-557 Cortesões  
Tel. +351 289 092 586  
geral@sodeca.pt

**UNITED KINGDOM**  
**Sodeca Fans UK, Ltd.**  
Mr. Mark Newcombe  
Tamworth Enterprise Centre  
Philip Dix House  
Corporation Street  
Tamworth, B79 7DN  
UNITED KINGDOM  
Tel. +44 (0) 1827 216 109  
sales@sodeca.co.uk

## AMERICA

**CHILE**  
**Sodeca Ventiladores, Ltda.**  
Sr. Frederic Cousquer  
Santa Bernardita 12.005  
(Esquina con Puerta Sur)  
Bodegas 24 a 26,  
San Bernado, Santiago, CHILE  
Tel. +56 22 840 5582  
ventas.chile@sodeca.com

**COLOMBIA**  
**Sodeca Latam, S.A.S.**  
Sra. Luisa Stella Prieto  
Calle7 No. 13 A-44  
Manzana 4 Lote1, Montana  
Mosquera, Cundinamarca  
Bogotá, COLOMBIA  
Tel. +57 1 756 4213  
ventascolombia@sodeca.co

**PERU**  
**Sodeca Perú, S.A.C.**  
Sr. Jose Luis Jiménez  
C/ Mariscal Jose Luis de  
Orbegoso 331. Urb. El pino.  
15022, San Luis. Lima, PERÚ  
Tel. +51 1 326 24 24  
Cel. +51 994671594  
comercial@sodeca.pe

## RUSSIA

**RUSSIA**  
**Sodeca, L.L.C.**  
Mr. Stanislav Alifanov  
Myasisheva str, 1, room 603  
Business Center "Chaika"  
140180 Zhukovskiy  
Moscow region, RUSSIA  
Tel. +7 495 955 90 50  
alifanov@sodeca.com



**HEADQUARTERS**

**Sodeca S.L.U.**

Ctra. de Berga, km 0,7

E-08580 SANT QUIRZE DE BESORA

Barcelona, SPAIN

Tel. +34 93 852 91 11

Fax +34 93 852 90 42

General sales: [comercial@sodeca.com](mailto:comercial@sodeca.com)

Export sales: [ventilation@sodeca.com](mailto:ventilation@sodeca.com)



[www.sodeca.com](http://www.sodeca.com)

