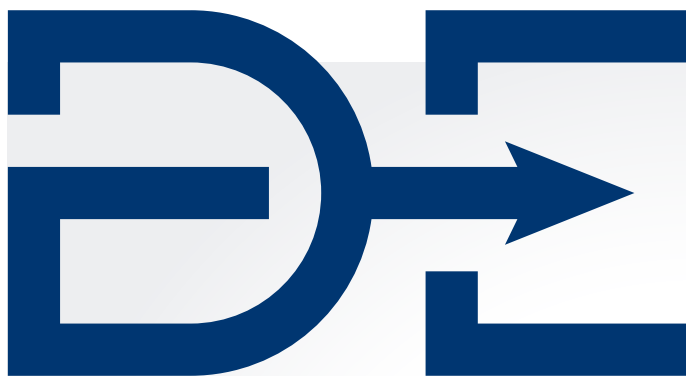


Heat recovery units with high efficiency counterflow plate heat exchanger



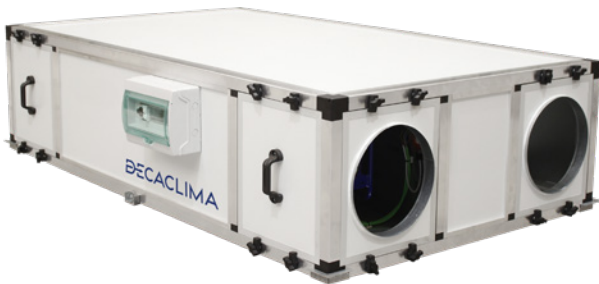
LOW PROFILE UNITS
REC BS

ROOF-TOP UNITS
REC H



REC BS

High efficiency heat recovery units with counterflow plate heat exchanger, automatic control and E.C. Technology motors for installation in a false ceiling



FINISH:

- Aluminium profile structure and prefinished sheet exterior.
- Panels with 25 mm thermal and acoustic insulation.
- Low profile for installation in false ceilings.
- Interchangeable nozzles for a better adaptation.

UPON REQUEST:

- External battery modules for treating the air.
- Special efficiency filters.
- Modules with UVc germicidal chamber.

COMMON CHARACTERISTICS:

- EC type Plug Fans adjustable between 0-10 V.
- Built-in maintenance circuit-breaker switch.
- Thermal efficiency of the unit 85-90%.
- Reinforced aluminium profile structure profile structure.
- Panel with 25 mm thermal and acoustic insulation and prefinished sheet exterior.
- XPS type panels with thermal bridge break.
- High efficiency filtration:
 - M6+F8
 - F7+F9
- Wide access for maintenance.
- Free cooling with motorised hatch for BY-PASS.
- Condensate collection and drainage tray.

BUILT-IN CONTROL PANEL:

- Free cooling function by means of a motorised BY-PASS.
- Fan speed control by manual selection or by optional external sensors (CO₂ or pressure).
- Built-in control system with remote control panel.
- STOP / START and speed control available through control panel or external contacts.
- Built-in temperature and humidity sensors.
- Filter status control by means of built-in pressure switches.
- Alarms management of faults and stoppage due to a fire alarm.
- Compatible with MODBUS RTU.

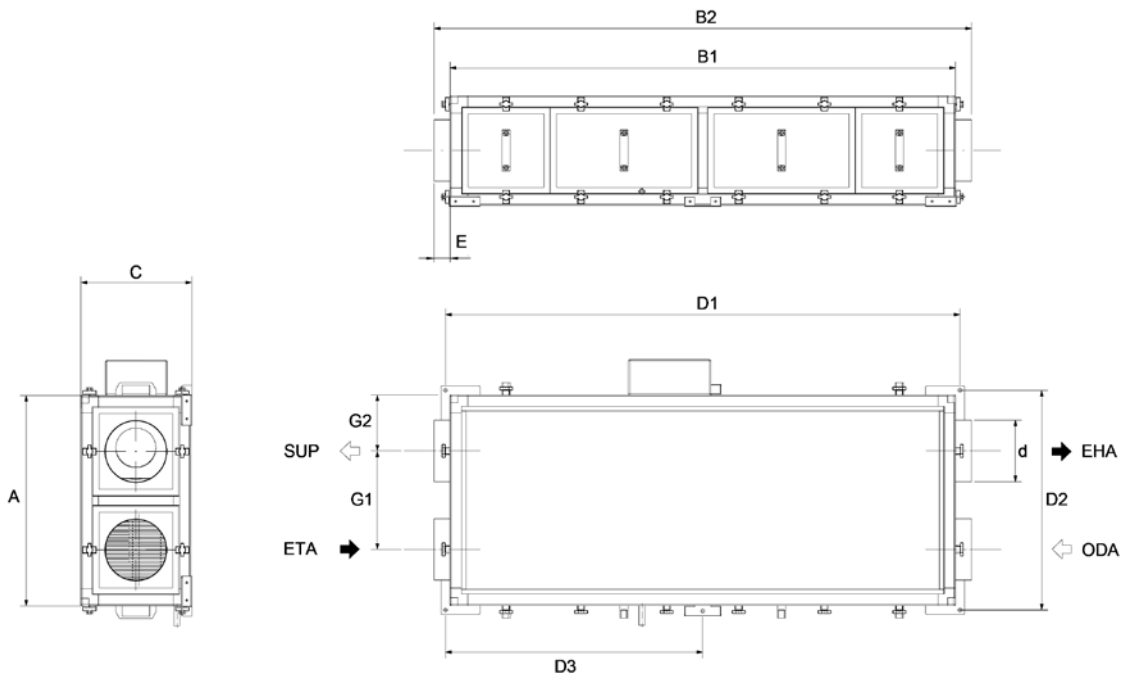
Characteristics based on the size

	REC BS-800	REC BS-1200	REC BS-1600	REC BS-2100	REC BS-2700
Supply filter (ODA)	M6+F8 / F7+F9	M6+F8 / F7+F9	M6+F8 / F7+F9	M6+F8 / F7+F9	M6+F8 / F7+F9
Extract filter (ETA)	M6	M6	M6	M6	M6
Free cooling function by means of a motorised BY-PASS	SI	SI	SI	SI	SI
Panel thickness	25 mm	25 mm	25 mm	25 mm	25 mm
Discharging of condensates	SI	SI	SI	SI	SI
Status control pressure switch for built-in filters	SI	SI	SI	SI	SI
Safety and maintenance switch	SI	SI	SI	SI	SI
Built-in control panel	SI	SI	SI	SI	SI

Technical characteristics

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

Dimensions mm



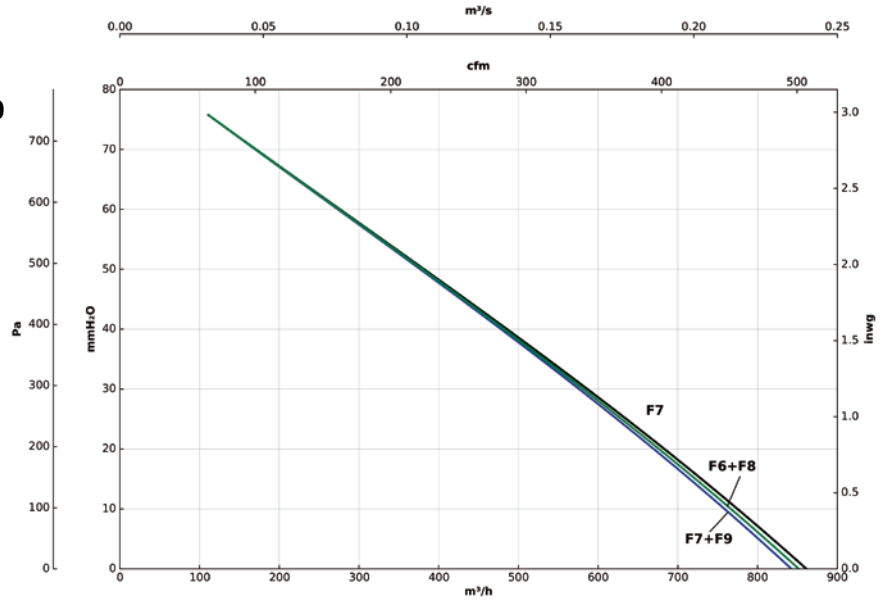
Model	A	B1	B2	C	D1	D2	D3	E	G1	G2	d
REC BS-800	684	1644	1694	357	1664	704	832	25	320	182	200
REC BS-1200	1124	1890	1940	480	1910	1144	955	25	695	214	315
REC BS-1600	1250	1970	2020	480	1990	1270	995	25	781	235	355
REC BS-2100	1250	2198	2248	620	2218	1270	1109	25	736	257	400
REC BS-2700	1250	2198	2248	620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

ODA: Fresh outdoor air / SUP: Air supply to the premise / EHA: Exhaust air outlet / ETA: Air extraction from the premise.

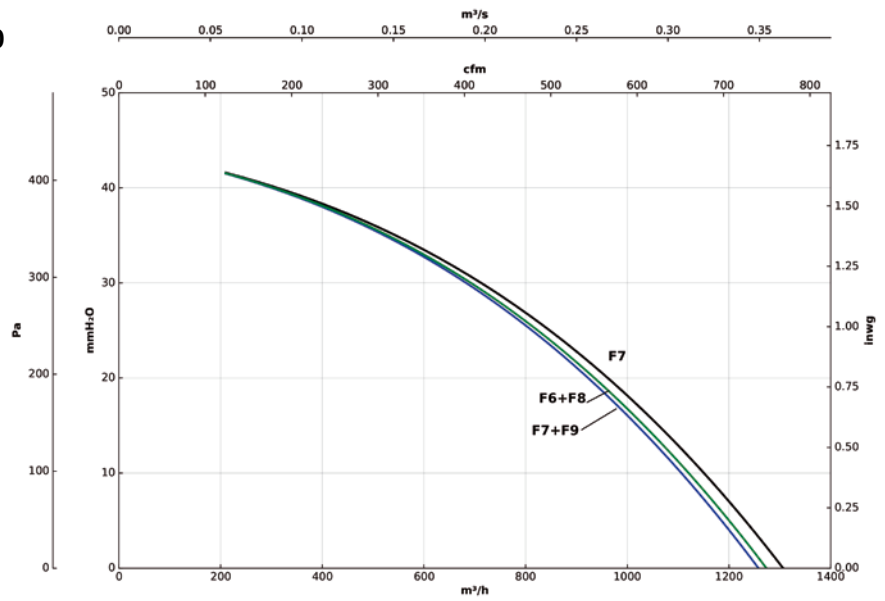
Characteristic curves

Flow rate in m³/h, m³/s and cfm.
 Static pressure in mmH₂O, Pa and inwg.

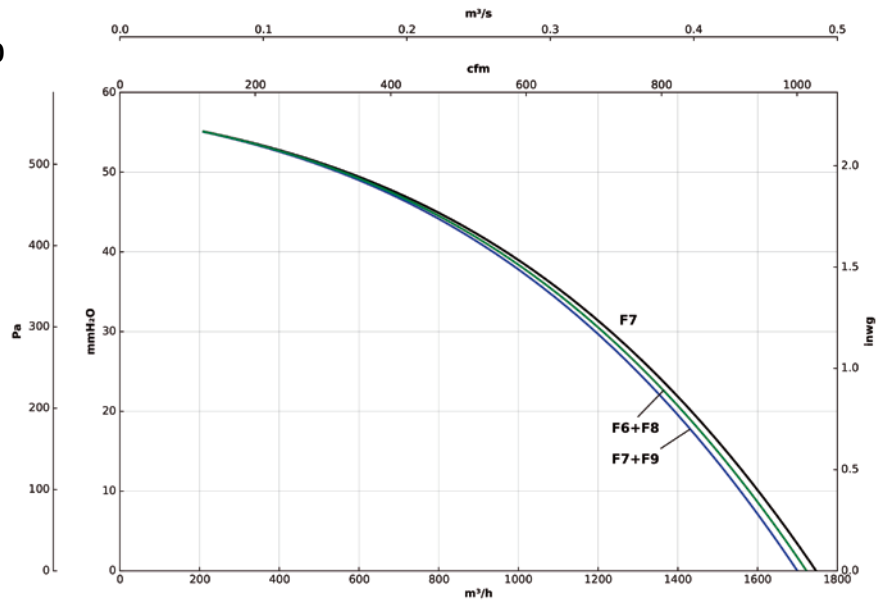
REC BS-800



REC BS-1200



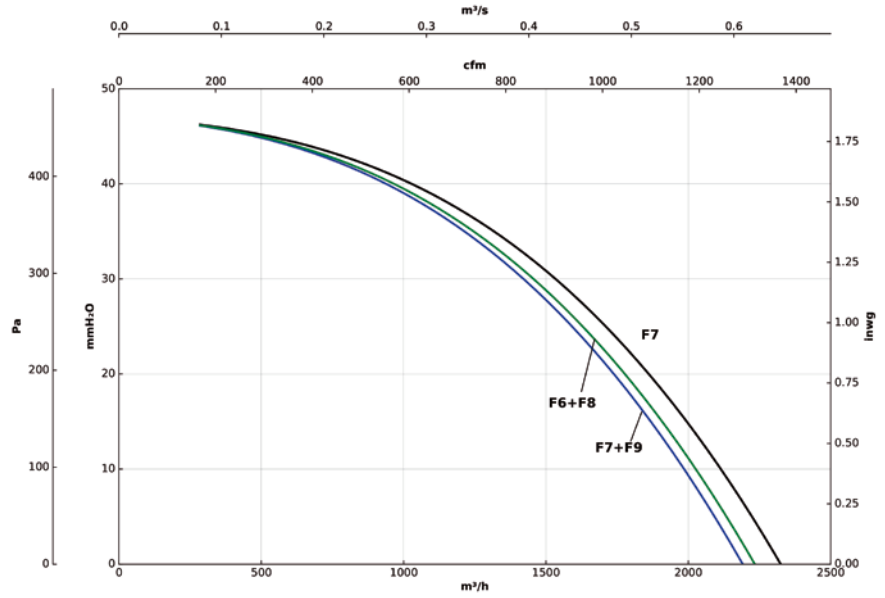
REC BS-1600



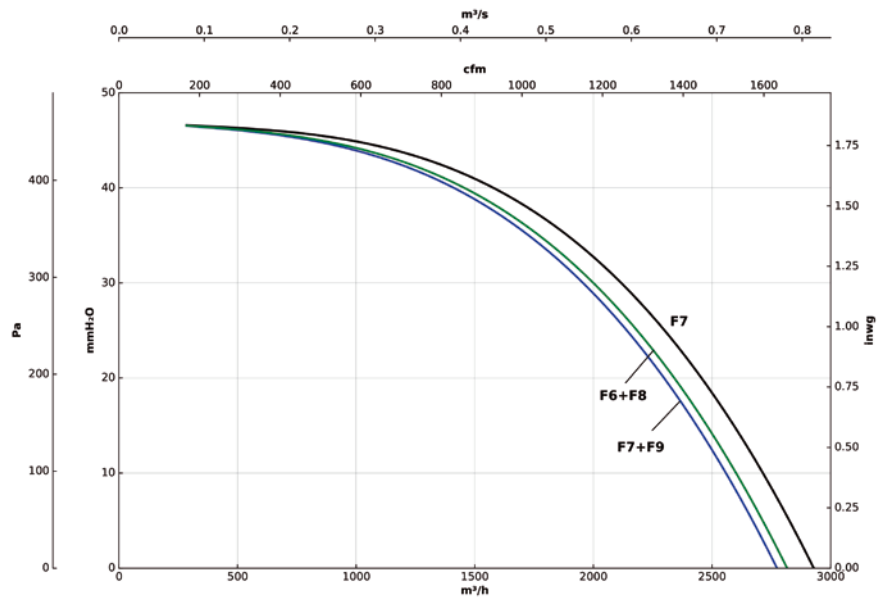
Characteristic curves

Flow rate in m³/h, m³/s and cfm.
 Static pressure in mmH₂O, Pa and inwg.

REC BS-2100

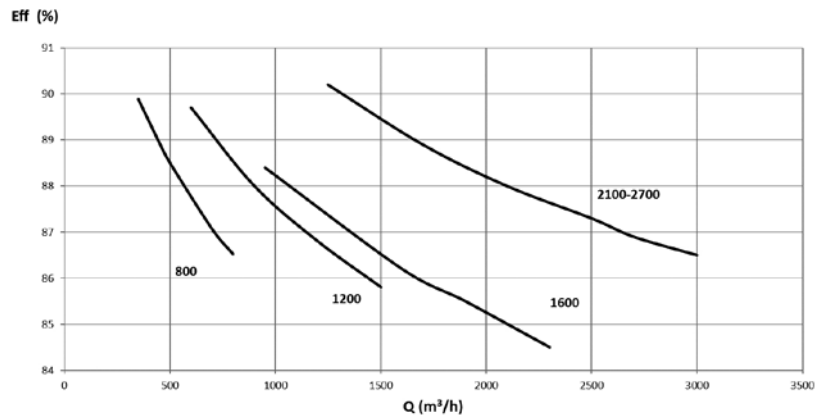


REC BS-2700



Efficiency curves

Flow rate in m³/h
 % efficiency



REC H

High efficiency heat recovery units with counterflow plate heat exchanger, automatic control and E.C. Technology motors for installation in roof-tops or technical room



FINISH:

- Aluminium profile structure and prefinished sheet exterior.
- Panels with 25 mm thermal and acoustic insulation up to model 2700.
- Panels with 50 mm thermal and acoustic insulation beginning with model 3300 and subsequent models.

UPON REQUEST:

- External battery modules for treating the air.
- Special efficiency filters.
- Modules with UVc germicidal chamber.

COMMON CHARACTERISTICS:

- EC type Plug Fans adjustable between 0-10 V.
- Built-in maintenance circuit-breaker switch.
- Thermal efficiency of the unit 85-90%.
- High quality reinforced aluminium profile structure.
- Panels with thermal and acoustic insulation; prefinished sheet exterior.
- XPS type panels with thermal bridge break.
- G4 pre-filter + M6 or F7 filter in the air supply.
- High efficiency F8 or F9 filtration in the air supply.
- Wide access for maintenance.
- Free cooling with motorised hatch for BY-PASS.
- Condensate collection and drainage tray.

BUILT-IN CONTROL PANEL:

- Free cooling function by means of a motorised BY-PASS.
- Fan speed control by manual selection or by optional external sensors (CO₂ or pressure).
- Built-in control system with remote control panel.
- STOP / START and speed control available through control panel or external contacts.
- Built-in temperature and humidity sensors.
- Filter status control by means of built-in pressure switches.
- Alarms management of faults and stoppage due to a fire alarm.
- Compatible with MODBUS RTU.

Characteristics based on the size

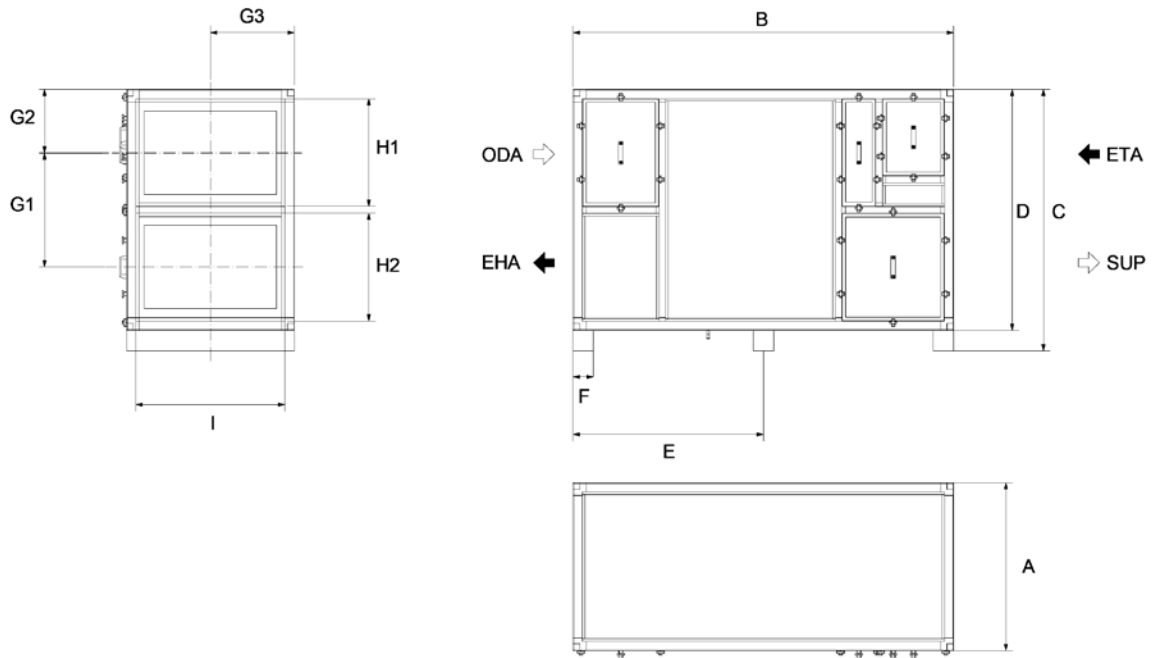
	REC H-1200	REC H-1600	REC H-2100	REC H-2700	REC H-3300
Supply filter (ODA)	G4+M6/F7	G4+M6/F7	G4+M6/F7	G4+M6/F7	G4+M6/F7
Impulsion filter (SUP)	F8/F9	F8/F9	F8/F9	F8/F9	F8/F9
Extract filter (ETA)	M6	M6	M6	M6	M6
Free cooling function by means of a motorised BY-PASS	SI	SI	SI	SI	SI
Panel thickness	25 mm	25 mm	25 mm	25 mm	50 mm
Discharging of condensates	SI	SI	SI	SI	SI
Status control pressure switch for built-in filters	SI	SI	SI	SI	SI
Safety and maintenance switch	SI	SI	SI	SI	SI
Built-in control panel	SI	SI	SI	SI	SI

	REC H-4500	REC H-6000	REC H-8000	REC H-10000
Supply filter (ODA)	G4+M6/F7	G4+M6/F7	G4+M6/F7	G4+M6/F7
Impulsion filter (SUP)	F8/F9	F8/F9	F8/F9	F8/F9
Extract filter (ETA)	M6	M6	M6	M6
Free cooling function by means of a motorised BY-PASS	SI	SI	SI	SI
Panel thickness	50 mm	50 mm	50 mm	50 mm
Discharging of condensates	SI	SI	SI	SI
Status control pressure switch for built-in filters	SI	SI	SI	SI
Safety and maintenance switch	SI	SI	SI	SI
Built-in control panel	SI	SI	SI	SI

Technical characteristics

Model	Nominal flow rate (m ³ /h)	Efficiency of recovery unit (%)	Available pressure F7 (Pa)	Nominal power (kW)	Nominal current (A)	Voltage (V)	Irradiated noise level at 5 m dB(A)	Weight (kg)	According ErP
REC H-1200	1200	90	200	0.45	1.78	1/230	37	210	2018
REC H-1600	1600	88.8	200	0.63	2.54	1/230	40	210	2018
REC H-2100	2100	88.8	200	0.82	1.48	3+N/400	43	281	2018
REC H-2700	2700	87.8	200	1.11	1.88	3+N/400	46	281	2018
REC H-3300	3300	88.8	300	1.68	2.65	3+N/400	50	324	2018
REC H-4500	4500	88.6	300	2.53	4.34	3+N/400	57	342	2018
REC H-6000	6000	89.1	300	2.55	4.26	3+N/400	47	385	2018
REC H-8000	8000	88	300	4.04	6.41	3+N/400	51	385	2018
REC H-10000	10000	87	300	6.11	9.38	3+N/400	56	385	2018

Dimensions mm



Model	A	B	C	D	E	F	G1	G2	G3	H1	H2	I
REC H-1200	566	2213	1507	1387	1030	120	672	355	283	637	647	492
REC H-1600	566	2213	1507	1387	1030	120	672	355	283	637	647	492
REC H-2100	669	2213	1507	1387	1030	120	672	355	335	637	647	595
REC H-2700	669	2213	1507	1387	1030	120	672	355	335	637	647	595
REC H-3300	992	2250	1544	1424	1048	120	677	374	496	637	637	881
REC H-4500	1297	2250	1544	1424	1048	120	677	374	649	637	637	1186
REC H-6000	1889	2250	1544	1424	1048	120	677	374	945	637	637	1778
REC H-8000	1889	2250	1544	1424	1048	120	677	374	945	637	637	1778
REC H-10000	1889	2250	1544	1424	1048	120	677	374	945	637	637	1778

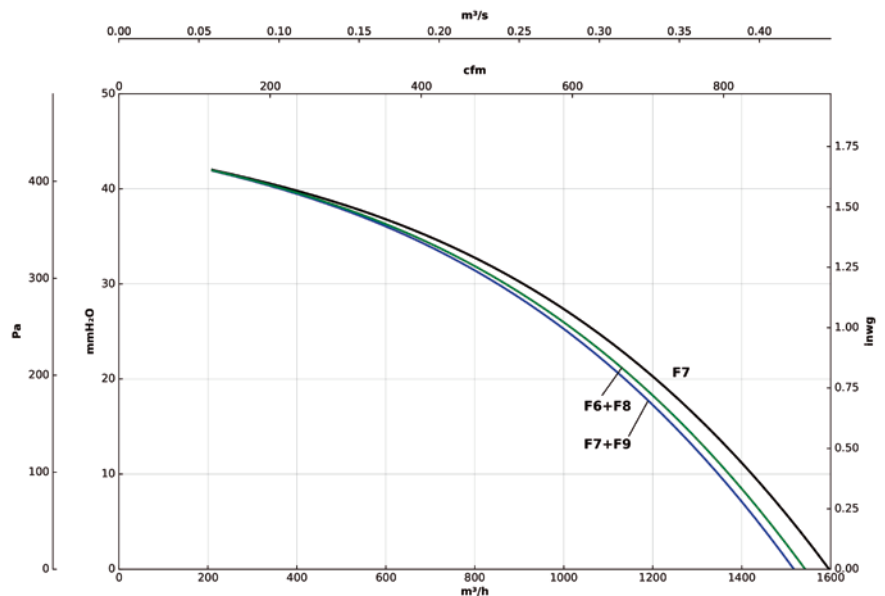
ODA: Fresh outdoor air / SUP: Air supply to the premise / EHA: Exhaust air outlet / ETA: Air extraction from the premise.

Characteristic curves

Flow rate in m³/h, m³/s and cfm.

Static pressure in mmH₂O, Pa and inwg.

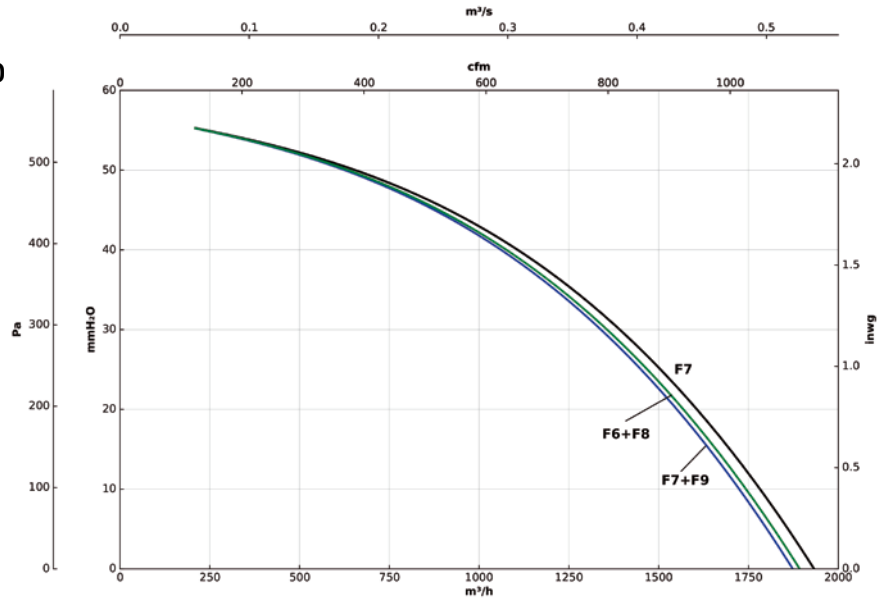
REC H-1200



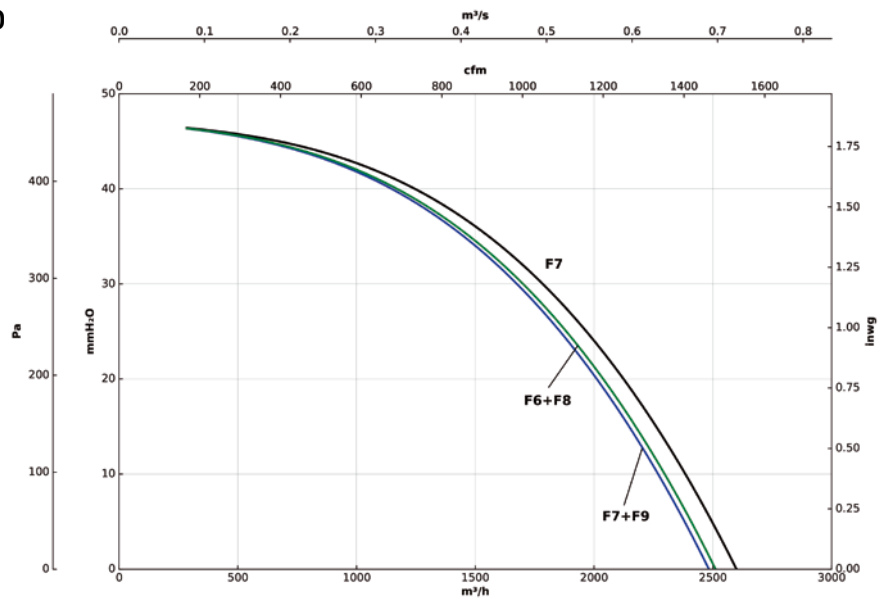
Characteristic curves

Flow rate in m³/h, m³/s and cfm.
 Static pressure in mmH₂O, Pa and inwg.

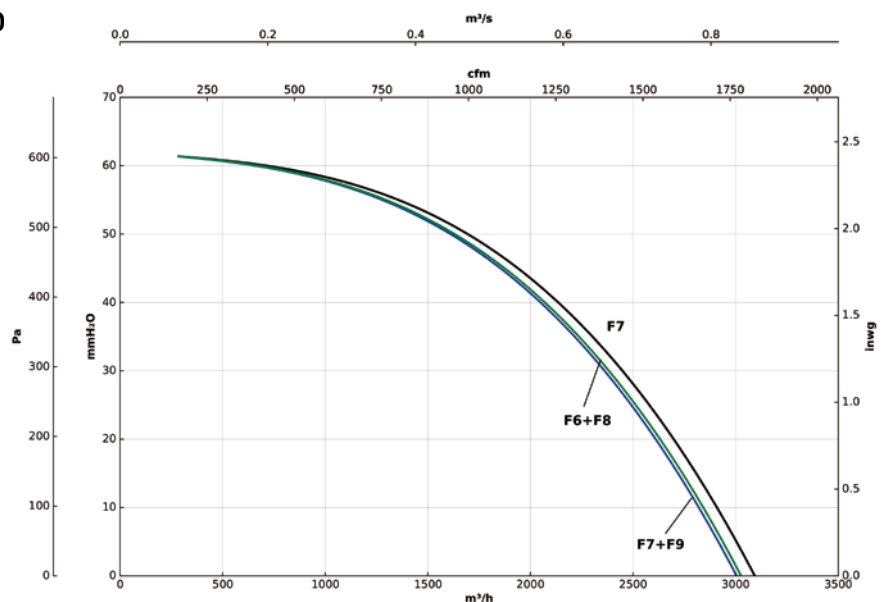
REC H-1600



REC H-2100



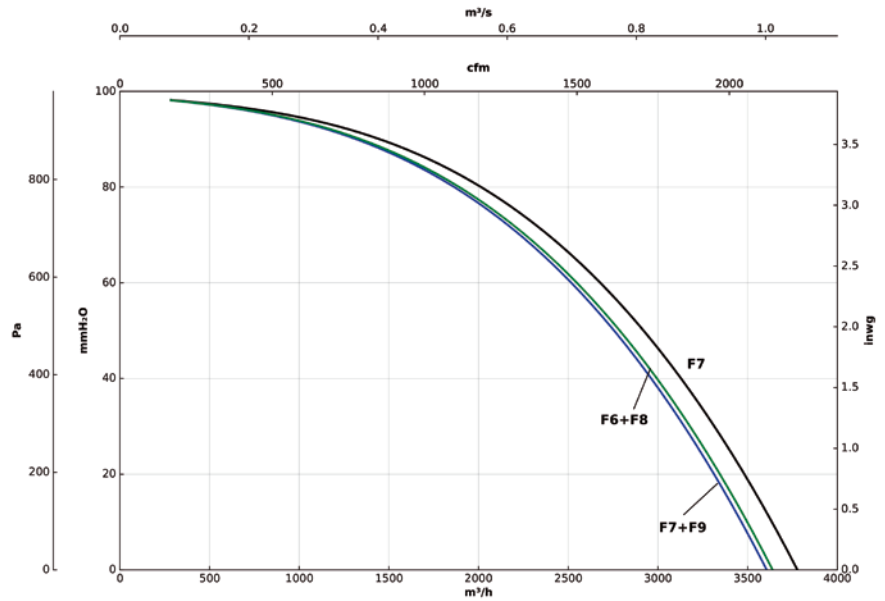
REC H-2700



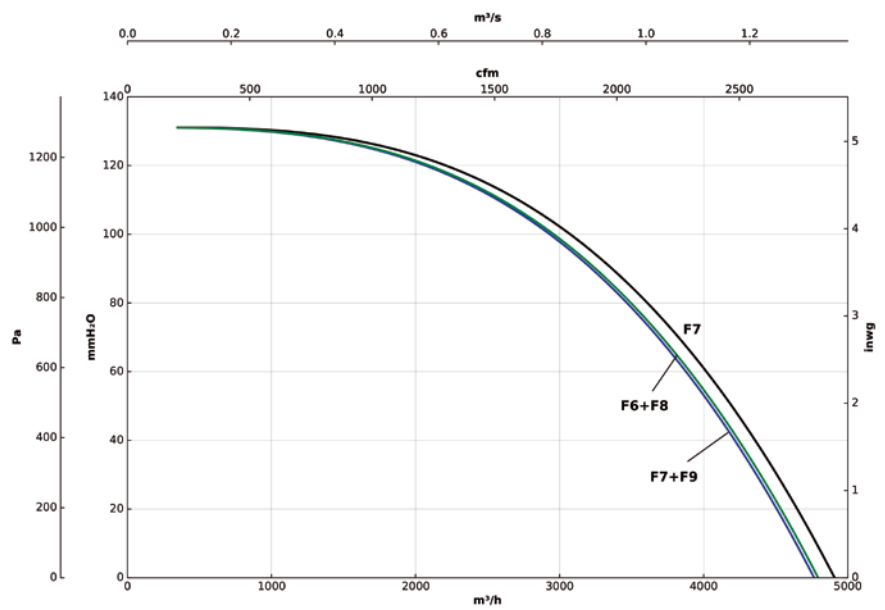
Characteristic curves

Flow rate in m³/h, m³/s and cfm.
 Static pressure in mmH₂O, Pa and inwg.

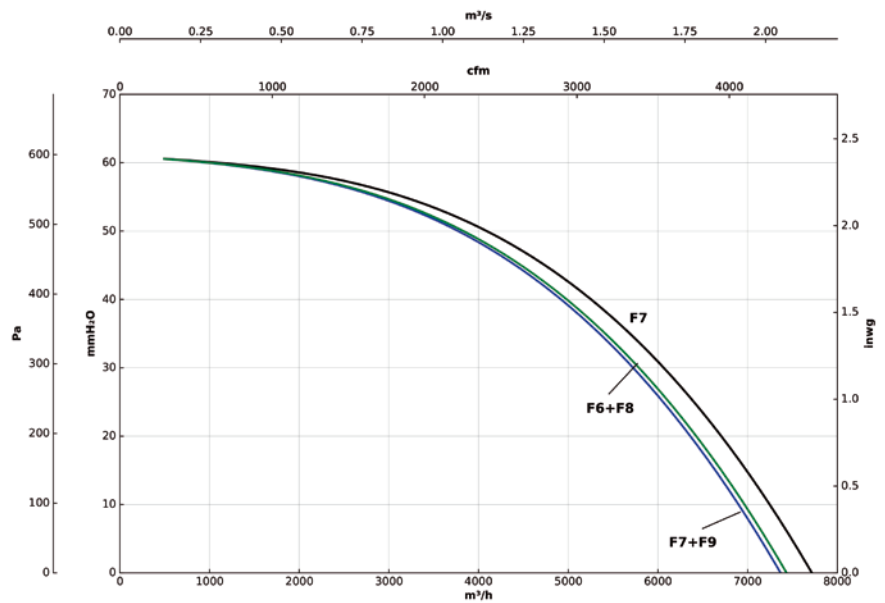
REC H-3300



REC H-4500



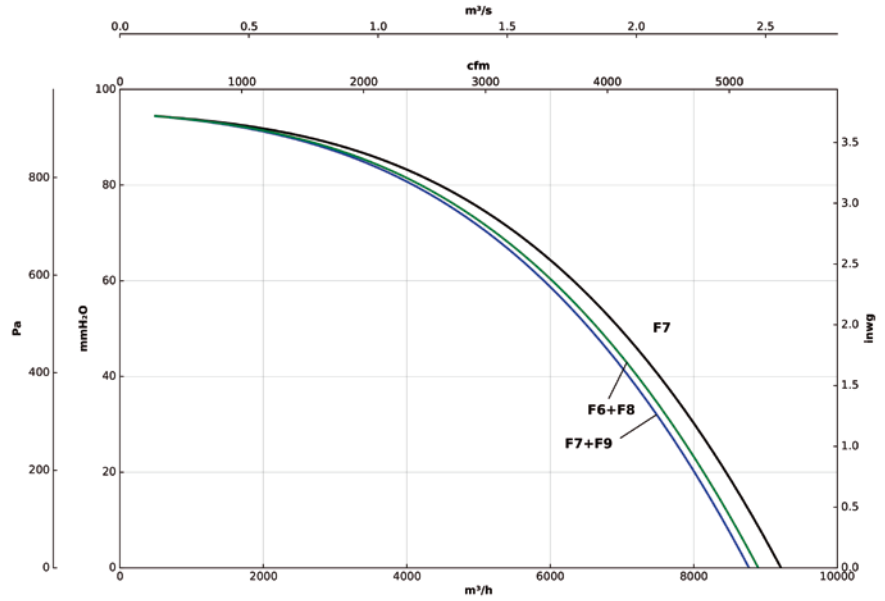
REC H-6000



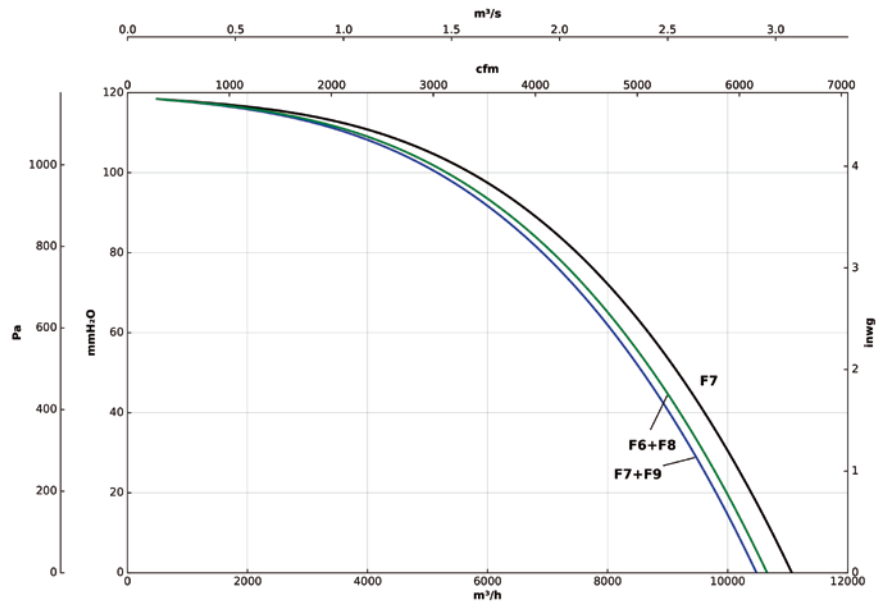
Characteristic curves

Flow rate in m³/h, m³/s and cfm.
 Static pressure in mmH₂O, Pa and inwg.

REC H-8000

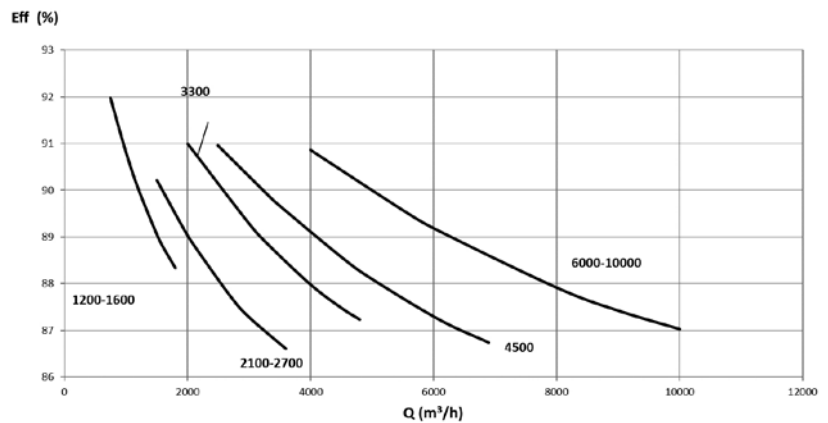


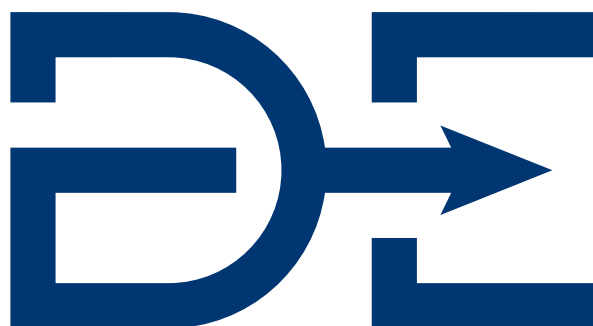
REC H-10000



Efficiency curves

Flow rate in m³/h
 % efficiency





INNOVATION IN AIR CONDITIONING
AND AIR QUALITY EQUIPMENT

DECACLIMA

DECACLIMA COMFORT SOLUTIONS, S.L.
Avda. del Castell, 31
08570 Torelló (Barcelona)
Tel. +34 930 130 703
info@decaclima.com
www.decaclima.com

SODECA Group