



APPLICATION

Roof fans, exhaust RF/EC are designed for ventilation systems of buildings with low levels of air pollution.

They are used:

- in exhaust systems of residential buildings,
- supermarkets, industrial halls, workshops, warehouses,
- toilets, garages, parking lots, outhouse.

CONSTRUCTION

- rotors with backward blades are made of plastic,
- the base, upper bowl and other components are made of aluminum sheet,
- the protective mesh is galvanized,
- the fans are designed for vertical work,
- suitable for mounting on flat roofs,
- working temperature to +60°C, depending on model.

MOTOR

- power supply - single-phase 230V, 50Hz or three-phase 400V,
- EC motor,
- 0-10VDC control input, which enables smooth rotation control,
- insulation class B (models 125/L, 125/H, 160/L and 250/L),
- insulation class F (models 125/E, 160/H, 200, 250/H, 315S and 315T),
- degree of protection IP44 (models 125/L, 125/H, 160/L and 250/L),
- degree of protection IP54 (models 125/E, 160/H, 200, 250/H, 315S and 315T).



Protective mesh



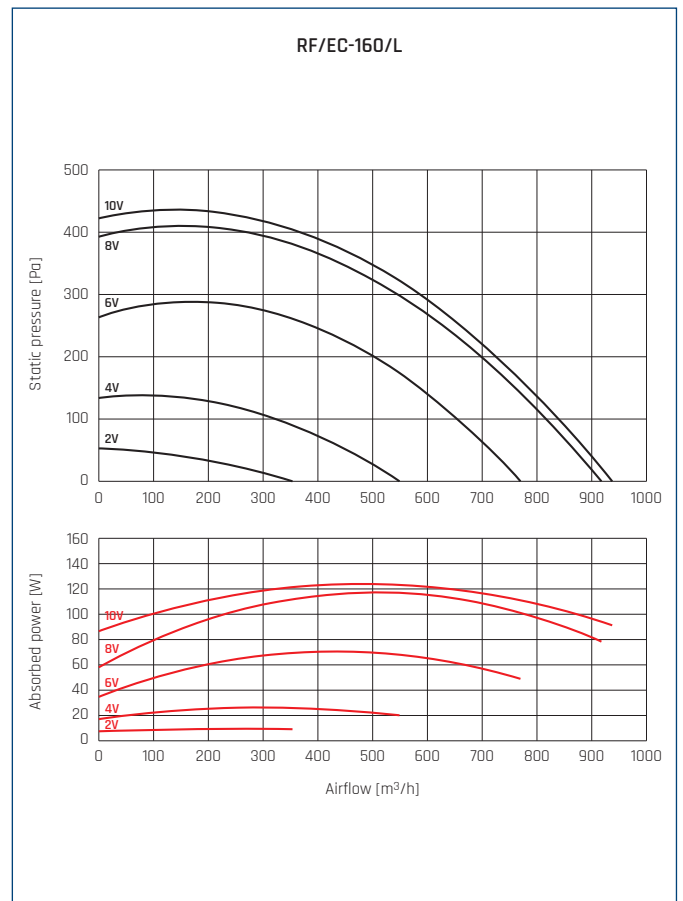
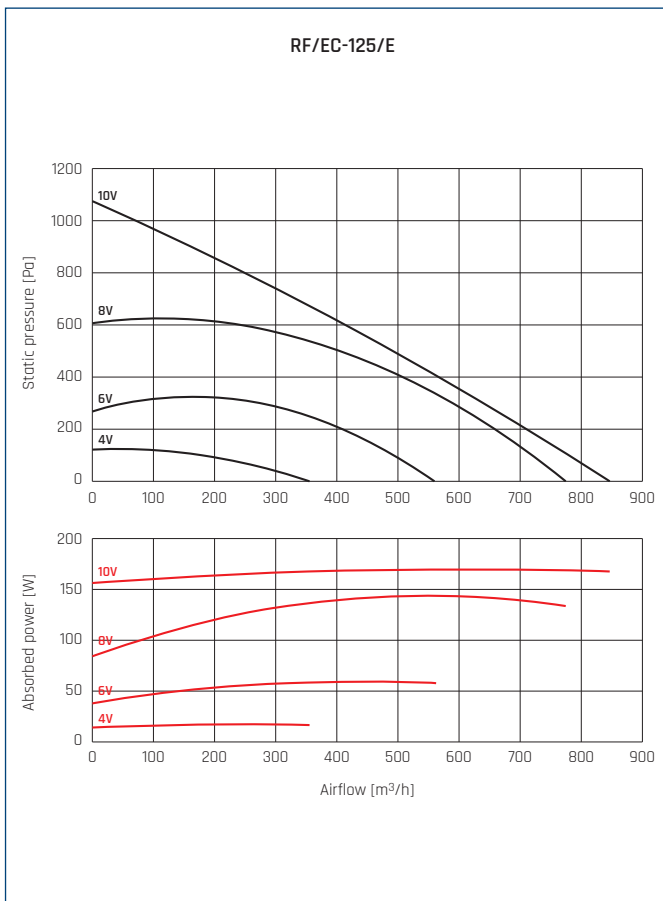
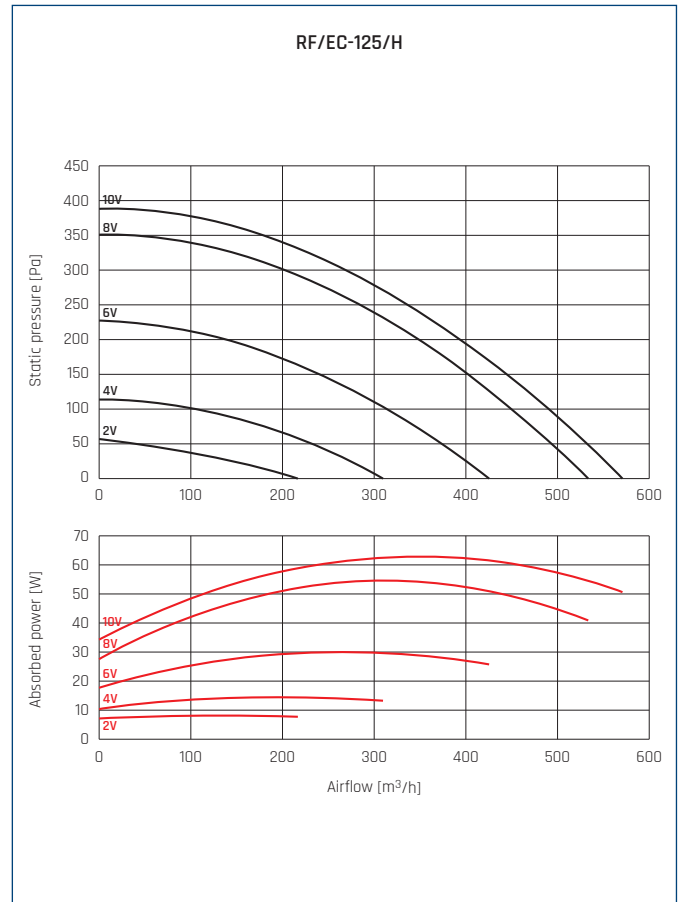
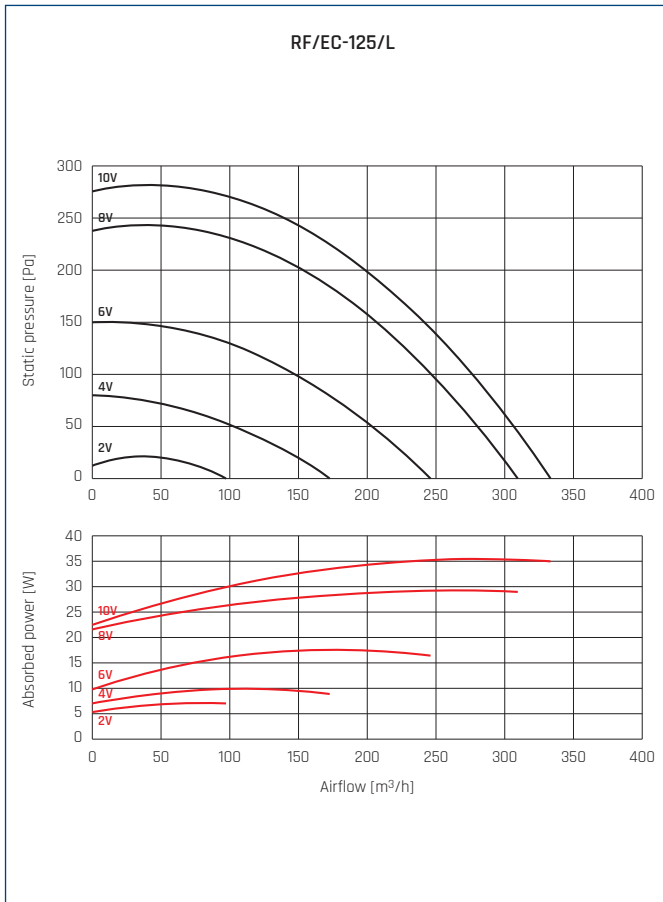
Easy access to the terminal box

TECHNICAL CHARACTERISTICS

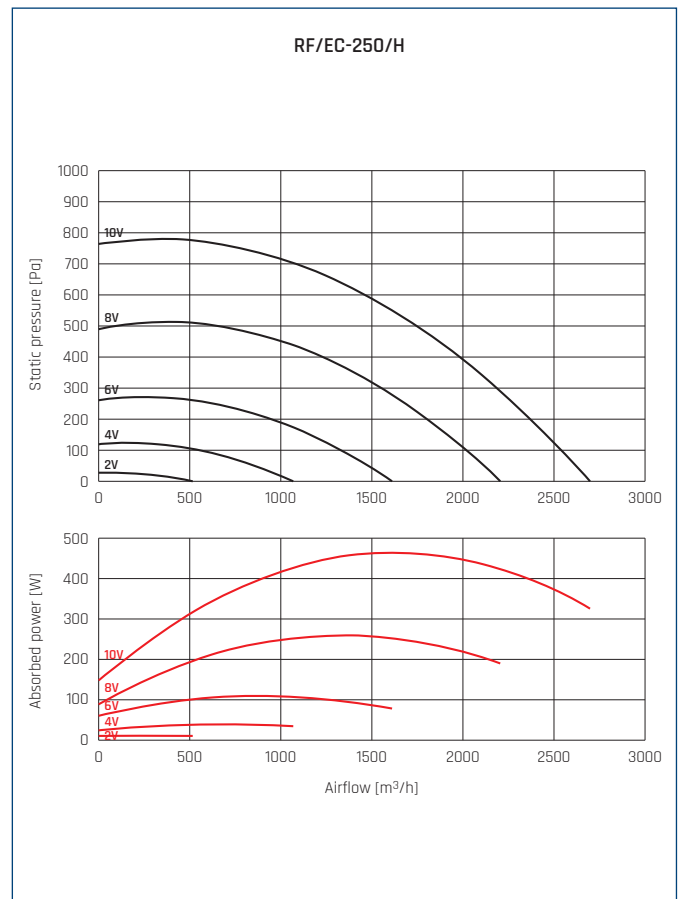
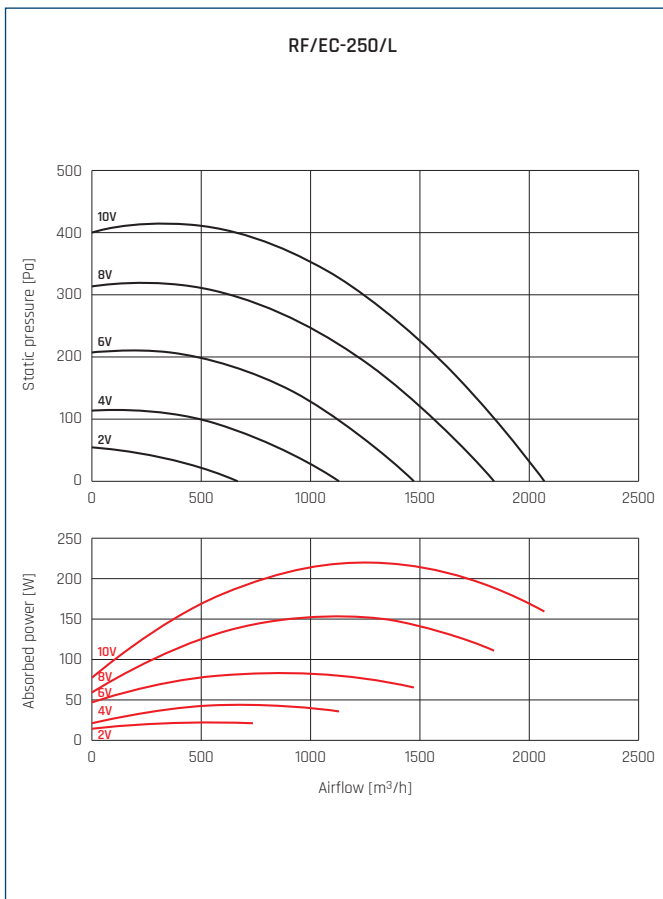
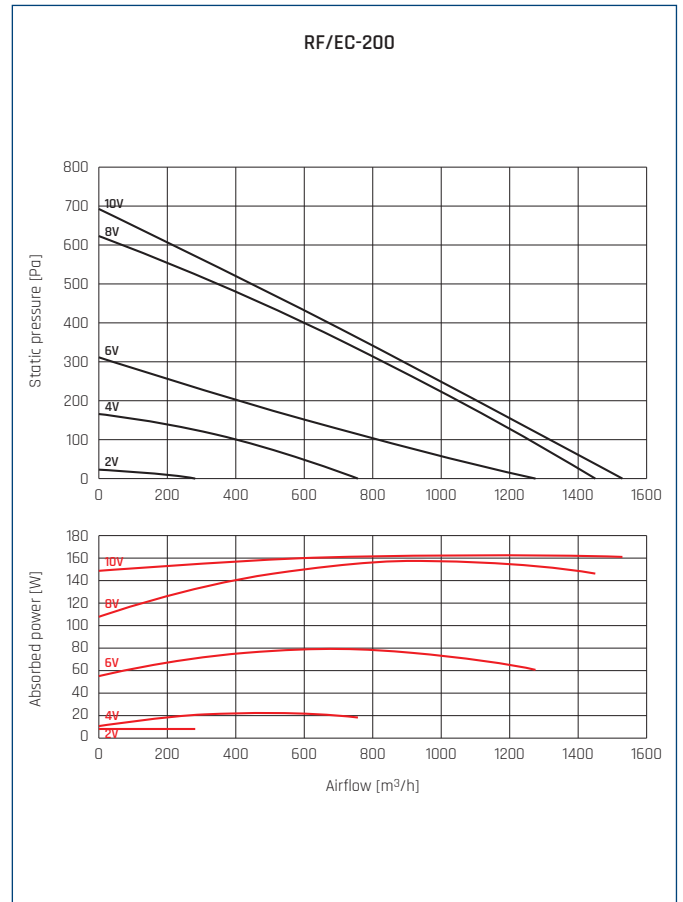
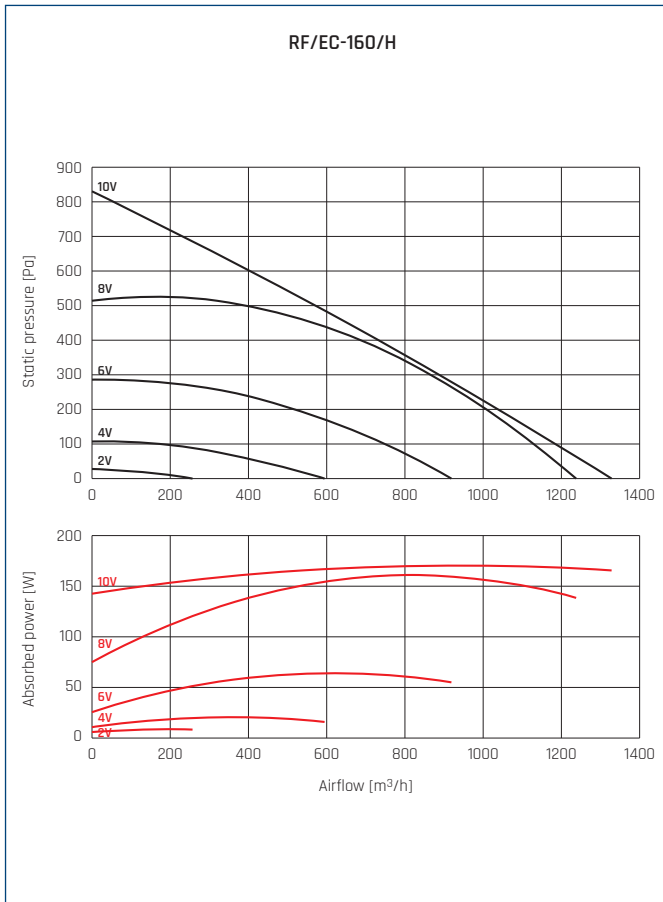
Type	airflow max	pressure max	speed	voltage	current	max absorbed power	sound pressure level*	operating temp. max	weight	regulator	ErP	article number
	[m³/h]	[Pa]	[r.p.m.]	[V]	[A]	[W]	[dB(A)]	[°C]				
RF/EC-125/L	330	270	2979	230	0,3	34	66	60	3,5	REB ECOWATT	2018	43522910
RF/EC-125/H	560	380	2973	230	0,5	67	67	60	3,5	REB ECOWATT	2018	43522912
RF/EC-125/E	840	1080	4240	230	1,5	170	76	60	3,6	REB ECOWATT	2018	43522914
RF/EC-160/L	940	420	2830	230	0,8	113	69	40	3,5	REB ECOWATT	2018	43522915
RF/EC-160/H	1320	830	2860	230	1,5	170	73	60	4	REB ECOWATT	2018	43522918
RF/EC-200	1500	700	2680	230	1,55	170	70	60	5,5	REB ECOWATT	2018	43522921
RF/EC-250/L	2050	410	2060	230	1,1	249	72	60	9	REB ECOWATT	2018	43522922
RF/EC-250/H	2700	780	2580	230	2,3	460	78	60	10	REB ECOWATT	2018	43522925
RF/EC-315	3400	530	2010	230	1,58	368	66	60	11	REB ECOWATT	2018	43522931
RF/EC-315T	5400	1020	2500	400	2,1	1100	77	60	12,7	REB ECOWATT	2018	43522932

* measurement made at a distance of 1.5m from the outlet, for Q = 1/2 qmax.

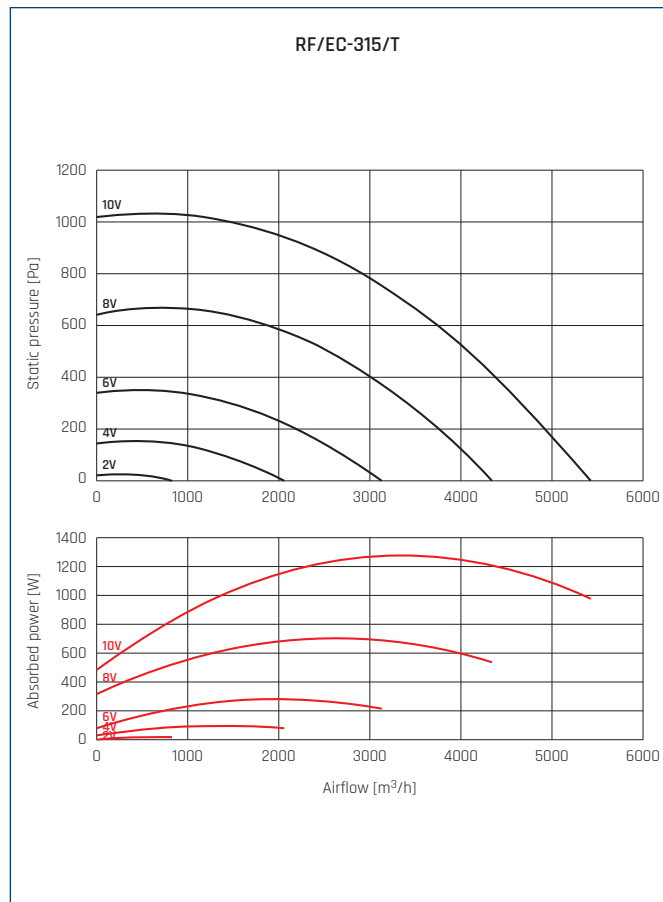
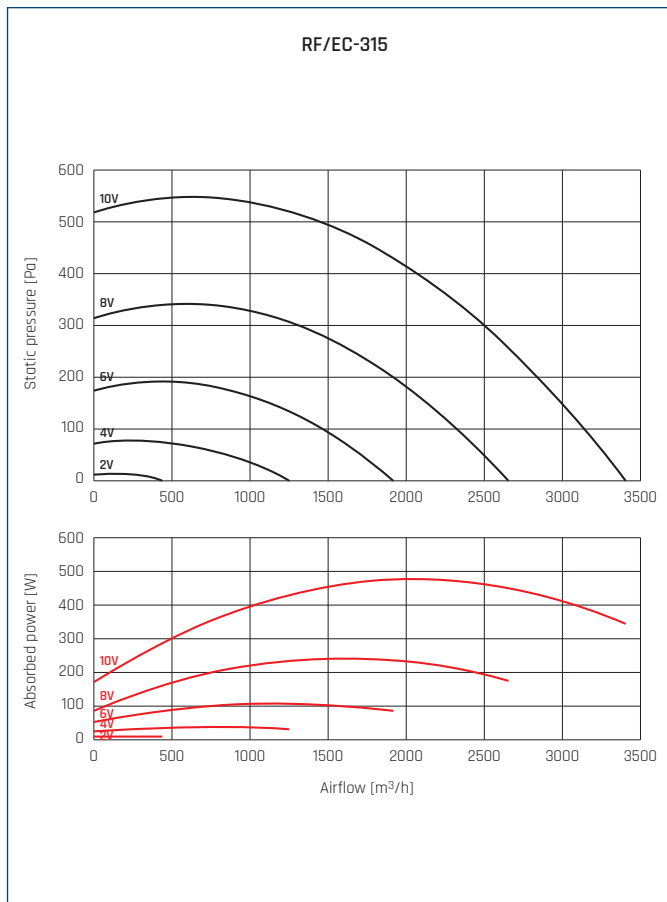
PERFORMANCE CURVES



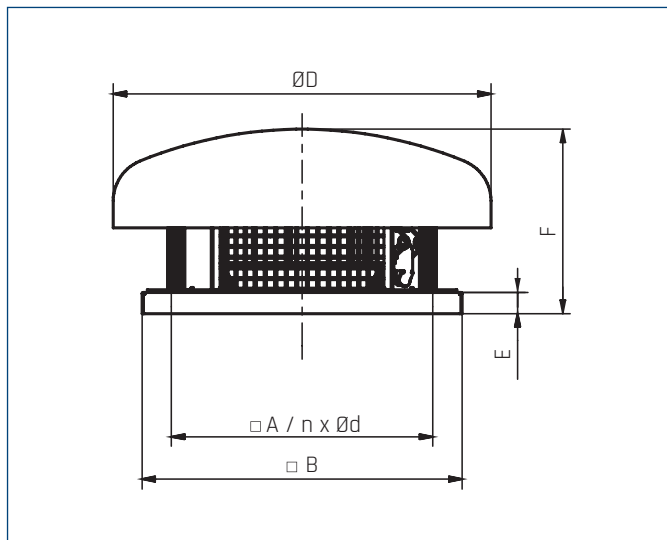
PERFORMANCE CURVES



PERFORMANCE CURVES



DIMENSIONS [mm]



Type	A	B	$\varnothing D$	E	F	d	n
125	245	300	355	15	191	10	4
160	245	300	355	15	191	10	4
200	330	435	457	15	246	12	4
250	330	435	552	15	316	12	4
315	330	435	552	15	316	12	4

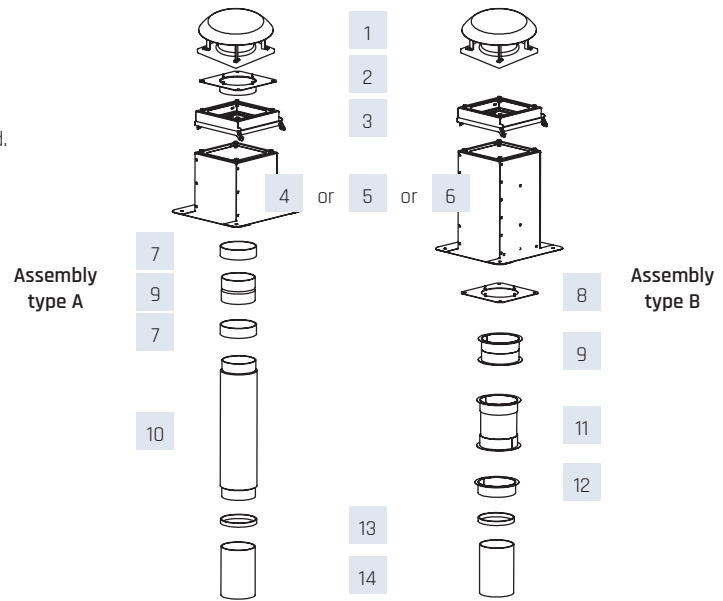
ACCESSORY ASSEMBLY

NOTE! DESIGN CHANGES

The connector PZK is available as a separate accessory
[PZK 125, PZK 160, PZK 200, PZK 250, PZK 315].

When using connector PZK the method of assembly „TYPE-A“.

If you don't use the PZK board the "TYPE-B" installation is required.



Type of assembly	1	2	3	4	5	6	7
	Type	plate with stub	swing module	flat roof up stand	flat roof up stand	flat roof up stand	
				RSS	RS	RSA	
A	RF/x-125	PZK 125	U 300	RSS 300	RS 300	RSA 300	ACOP PL 125
B		-					-
A	RF/x-160	PZK 160	U 300	RSS 300	RS 300	RSA 300	ACOP PL 160
B		-					-
A	RF/x-200	PZK 200	U 435	RSS 435	RS 435	RSA 435	ACOP PL 200
B		-					-
A	RF/x-250	PZK 250	U 435	RSS 435	RS 435	RSA 435	ACOP PL 250
B		-					-
A	RF/x-315	PZK 315	U 435	RSS 435	RS 435	RSA 435	ACOP PL 315
B		-					-

Type of assembly	1	8	9	10	11	12	13	14
	Type	mounting plate	backflow preventer	duct silencer	connector anti-vibration	stub-pipe	duct clips	ventilation duct
A	RF/x-125	-	CAR-PL 125	AKU-COMP 125	-	-	SBF 60-135	VENTAL 127
B		P 300	KZD 300	-	ZPD 300	K 300	SBF 60-135	VENTAL 185
A	RF/x-160	-	CAR-PL 160	AKU-COMP 160	-	-	SBF 60-165	VENTAL 165
B		P 300	KZD 300	-	ZPD 300	K 300	SBF 60-165	VENTAL 185
A	RF/x-200	-	CAR-PL 200	AKU-COMP 200	-	-	SBF 60-215	VENTAL 203
B		P 435	KZD 435	-	ZPD 435	K 435	SBF 60-215	VENTAL 254
A	RF/x-250	-	CAR-PL 250	AKU-COMP 250	-	-	SBF 60-325	VENTAL 254
B		P 435	KZD 435	-	ZPD 435	K 435	SBF 60-325	VENTAL 254
A	RF/x-315	-	CAR-PL 315	AKU-COMP 315	-	-	SBF 60-325	VENTAL 315
B		P 435	KZD 435	-	ZPD 435	K 435	SBF 60-325	VENTAL 254

Article numbers

ACOP PL 125	40521815	CAR-PL 200	40521040-01	P 300	43526300	RSS 435	43526520	VENTAL 127	11027127
ACOP PL 160	40521820	CAR-PL 250	40521050-01	P 435	43526310	SBF 60-135	18520135	VENTAL 165	11027165
ACOP PL 200	40521825	CAR-PL 315	40521060-01	RS 300	43526010	SBF 60-165	18520165	VENTAL 203	11027203
ACOP PL 250	40521830	K 300	43526400	RS 435	43526020	SBF 60-215	18520215	VENTAL 254	11027254
ACOP PL 315	40521835	K 435	43526410	RSA 300	43526110	SBF 60-325	18520325	VENTAL 315	11027315
CAR-PL 125	40521020-01	KZD 300	43527300	RSA 435	43526120	U 300	43527200	ZPD 300	43527400
CAR-PL 160	40521030-01	KZD 435	43527310	RSS 300	43526510	U 435	43527210	ZPD 435	43527410



ELECTRICAL ACCESSORIES

Type	wall thermostat	duct thermostat	thermostat	air quality sensor	humidistat	regulator
	TS	TK-1	TK-21	SQA	HIG-2	REB ECOWATT
RF/EC-125/L	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-125/H	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-125/E	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-160/L	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-160/H	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-200	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-250/L	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-250/H	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-315	TS	TK-1	TK-21	SQA	HIG-2	REB-ECOWATT
RF/EC-315T	TS + DILM7-10	TK-1 + DILM7-10	TK-21 + DILM7-10	SQA + DILM7-10	HIG-2 + DILM7-10	REB-ECOWATT

Article numbers

DILM-7-10	91040666-47	HIG-2	40025150	REB-ECOWATT	40025005	SQA	40025140	TK-1	40025330
TK-21	40025320	TS	40025345						



ERP CHARACTERISTICS

NRVU*						
	Name	RF/EC-125/L	RF/EC-125/H	RF/EC-125/E	RF/EC-160/L	RF/EC-160/H
a	supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b	article number	43522910	43522912	43522914	43522915	43522918
c	device category	NRVU	NRVU	NRVU	NRVU	NRVU
c	device type	UVU	UVU	UVU	UVU	UVU
d	type of drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive
e	type of heat recovery system	not applicable	not applicable	not applicable	not applicable	not applicable
f	thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable	not applicable	not applicable
g	reference flow rate in NRVU [m ³ /s]	0,06	0,1	0,13	0,17	0,19
h	electric power input [kW]	0,03	0,06	0,17	0,13	0,17
i	SFPint [W/(m ³ /s)]	585	644	1247	763	880
j	face velocity [m/s]	0,38	0,64	0,9	0,94	1,08
k	$\Delta p_{s, ext}$ [Pa]	198	245	516	317	423
l	$\Delta p_{s, int}$ [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
m	$\Delta p_{s, add}$ [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
n	static efficiency of fans [%]	33,00%	38,00%	41,00%	39,00%	47,00%
o	maximum external leakage rate [%]	0	0	0	0	0
p	energy performance	not applicable	not applicable	not applicable	not applicable	not applicable
q	visual filter warning	not applicable	not applicable	not applicable	not applicable	not applicable
r	L_{WA} [dB(A)]	66	67	76	69	73
s	internet address	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

NRVU*						
	Name	RF/EC-200	RF/EC-250/L	RF/EC-250/H	RF/EC-315	RF/EC-315T
a	supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b	article number	43522921	43522922	43522925	43522931	43522932
c	device category	NRVU	NRVU	NRVU	NRVU	NRVU
c	device type	UVU	UVU	UVU	UVU	UVU
d	type of drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive
e	type of heat recovery system	not applicable	not applicable	not applicable	not applicable	not applicable
f	thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable	not applicable	not applicable
g	reference flow rate in NRVU [m ³ /s]	0,25	0,33	0,44	0,83	0,85
h	electric power input [kW]	0,15	0,22	0,44	1,24	1,24
i	SFPint [W/(m ³ /s)]	617	673	1017	1491	1468
j	face velocity [m/s]	1,13	1,42	1,91	3,24	3,29
k	$\Delta p_{s, ext}$ [Pa]	299	320	569	783	771
l	$\Delta p_{s, int}$ [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
m	$\Delta p_{s, add}$ [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
n	static efficiency of fans [%]	48,00%	48,00%	55,00%	53,00%	53,00%
o	maximum external leakage rate [%]	0	0	0	0	0
p	energy performance	not applicable	not applicable	not applicable	not applicable	not applicable
q	visual filter warning	not applicable	not applicable	not applicable	not applicable	not applicable
r	L_{WA} [dB(A)]	70	72	78	66	77
s	internet address	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

* NRVU - "non-residential ventilation unit" - according to COMMISSION REGULATION (EU) No 1254/2014.