



Efficient and compact heat recovery units for residential and service sector installations



REB/EC



Compact design



Easy installation and maintenance



Interchangeable nozzles



Low noise level



Energy efficiency



Finished in Magnelis® C5 steel according to ISO 12944



Thermal comfort and efficient ventilation in indoor spaces



Interchangeable nozzles

The possibility of interchanging nozzles makes it easy to integrate the equipment in any installation.



Maximum durability

The equipment's steel sheet is manufactured out of Magnelis® C5 steel, which guarantees high resistance to corrosion in demanding environments, thereby extending the equipment's service life. To ensure that the equipment is well-protected from water in outdoor applications, the installation of a canopy is recommended.



Energy savings

EC Technology motors with IE5 efficiency minimise consumption by adjusting the speed to the real demand of the environment, thereby reducing the energy cost, reducing maintenance and extending their service life.

Heat recovery units are essential for residential and commercial installations, given that they contribute to the thermal comfort, indoor air quality and energy sustainability of buildings.



Compact design

Created for installations with space limitations, their compact design facilitates integration in false ceilings, in technical rooms or on roofs.



Easy installation and maintenance

Equipped with a pre-configured control for direct start when the power is connected. Access through the inspection cover allows maintenance tasks to be performed quickly, such as cleaning the turbine or replacing the filters.



Low noise level

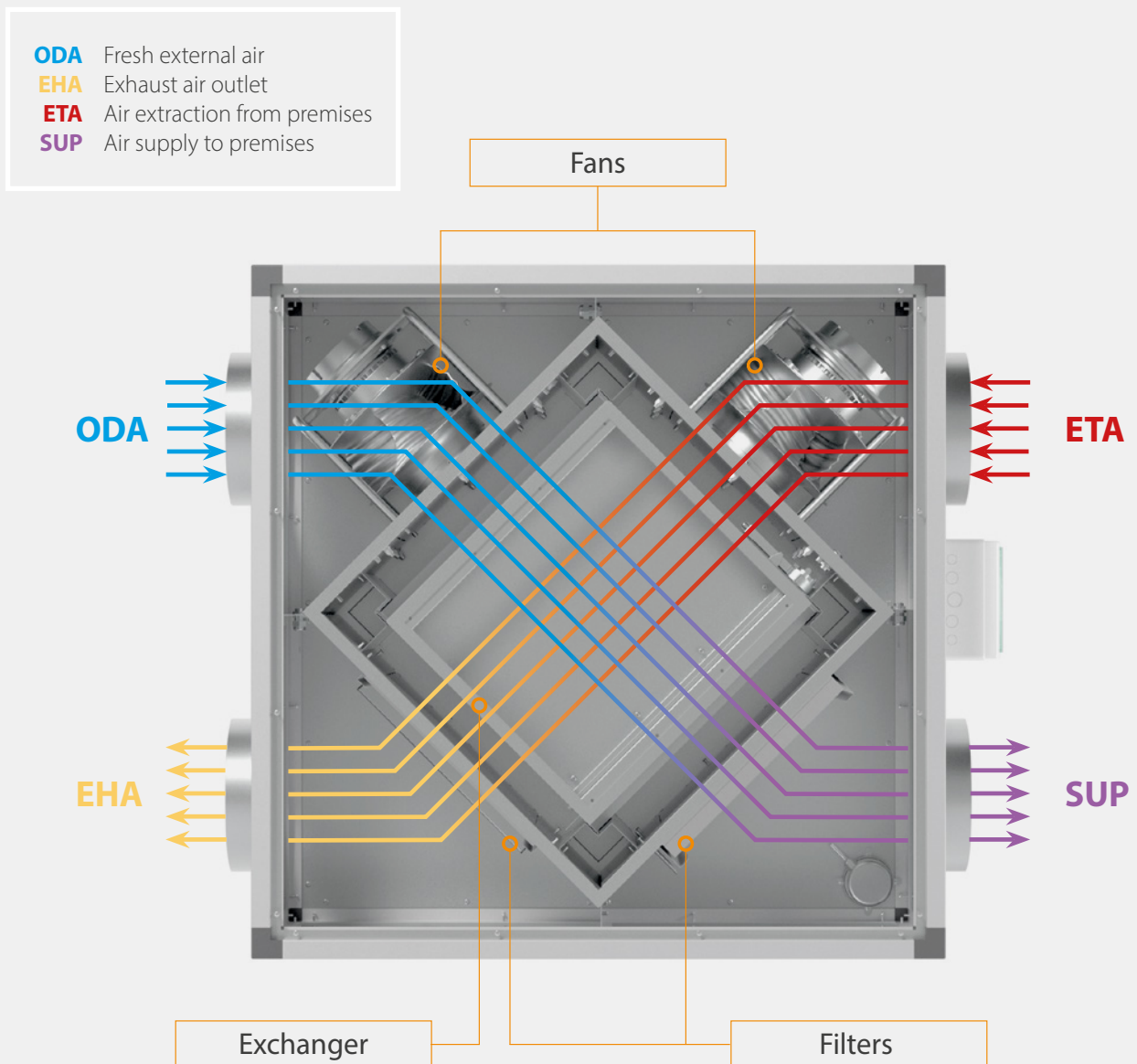
The 25-mm thick acoustic casing, manufactured out of high-quality insulation materials, has been designed specifically to reduce the transmission of noise.

Heat recovery units

SODECA's heat recovery units are designed to guarantee optimum indoor air quality in all types of buildings.



Every unit includes different filtration configurations, allowing them to be adapted to the specific requirements of each space and application.





Removable filters

The REB/EC incorporates removable filters in two stages to assure optimum air quality:

Supply:

F6 + F8 or F7 + F9

Return:

F6 or F7

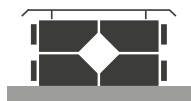


Types of installation



In false ceilings

Low-profile equipment with access to components through the side or base.



On the roof

Equipment for outdoor operation, with lateral access to components. They may require accessories such as canopies, rain shields or other elements.



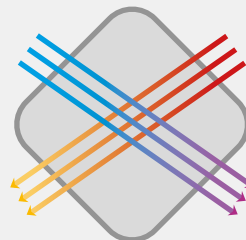
In technical rooms

Compact equipment with lateral access to components.

Heat exchanger

The heat exchanger component in the recovery unit transfers heat from the exhaust air extraction circuit to the external clean air supply circuit.

The greater the thermal efficiency of the exchanger, the less need there will be to supply additional air conditioning.



Its geometry of channels guarantees effective heat transfer between airflows, minimising load losses.

Resistance to corrosion

Manufactured out of MAGNELIS® anti-corrosive steel sheet, classified as

C5
ACCORDING TO
ISO 12944

guaranteeing that the unit can be used in areas with very aggressive environmental conditions

Control system and integrated by-pass

Heat recovery units equipped with an automatic control that allows advanced management of the equipment, including time programming, environmental control and compatibility with BMS systems.

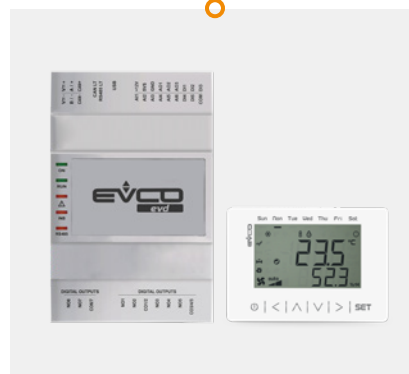
They also include an IP65 control panel, which **manages their operation automatically and protects the electrical components from dust and humidity.**



BY-PASS

The equipment includes a by-pass system, which allows manual or automatic control.

This functionality allows the air flow to be completely or partially diverted around the heat exchanger, thereby avoiding thermal energy recovery when it is not necessary.



Automatic control

Main functions of automatic control in heat recovery units:

- Time programming and Comfort, ECO and Night modes.
- Flow control based on CO₂ temperature and humidity levels.
- Connection of the unit to a centralised control system (BMS), normally using the MODBUS RTU protocol.
- Remote control with a built-in LCD screen.
- Control of status of the supply filters.



IP65 control panel

The equipment incorporates an external control panel with IP65 protection, designed to ensure a safe and long-lasting installation.

It includes an isolator switch for performing maintenance tasks, as well as accessible terminals that allow simple, quick and reliable electrical connections.

REB/EC

Compact heat recovery units for residential and commercial installations



Magnelis®
An ArcelorMittal product



Magnelis®
An ArcelorMittal product

High-efficiency compact heat recovery units with crossflow exchanger, EC Technology motors, automatic control, and built-in by-pass.

Common features:

- EC Technology fans adjustable 0-10 V, with high-efficiency backward-curved impellers.
- Sensitive, high efficiency (>73%), Eurovent certified cross-flow heat exchanger.
- Interchangeable nozzles to adapt them to the installation.
- Condensate tray and drainage connection.
- High-efficiency filtration in supply (F6+F8 or F7+F9) and in extraction (F6 or F7).
- Access panels for filter removal for maintenance.
- 25 mm rockwool insulation on the bottom and top panels, and polyethylene on the side panels.
- Motorised BY-PASS damper.

Control panel:

- Built-in electrical control panel (IP65).
- Integrated control system compatible with MODBUS RTU.
- Built-in maintenance disconnect switch.

- Temperature sensors in supply and return air.
- Condition check of outlet filters with pressure switch.
- Wired remote control with LCD screen (up to 30 m).
- Control for free cooling through motorised BY-PASS.
- Possibility to connect up to 30 recovery units simultaneously.

Finish:

- High quality aluminium profile structure with external coating in category C5 anti-corrosive Magnelis sheet steel.
- All models can be installed outdoors as long as they have a protective roof cover.

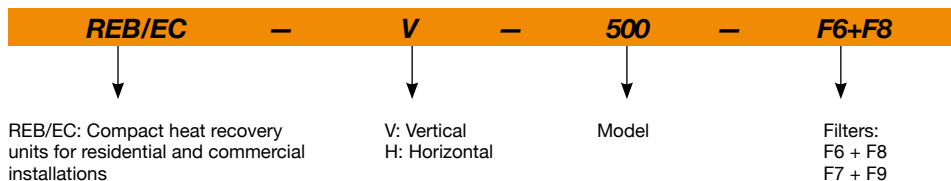
On request:

- CO₂ sensor.

Available versions:

- REB/EC-H: Horizontal heat recovery unit with F6+F8 or F7+F9 filtration stages.
- REB/EC-V: Vertical heat recovery unit with F6+F8 or F7+F9 filtration stages.

Order code



Common features

Impulsion filter (ODA)	F6+F8 / F7+F9
Extraction filter (ETA)	F6 / F7
Fan type	PLUG FAN EC with backward curved impeller
Free cooling function by means of a motorised by-pass	YES
Insulation	25 mm rock wool in bottom and top panels, and polyethylene in side panels
Condensate exhaust	YES
Pressure switch for checking the condition of inlet filters	YES
Safety and maintenance switch	YES
Built-in control panel	YES
Heat recovery type	Sensitive



Erp. (Energy Related Products)

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

Technical characteristics

Model	Nominal flow rate ¹	Nominal flow rate ¹	Recovery unit efficiency ²	Installed power	Voltage 50/60 Hz	Max. admissible current	Sound pressure level ³	Approx. weight
	(50 Pa)	(150 Pa)						
REB/EC-500	565	520	74	0.17 x 2	1/200-240	1.70-1.45 x 2	43	66
REB/EC-700	725	700	74	0.17 x 2	1/200-240	1.70-1.45 x 2	43	73
REB/EC-1000	1140	1055	74	0.50 x 2	1/200-277	2.50-1.80 x 2	41	98
REB/EC-1500	1690	1565	74	0.50 x 2	1/200-277	2.50-1.80 x 2	41	119
REB/EC-2000	2160	2020	74	0.50 x 2	1/200-277	2.50-1.80 x 2	40	214
REB/EC-2300	2440	2325	74	0.78 x 2	1/200-277	4.00-2.90 x 2	44	214
REB/EC-2800	3040	2885	73	1.30 x 2	1/200-277	6.60-4.80 x 2	47	225
REB/EC-3800	4050	3870	74	1.30 x 2	1/200-277	6.60-4.80 x 2	46	261
REB/EC-4500	4955	4690	74	1.35 x 2	1/200-277	6.80-5.00 x 2	44	266
REB/EC-5500	5885	5700	73	2.50 x 2	3+N/380-480	4.00-3.20 x 2	50	298
REB/EC-6500	6765	6595	73	3.30 x 2	3+N/380-480	5.40-4.20 x 2	52	307
REB/EC-8000	8985	8660	73	3.4 x 2	3+N/380-480	5.40-4.20 x 2	51	385

1. F6 configuration.

2. Wet efficiency for nominal airflow (50 Pa) with F6+F8 filters, outdoor conditions -5°C/ 80% RH and indoor conditions 20°C/50% RH.

3. Radiated sound pressure level in dB(A) at 3 m distance at full speed.

Filter characteristics

Filters EN 779

ISO 16890

	ISO ePM ₁	ISO ePM ₁₀
F6	-	70%
F7	55%	-
F8	65%	-
F9	80%	-

Lower filter extraction in models 500 to 1500

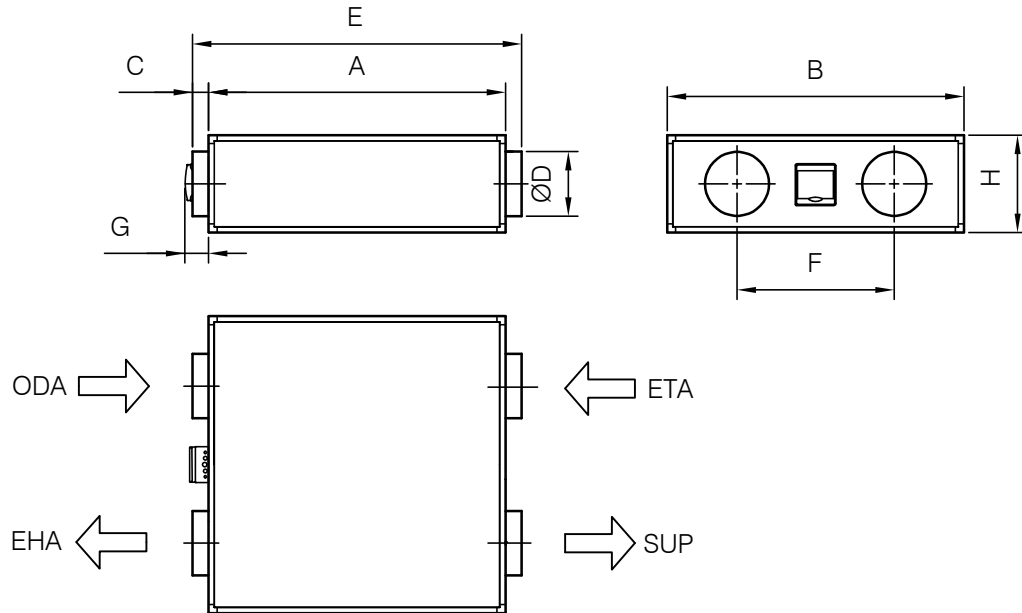


Side filter extraction in models 2000 to 8000



Dimensions mm

REB/EC-H

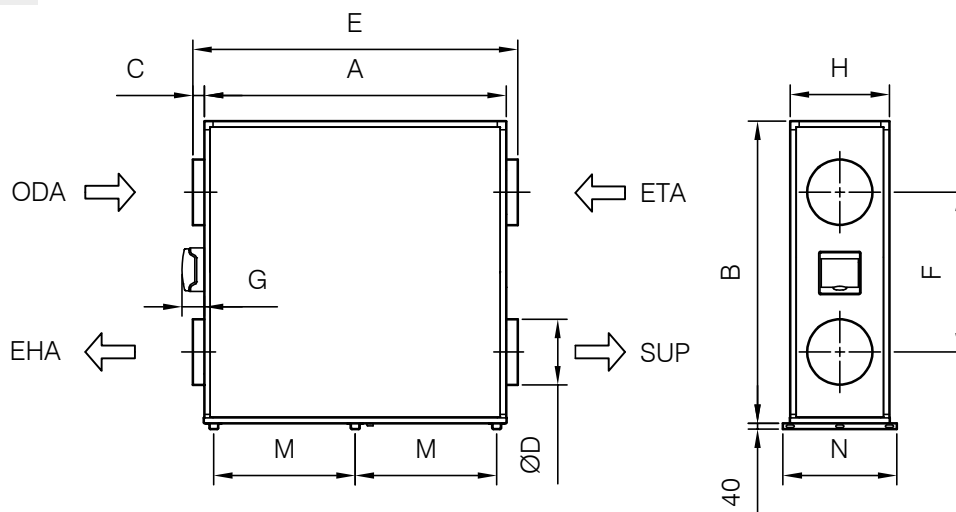


	A	B	C	D	E	F	G	H
REB/EC-H-500	1000	1000	50	150	1100	600	120	285
REB/EC-H-700	1000	1000	50	150	1100	600	120	380
REB/EC-H-1000	1100	1100	50	250	1200	600	120	435
REB/EC-H-1500	1150	1150	50	250	1250	600	120	510
REB/EC-H-2000	1650	1650	76	315	1802	938	120	510
REB/EC-H-2300	1650	1650	76	315	1802	938	120	510
REB/EC-H-2800	1650	1650	76	315	1802	938	120	510
REB/EC-H-3800	1650	1650	76	450	1802	938	120	700
REB/EC-H-4500	1650	1650	76	450	1802	938	120	700
REB/EC-H-5500	1650	1650	76	450	1802	938	120	860
REB/EC-H-6500	1650	1650	76	450	1802	938	120	860
REB/EC-H-8000	1800	1800	76	630	1952	1088	120	1075

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

Dimensions mm

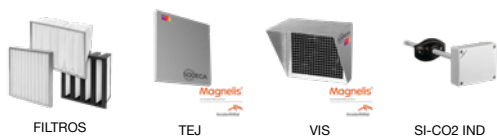
REB/EC-V



	A	B	C	D	E	F	G	H	M	N
REB/EC-V-500	1000	1000	50	150	1100	600	120	285	439	385
REB/EC-V-700	1000	1000	50	150	1100	600	120	380	439	480
REB/EC-V-1000	1100	1100	50	250	1200	600	120	435	489	535
REB/EC-V-1500	1150	1150	50	250	1250	600	120	510	514	610
REB/EC-V-2000	1650	1650	76	315	1802	938	120	510	759	610
REB/EC-V-2300	1650	1650	76	315	1802	938	120	510	759	610
REB/EC-V-2800	1650	1650	76	315	1802	938	120	510	759	610
REB/EC-V-3800	1650	1650	76	450	1802	938	120	700	759	800
REB/EC-V-4500	1650	1650	76	450	1802	938	120	700	759	800
REB/EC-V-5500	1650	1650	76	450	1802	938	120	860	759	960
REB/EC-V-6500	1650	1650	76	450	1802	938	120	860	759	960
REB/EC-V-8000	1800	1800	76	630	1952	1088	120	1075	834	1175

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

Accessories



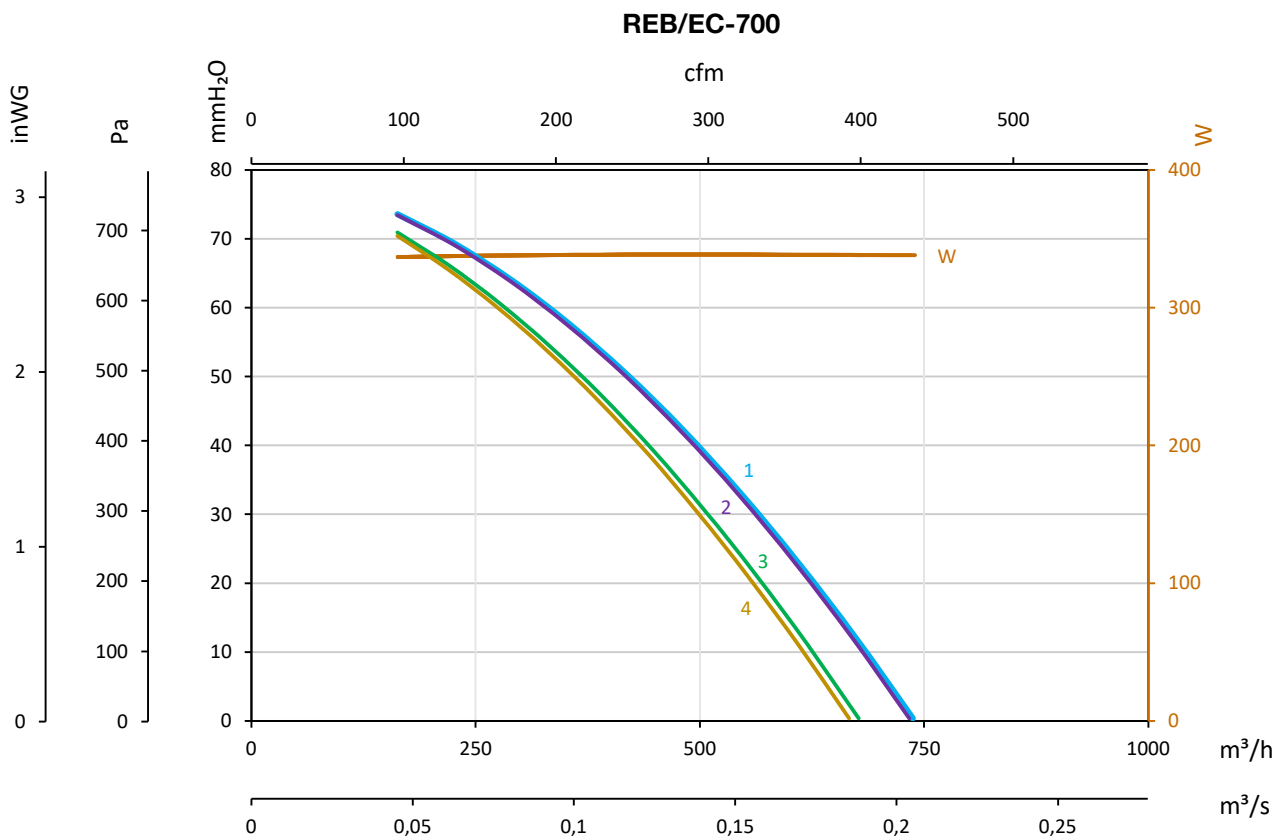
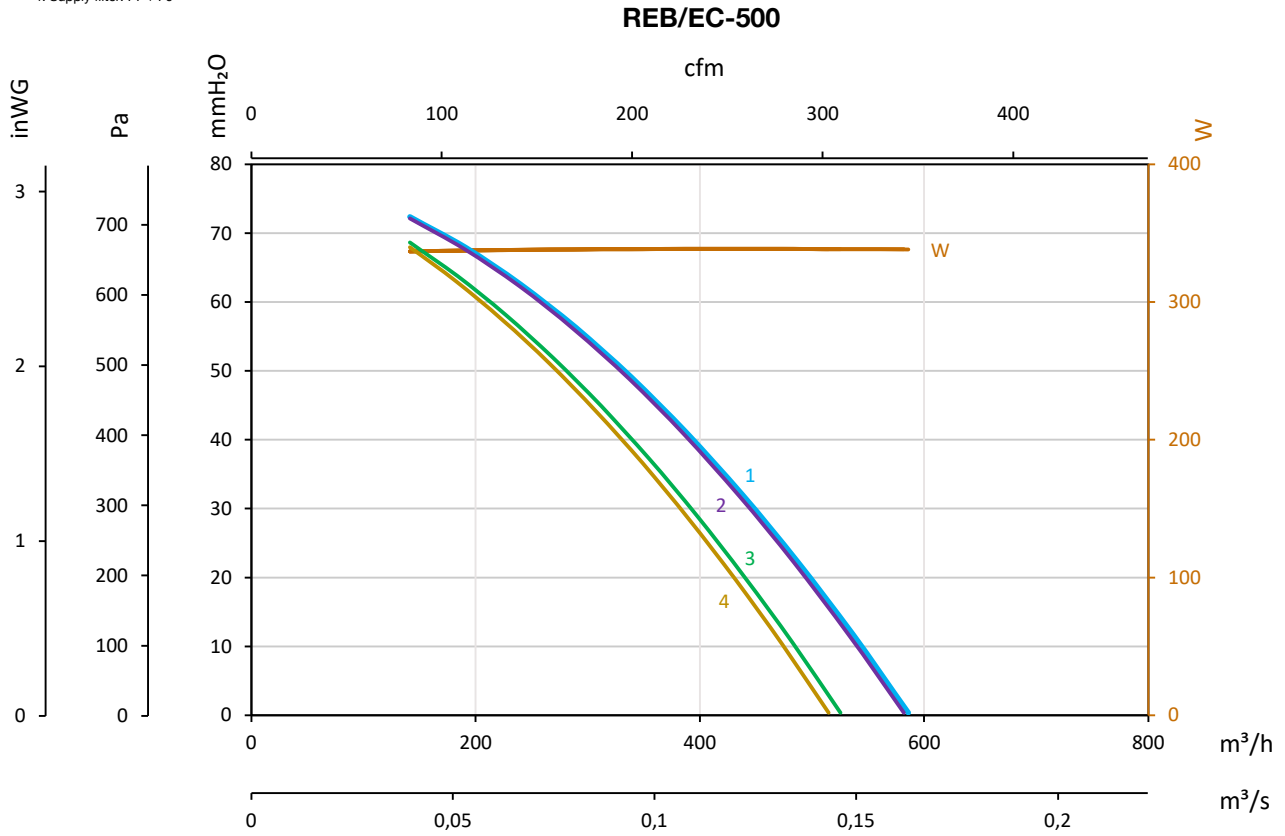
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

W= Electrical power

- 1: Extraction filter: F6
- 2: Extraction filter: F7
- 3: Supply filter: F6 + F8
- 4: Supply filter: F7 + F9



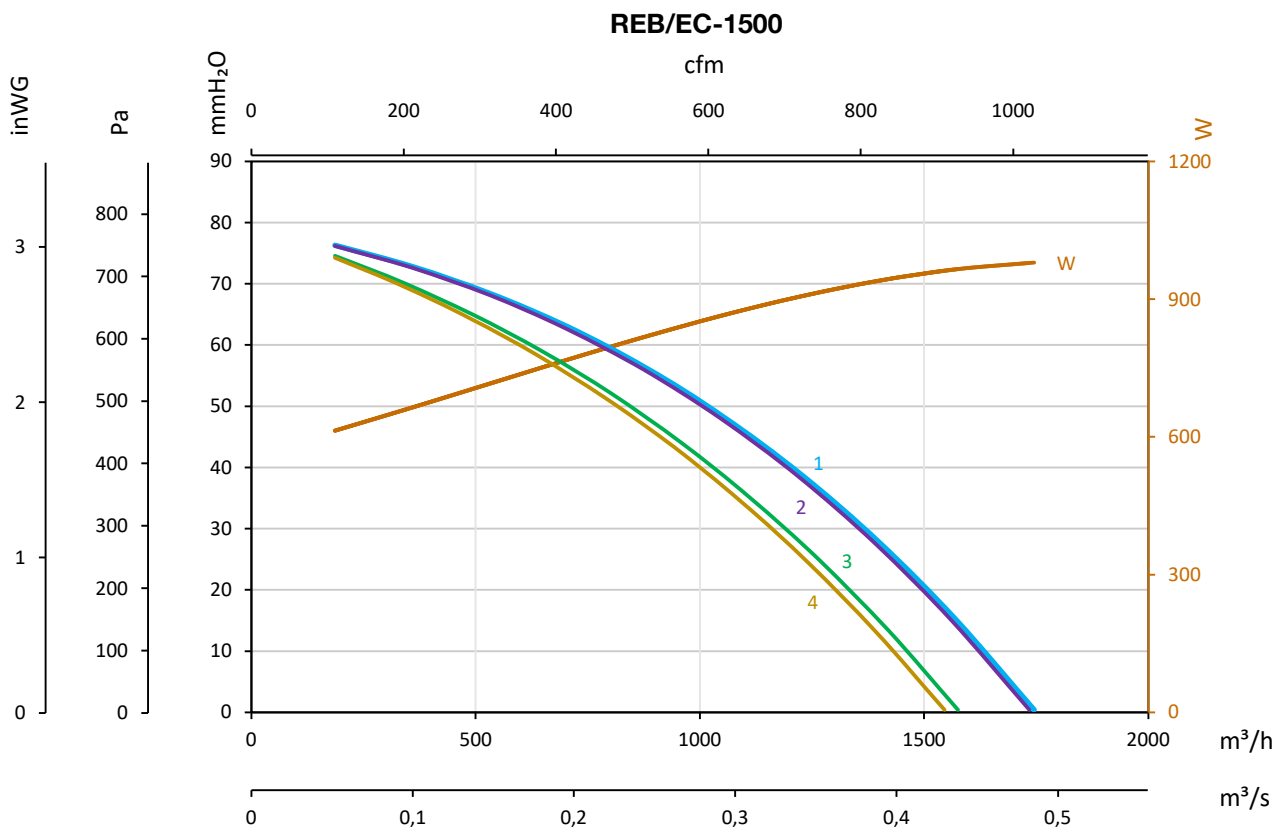
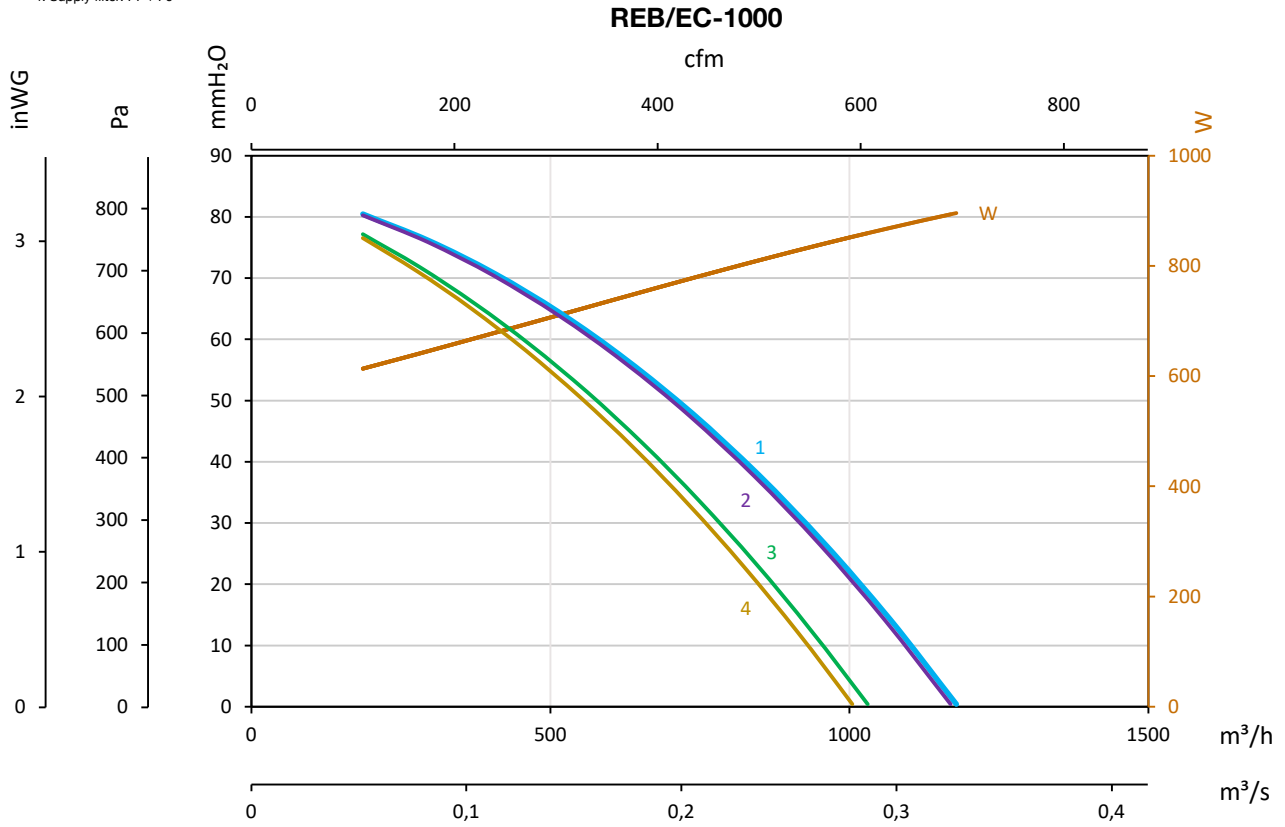
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

W= Electrical power

- 1: Extraction filter: F6
- 2: Extraction filter: F7
- 3: Supply filter: F6 + F8
- 4: Supply filter: F7 + F9



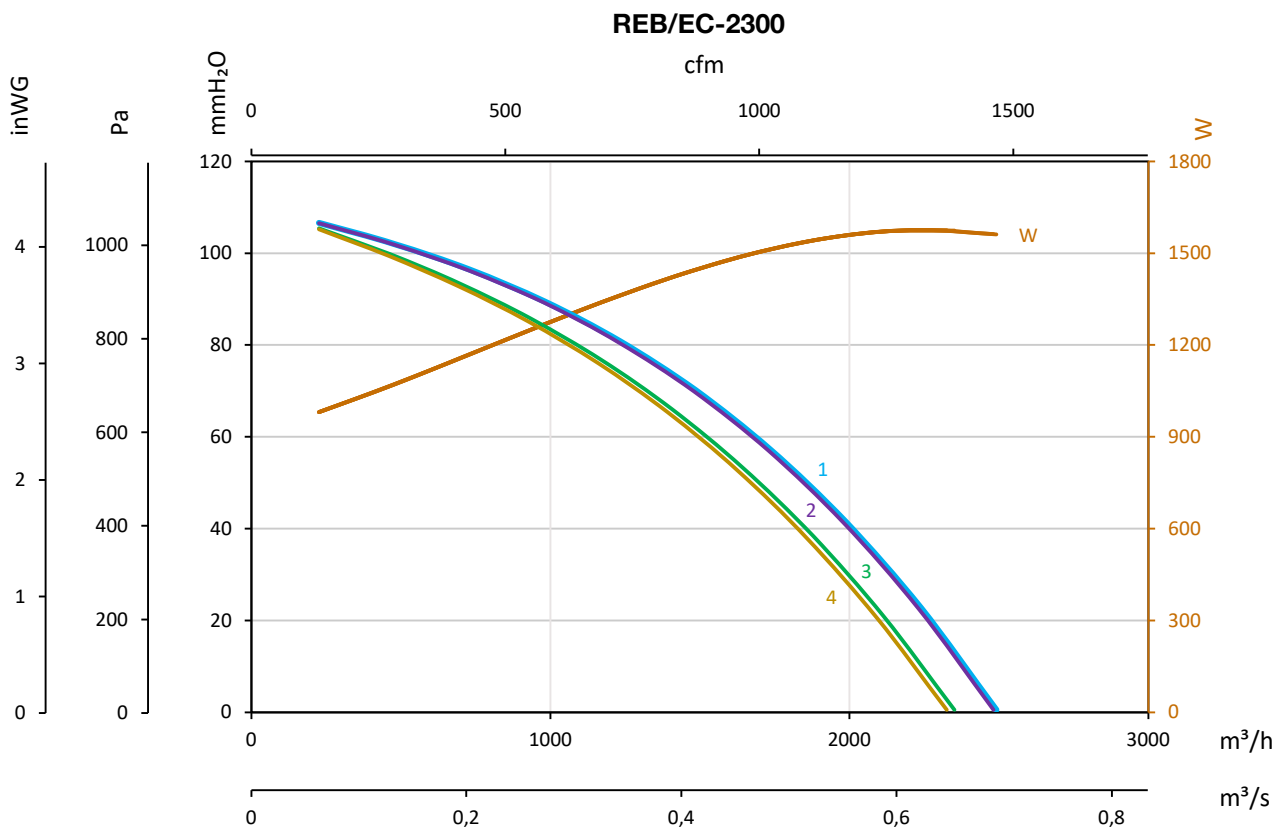
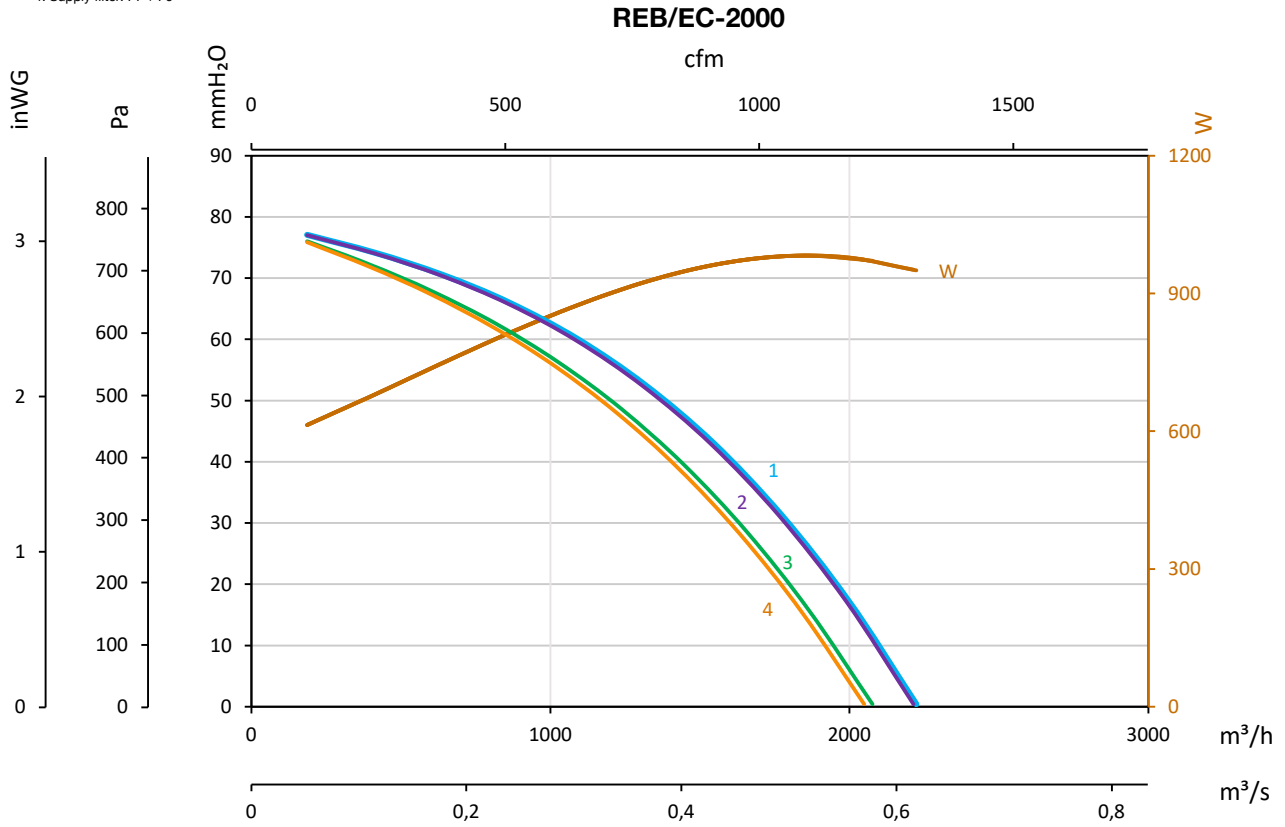
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inWG

W= Electrical power

- 1: Extraction filter: F6
- 2: Extraction filter: F7
- 3: Supply filter: F6 + F8
- 4: Supply filter: F7 + F9



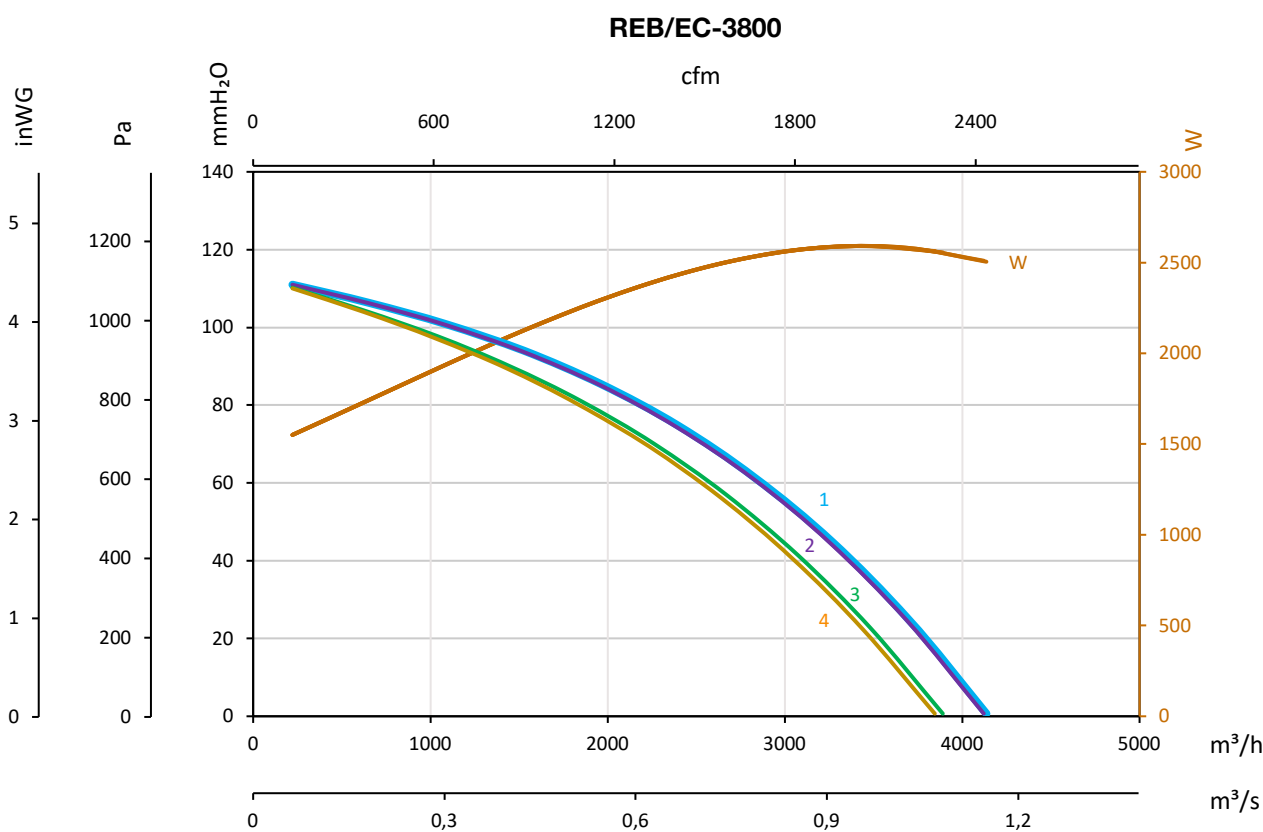
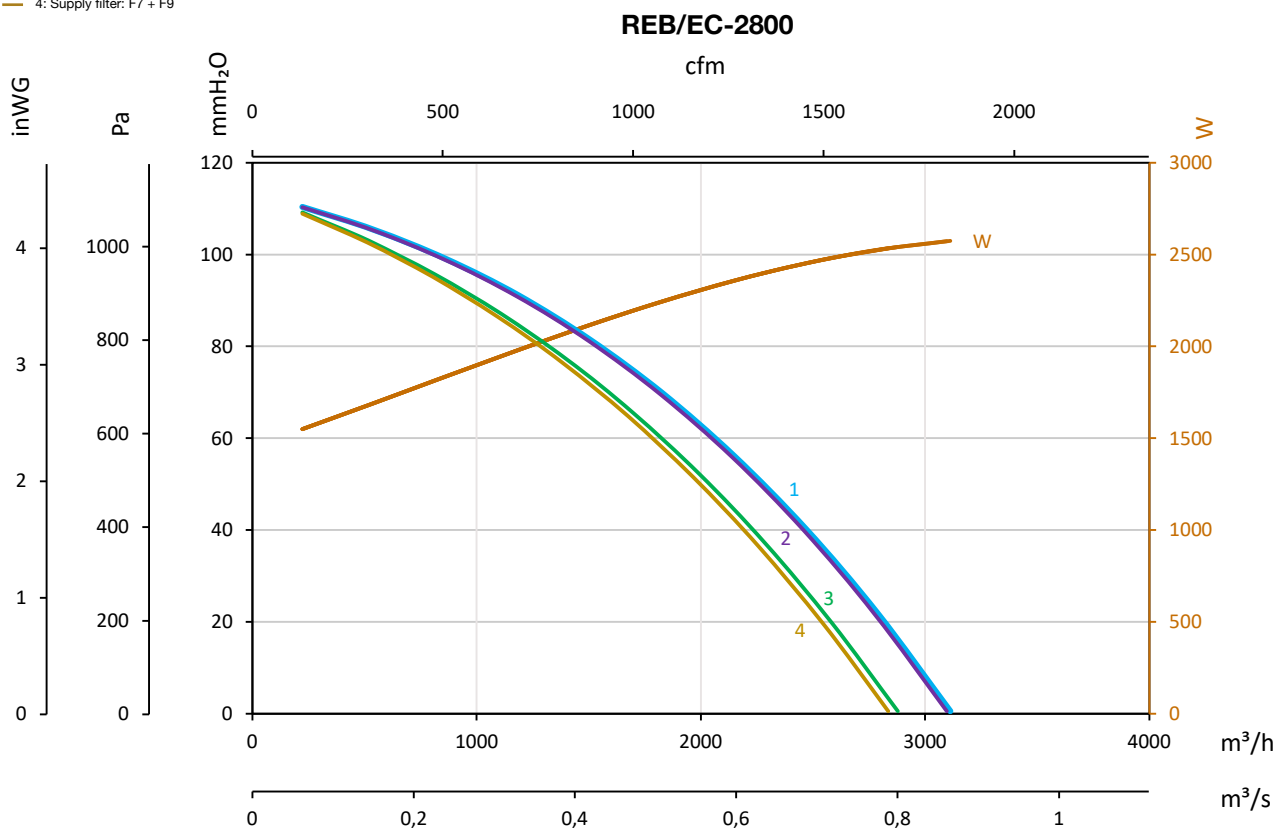
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inWG

W= Electrical power

- 1: Extraction filter: F6
- 2: Extraction filter: F7
- 3: Supply filter: F6 + F8
- 4: Supply filter: F7 + F9



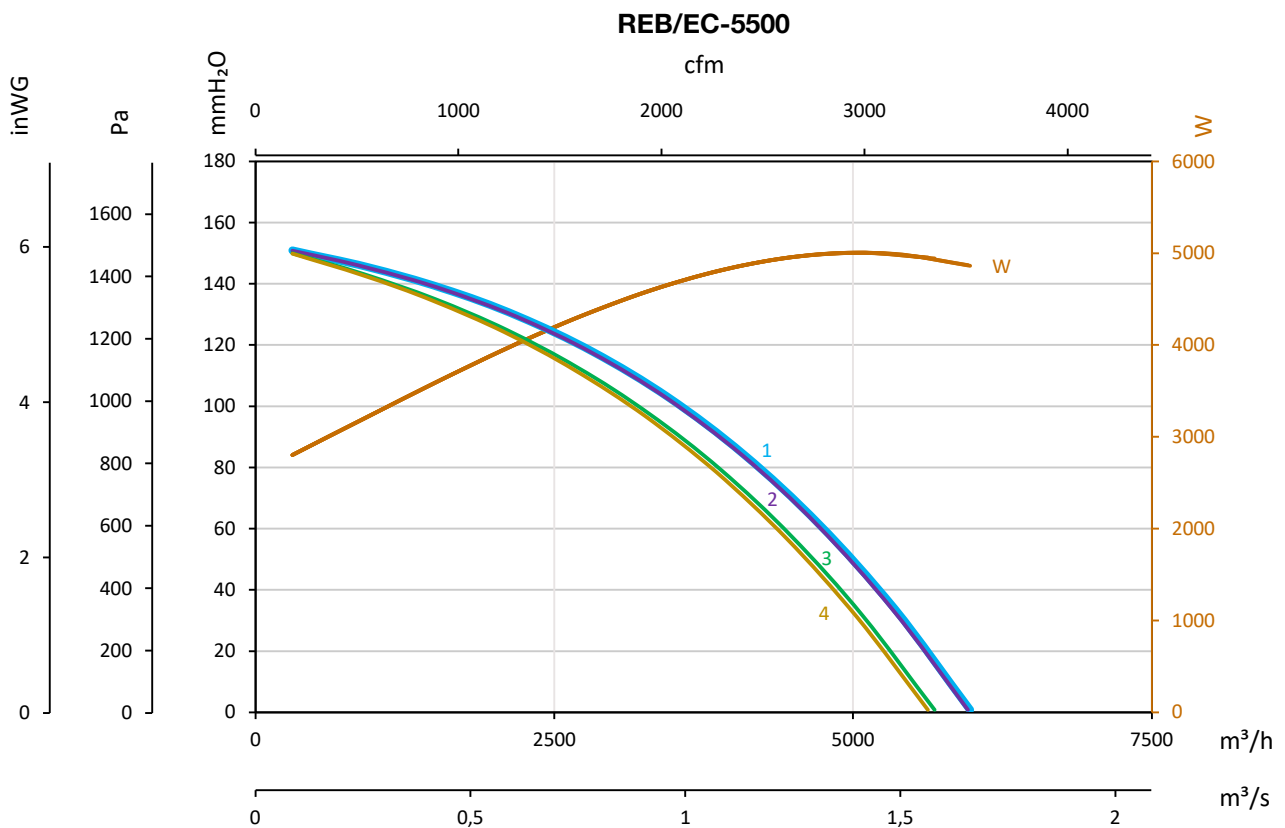
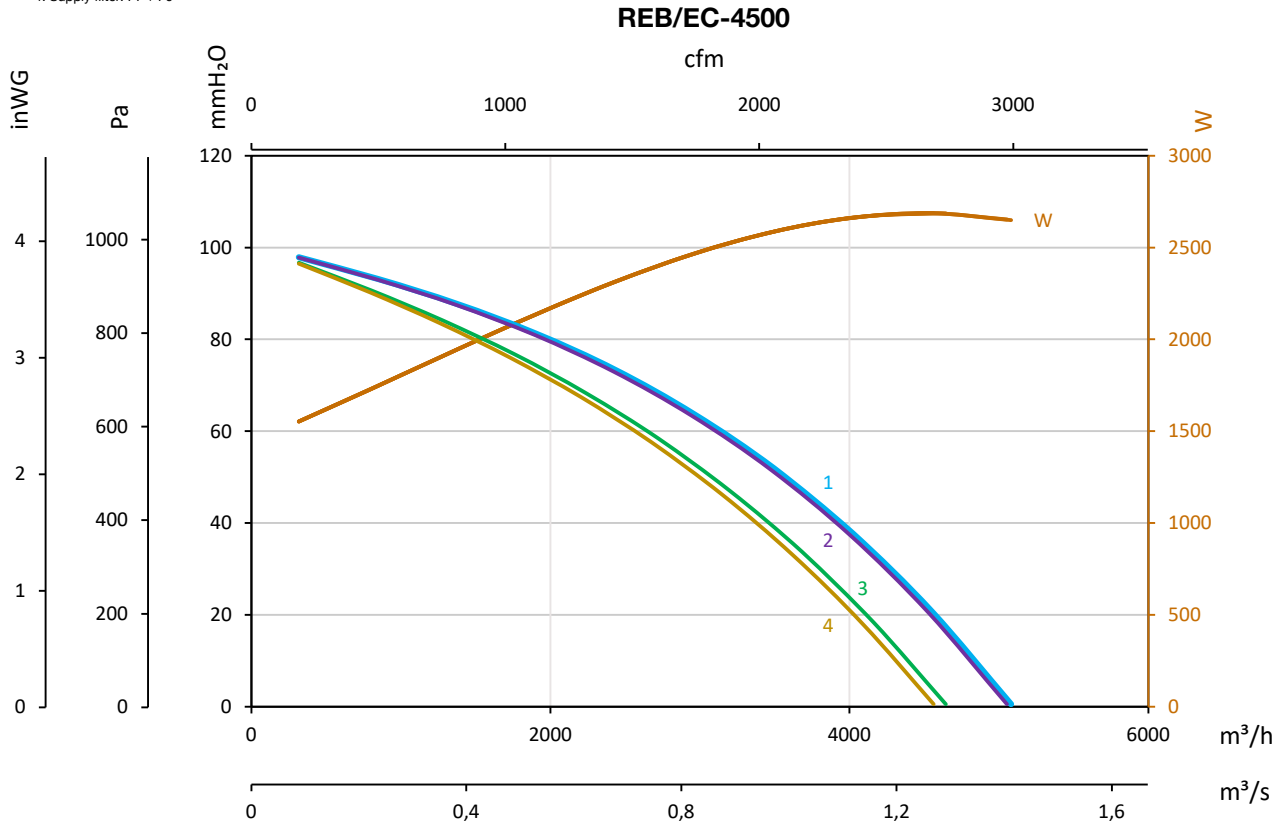
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

W= Electrical power

- 1: Extraction filter: F6
- 2: Extraction filter: F7
- 3: Supply filter: F6 + F8
- 4: Supply filter: F7 + F9



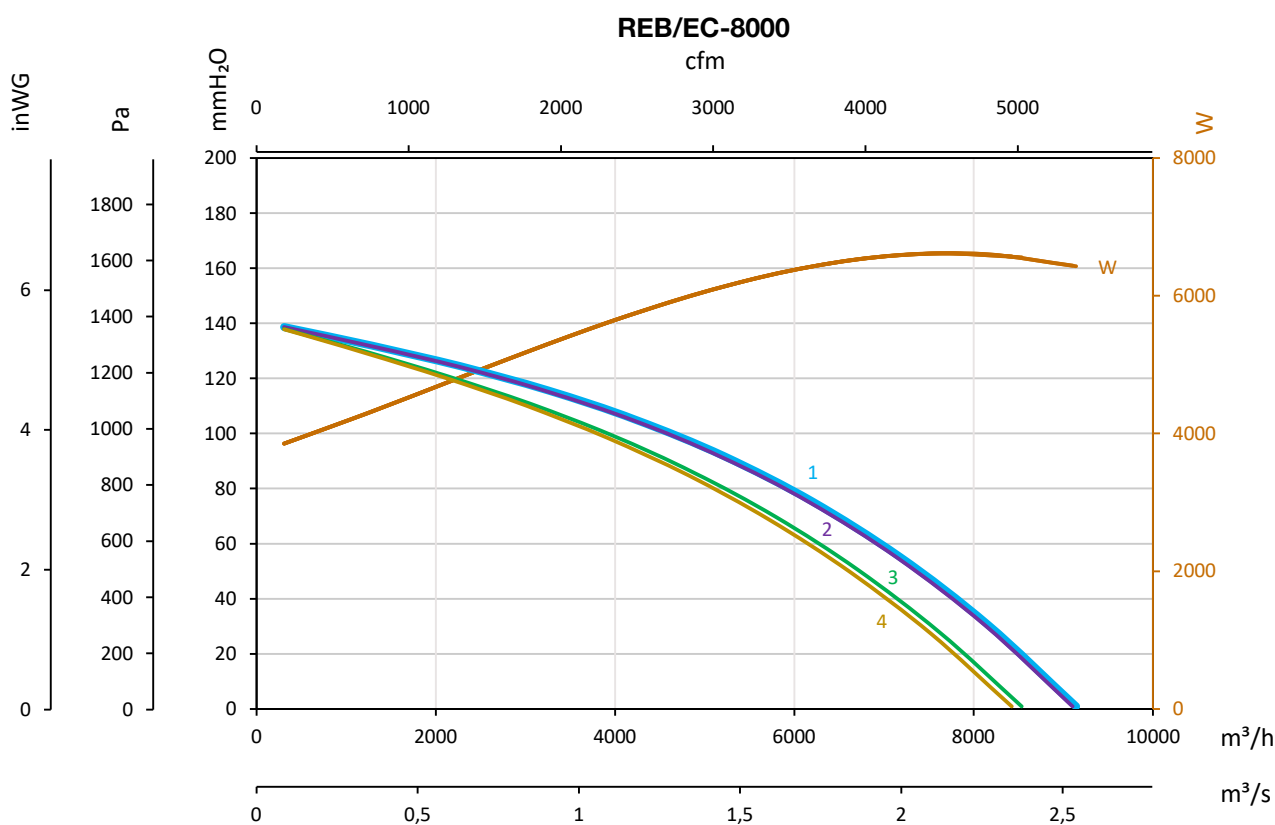
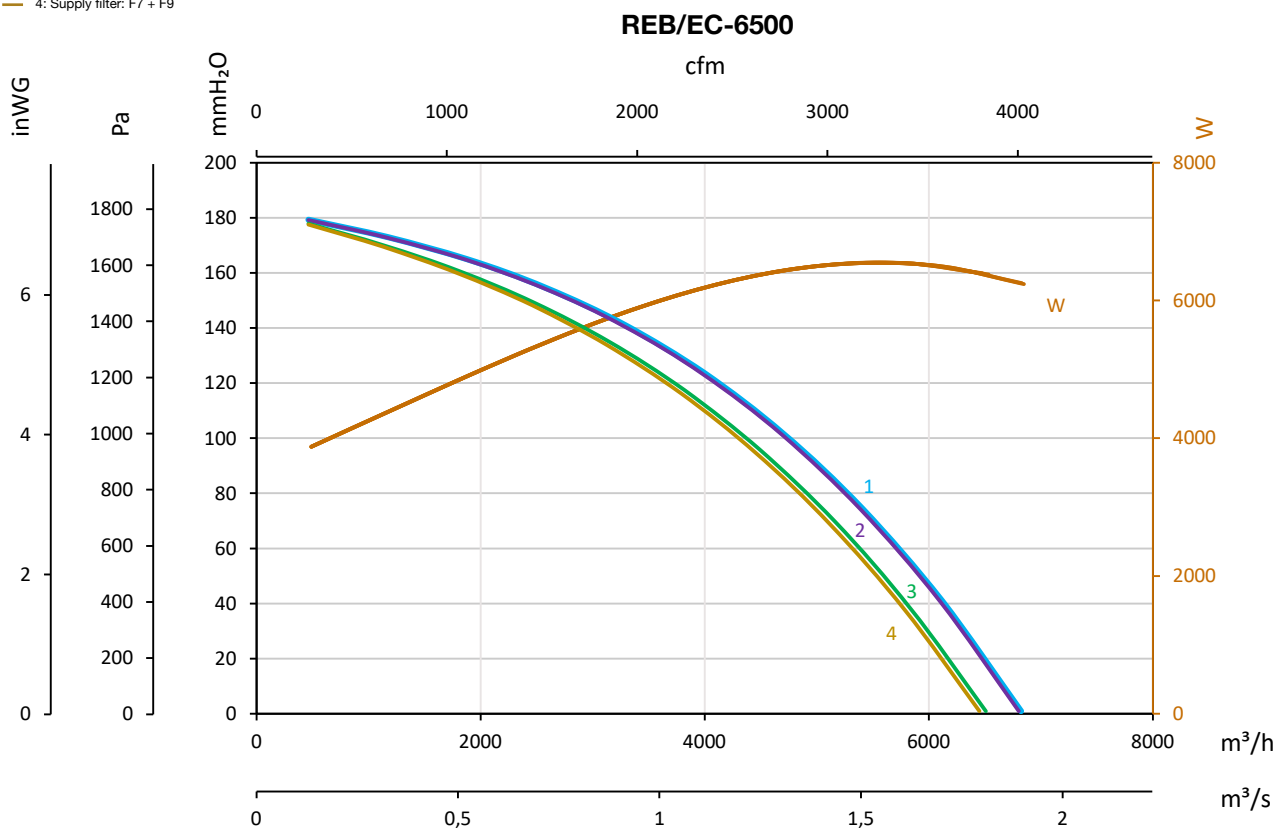
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

W= Electrical power

- 1: Extraction filter: F6
- 2: Extraction filter: F7
- 3: Supply filter: F6 + F8
- 4: Supply filter: F7 + F9



EUROPE

FINLAND

Sodeca Finland, Oy
HUITTINEN
Sales and Warehouse
Mr. Kai Yli-Sipilä
Metsälännankatu 26
FI-32700 Huittinen
Tel. + 358 400 320 125
orders.finland@sodeca.com

FINLAND

Sodeca Finland, Oy
VANTAA
Sales and Warehouse
Ainontie 12
FI-01630 Vantaa

Smoke Extraction
Mr. Antti Kontkanen
Tel. +358 400 237 434
akontkanen@sodeca.com
Mrs. Kaisa Partanen
Tel. +358 451 308 038
kpartanen@sodeca.com

Industrial Applications
Mr. Jarno Pikkumäki
Tel. +358 407 723 472
jpikkumaki@sodeca.com

ITALIA

Sodeca Italia
Viale del Lavoro, 28
37036 San Martino B.A.
(VR), ITALY
Tel. +39 045 87 80 140
vendite@sodeca.com

NORWAY

Sodeca Norge AS
Per Krohgs vei 4C
1065 Oslo
NORWAY
Tel. +47 23 28 80 90
post@sodeca.no

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. 29
2625-607 Vialonga
Tel. +351 219 748 491
geral@sodeca.pt

ALGARVE

Rua da Alegria, 33
8200-569 Ferreiras
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, SpA.
Sra. Sofia Ormazábal
Santa Bernardita 12.005
(Esquina con Puerta Sur)
Bodegas b24 a b26,
San Bernardo, 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

MIDDLE EAST AND AFRICA

UNITED ARAB EMIRATES

Sodeca MEA Trading L.L.C
C-83, Sama Residence
Al Nahda First, Deira, DUBAI
orders.meas@sodeca.com



HEADQUARTER

Sodeca, S.L.U.
Pol. Ind. La Barriconca
Carrer del Metall, 2
E-17500 Ripoll
Girona, SPAIN
Tel. +34 93 852 91 11
General sales: comercial@sodeca.com
Export sales: ventilation@sodeca.com

PRODUCTION PLANT

Sodeca, S.L.U.
Ctra. de Berga, km 0,7
E-08580 Sant Quirze de Besora
Barcelona, SPAIN
Tel. +34 93 852 91 11
General sales: comercial@sodeca.com
Export sales: ventilation@sodeca.com



www.sodeca.com