



APPLICATION

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

They are used:

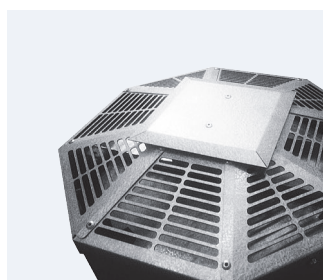
- in exhaust systems of residential buildings,
- supermarkets, industrial halls, workshops, warehouses,
- toilets, garages, parking lots, outhouse.

CONSTRUCTION

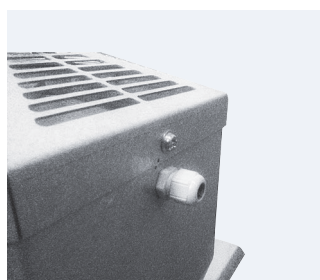
- rotors with backward blades are made of plastic,
- the base, upper bowl and other components are made of galvanized steel sheet,
- the fans are designed for vertical work,
- suitable for mounting on flat roofs,
- working temperature to +60°C, depending on model.

MOTOR

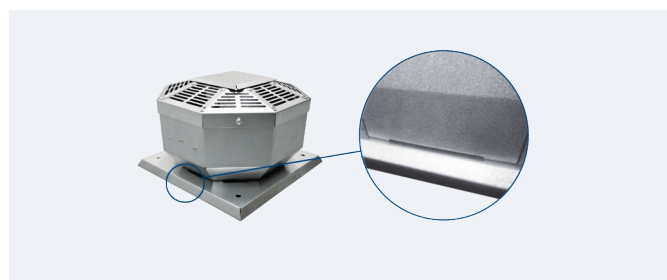
- power supply three-phase 400V,
- EC motor,
- 0-10VDC control input, which enables smooth rotation control
- insulation class F,
- degree of protection IP54.



Protective mesh



Cable penetration



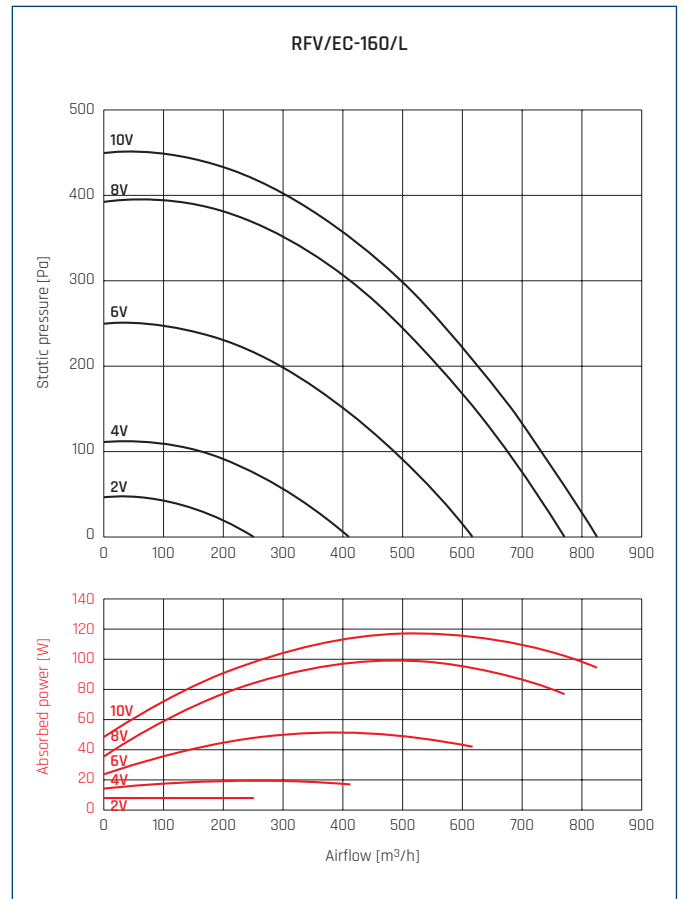
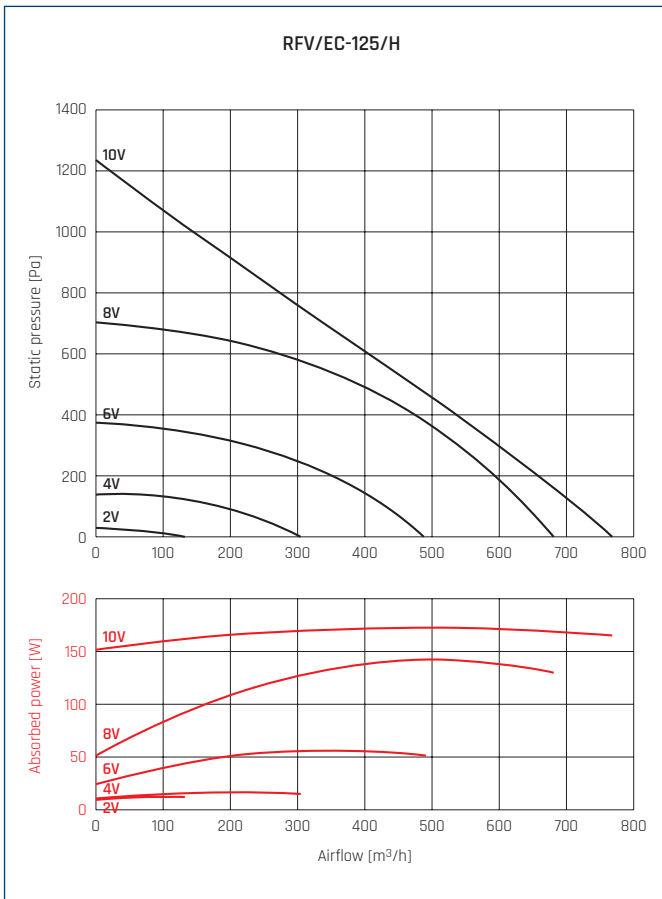
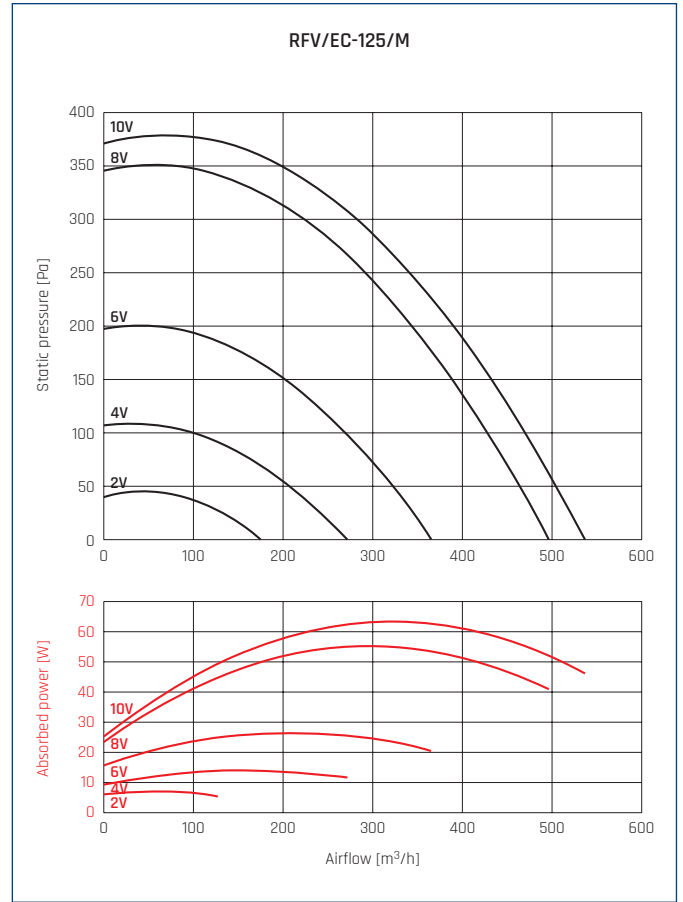
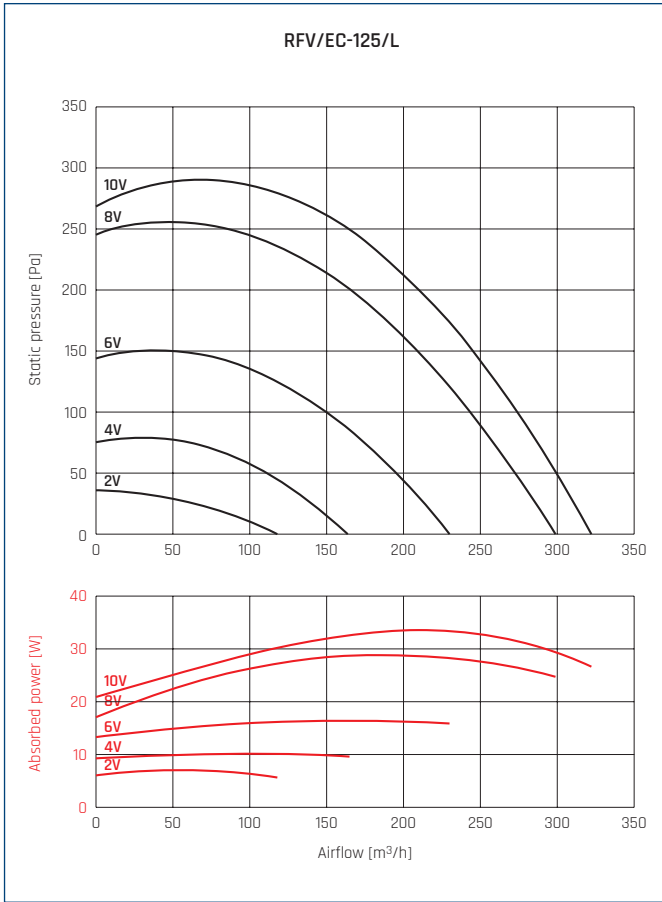
Protection against flooding the channel

TECHNICAL CHARACTERISTICS

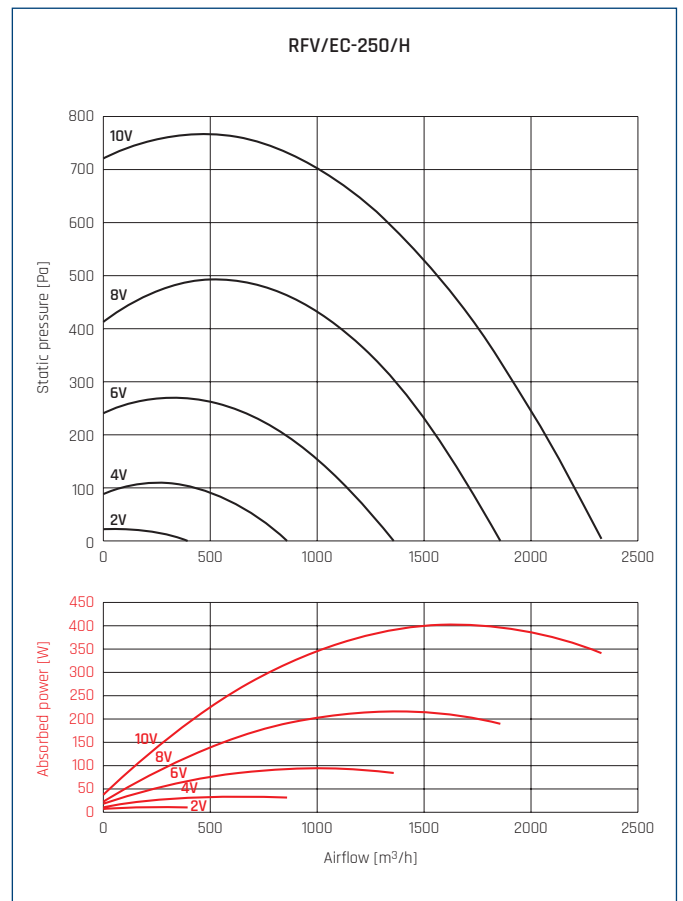
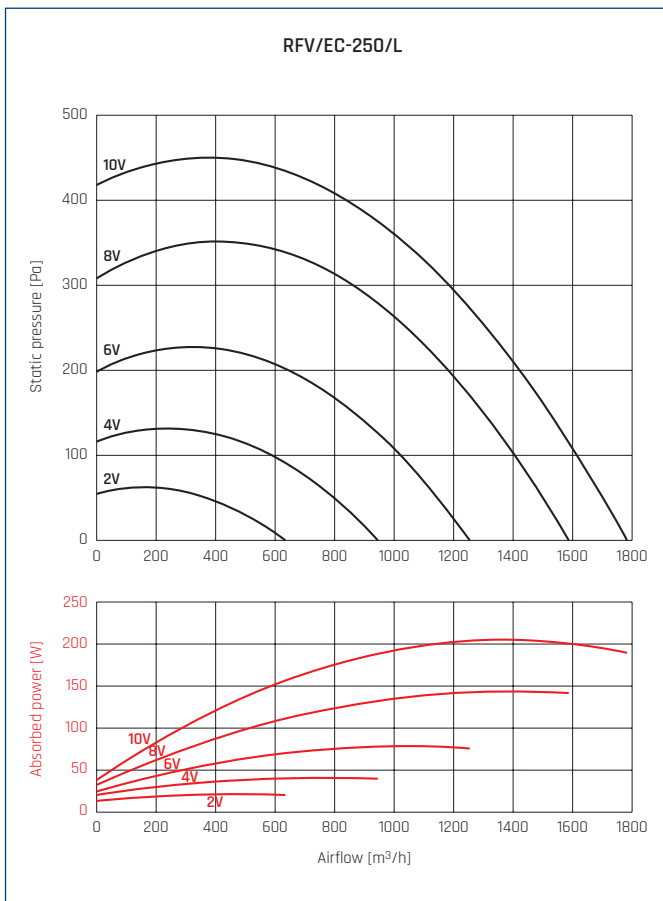
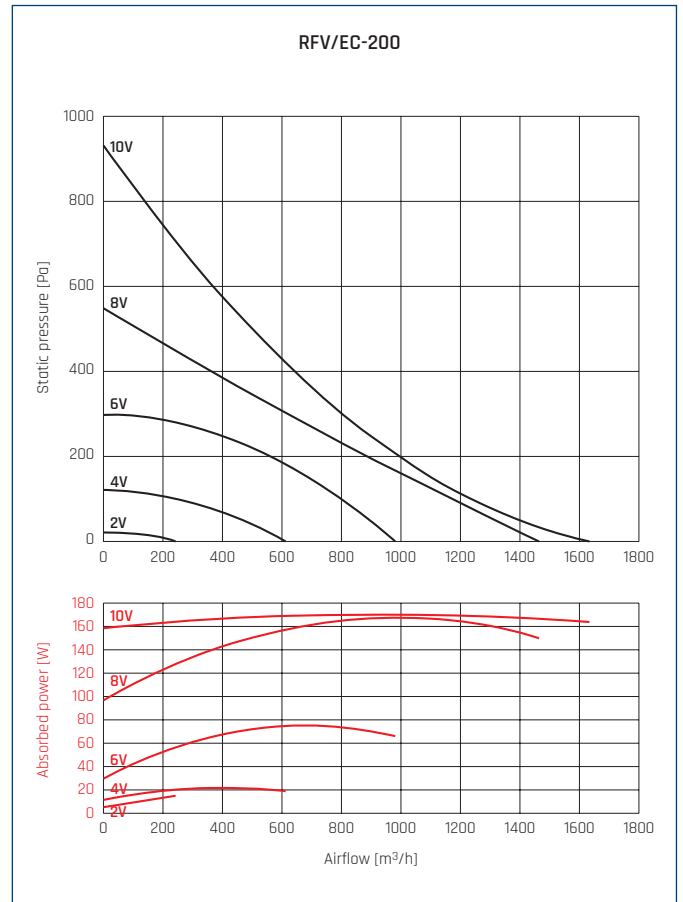
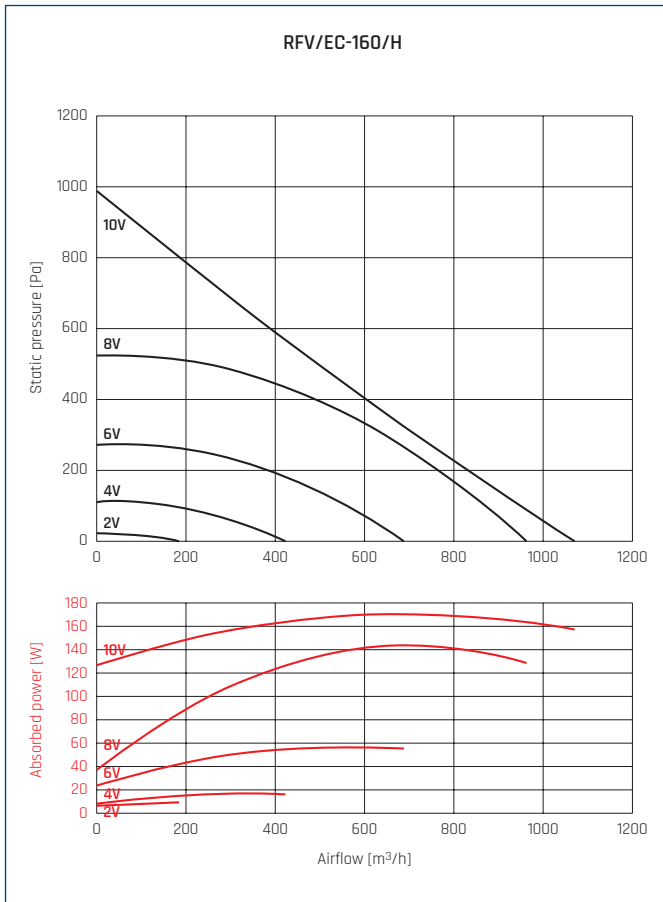
Type	airflow max	pressure max	speed	voltage	current	max absorbed power	sound pressure level*	operating temp. max	weight	regulator	ErP	article number
	[m³/h]	[Pa]	[r.p.m.]	[V]	[A]	[W]	[dB(A)]	[°C]				
RFV/EC-125/L	323	292	2979	230	0,34	34	67	60	3,5	REB ECOWATT	2018	43522960
RFV/EC-125/M	537	379	2973	230	0,6	64	68	60	3,5	REB ECOWATT	2018	43522962
RFV/EC-125/H	775	1234	4240	230	1,5	172	77	60	3,6	REB ECOWATT	2018	43522964
RFV/EC-160/L	826	449	2830	230	1,1	117	70	60	3,5	REB ECOWATT	2018	43522966
RFV/EC-160/H	1070	990	2860	230	1,5	170	74	60	4	REB ECOWATT	2018	43522968
RFV/EC-200	1636	933	2680	230	1,55	170	71	60	5,5	REB ECOWATT	2018	43522970
RFV/EC-250/L	1780	448	2060	230	1,1	204	73	60	6,7	REB ECOWATT	2018	43522972
RFV/EC-250/H	2325	765	2580	230	1,85	401	79	60	10	REB ECOWATT	2018	43522974
RFV/EC-315	2538	531	2010	230	1,58	328	67	60	11	REB ECOWATT	2018	43522976
RFV/EC-315T	4370	1030	2500	400	1,9	1113	78	60	12,7	REB ECOWATT	2018	43522978
RFV/EC-355T	6670	949	2100	400	2,3	1370	74	60	23,5	REB ECOWATT	2018	43522980
RFV/EC-400T	6740	820	1800	400	2,3	1380	78	60	31	REB ECOWATT	2018	43522982
RFV/EC-450T	7215	595	1400	400	1,9	1145	74	60	33	REB ECOWATT	2018	43522984
RFV/EC-500T	9798	590	1230	400	2,3	1405	73	40	41	REB ECOWATT	2018	43522986

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

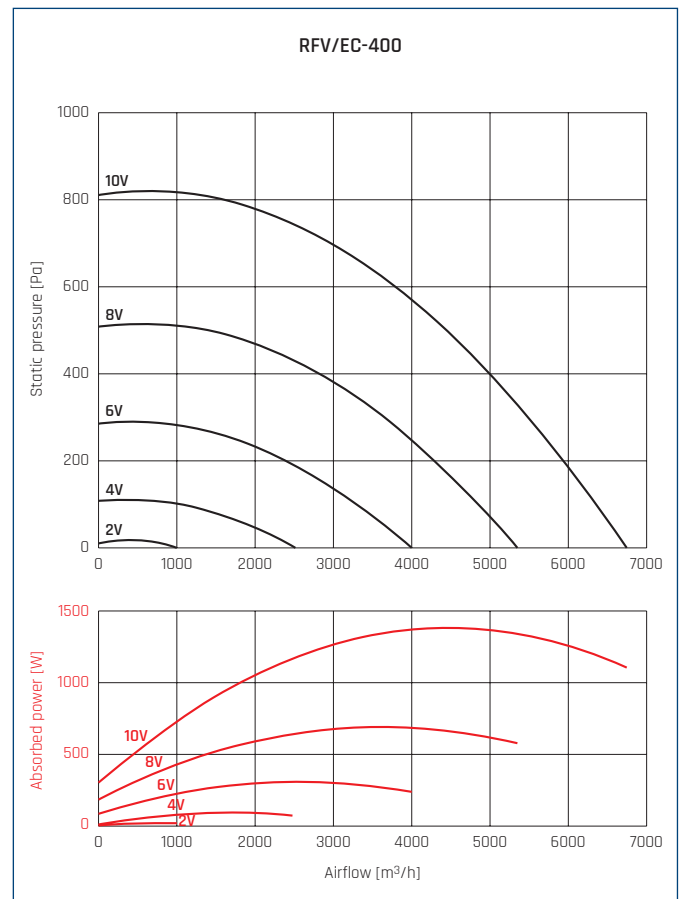
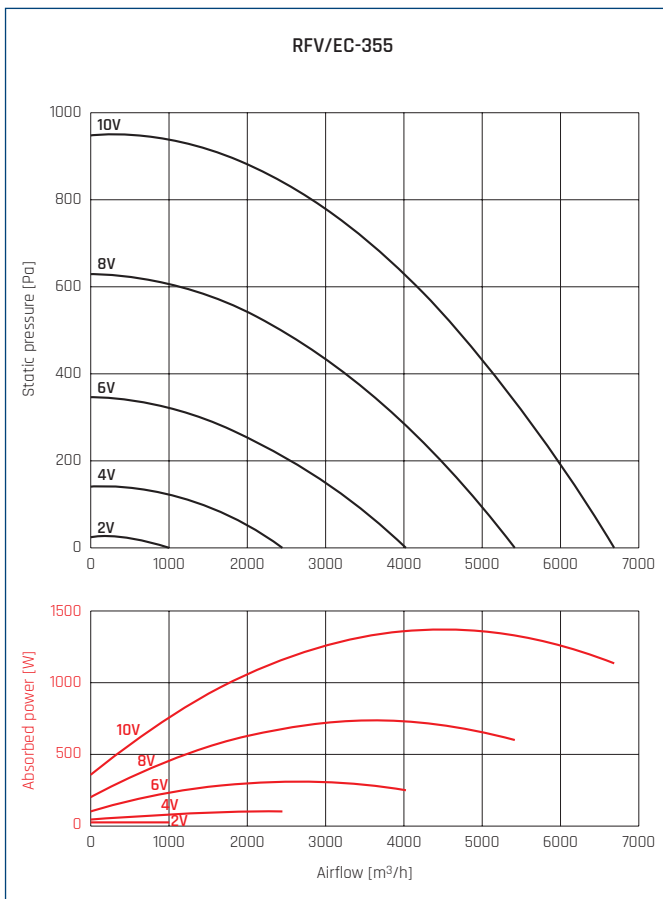
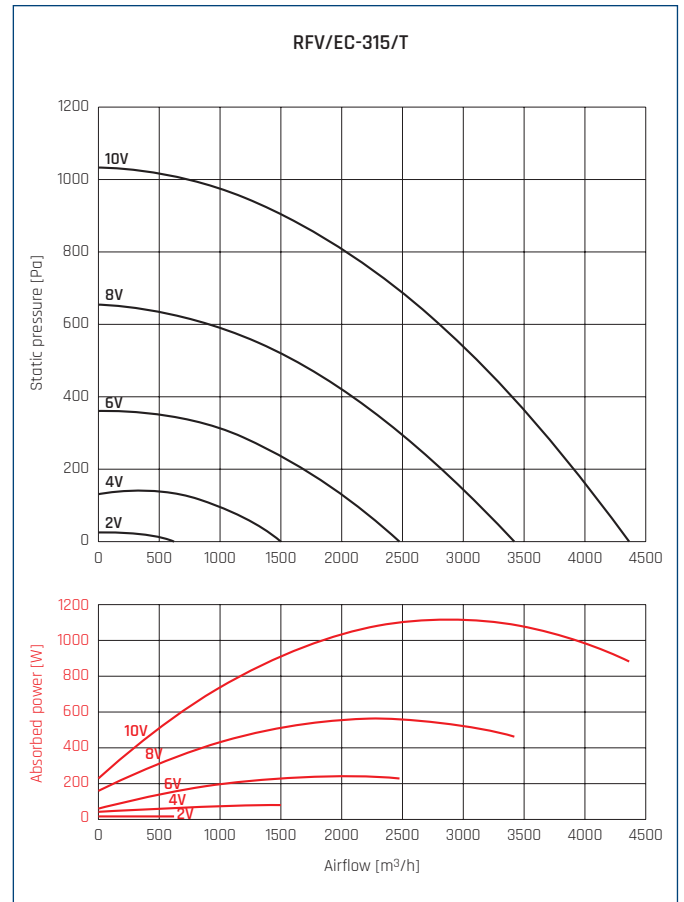
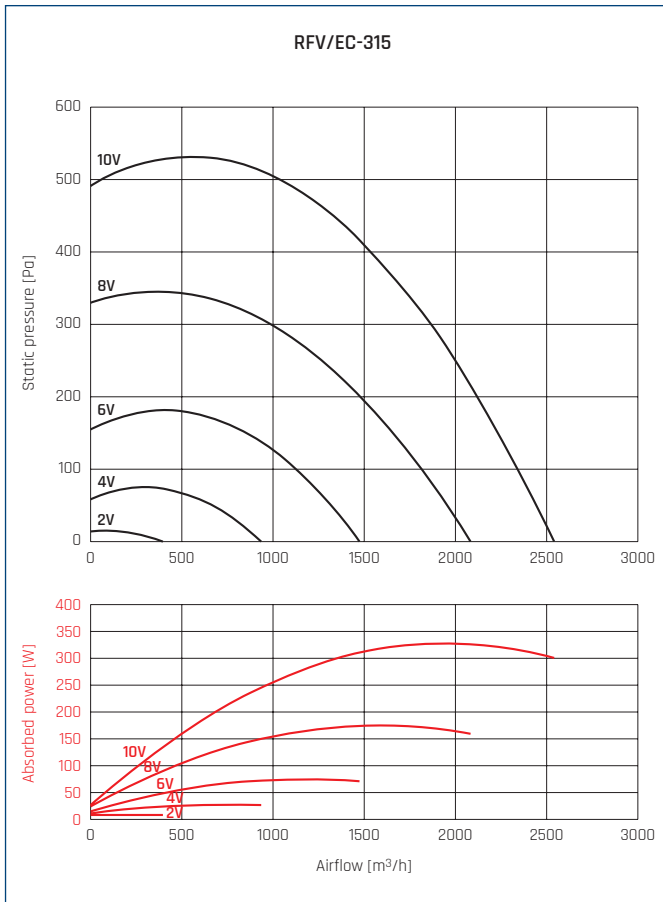
PERFORMANCE CURVES



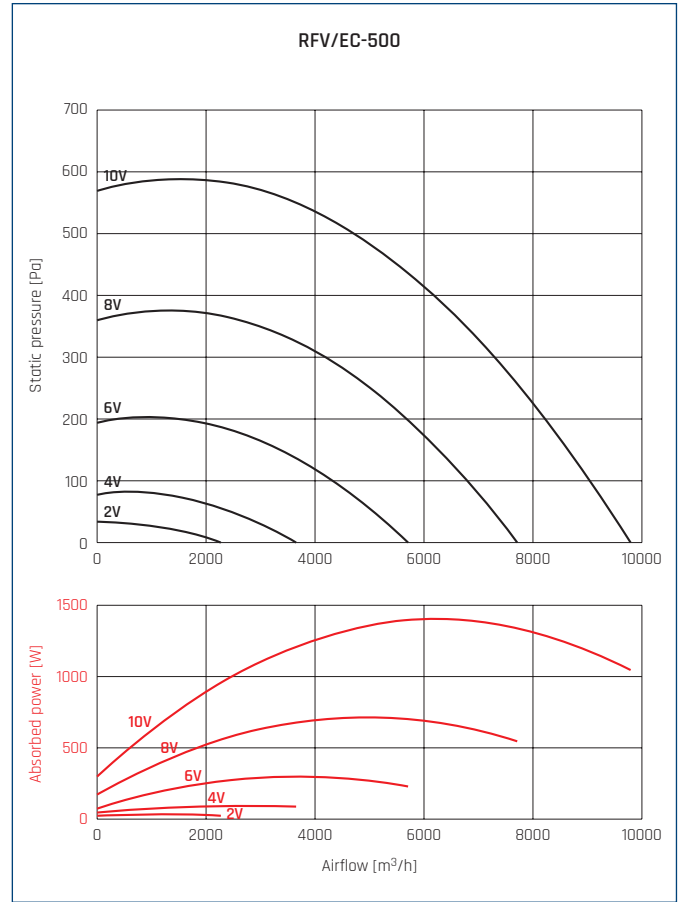
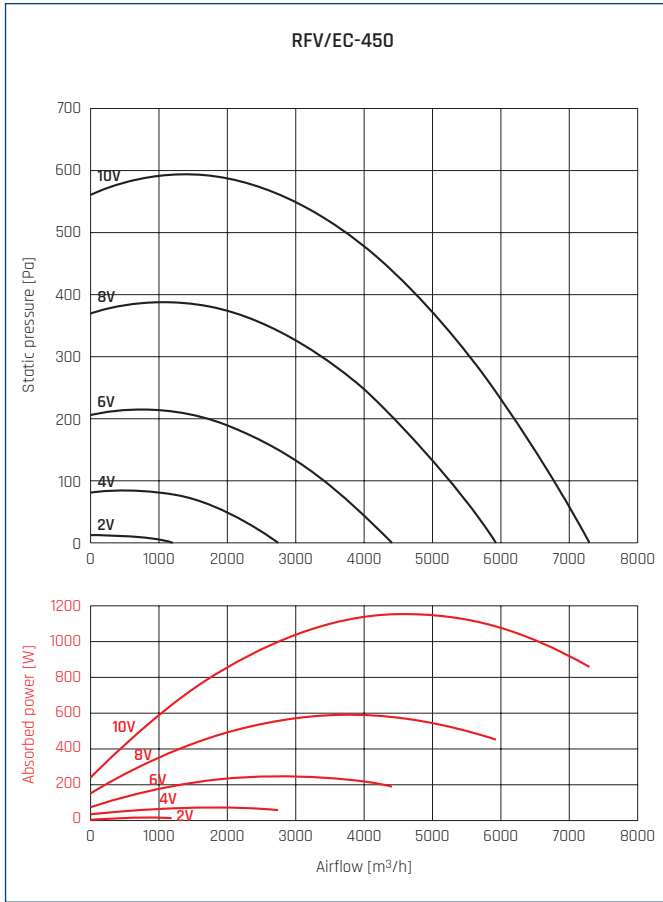
PERFORMANCE CURVES



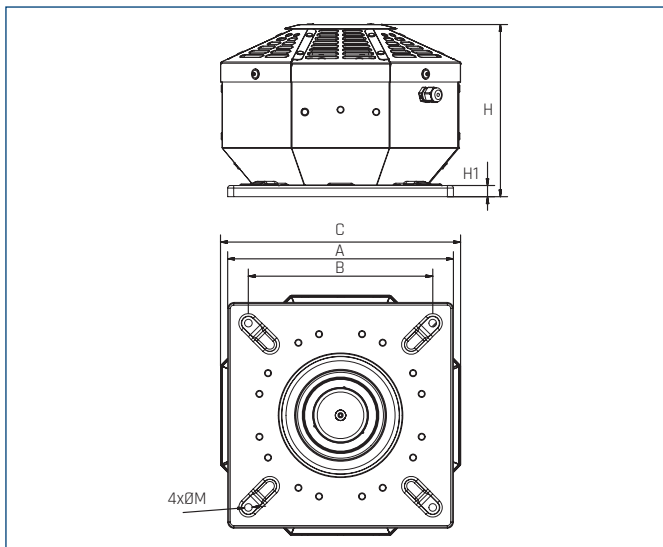
PERFORMANCE CURVES



PERFORMANCE CURVES



DIMENSIONS [mm]



Typ	A	B	C	H	H1	M
125	300	245	319	229	15	10
160	300	245	319	229	15	10
200	435	330	435	300	15	12
250	435	330	479	300	15	12
315	435	330	549	307,5	15	12
355	560	450	684	416	40	12
400	560	450	684	416	40	12
450	630	535	749	446	40	14
500	710	590	844	483	40	14

ACOUSTIC CHARACTERISTICS

Sound power level at the fan inlet in dB (A) for different frequency ranges at three characteristic points:

Type	Airflow	63	125	250	500	1000	2000	4000	8000	L _{WA}
RFV/EC-125S/L	Qmax	33	48	60	61	64	65	59	55	70
	2/3 Qmax	34	44	53	57	58	59	55	47	64
	1/3 Qmax	35	46	57	59	59	57	52	45	65
RFV/EC-125S/M	Qmax	38	51	61	64	68	68	66	59	73
	2/3 Qmax	37	48	59	61	64	64	63	52	70
	1/3 Qmax	39	51	63	64	65	64	58	50	70
RFV/EC-125S/H	Qmax	46	51	62	69	74	75	68	67	79
	2/3 Qmax	40	44	59	66	71	72	66	64	76
	1/3 Qmax	47	49	61	65	69	69	62	59	74
RFV/EC-160S/L	Qmax	51	55	66	71	75	72	70	71	79
	2/3 Qmax	51	54	65	70	72	70	68	68	77
	1/3 Qmax	51	54	65	69	70	68	66	61	75
RFV/EC-160S/H	Qmax	41	49	63	70	75	75	72	70	80
	2/3 Qmax	31	40	60	67	73	73	71	66	78
	1/3 Qmax	37	47	58	66	72	72	70	62	77
RFV/EC-200S	Qmax	41	48	59	63	66	66	66	72	75
	2/3 Qmax	36	45	54	58	61	61	61	64	69
	1/3 Qmax	38	48	54	58	59	58	56	50	65
RFV/EC-250S/L	Qmax	51	55	66	71	75	72	70	71	79
	2/3 Qmax	51	54	65	70	72	70	68	68	77
	1/3 Qmax	51	54	65	69	70	68	66	61	75
RFV/EC-250S/H	Qmax	42	52	69	71	74	73	71	67	79
	2/3 Qmax	43	51	64	67	70	69	65	59	75
	1/3 Qmax	46	49	71	69	68	68	65	57	76
RFV/EC-315S	Qmax	40	52	59	64	61	59	58	59	68
	2/3 Qmax	39	48	54	59	56	54	51	50	63
	1/3 Qmax	53	60	64	64	60	58	54	48	69
RFV/EC-315T	Qmax	45	59	67	74	71	69	68	63	78
	2/3 Qmax	49	58	65	71	68	64	60	58	74
	1/3 Qmax	56	64	69	73	68	66	61	56	76
RFV/EC-355T	Qmax	47	61	71	76	72	70	70	62	80
	2/3 Qmax	45	57	67	70	66	63	61	55	74
	1/3 Qmax	53	63	70	72	68	66	62	56	76
RFV/EC-400T	Qmax	48	63	73	76	72	72	69	62	80
	2/3 Qmax	49	62	74	72	68	65	61	58	77
	1/3 Qmax	53	66	76	73	70	67	62	58	79
RFV/EC-450T	Qmax	46	62	69	71	67	68	66	67	76
	2/3 Qmax	45	62	67	67	64	62	58	61	72
	1/3 Qmax	51	63	69	68	66	63	59	55	74
RFV/EC-500T	Qmax	46	65	69	69	67	68	66	72	77
	2/3 Qmax	44	62	65	64	64	60	56	61	71
	1/3 Qmax	54	63	69	65	65	61	57	54	73

ACOUSTIC CHARACTERISTICS

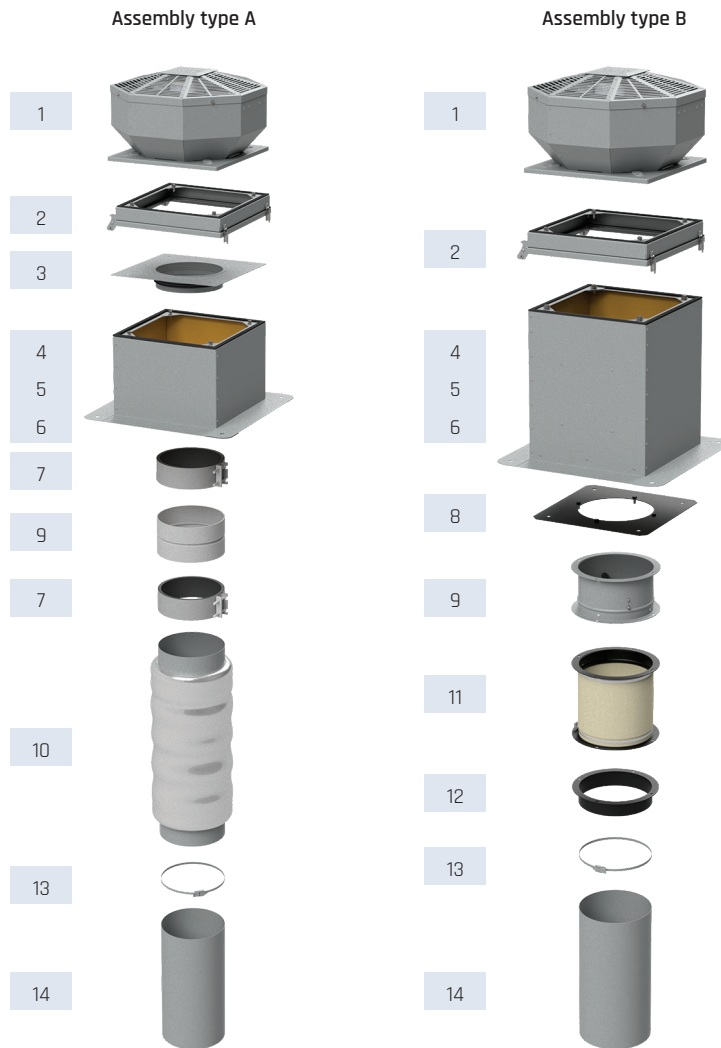
Sound power level at the fan inlet in dB (A) for different frequency ranges at three characteristic points:

Type	Airflow	63	125	250	500	1000	2000	4000	8000	L _{WA}
RFV/EC-125S/L	Qmax	36	44	60	63	66	70	67	58	74
	2/3 Qmax	35	43	54	58	59	64	60	48	67
	1/3 Qmax	36	46	58	61	60	63	57	44	67
RFV/EC-125S/M	Qmax	41	48	63	65	70	75	70	62	78
	2/3 Qmax	38	48	60	62	66	70	68	55	74
	1/3 Qmax	39	51	63	65	67	70	63	53	74
RFV/EC-125S/H	Qmax	45	51	62	69	73	77	73	69	80
	2/3 Qmax	41	46	56	63	68	73	69	63	76
	1/3 Qmax	50	51	61	67	71	73	69	63	77
RFV/EC-160S/L	Qmax	50	58	74	77	81	79	73	72	85
	2/3 Qmax	51	57	74	75	79	76	70	68	83
	1/3 Qmax	48	56	72	73	77	73	68	62	81
RFV/EC-160S/H	Qmax	46	51	64	78	82	81	75	72	86
	2/3 Qmax	40	45	60	72	80	79	74	63	83
	1/3 Qmax	37	48	57	60	77	79	74	57	82
RFV/EC-200S	Qmax	39	50	60	65	70	73	68	72	78
	2/3 Qmax	34	46	55	60	65	68	64	64	72
	1/3 Qmax	37	49	55	59	63	65	60	53	69
RFV/EC-250S/L	Qmax	50	58	74	77	81	79	73	72	85
	2/3 Qmax	51	57	74	75	79	76	70	68	83
	1/3 Qmax	48	56	72	79	77	73	68	62	82
RFV/EC-250S/H	Qmax	40	51	69	78	81	81	79	70	86
	2/3 Qmax	43	53	65	76	78	77	75	67	83
	1/3 Qmax	46	52	77	75	77	76	74	65	83
RFV/EC-315S	Qmax	39	55	61	67	68	68	63	60	73
	2/3 Qmax	38	51	56	62	63	62	56	51	68
	1/3 Qmax	53	62	66	67	67	64	57	50	73
RFV/EC-315T	Qmax	45	61	71	77	80	78	73	66	84
	2/3 Qmax	49	60	68	75	78	76	69	61	82
	1/3 Qmax	55	67	73	76	77	76	70	61	82
RFV/EC-355T	Qmax	47	64	73	80	82	78	76	67	86
	2/3 Qmax	45	58	69	74	77	72	67	59	80
	1/3 Qmax	54	67	73	76	77	74	69	61	82
RFV/EC-400T	Qmax	49	68	76	81	83	78	74	65	87
	2/3 Qmax	49	63	75	78	79	73	67	60	83
	1/3 Qmax	54	68	78	79	78	73	68	60	84
RFV/EC-450T	Qmax	47	64	72	77	77	74	72	66	82
	2/3 Qmax	45	62	70	73	73	67	63	59	78
	1/3 Qmax	51	64	73	74	72	68	63	56	79
RFV/EC-500T	Qmax	49	65	73	76	77	74	71	70	82
	2/3 Qmax	45	61	68	72	71	65	61	60	76
	1/3 Qmax	55	65	72	72	71	67	62	56	77

MOUNTING ACCESSORIES

NOTE! DESIGN CHANGES

The connector PZK is available as a separate accessory:
 (PZK 125, PZK 160, PZK 200, PZK 250, PZK 315).
 When using PZK plate:
 the method of assembly "TYPE-A".
 If you don't use the PZK plate:
 the method of assembly "TYPE-B".



MOUNTING ACCESSORIES

type of assembly	1	2	3	4	5	6	7
	Type	swing module	plate with stub	front roof up stand RSS	front roof up stand RS	front roof up stand RSA	anti-vibration bandage
A	RFV/EC-125	U 300	PZK-125	RSS 300	RS 300	-	ACOP PL 125
B			-			RSA 300	-
A	RFV/EC-160	U 300	PZK-160	RSS 300	RS 300	-	ACOP PL 160
B			-			RSA 300	-
A	RFV/EC-200	U 435	PZK-200	RSS 435	RS 435	-	ACOP PL 200
B			-			RSA 435	-
A	RFV/EC-250	U 435	PZK-250	RSS 435	RS 435	-	ACOP PL 250
B			-			RSA 435	-
A	RFV/EC-315	U 435	PZK-315	RSS 435	RS 435	-	ACOP PL 315
B			-			RSA 435	-
B	RFV/EC-355	U 560	-	RSS 560	RS 560	RSA 560	K 560
B	RFV/EC-400	U 560	-	RSS 560	RS 560	RSA 560	K 560
B	RFV/EC-450	U 630	-	RSS 630	RS 630	RSA 630	K 630
B	RFV/EC-500	U 710	-	RSS 710	RS 710	RSA 710	K 710

MOUNTING ACCESSORIES

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	RFV/EC-125	-	CAR-PL 125	AKU-COMP 125	-	-	SBF 60-135	VENTAL 127
B		P 300	KZD 300	-	ZDPO 300	K 300	SBF 60-135	VENTAL 185
A	RFV/EC-160	-	CAR-PL 160	AKU-COMP 160	-	-	SBF 60-165	VENTAL 165
B		P 300	KZD 300	-	ZDPO 300	K 300	SBF 60-165	VENTAL 185
A	RFV/EC-200	-	CAR-PL 200	AKU-COMP 200	-	-	SBF 60-215	VENTAL 203
B		P 435	KZD 435	-	ZDPO 435	K 435	SBF 60-215	VENTAL 254
A	RFV/EC-250	-	CAR-PL 250	AKU-COMP 250	-	-	SBF 60-325	VENTAL 254
B		P 435	KZD 435	-	ZDPO 435	K 435	SBF 60-325	VENTAL 254
A	RFV/EC-315	-	CAR-PL 315	AKU-COMP 315	-	-	SBF 60-325	VENTAL 315
B		P 435	KZD 435	-	ZDPO 435	K 435	SBF 60-325	VENTAL 254
B	RFV/EC-355	P 560	KZD 560-N	-	ZDPO 560	K 560	-	-
B	RFV/EC-400	P 560	KZD 560-N	-	ZDPO 560	K 560	-	-
B	RFV/EC-450	P 630	KZD 630-N	-	ZDPO 630	K 630	-	-
B	RFV/EC-500	P 710	KZD 710-N	-	ZDPO 710	K 710	-	-

Article numbers

ACOP PL 125	40521815	CAR-PL 250	40521050-01	RS 300	43526010	SBF 60-215	18520215	VENTAL 127	11027127
ACOP PL 160	40521820	CAR-PL 315	40521060-01	RS 435	43526020	SBF 60-325	18520325	VENTAL 165	11027165
ACOP PL 200	40521825	K 300	43526400	RSA 300	43526110	U 300	43527200	VENTAL 203	11027203
ACOP PL 250	40521830	K 435	43526410	RSA 435	43526120	U 435	43527210	VENTAL 254	11027254
ACOP PL 315	40521835	KZD 300	43527300	RSS 300	43526510	U 560	43527220	VENTAL 315	11027315
CAR-PL 125	40521020-01	KZD 435	43527310	RSS 435	43526520	U 630	43527230	ZDPO 300	43527400
CAR-PL 160	40521030-01	P 300	43526300	SBF 60-135	18520135	U 710	43527240	ZDPO 435	43527410
CAR-PL 200	40521040-01	P 435	43526310	SBF 60-165	18520165				

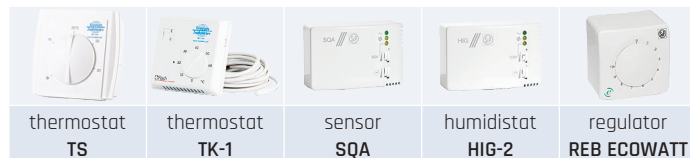


ELECTRICAL ACCESSORIES

Type	wall thermostat	duct thermostat	air sensor quality	humidistat	regulator
	TS	TK-1	SQA	HIG-2	REB ECOWATT
RFV/EC-125/L	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-125/M	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-125/H	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-160/L	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-160/H	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-200	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-250/L	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-250/H	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-315	TS	TK-1	SQA	HIG-2	REB-ECOWATT
RFV/EC-315T	TS	TK-1	-	-	REB-ECOWATT
RFV/EC-355T	TS	TK-1	-	-	REB-ECOWATT
RFV/EC-400T	TS	TK-1	-	-	REB-ECOWATT
RFV/EC-450T	TS	TK-1	-	-	REB-ECOWATT
RFV/EC-500T	TS	TK-1	-	-	REB-ECOWATT

Article numbers

HIG-2	40025150	REB-ECOWATT	40025005	SQA	40025140	TK-1	40025330	TS	40025345
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ERP CHARACTERISTICS

NRVU*						
	Name	RFV/EC-125/L	RFV/EC-125/M	RFV/EC-125/H	RFV/EC-160/L	RFV/EC-160/H
a	supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b	article number	43522960	43522962	43522964	43522966	43522968
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 [m³/s]	0,06	0,09	0,14	0,16	0,21
h	electric power input (w kW)	0,03	0,06	0,17	0,13	0,17
i	SFPint W/(m³/s)	566	708	1179	816	796
j	face velocity m/s	0,39	0,58	0,95	0,88	1,2
k	Δps, ext (Pa)	162	305	480	305	380
l	Δps,int (Pa)	not applicable	not applicable	not applicable	not applicable	not applicable
m	Δps,add (Pa)	not applicable	not applicable	not applicable	not applicable	not applicable
n	static efficiency of fans [%]	31,00%	36,00%	40,00%	36,00%	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)	67	68	77	70	74
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.

ERP CHARACTERISTICS

NRVU*						
	Name	RFV/EC-200	RFV/EC-250/L	RFV/EC-250/H	RFV/EC-315	RFV/EC-315T
a	supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b	article number	43522970	43522972	43522974	43522976	43522978
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]	0,23	0,36	0,53	0,61	0,85
h	electric power input (w kW)	0,15	0,22	0,44	1,24	1,24
i	SFPint W/(m ³ /s)	680	606	833	2027	1468
j	face velocity m/s	1,02	1,58	2,33	2,38	3,29
k	$\Delta p_{s, ext}$ (Pa)	350	270	363	340	692
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 [%]	45,00%	45,00%	53,00%	53,00%	50,00%
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)	71	73	79	67	78
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.

NRVU*					
	Name	RFV/EC-355T	RFV/EC-400T	RFV/EC-450T	RFV/EC-500T
a	supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b	article number	43522980	43522982	43522984	43522986
c	device category	NRVU	NRVU	NRVU	NRVU
c	device type	UVU	UVU	UVU	UVU
d	type of 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
f	thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable	not applicable
g	reference flow rate in NRVU [m ³ /s]	1,17	1,28	1,47	2,08
h	electric power input (w kW)	1,34	1,61	1,25	1,61
i	SFPint W/(m ³ /s)	1151	1263	848	773
j	prędkość czołowa w m/s	3,68	3,58	3,72	4,69
k	$\Delta p_{s, ext}$ (Pa)	530	450	370	350
l	$\Delta p_{s, int}$ (Pa)	not applicable	not applicable	not applicable	not applicable
m	$\Delta p_{s, add}$ (Pa)	not applicable	not applicable	not applicable	not applicable
n	static efficiency of fans [%]	45,00%	45,00%	47,00%	48,00%
o	Maximum external leakage rate [%]	0	0	0	0
p	energy performance	not applicable	not applicable	not applicable	not applicable
q	ostrzeżenia o konieczności wymiany filtra	not applicable	not applicable	not applicable	not applicable
r	L_{WA} dB(A)	74	78	74	73
s	internet address	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

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