SERIES **UVR-HE DP**

HEAT RECOVERY UNITS

- Ceiling or false-ceiling installation
- Horizontal and/or vertical configuration depending on model
- Equipped with heat exchangers with efficiency between 73% and 88%
- Compliant with Directive 2009/125/EC and Regulation No. 1253/2014 (Eco Design 2021)

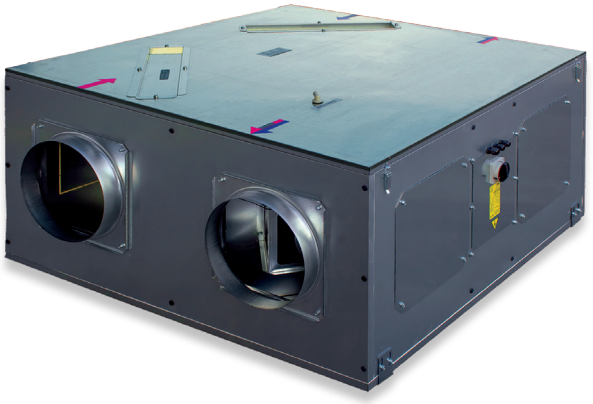


Image for illustrative purposes.

›73%

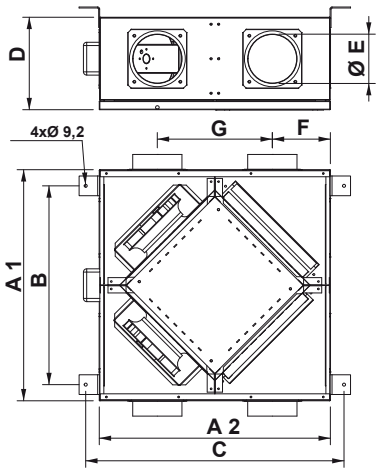
The UVR-HE DP ventilation unit consists of a heat exchanger and two fans moving two air flows: one from outdoors into the room (fresh air), one from indoors to outdoors (exhaust air). Inside the heat recovery unit, outgoing and incoming air flows cross without mixing inside an aluminium heat exchanger (cross-flow), while heat from the stale room air is transferred to the cold outdoor fresh air. A motorized by-pass damper can be used to divert most of the fresh-air flow to allow free heating in winter and free cooling in summer.

FEATURES

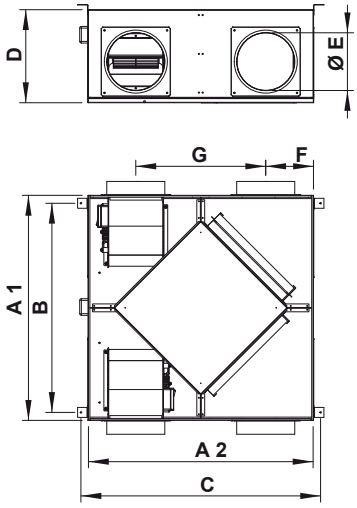
- Equipped with high-efficiency cross-flow or counter-flow exchangers (minimum 73% with dry air and 80% with humid air), in accordance with Directive 2009/125/EC (Eco Design) Regulation No. 1253/2021;
- Equipped with high-efficiency single- and three-phase EC fans, whose speed can be adjusted by a 0-10V signal via the directly integrated control unit;
- Motorized by-pass damper (IP54 actuator);
- External casing with double 23 mm galvanized sheet-metal panels, with thermo-acoustic polyurethane foam insulation, density 40 kg/m^3;
- Equipped with condensate drain pan and transparent plastic drain pipe.
- F7 filters can be inspected and replaced through dedicated access doors in the unit cover;
- All units can be installed outdoors if fitted with a protective roof;
- Circular air inlet and outlet connections, configurable and repositionable by the user;

DIMENSIONS (mm)

COD.	MODEL	mm								Kg
		A1	A2	B	C	D	øE	F	G	
AP20702	UVR 700 MF HE DP	1220		-	990	320	200	-	-	95
AP20704	UVR 1000 MF HE DP	1220		-	990	420	250	-	-	115
AP20706	UVR 1500 MF HE DP	1220		-	990	520	315	-	-	125
AP20606	UVR 1600 MF HE DP	1250	1250	1100	1310	645	315	300	650	170
AP20708	UVR 2000 MF HE DP	1220		-	990	620	355	-	-	145
AP20710	UVR 2500 TF HE DP	1420		-	1110	720	355	-	-	175
AP20712	UVR 3000 TF HE DP	1420		-	1110	720	400	-	-	185
AP20614	UVR 3800 MF HE DP	1380	1380	1200	1440	750	350	325	730	195
AP20616	UVR 4500 MF HE DP	1505	1505	1410	1470	750	350	340	930	290
AP20619	UVR 5400 TF HE DP	1680	1680	1080	1080	810	450	340	1020	370
AP20621	UVR 6500 TF HE DP	1700	1700	1080	1760	800	450	310	940	370
AP20623	UVR 7100 TF HE DP	2170	2170	-	-	1100	600	435	1300	500
AP20625	UVR 8500 TF HE DP	2170	2170	-	-	1100	600	435	1300	500



BACKWARD BLADES
UVR 700 MF HE DP
UVR 1000 MF HE DP
UVR 1500 MF HE DP
UVR 2000 MF HE DP
UVR 2500 TF HE DP
UVR 3000 TF HE DP
UVR 5400 TF HE DP



FORWARD BLADES
UVR 3800 MF HE DP
UVR 4500 MF HE DP
UVR 6500 TF HE DP
UVR 7100 TF HE DP
UVR 8500 TF HE DP

TECHNICAL FEATURES

COD.	MODEL	Control	m³/h max	Pa max	W	A	V~	Hz	Ph	Motor class	dB(A) **
AP20702	UVR 700 MF HE DP	1591008 (to be ordered separately)	800	700	145 x 2	1,5	230	50/60	1	F	61
AP20704	UVR 1000 MF HE DP		1300	700	170 x 2	1,5	230	50/60	1	F	62
AP20706	UVR 1500 MF HE DP		1700	800	310 x 2	2,2	230	50/60	1	F	64
AP20606	UVR 1600 MF HE DP	(included)	1600	600	500 x 2	2,2 x 2	230	50/60	1	F	54
AP20708	UVR 2000 MF HE DP	1591008 (to be ordered separately)	2200	800	390 x 2	4,1	230	50/60	1	F	68
AP20710	UVR 2500 TF HE DP		3000	800	750 x 2	3,2	230	50/60	3	F	69
AP20712	UVR 3000 TF HE DP		3200	800	950 x 2	3,5	230	50/60	3	F	72
AP20614	UVR 3800 MF HE DP *	(included)	3800	400	1500 x 2	7,5 x 2	230	50/60	1	F	61
AP20616	UVR 4500 MF HE DP *		4500	650	2000 x 2	8,5 x 2	230	50/60	1	F	61
AP20619	UVR 5400 TF HE DP *		5400	1400	2500 x 2	3,9 x 2	400	50/60	3	F	71
AP20621	UVR 6500 TF HE DP *		6500	1200	2500 x 2	3,8 x 2	400	50/60	3	F	72
AP20623	UVR 7100 TF HE DP *		7100	1100	2230 x 2	6,0 x 2	400	50/60	3	F	74
AP20625	UVR 8500 TF HE DP *		8500	830	2100 x 2	3,1 x 2	400	50/60	3	F	77

*** available for quantities and delivery terms to be agreed.**
Vertical installation available on request.

**** Sound power on casing (LWA)**

ACCESSORIES

- Hydronic post-heating coils
- Hydronic post-cooling coils
- Electric pre- and post-heating coils

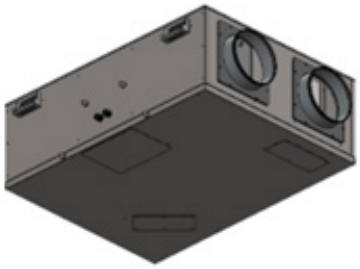
APPROVALS

- Low Voltage Directive 2014/35/EC
- Electromagnetic Compatibility Directive 2014/68/EC
- Ecodesign Directive 1253/2014

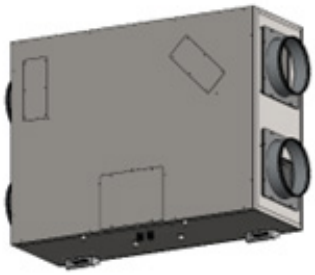
BASIC CONTROL (NOT INCLUDED)

- Electronic controller with humidity and air-quality sensors **(not included in the package and to be ordered separately - code 1591008)**
- Option to control multiple units (with the same electronic board).
- Reading of the unit stale-air return probe.
- Internal memory with data saving even in case of abnormal shutdown or power failure.
- The room temperature probe ensures anti-freeze safety even when the control is on stand-by.

INSTALLATION OPTIONS

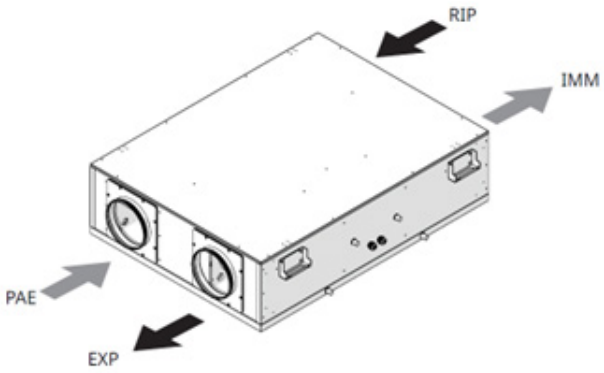


HORIZONTAL INSTALLATION

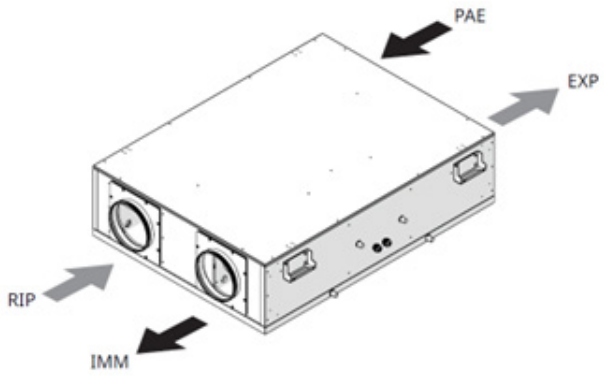


VERTICAL INSTALLATION

CONFIGURATIONS



CONFIGURATION A (bottom/front view)



CONFIGURATION B (bottom/front view)

ACCESSORIES

- Control (code 1591008)
- Feet kit for vertical floor installation (code AP20800)
- Feet kit for horizontal floor installation (code AP20802)
- Rain roof for horizontal installation (code AP20810 - AP20812)
- Rain roof for vertical installation (code AP20814 - AP20816 - AP20818 - AP20820 - AP20822)

BASIC CONTROL (STANDARD)

Equipped with 1 RS485 port for several uses:

- Connection of a single remote control
- Full compatibility with the MODBUS interface
- Option to adjust each fan speed progressively and independently of the other;
- Series connection to other base boards and unit management with a single remote control. In this setup, only the probes of the first unit are used, while those of all other units, except static pressure switches, are ignored. The remote control is also connected only to the first unit in the series. 32 units can be controlled separately, and each unit can be adjusted independently. The filter-replacement indicator on the remote control lights up when the filters of one or more units need replacing.

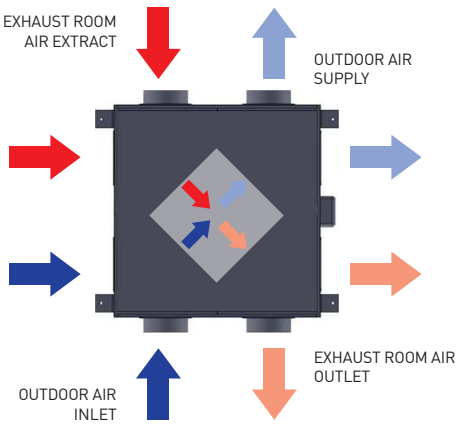
Two operating modes:

MANUAL: the user can directly set the supply and return fan speeds and control the by-pass damper (open/close). It is also possible to calibrate the speed of one of the two fans so that its speed is always a fraction of the reference fan. If a CO probe is present$_2$, relative humidity or room temperature, the measured value is shown on the remote-control panel.

AUTOMATIC: both fans and by-pass are managed by the control without user intervention. Fan speed changes automatically to keep the carbon dioxide level measured in the room below the reference value set by the user. However, the minimum speed of both fans can be set in a range between 4% and 20%. The by-pass damper always closes and opens autonomously based on the reference temperature set by the user.

CONFIGURATIONS

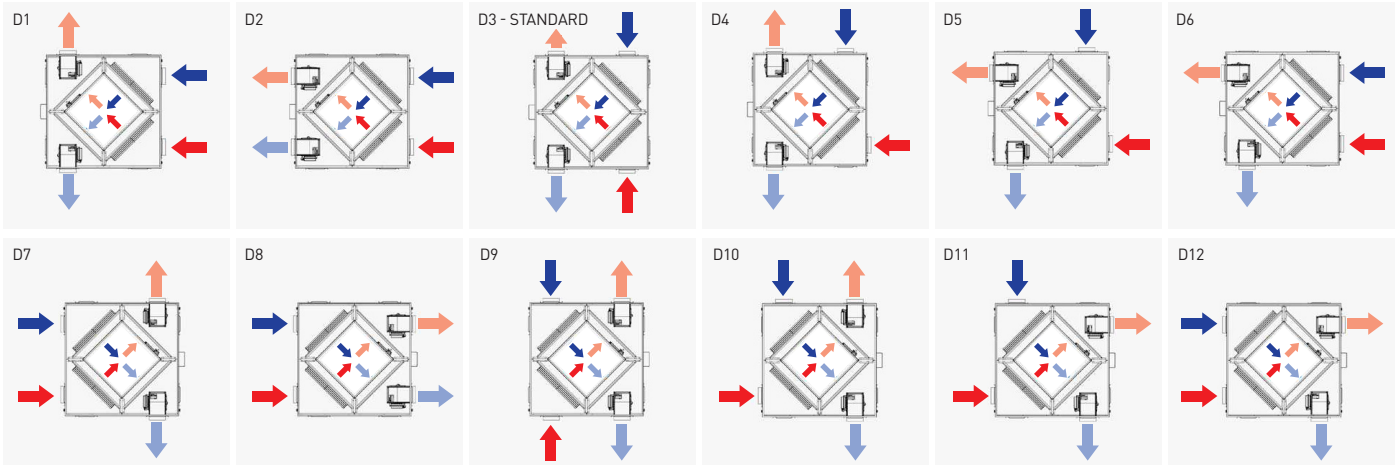
PLAN VIEW



Different configurations available. Standard configuration D3. The circular supply and return ducts can be installed on either side of the heat recovery unit during installation, so standard configuration D3 can adapt to almost all situations.

It must be noted that, due to the by-pass, the machine is not symmetrical.

Models from 500 to 1600 can have the supply and return ducts repositioned as shown in this annex starting from standard position D3, while for larger models the customer must select one of the configurations shown below. The desired configuration must be specified when ordering.



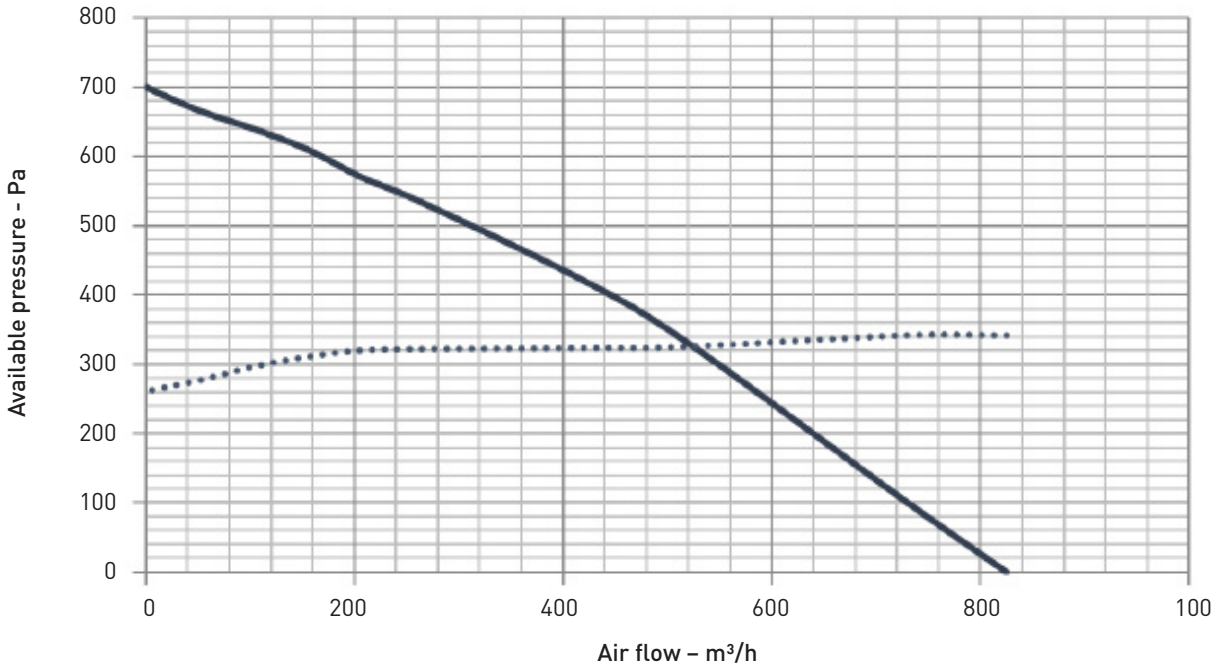
AP20702 - UVR 700 MF HE DP

TECHNICAL DATA

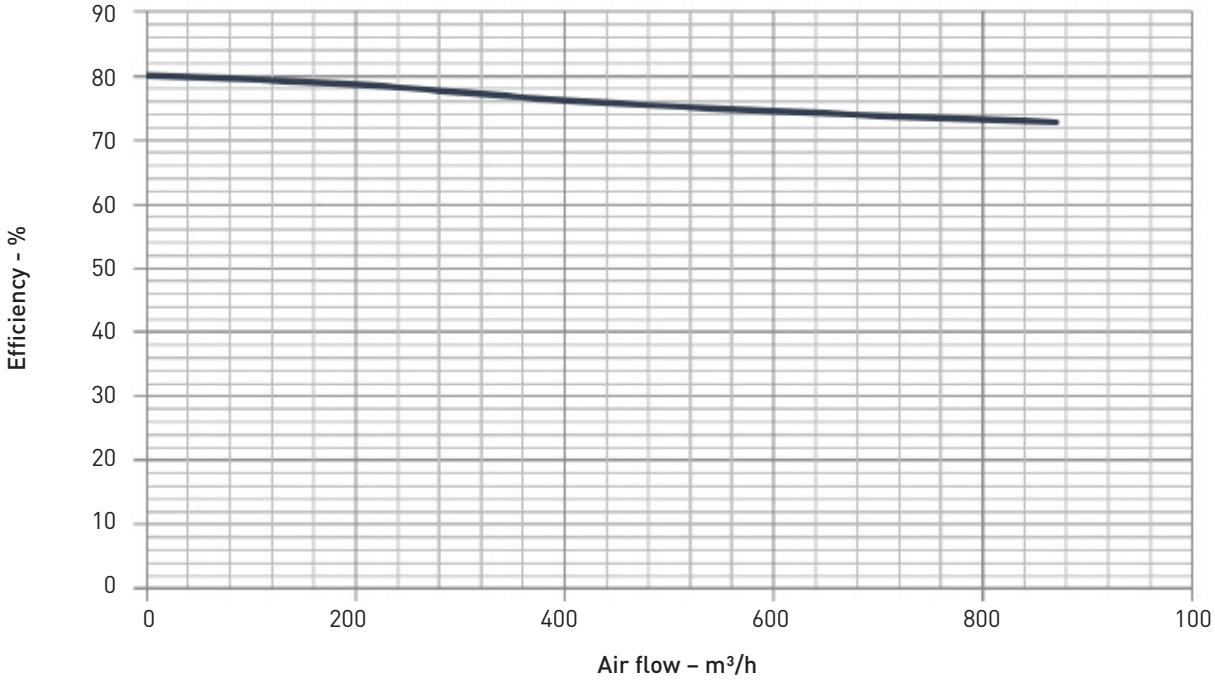
Speed	Max
Total power input	0.36 kW
Flow rate	1000 m³/h
Pressure	240

PERFORMANCE CURVES

AIR PERFORMANCE



THERMAL EFFICIENCY



Conditions refer to the following: Outdoor air 5° 72% R.H. - Indoor air 25° 28% R.H.

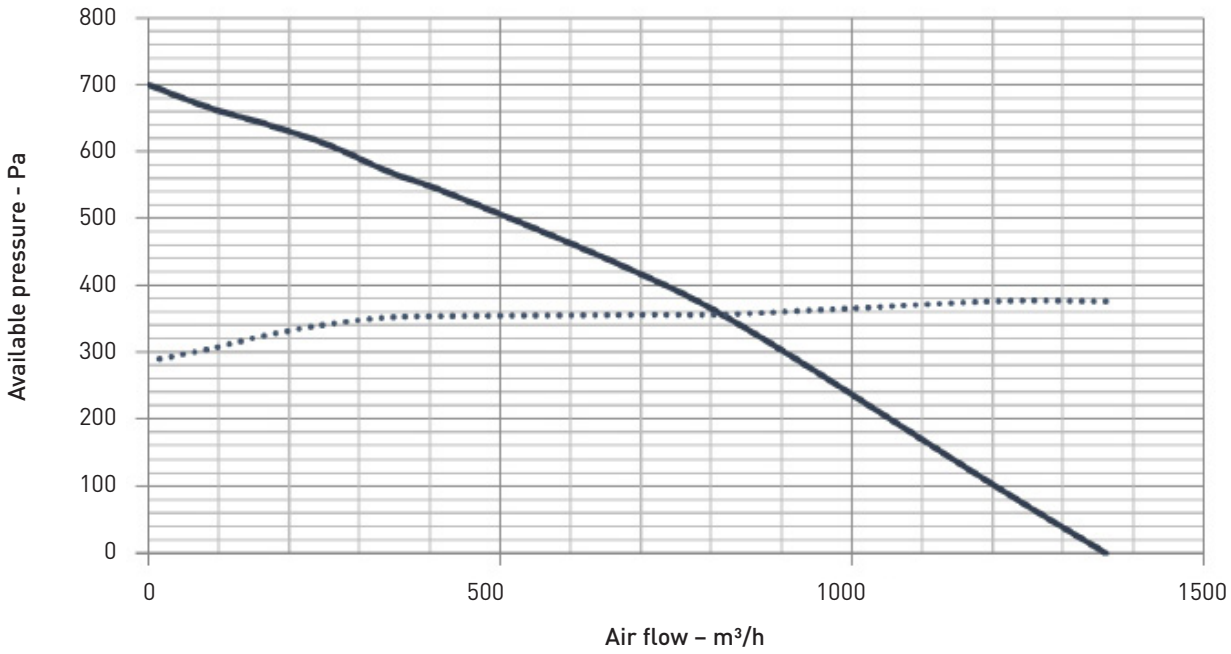
AP20704 - UVR 1000 MF HE DP

TECHNICAL DATA

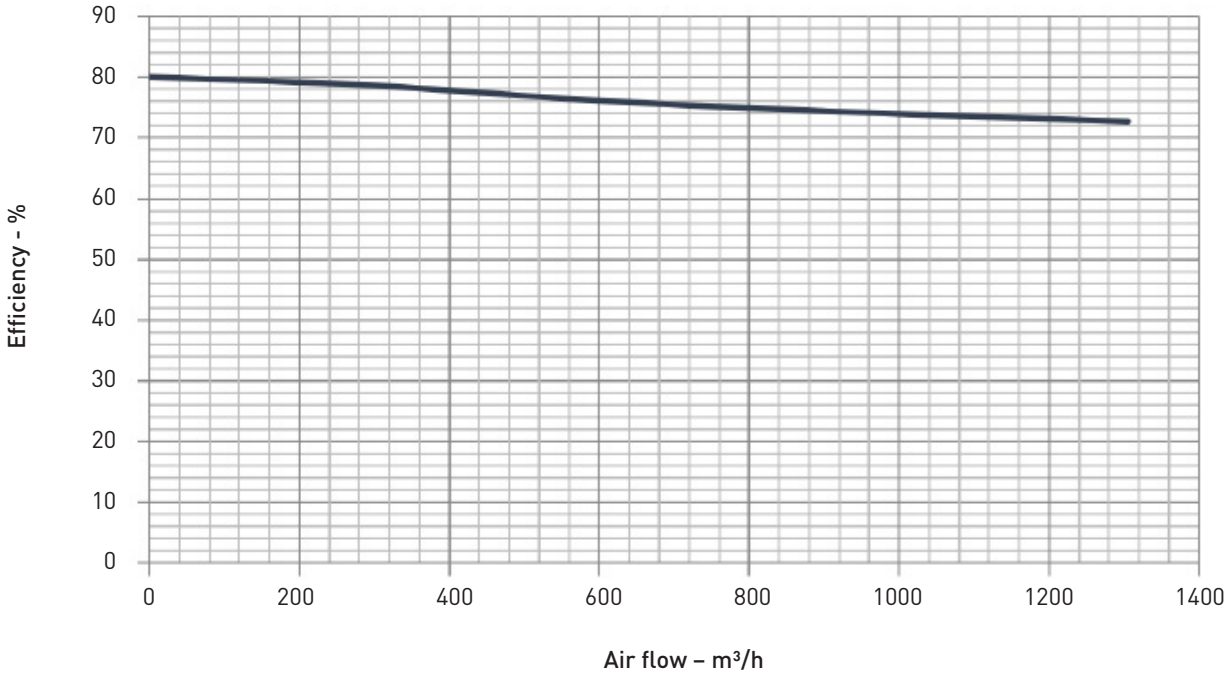
Speed	Max
Total power input	0.36 kW
Flow rate	1000 m³/h
Pressure	240

PERFORMANCE CURVES

AIR PERFORMANCE



THERMAL EFFICIENCY



Conditions refer to the following: Outdoor air 5° 72% R.H. - Indoor air 25° 28% R.H.

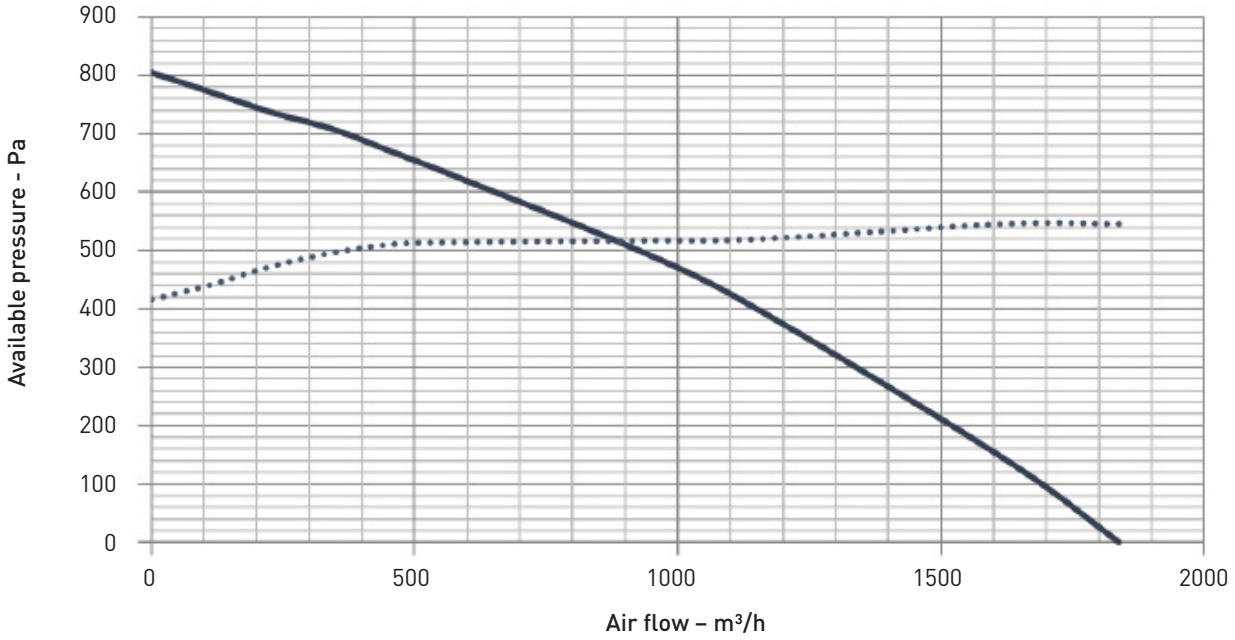
AP20706 - UVR 1500 MF HE DP

TECHNICAL DATA

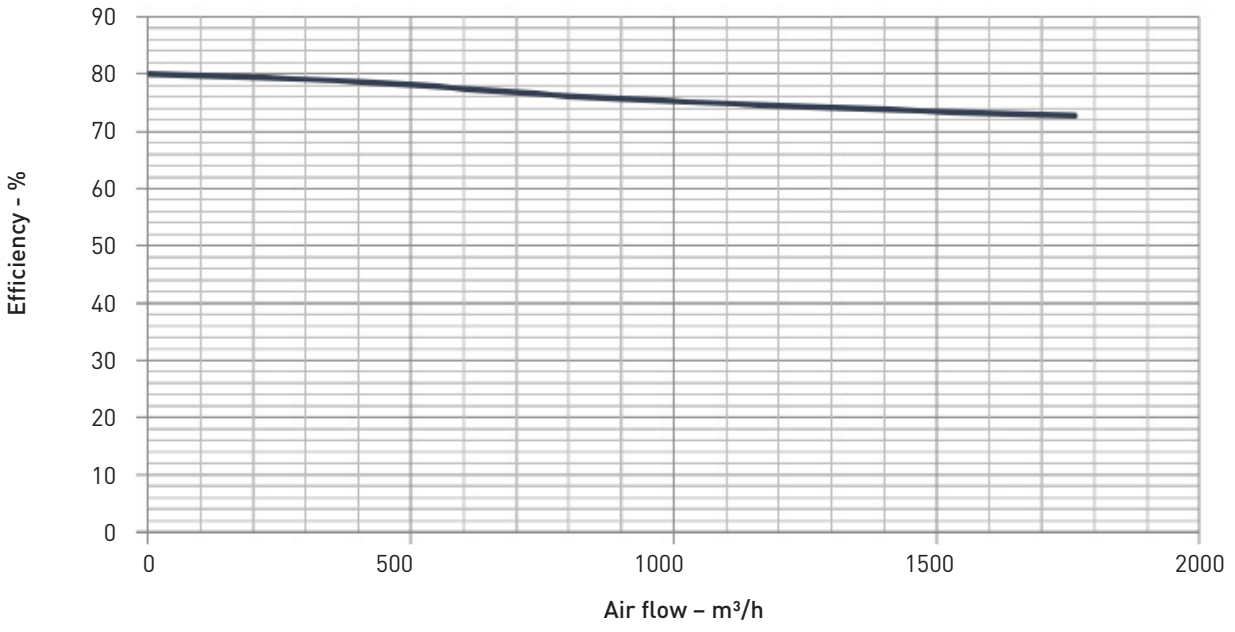
Speed	Max
Total power input	0,53 kW
Flow rate	1500 m³/h
Pressure	200 Pa

PERFORMANCE CURVES

AIR PERFORMANCE



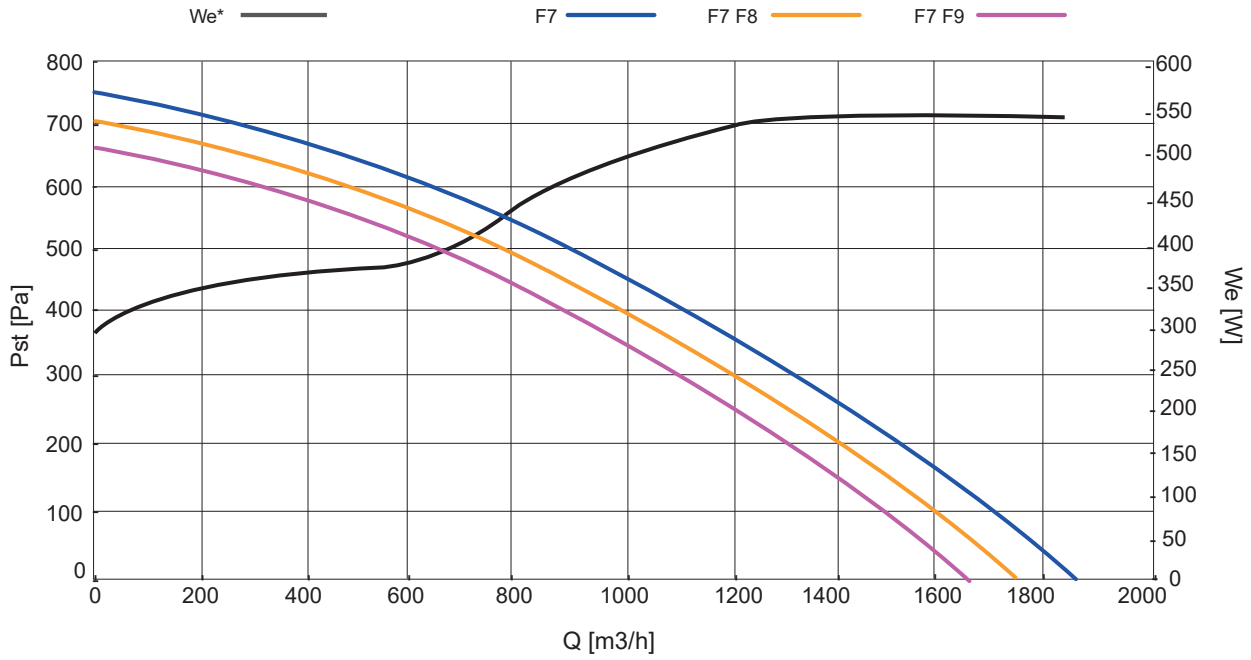
THERMAL EFFICIENCY



Conditions refer to the following: Outdoor air 5° 72% R.H. - Indoor air 25° 28% R.H.

AP20606 - UVR 1600 MF HE DP

PERFORMANCE CURVES



MAXIMUM HEAT RECOVERY THERMAL EFFICIENCY (EN 308)

Nominal flow rate @ 50 [Pa]	[m3/h]	1800	[m3/s]	0,50
Nominal flow rate @ 150 [Pa]	[m3/h]	1600	[m3/s]	0,44

NOMINAL DATA (ECODESIGN: DIRECTIVE 2009/125/EC, REGULATION NO. 1253/2014)

Nominal flow rate (qnom)	[m3/h]	1600
	[m3/s]	0,44
Electrical power input (We,eff)	[W]	1000
Internal specific fan power of ventilation components (SFPint)	[W/(m3/s)]	700
Internal specific fan power of ventilation components, 2018 limit	[W/(m3/s)]	1034
Face velocity at design flow rate	[m/s]	1,6
Nominal external pressure (Δps,ext)	[Pa]	545
Internal pressure drop of ventilation components (Δ ps,int), supply	[Pa]	169
Internal pressure drop of ventilation components (Δ ps,int), return	[Pa]	167
Heat recovery thermal efficiency (nt, dry air, ΔT 20 [°C])	[%]	76
Fan static efficiency (as per EU Regulation No. 327/2011)	[%]	49,4
Sound power on casing (LWA)	[dB(A)]	54
External leakage	max 3,5 @ -400 Pa	(EN 13141-7)
Internal leakage	max 5,5 @ +250 Pa	(EN 13141-7)

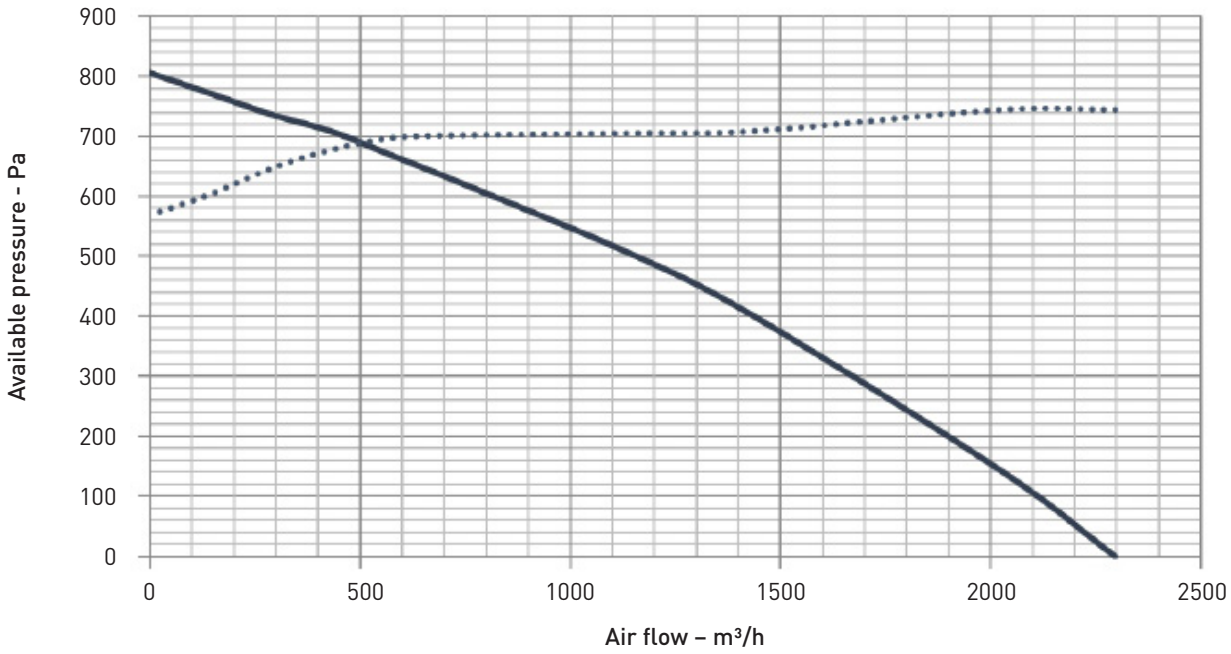
AP20708 - UVR 2000 MF HE DP

TECHNICAL DATA

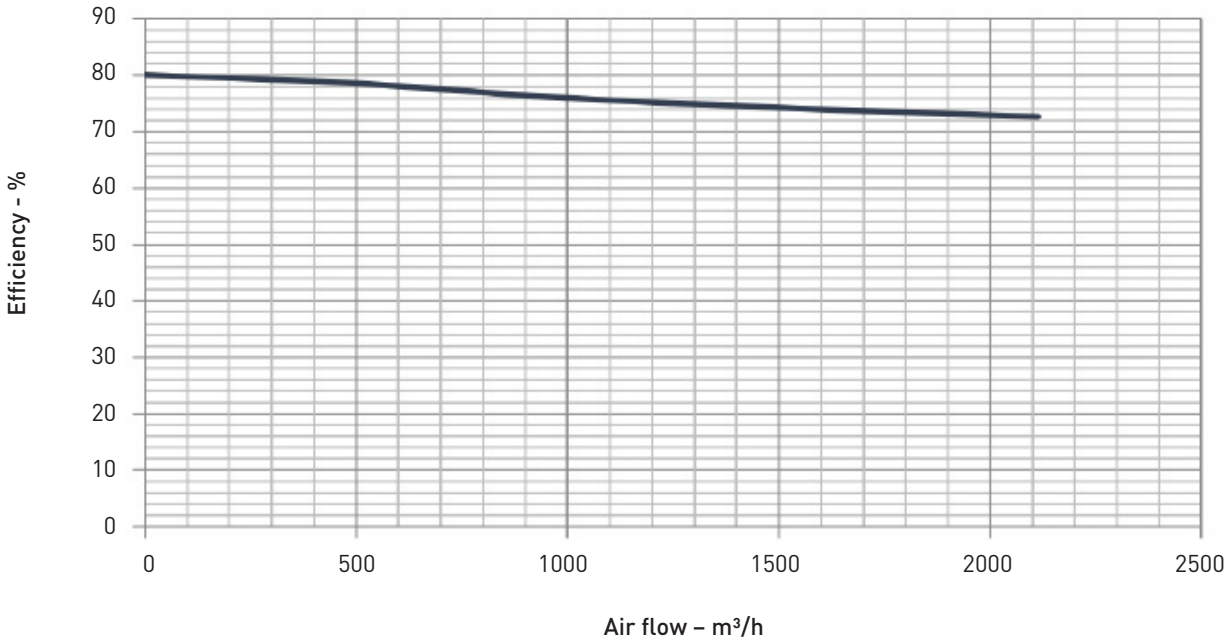
Speed	Max
Total power input	0,75 kW
Flow rate	2000 m³/h
Pressure	140 Pa

PERFORMANCE CURVES

AIR PERFORMANCE



THERMAL EFFICIENCY



Conditions refer to the following: Outdoor air 5° 72% R.H. - Indoor air 25° 28% R.H.

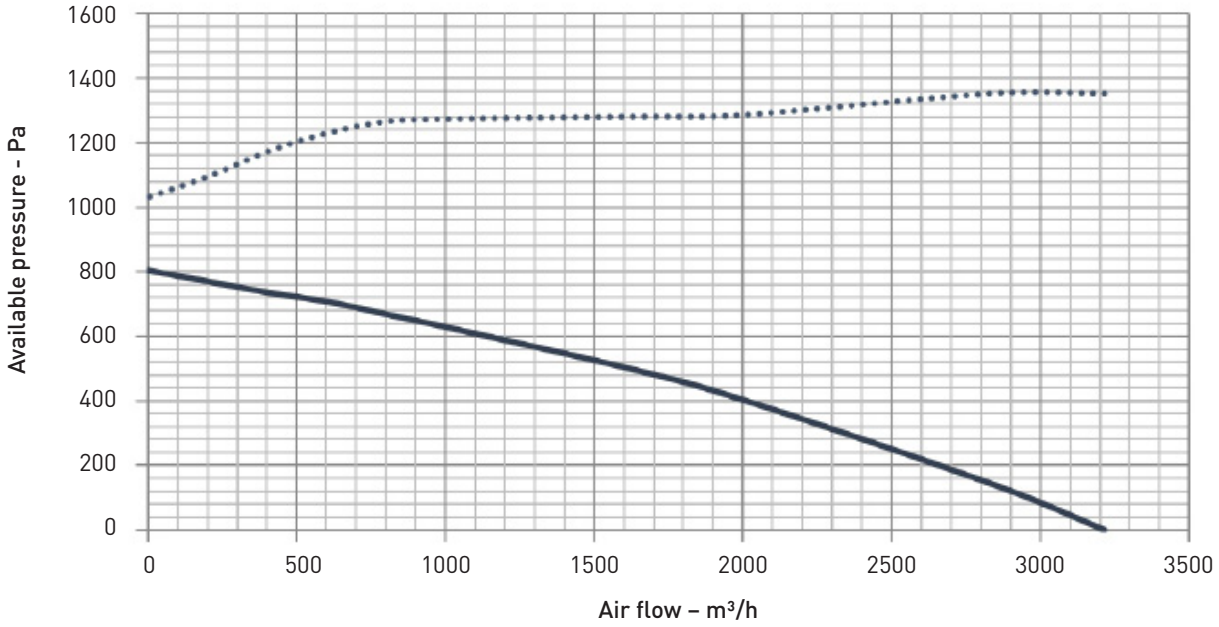
AP20710 - UVR 2500 TF HE DP

TECHNICAL DATA

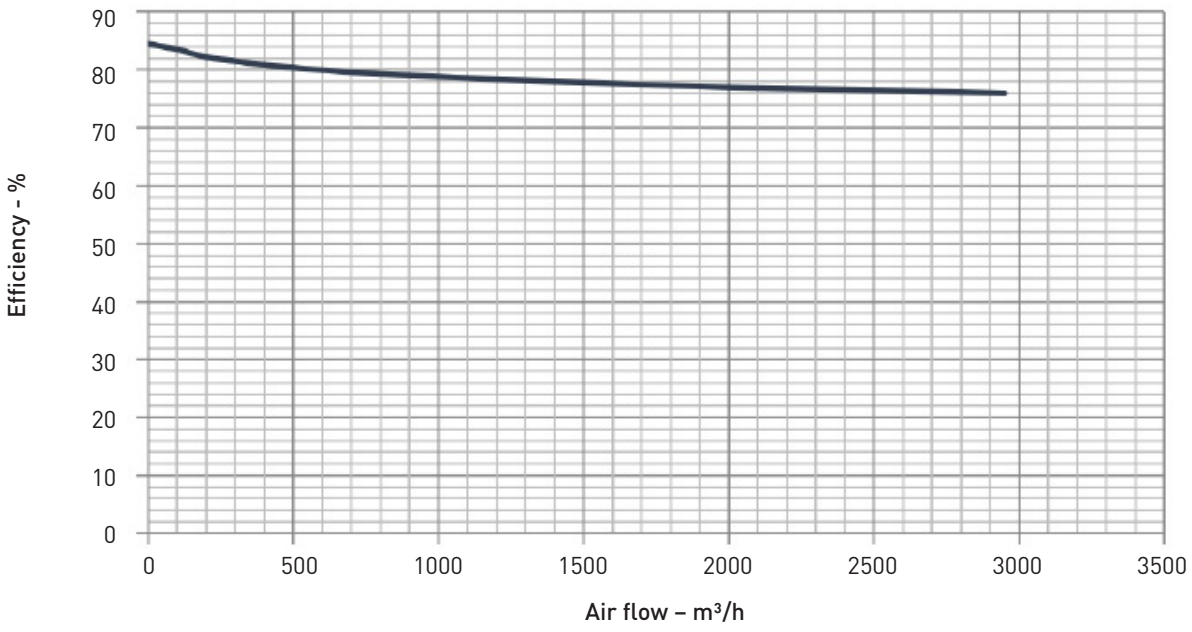
Speed	Max
Total power input	1,3 kW
Flow rate	2500 m³/h
Pressure	220 Pa

PERFORMANCE CURVES

AIR PERFORMANCE



THERMAL EFFICIENCY



Conditions refer to the following: Outdoor air 5° 72% R.H. - Indoor air 25° 28% R.H.

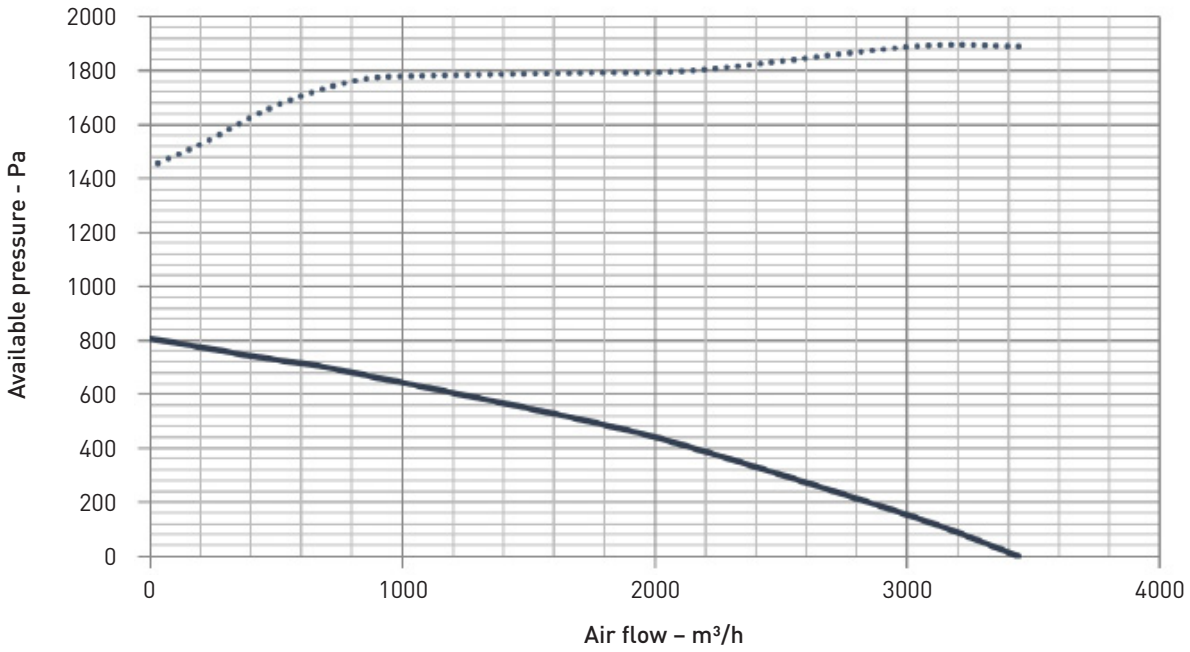
AP20712 - UVR 3000 TF HE DP

TECHNICAL DATA

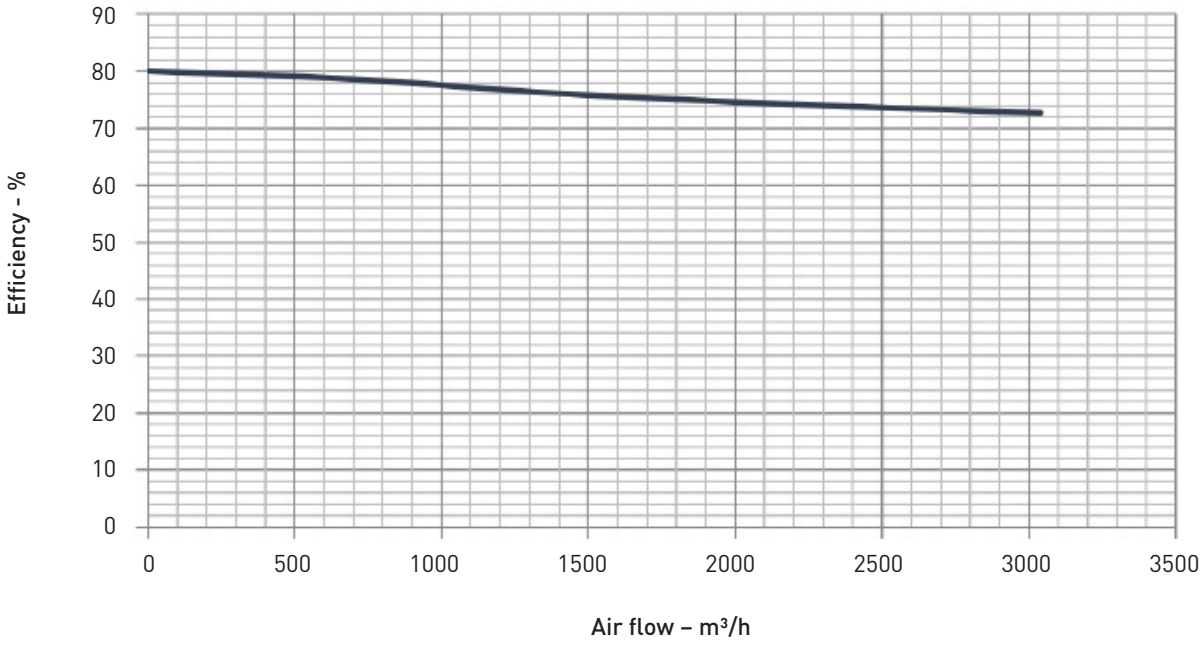
Speed	Max
Total power input	1,89 kW
Flow rate	3000 m³/h
Pressure	160 Pa

PERFORMANCE CURVES

AIR PERFORMANCE



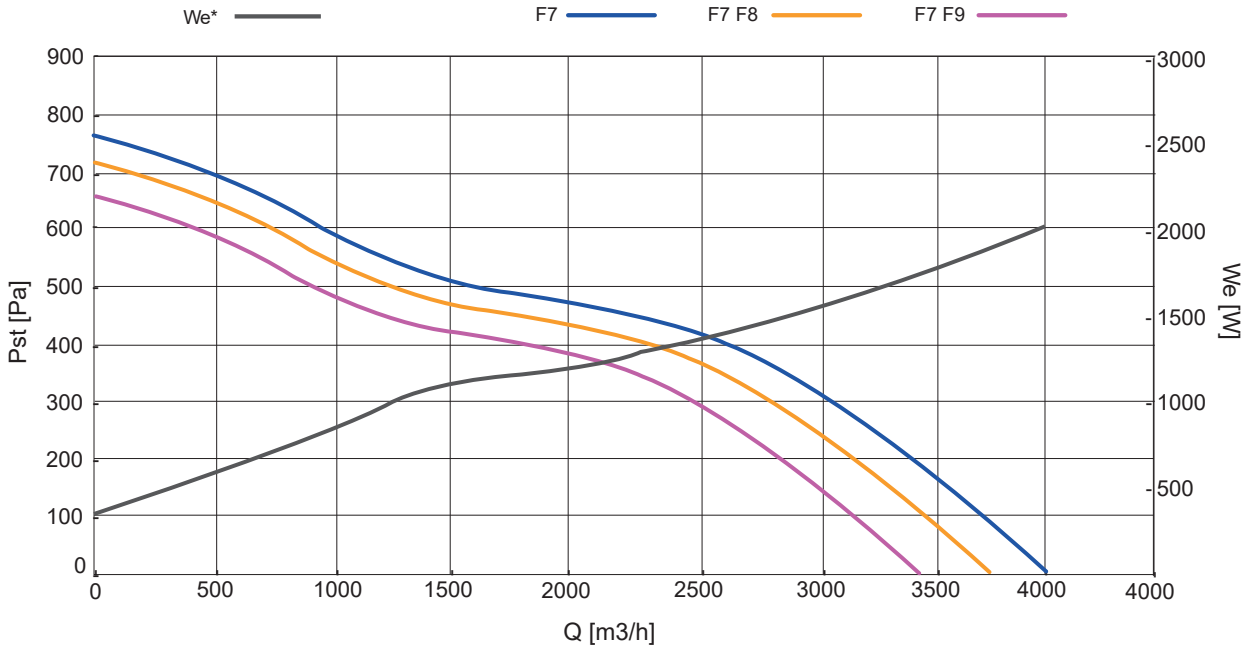
THERMAL EFFICIENCY



Conditions refer to the following: Outdoor air 5° 72% R.H. - Indoor air 25° 28% R.H.

AP20614 - UVR 3800 MF HE DP

PERFORMANCE CURVES



MAXIMUM HEAT RECOVERY THERMAL EFFICIENCY (EN 308)

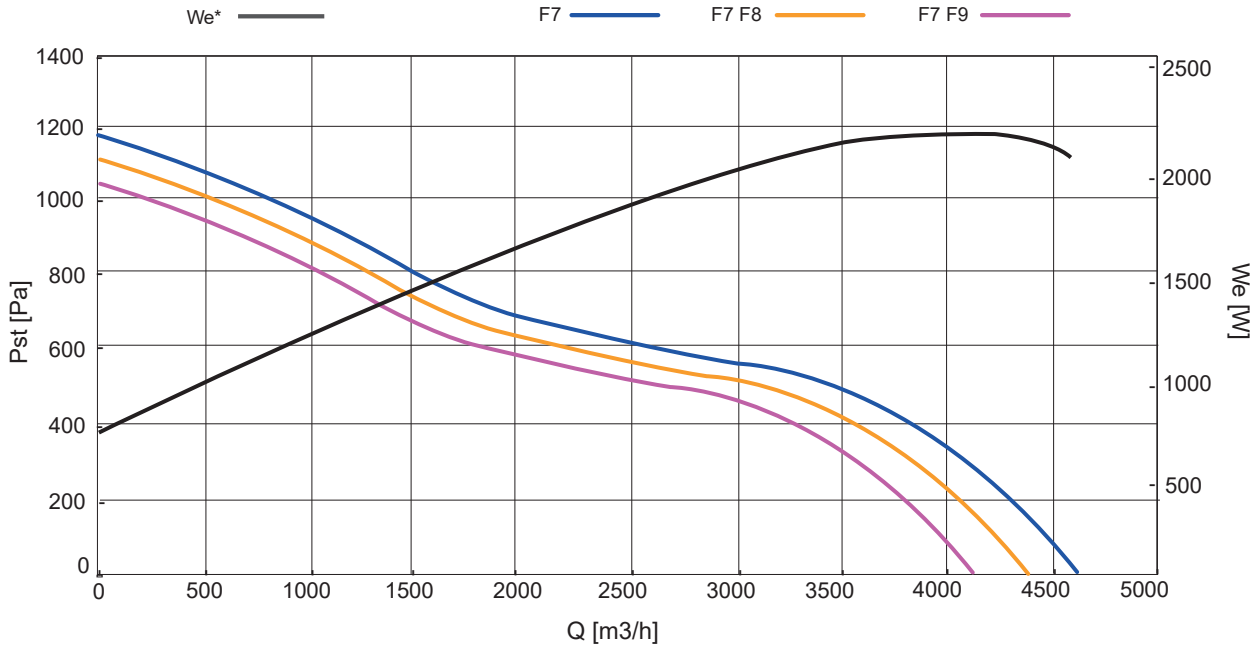
Nominal flow rate @ 50 [Pa]	[m3/h]	3800	[m3/s]	1,055
Nominal flow rate @ 150 [Pa]	[m3/h]	3500	[m3/s]	0,933

NOMINAL DATA (ECODESIGN: DIRECTIVE 2009/125/EC, REGULATION NO. 1253/2014)

Nominal flow rate (qnom)	[m3/h]	3500
	[m3/s]	0,933
Electrical power input (We,eff)	[W]	1500
Internal specific fan power of ventilation components (SFPint)	[W/(m3/s)]	1040
Internal specific fan power of ventilation components, 2018 limit	[W/(m3/s)]	1068
Face velocity at design flow rate	[m/s]	2,15
Nominal external pressure (Δps,ext)	[Pa]	538
Internal pressure drop of ventilation components (Δ ps,int), supply	[Pa]	288
Internal pressure drop of ventilation components (Δ ps,int), return	[Pa]	276
Heat recovery thermal efficiency (nt, dry air, ΔT 20 [°C])	[%]	75
Fan static efficiency (as per EU Regulation No. 327/2011)	[%]	52,8
Sound power on casing (LWA)	[dB(A)]	61
External leakage	max 3,5 @ -400 Pa	(EN 13141-7)
Internal leakage	max 5,5 @ +250 Pa	(EN 13141-7)

AP20616 - UVR 4500 MF HE DP

PERFORMANCE CURVES



MAXIMUM HEAT RECOVERY THERMAL EFFICIENCY (EN 308)

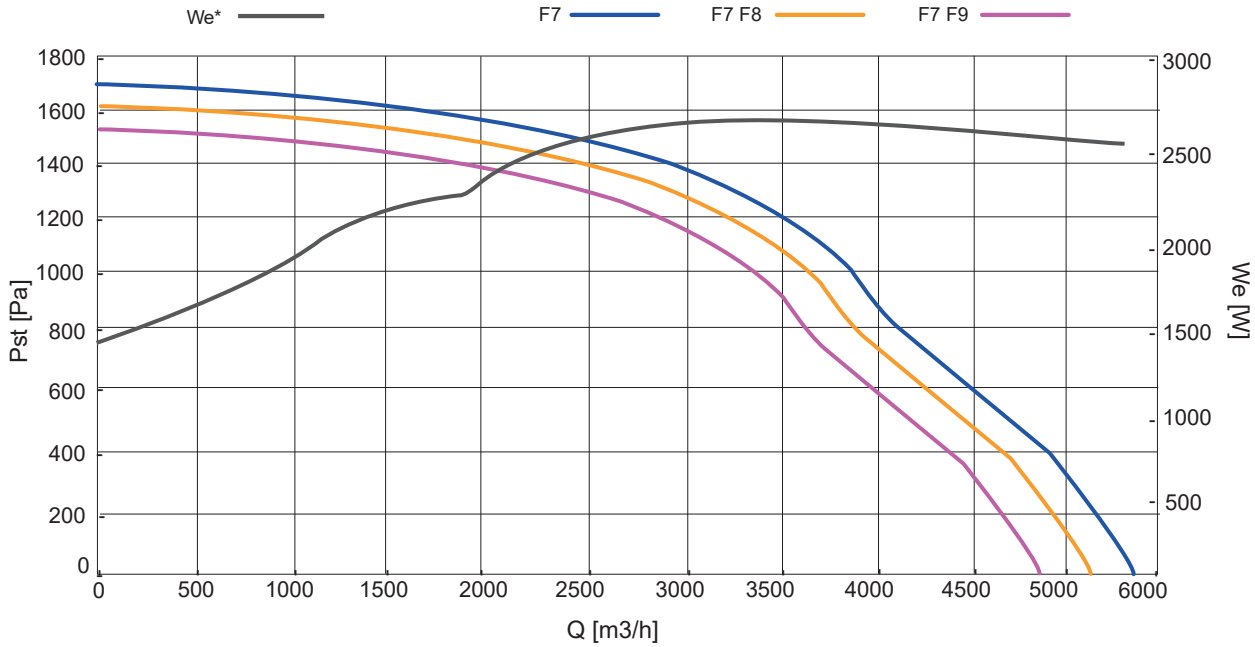
Nominal flow rate @ 50 [Pa]	[m3/h]	4500	[m3/s]	1,25
Nominal flow rate @ 150 [Pa]	[m3/h]	4300	[m3/s]	1,19

NOMINAL DATA (ECODESIGN: DIRECTIVE 2009/125/EC, REGULATION NO. 1253/2014)

Nominal flow rate (qnom)	[m3/h]	4300
	[m3/s]	1,19
Electrical power input (We,eff)	[W]	2000
Internal specific fan power of ventilation components (SFPint)	[W/(m3/s)]	1069
Internal specific fan power of ventilation components, 2018 limit	[W/(m3/s)]	1071
Face velocity at design flow rate	[m/s]	2,5
Nominal external pressure (Δps,ext)	[Pa]	500
Internal pressure drop of ventilation components (Δ ps,int), supply	[Pa]	230
Internal pressure drop of ventilation components (Δ ps,int), return	[Pa]	250
Heat recovery thermal efficiency (nt, dry air, ΔT 20 [°C])	[%]	78
Fan static efficiency (as per EU Regulation No. 327/2011)	[%]	44,5
Sound power on casing (LWA)	[dB(A)]	61
External leakage	max 3,5 @ -400 Pa	(EN 13141-7)
Internal leakage	max 5,5 @ +250 Pa	(EN 13141-7)

AP20619 - UVR 5400 TF HE DP

PERFORMANCE CURVES



MAXIMUM HEAT RECOVERY THERMAL EFFICIENCY (EN 308)

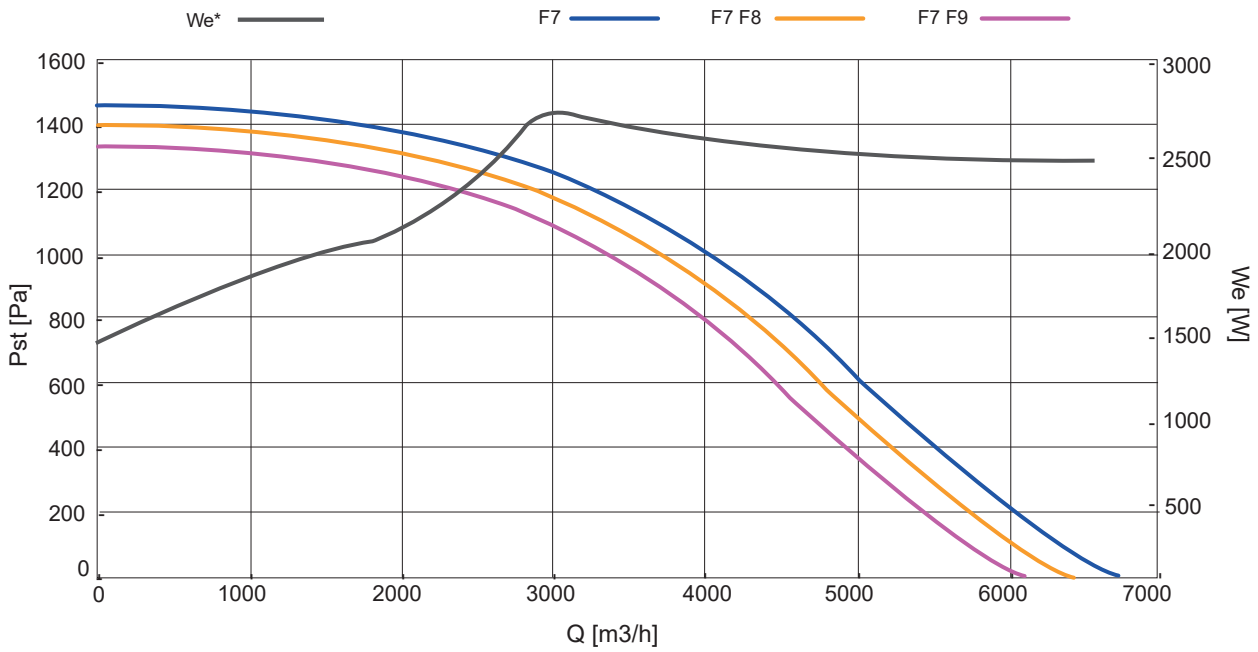
Nominal flow rate @ 50 [Pa]	[m3/h]	5500	[m3/s]	1,52
Nominal flow rate @ 150 [Pa]	[m3/h]	5350	[m3/s]	1,48

NOMINAL DATA (ECODESIGN: DIRECTIVE 2009/125/EC, REGULATION NO. 1253/2014)

Nominal flow rate (qnom)	[m3/h]	5350
	[m3/s]	1,48
Electrical power input (We,eff)	[W]	2200
Internal specific fan power of ventilation components (SFPint)	[W/(m3/s)]	1025
Internal specific fan power of ventilation components, 2018 limit	[W/(m3/s)]	1035
Face velocity at design flow rate	[m/s]	2,1
Nominal external pressure (Δps,ext)	[Pa]	550
Internal pressure drop of ventilation components (Δ ps,int), supply	[Pa]	175
Internal pressure drop of ventilation components (Δ ps,int), return	[Pa]	180
Heat recovery thermal efficiency (nt, dry air, ΔT 20 [°C])	[%]	77,4
Fan static efficiency (as per EU Regulation No. 327/2011)	[%]	51
Sound power on casing (LWA)	[dB(A)]	71
External leakage	max 3,5 @ -400 Pa	(EN 13141-7)
Internal leakage	max 5,5 @ +250 Pa	(EN 13141-7)

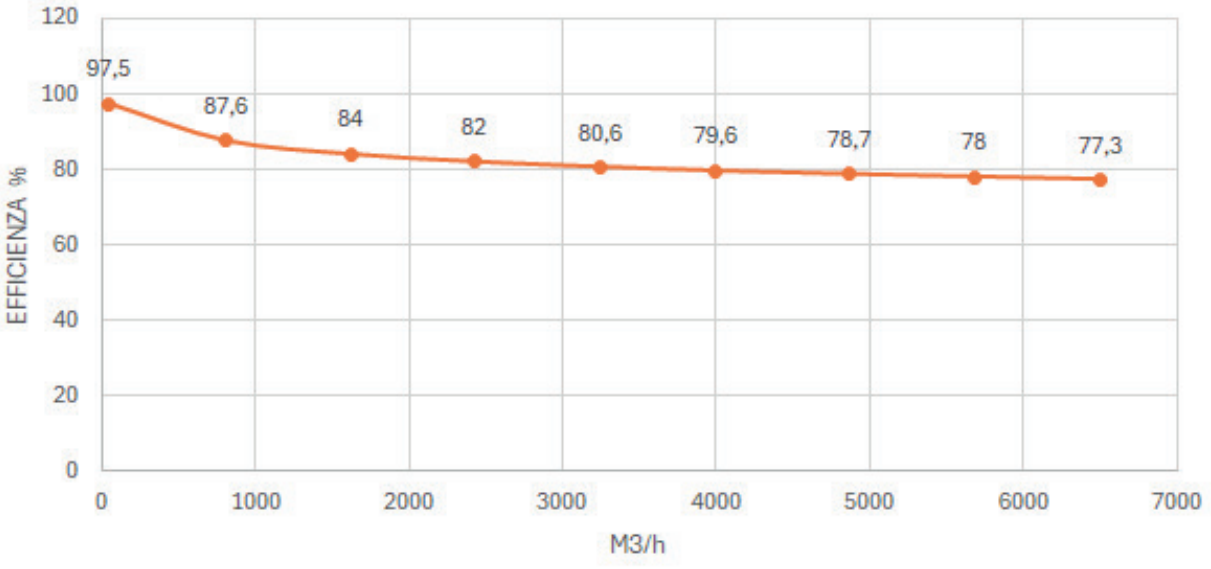
AP20621 - UVR 6500 TF HE DP

PERFORMANCE CURVES



* Values refer to two fans

HEAT EXCHANGER EFFICIENCY



MAXIMUM HEAT RECOVERY THERMAL EFFICIENCY (EN 308)

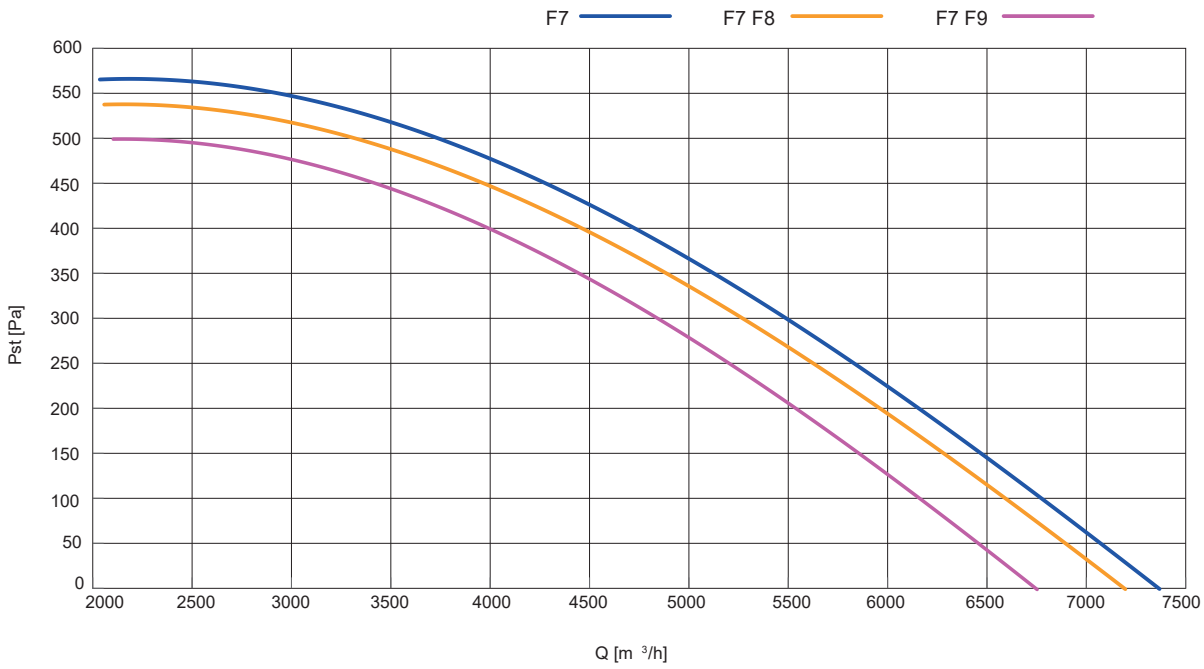
Nominal flow rate @ 50 [Pa]	[m3/h]	6500	[m3/s]	1,805
Nominal flow rate @ 150 [Pa]	[m3/h]	6200	[m3/s]	1,722

NOMINAL DATA (ECODESIGN: DIRECTIVE 2009/125/EC, REGULATION NO. 1253/2014)

Nominal flow rate (qnom)	[m3/h]	6200
	[m3/s]	1,722
Electrical power input (We,eff)	[W]	5000
Internal specific fan power of ventilation components (SFPint)	[W/(m3/s)]	983
Internal specific fan power of ventilation components, 2018 limit	[W/(m3/s)]	1000
Face velocity at design flow rate	[m/s]	2,5
Nominal external pressure (Δps,ext)	[Pa]	800
Internal pressure drop of ventilation components (Δ ps,int), supply	[Pa]	200
Internal pressure drop of ventilation components (Δ ps,int), return	[Pa]	240
Heat recovery thermal efficiency (nt, dry air, ΔT 20 [°C])	[%]	77,8
Fan static efficiency (as per EU Regulation No. 327/2011)	[%]	53.3
Sound power on casing (LWA)	[dB(A)]	64
External leakage	max 3,5 @ -400 Pa	(EN 13141-7)
Internal leakage	max 5,5 @ +250 Pa	(EN 13141-7)
Website	www.fantinicosmi.it	
In accordance with Regulation (EU) No. 1253/2014	2018 compliant product	

AP20623 - UVR 7100 TF HE DP

PERFORMANCE CURVES



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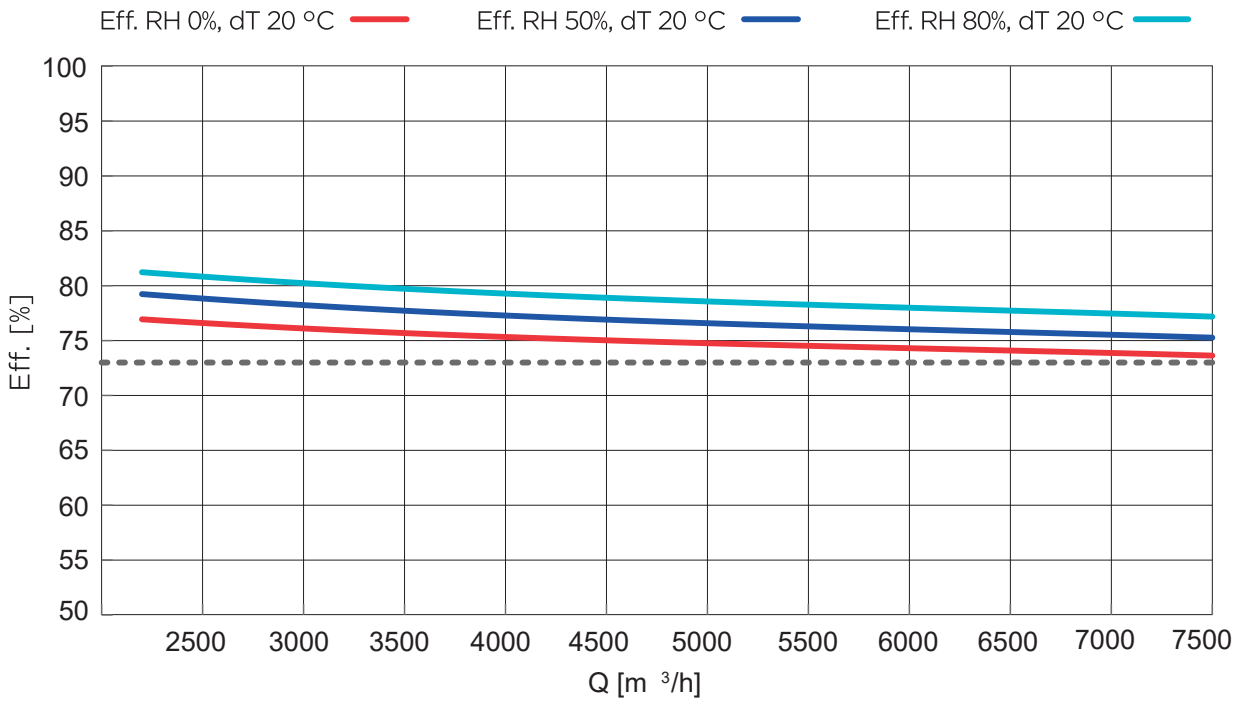
HEAT EXCHANGER EFFICIENCY



MAXIMUM HEAT RECOVERY THERMAL EFFICIENCY (EN 308)

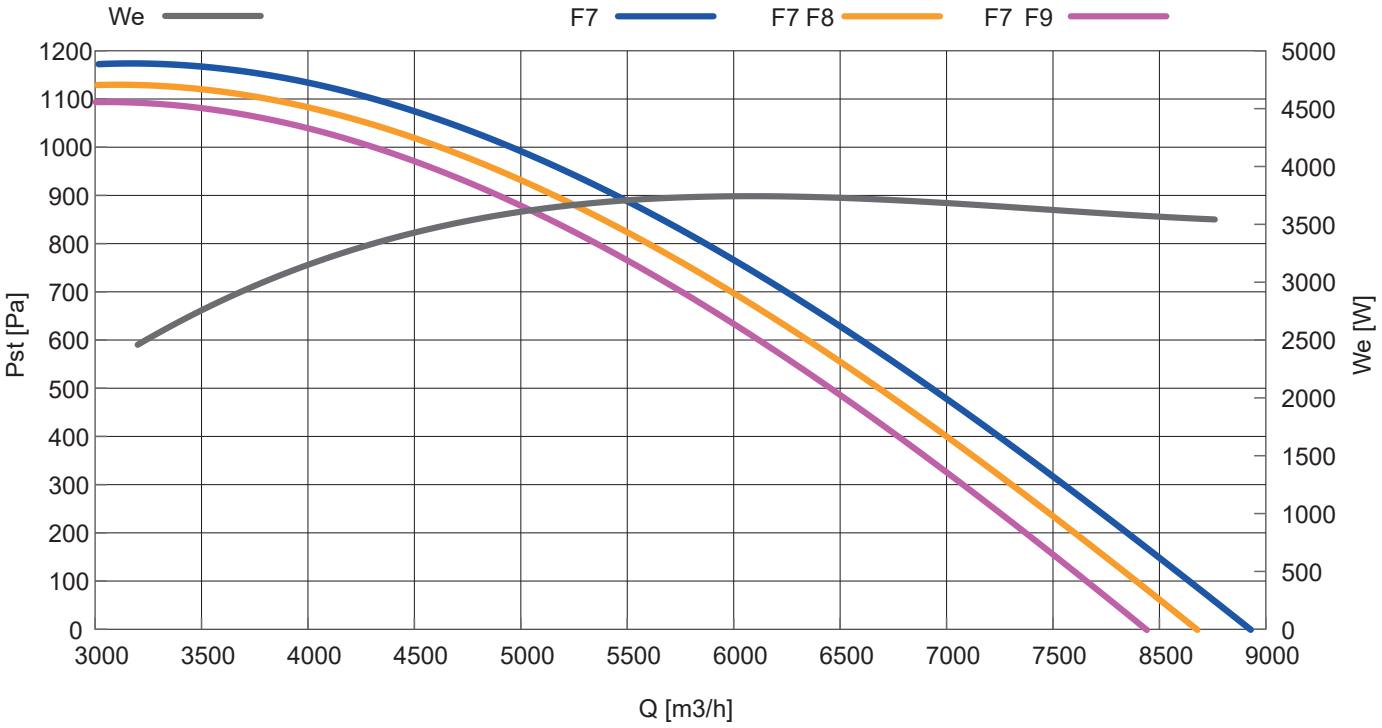
Nominal flow rate @ 50 [Pa]	[m3/h]	7100	[m3/s]	1,972
Nominal flow rate @ 150 [Pa]	[m3/h]	6750	[m3/s]	1,875

NOMINAL DATA (ECODESIGN: DIRECTIVE 2009/125/EC, REGULATION NO. 1253/2014)

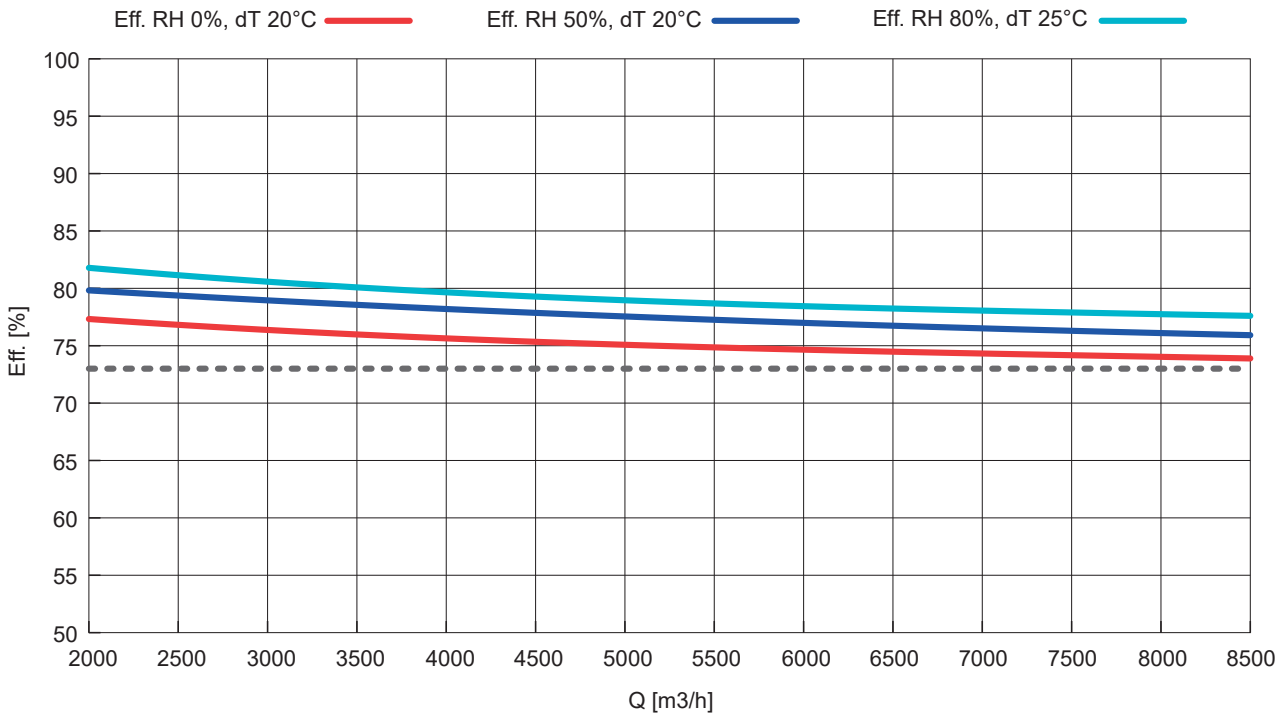
Nominal flow rate (qnom)		
Volt	[V]	400 ± 15%
Phase	[-]	3~
Frequency	[Hz]	50/60
Inom1	[A]	6 × 2
Potnom1	[W]	2230 × 2
Vnom1	[rpm]	2087

AP20625 - UVR 8500 TF HE DP

PERFORMANCE CURVES



HEAT EXCHANGER EFFICIENCY



MAXIMUM HEAT RECOVERY THERMAL EFFICIENCY (EN 308)

Nominal flow rate @ 50 [Pa]	[m3/h]	8700	[m3/s]	2,416
Nominal flow rate @ 150 [Pa]	[m3/h]	8300	[m3/s]	2,305

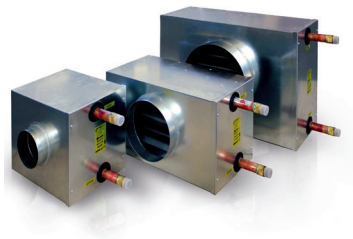
NOMINAL DATA (ECODESIGN: DIRECTIVE 2009/125/EC, REGULATION NO. 1253/2014)

Manufacturer	Fantini Cosmi SpA	
Item No.	AP20625	
Model	UVR 8500 MF HE DP	
Type of ventilation unit	UVNR, UVB	
Type of motor drive	MSD (multi-speed drive)	
Type of heat recovery unit	air/air heat recovery system	
Nominal flow rate (qnom)	[m³/h]	7000
	[m³/s]	1,944
Electrical power input (We,tot)	[W]	4000
Internal specific fan power of ventilation components (SFPint)	[W/(m³/s)]	874
Internal specific fan power of ventilation components, 2018 limit	[W/(m³/s)]	880
Face velocity at design flow rate	[m/s]	2,5
Nominal external pressure (Δps,ext)	[Pa]	445
Internal pressure drop of ventilation components (Δ ps,int), supply	[Pa]	273
Internal pressure drop of ventilation components (Δ ps,int), return	[Pa]	278
Heat recovery thermal efficiency (nt, dry air, ΔT 20 [°C])	[%]	76,6
Fan static efficiency (as per EU Regulation No. 327/2011)	[%]	66,2
Sound power on casing (LWA)	[dB]	79
External leakage	max 3,5 @ -400 Pa	(EN 13141-7)
Internal leakage	max 5,5 @ +250 Pa	(EN 13141-7)
Website	www.fantinicosmi.it	

ACCESSORIES

POST-HEATING WATER COIL MODULE

- Pressed-bent galvanized steel box
- Circular-section inlet/outlet connections
- 2 rows
- U.R. 50%
- Air inlet temperature: 10 °C



Water inlet/outlet temperature: 45/40 °C

COD.	MOD.	H2O [m3/h]	Thermal output (kW)	Air outlet temp. (°C)	Outlet R.H. (%)	Air pressure drop (Pa)	Water pressure drop (kPa)	Ø conn.
AP20102	BAT_AC-2_05-07	0,3	2	21,8	23	35	3,9	¾"
		0,4	2,8	21,8	23	62	7,3	
AP20104	BAT_AC-2_12	0,7	4,9	21,8	23	55	9,6	¾"
AP20106	BAT_AC-2_16	0,9	6,9	22,5	22	90	18,8	¾"
AP20108	BAT_AC-2_2300-2800	1,4	9,5	21,9	22	59	12,1	¾"
		1,7	11,5	21,8	22	82	17,3	
AP20112	BAT_AC-2_3200	1,9	13,4	22,1	23	102	23,4	¾"
AP20114	BAT_AC-2_38-45	2,3	15,6	21,8	23	100	11,3	1"
		2,7	18,5	21,8	23	133	15,6	
AP20116	BAT_AC-2_54	3,3	22,2	21,8	23	45	13,8	1"
AP20118	BAT_AC-2_65	3,6	26,9	21,9	23	62	20,1	1"
AP20121	BAT_AC-2_71-85	4,3	29,1	21,8	23	50	19,3	1¼"
		4,9	33,6	21,4	23	68	25,4	

* available for quantities and delivery terms to be agreed

Water inlet/outlet temperature: 60/55 °C

COD.	MOD.	H2O [m3/h]	Thermal output (kW)	Air outlet temp. (°C)	Outlet R.H. (%)	Air pressure drop (Pa)	Water pressure drop (kPa)	Ø conn.
AP20102	BAT_AC-2_05-07	0,3	3,1	28,1	15,7	35	8,7	¾"
		0,4	4,3	27,9	15,8	63	16,4	
AP20104	BAT_AC-2_12	0,7	7,4	27,9	15,9	56	21,4	¾"
AP20106	BAT_AC-2_16	0,9	8,3	25	18,8	90	26,7	¾"
AP20108	BAT_AC-2_2300-2800	1,4	12,8	26	17,7	59	21,1	¾"
		1,7	14,7	25	18,8	82	27,4	
AP20112	BAT_AC-2_3200	1,9	15,4	23,8	20,3	102	29,9	¾"
AP20114	BAT_AC-2_38-45	2,3	23,9	28,1	15,6	101	25,6	1"
		2,7	24,2	25,4	18,4	133	26,1	
AP20116	BAT_AC-2_54	3,3	30,8	26,4	17,3	46	25,6	1"
AP20118	BAT_AC-2_65	3,6	33,4	24,8	19,2	62	29,8	1"
AP20121	BAT_AC-2_71-85	4,3	36,6	24,8	19,1	50	29,5	1¼"
		4,9	36,8	22,4	22,2	68	29,7	

* available for quantities and delivery terms to be agreed

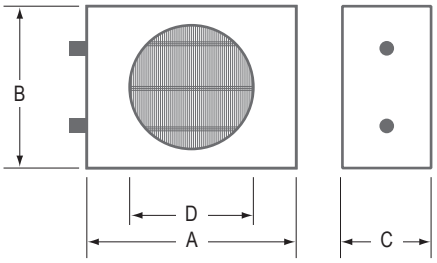
Water inlet/outlet temperature: 80/70 °C

COD.	MOD.	H2O [m3/h]	Thermal output (kW)	Air outlet temp. (°C)	Outlet R.H. (%)	Air pressure drop (Pa)	Water pressure drop (kPa)	Ø conn.
AP20102	BAT_AC-2_05-07	0,3	4,2	34	11	36	3,9	¾"
		0,4	5,8	34	11	63	7,5	
AP20104	BAT_AC-2_12	0,7	10	34	11	56	9,8	¾"
AP20106	BAT_AC-2_16	0,9	14,1	35,3	10,2	91	19	¾"
AP20108	BAT_AC-2_2300-2800	1,4	19,5	34,4	10,8	59	12,3	¾"
		1,7	23,4	34	11	83	17,5	
AP20112	BAT_AC-2_3200	1,9	27,4	34,6	10,6	103	23,7	¾"
AP20114	BAT_AC-2_38-45	2,3	32	34,2	10,9	101	11,6	1"
		2,7	37,8	34,1	10,9	135	16	
AP20116	BAT_AC-2_54	3,3	44,8	33,8	11,1	46	13,7	1"
AP20118	BAT_AC-2_65	3,6	54,6	34,1	10,9	63	20	1"
AP20121	BAT_AC-2_71-85	4,3	58,9	33,8	11,1	51	19,1	1¼"
		4,9	69,6	33,5	11,3	69	26,4	

* available for quantities and delivery terms to be agreed

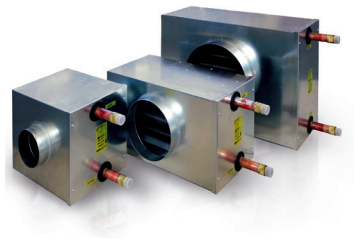
DIMENSIONS (mm)

	mm			
MODEL	A	B	C	ØD
BAT_AC-2_05-07	410	350	300	150
BAT_AC-2_12	620	350	300	180
BAT_AC-2_16	620	350	300	250
BAT_AC-2_2300-2800	790	410	300	315
BAT_AC-2_3200	790	410	300	350
BAT_AC-2_38-45	790	530	300	350
BAT_AC-2_54	1170	650	400	350
BAT_AC-2_65	1170	650	400	450
BAT_AC-2_71-85	1100	1100	400	600



POST-COOLING WATER COIL MODULE

- Pressed-bent galvanized steel box
- Circular-section inlet/outlet connections
- 4 rows
- U.R. 60%
- Water inlet/outlet temperature: 7/12 °C
- Air inlet/outlet temperature: 30/20 °C
- They can be supplied with hot water to operate as heating coils

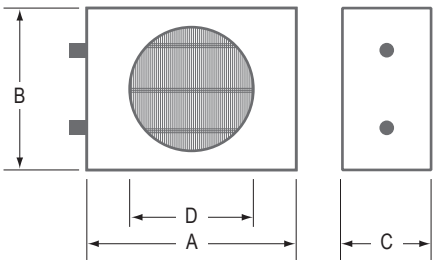


COD.	MOD.	H2O [m3/h]	Thermal output (kW)	Outlet R.H. (%)	Air pressure drop (Pa)	Water pressure drop (kPa)	Ø conn.
AP20202	BAT_AF-4_05-07	0,2	2,9	89	47	11,1	½"
		0,2	4,1	88	83	21,1	
AP20204	BAT_AF-4_12	0,6	6,9	89	74	10,9	½"
AP20206	BAT_AF-4_16	0,8	9,4	88	119	18,7	½"
AP20208	BAT_AF-4_23	1,1	13,5	88	117	17,5	¾"
AP20212	BAT_AF-4_2800	1,4	16,2	89	113	12,9	¾"
AP20214	BAT_AF-4_3200	1,6	18,8	88	140	16,6	¾"
AP20216	BAT_AF-4_38-45	1,9	22	89	118	12,5	1"
		2,3	26,4	88	156	17,1	
AP20218	BAT_AF-4_54	2,9	31,5	88	60	13,3	1¼"
AP20221	BAT_AF-4_65	3,5	38,5	88	82	18,7	1¼"
AP20223	BAT_AF-4_71-85	3,7	41,5	88	65	15	1¼"
		4,6	50,3	88	88	21	

* available for quantities and delivery terms to be agreed

DIMENSIONS (mm)

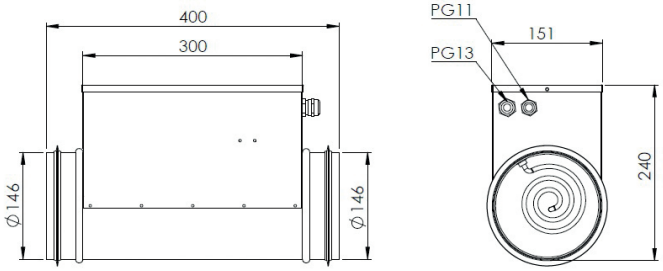
	mm			
MODEL	A	B	C	ØD
BAT_AF-4_05-07	410	350	300	150
BAT_AF-4_12	620	350	300	180
BAT_AF-4_16	620	350	300	250
BAT_AF-4_23	670	410	300	315
BAT_AF-4_2800	790	410	300	315
BAT_AF-4_3200	790	410	300	350
BAT_AF-4_38-45	790	530	300	350
BAT_AF-4_54	1170	650	400	350
BAT_AF-4_65	1170	650	400	450
BAT_AF-4_71-85	1100	1100	400	600



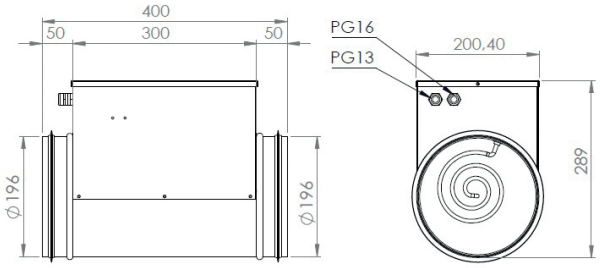
ELECTRIC PRE- AND POST-HEATING HEATERS

COD.	MOD.	V~	Hz	IP	Thermal output (W)	Ø conn. nominal
AP19431	BE 150-2	230	50	40	2000	150 mm
AP19432	BE 200-3	230	50	40	3000	200 mm
AP19433	BE 250-4	230	50	40	4000	250 mm
AP19435	BE 315-4	230	50	40	4000	315 mm
AP19437	BE 355-6	230	50	40	6000	355 mm

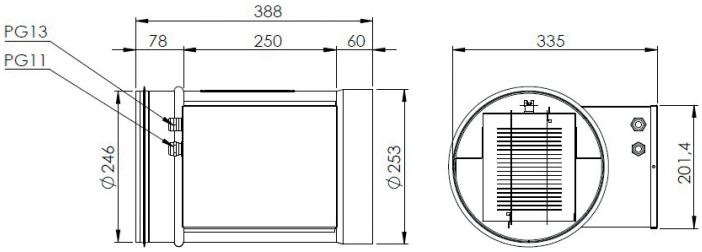
DIMENSIONS (mm)



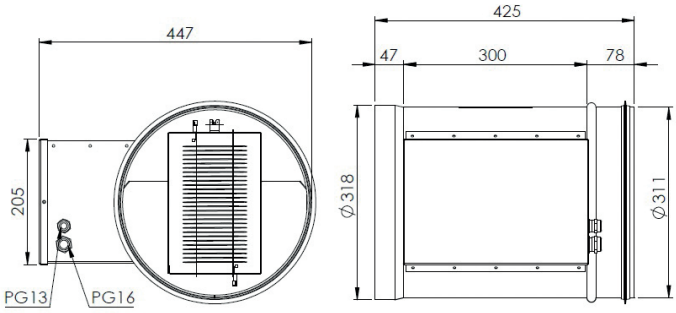
AP19431



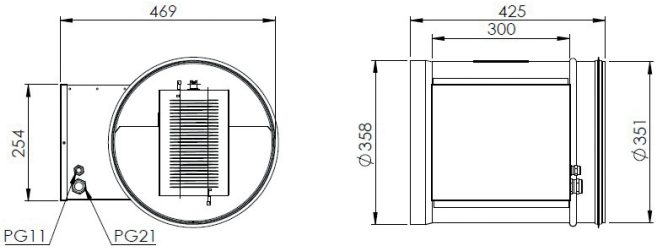
AP19432



AP19433



AP19435



AP19437