VENT-V in-line duct fan

APPLICATION

VENT series fans are used in a variety of mechanical ventilation systems. Examples of use: supply and exhaust ventilation of flats, offices, shops, bars, cafes and restaurants. In addition it can be used in cooling systems, local extractors, workshop ventilation and cloakrooms.

CONSTRUCTION

Radial duct fans of the VENT-V series are available in 7 versions, in nominal diameters: 100, 125, 150, 160, 200, 250, 315. VENT-V series models contain casings made of galvanized sheet steel. Impellers in models 100 to 250 are made of polyamide. In model 315 impeller is made of galvanized sheet steel. The impellers with backward curved blades are designed for transporting maximum air volume at high static pressure with minimum noise level.

MOTOR

All models of VENT-V fans are equipped with single-phase 230V 50/60HZ motors. All motors are equipped with IP44 protection rating and insulation class F. As standard, motors are equipped with thermal overload protection and ball bearings. All motors are suitable for voltage speed control.

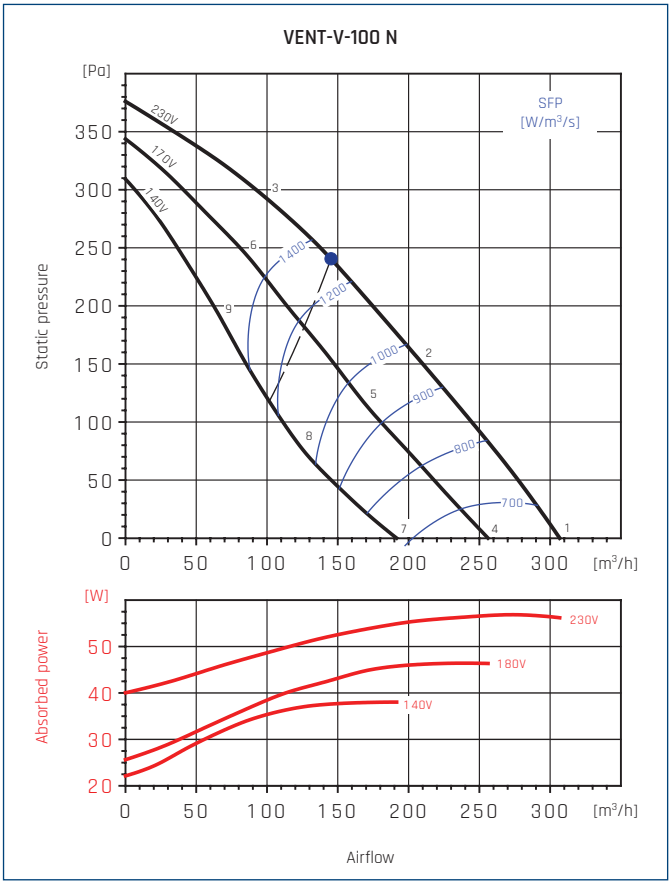
WWW DTR CE PZH

TECHNICAL CHARACTERISTICS

Type	run	speed	maximum absorbed power	maximum absorbed current	airflow at free discharge	sound pressure level*	operating temperature min / max		weight	regulator	ErP	article number
	[V]	[obr/min]	[W]	[A]	[m³/h]	[dB(A)]	[°C]		[kg]			
	230	2580	57	0,26	310	38						
VENT-V-100 N	170	2180	46	0,29	260	34	-20	+60	3	TLR 15 DS RVS-1,5	2016	40022220
	140	1640	38	0,30	190	28						
	230	2580	57	0,26	380	36						
VENT-V-125 N	170	2180	47	0,29	310	32	-20	+60	3	TLR 15 DS RVS-1,5	2016	40022221
	140	1630	38	0,29	230	26						
	230	2480	95	0,40	780	36						
VENT-V-150 N	170	1760	72	0,40	550	28	-20	+60	5	TLR 15 DS RVS-1,5	2018	40022222
	140	1190	50	0,40	370	20						
	230	2450	96	0,39	750	37						
VENT-V-160 N	170	1670	72	0,44	510	28	-20	+60	5	TLR 15 DS RVS-1,5	2018	40022223
	140	1140	51	0,39	350	19						
	230	2690	145	0,60	960	37						
VENT-V-200 N	170	2290	129	0,80	810	33	-20	+60	5	TLR 15 DS RVS-1,5	2018	40022224
	140	1780	99	0,80	630	28						
	230	2690	145	0,60	1000	44						
VENT-V-250 N	170	2330	130	0,80	860	41	-20	+60	6	TLR 15 DS RVS-1,5	2018	40022225
	140	1760	101	0,80	640	35						
	230	2750	247	1,10	1320	42						
VENT-V-315 N	170	2440	216	1,30	1 150	39	-20	+50	8	TLR 15 DS RVS-1,5	2018	40022226
	140	1940	164	1,30	910	34						

* Measured at a distance of 3m from the fan.

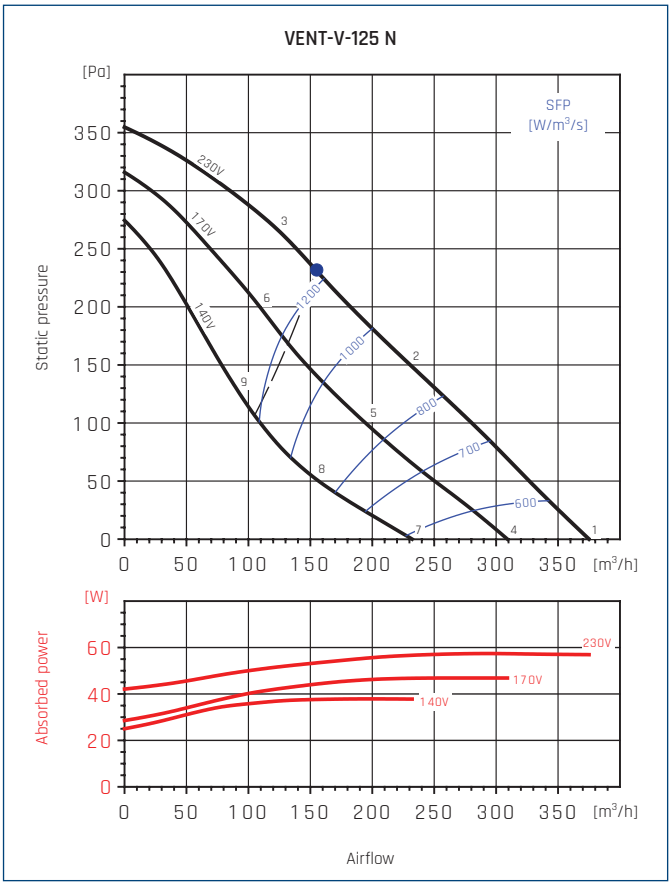
PERFORMANCE CURVES



● - highest efficiency point

ACOUSTIC CHARACTERISTICS

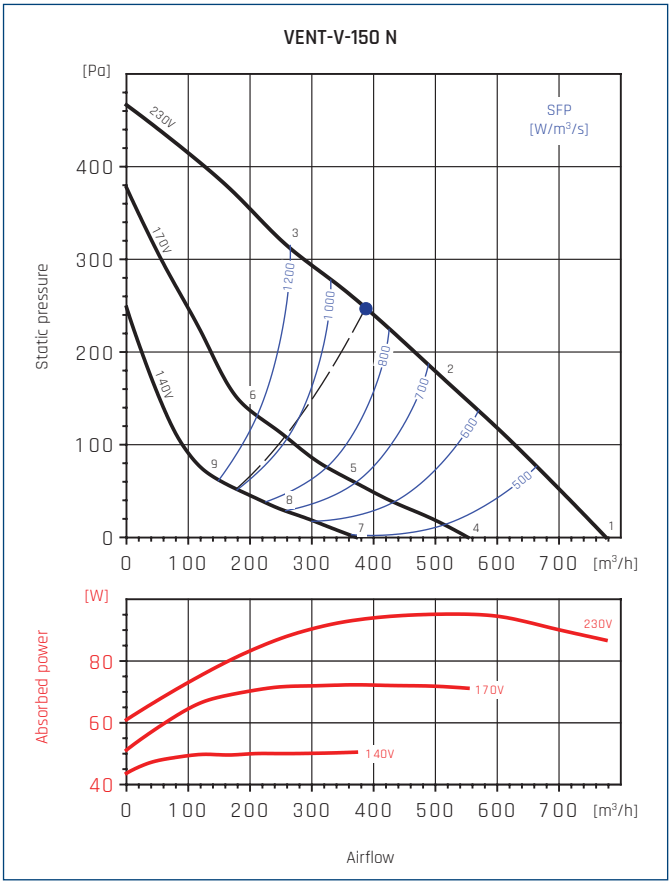
Hz/dB(A)		65	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	37	46	58	62	68	64	60	45	71
	Outlet	37	45	63	58	63	61	57	46	68
	Emitted	33	38	50	50	55	49	51	37	59
2	Inlet	39	45	56	60	66	62	56	43	69
	Outlet	38	44	61	56	61	59	54	43	66
	Emitted	35	37	48	48	53	47	47	34	56
3	Inlet	37	43	53	58	65	60	53	42	67
	Outlet	37	43	57	56	60	57	52	42	64
	Emitted	33	35	45	46	52	45	44	33	55
4	Inlet	33	42	54	58	64	60	56	42	67
	Outlet	33	41	59	54	59	57	53	42	64
	Emitted	29	34	46	46	51	45	47	33	55
5	Inlet	35	41	52	56	62	58	52	39	65
	Outlet	34	40	57	52	57	55	50	39	62
	Emitted	31	33	44	44	49	43	43	30	53
6	Inlet	35	41	51	56	63	58	51	40	65
	Outlet	35	41	55	54	58	55	50	40	62
	Emitted	31	33	43	44	50	43	42	31	53
7	Inlet	27	36	48	52	58	54	50	36	61
	Outlet	27	35	53	48	53	51	47	36	58
	Emitted	23	28	40	40	45	39	41	27	49
8	Inlet	30	36	47	51	57	53	47	34	59
	Outlet	29	35	52	47	52	50	45	34	57
	Emitted	26	28	39	39	44	38	38	25	47
9	Inlet	32	38	48	53	60	55	48	37	62
	Outlet	32	38	52	51	55	52	47	37	59
	Emitted	28	30	40	41	47	40	39	28	49



● - highest efficiency point

Hz/dB(A)		65	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	33	42	54	64	67	66	62	49	71
	Outlet	33	43	61	62	63	62	59	47	69
	Emitted	20	34	49	45	53	49	50	37	57
2	Inlet	34	42	53	64	66	64	58	47	70
	Outlet	34	43	59	62	62	60	56	45	67
	Emitted	21	34	48	45	52	47	46	35	55
3	Inlet	35	43	53	64	65	61	54	43	69
	Outlet	35	44	60	62	61	58	53	44	67
	Emitted	22	35	48	45	51	44	42	31	54
4	Inlet	29	38	50	60	63	62	58	45	67
	Outlet	29	39	57	58	59	58	55	43	65
	Emitted	16	30	45	41	49	45	46	33	53
5	Inlet	30	38	49	60	62	60	54	43	66
	Outlet	30	39	55	58	58	56	52	41	63
	Emitted	17	30	44	41	48	43	42	31	51
6	Inlet	33	41	51	62	63	59	52	41	67
	Outlet	33	42	58	60	59	56	51	42	65
	Emitted	20	33	46	43	49	42	40	29	52
7	Inlet	23	32	44	54	57	56	52	39	61
	Outlet	23	33	51	52	53	52	49	37	58
	Emitted	10	24	39	35	43	39	40	27	47
8	Inlet	24	32	43	54	56	54	48	37	60
	Outlet	24	33	49	52	52	50	46	35	57
	Emitted	11	24	38	35	42	37	36	25	46
9	Inlet	29	37	47	58	59	55	48	37	63
	Outlet	29	38	54	56	55	52	47	38	61
	Emitted	16	29	42	39	45	38	36	25	48

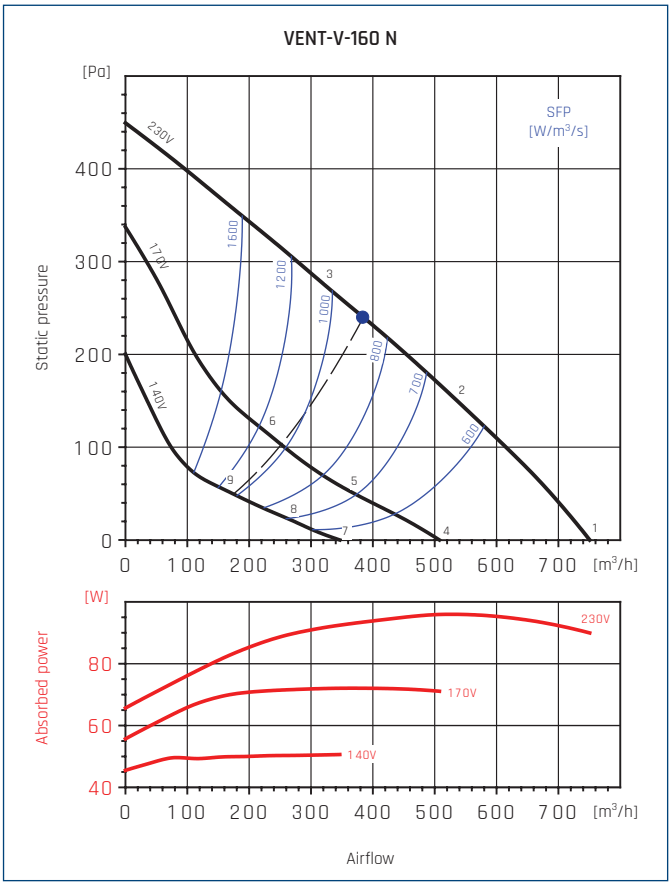
PERFORMANCE CURVES



● - highest efficiency point

ACOUSTIC CHARACTERISTICS

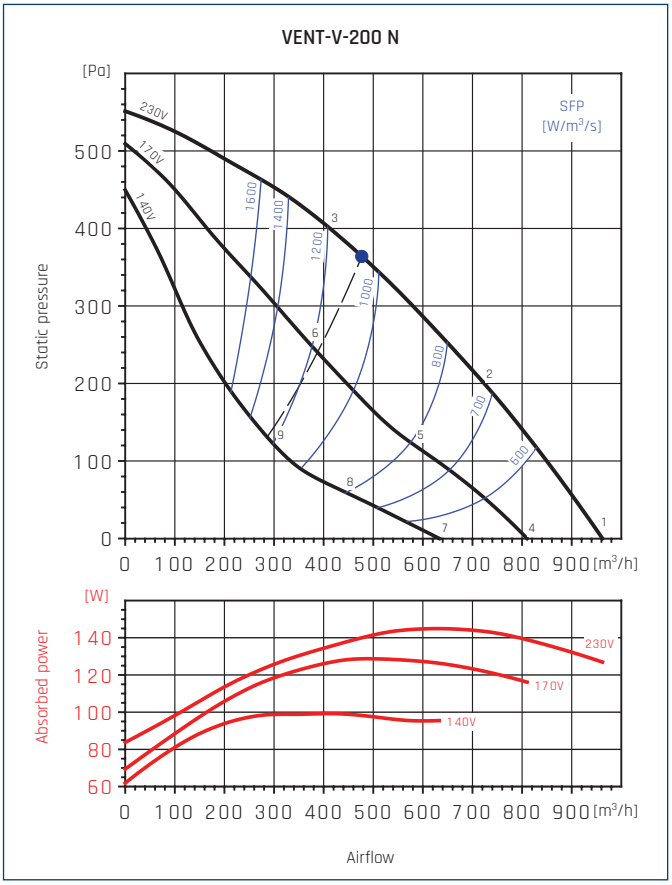
Hz/dB(A)		65	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	37	45	58	69	68	67	63	51	73
	Outlet	37	48	62	63	64	64	61	51	70
	Emitted	21	37	45	49	50	51	49	37	56
2	Inlet	35	44	58	68	67	65	60	48	72
	Outlet	35	47	59	62	63	63	58	48	69
	Emitted	19	36	45	48	49	49	46	34	55
3	Inlet	37	48	60	68	66	65	57	47	72
	Outlet	36	49	61	61	62	61	55	46	68
	Emitted	21	40	47	48	48	49	43	33	55
4	Inlet	29	37	50	61	60	59	55	43	66
	Outlet	29	40	54	55	56	56	53	43	62
	Emitted	13	29	37	41	42	43	41	29	49
5	Inlet	26	35	49	59	58	56	51	39	64
	Outlet	26	38	50	53	54	54	49	39	60
	Emitted	10	27	36	39	40	40	37	25	46
6	Inlet	32	43	55	63	61	60	52	42	67
	Outlet	31	44	56	56	57	56	50	41	63
	Emitted	16	35	42	43	43	44	38	28	50
7	Inlet	21	29	42	53	52	51	47	35	57
	Outlet	21	32	46	47	48	48	45	35	54
	Emitted	5	21	29	33	34	35	33	21	40
8	Inlet	18	27	41	51	50	48	43	31	55
	Outlet	18	30	42	45	46	46	41	31	51
	Emitted	2	19	28	31	32	32	29	17	38
9	Inlet	23	34	46	54	52	51	43	33	58
	Outlet	23	36	48	48	49	48	42	33	54
	Emitted	7	26	33	34	34	35	29	19	41



● - highest efficiency point

Hz/dB(A)		65	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	36	45	58	68	67	67	65	53	73
	Outlet	38	47	61	62	64	64	62	52	70
	Emitted	22	37	46	50	53	52	50	41	58
2	Inlet	33	45	57	68	67	65	61	50	72
	Outlet	34	47	57	63	63	63	58	49	69
	Emitted	19	37	45	50	53	50	46	38	57
3	Inlet	37	48	58	67	65	64	57	47	71
	Outlet	37	51	62	63	63	61	55	46	69
	Emitted	23	40	46	49	51	49	42	35	55
4	Inlet	27	36	49	59	58	58	56	44	64
	Outlet	29	38	52	53	55	55	53	43	61
	Emitted	13	28	37	41	44	43	41	32	49
5	Inlet	22	34	46	57	56	54	50	39	61
	Outlet	23	36	46	52	52	52	47	38	58
	Emitted	8	26	34	39	42	39	35	27	46
6	Inlet	29	40	50	59	57	56	49	39	63
	Outlet	29	43	54	55	55	53	47	38	61
	Emitted	15	32	38	41	43	41	34	27	47
7	Inlet	18	27	40	50	49	49	47	35	56
	Outlet	21	30	44	45	47	47	45	35	52
	Emitted	4	19	28	32	35	34	32	23	40
8	Inlet	15	27	39	50	49	47	43	32	54
	Outlet	16	29	39	45	45	45	40	31	50
	Emitted	1	19	27	32	35	32	28	20	38
9	Inlet	21	32	42	51	49	48	41	31	55
	Outlet	21	35	46	47	47	45	39	30	53
	Emitted	7	24	30	33	35	33	26	19	39

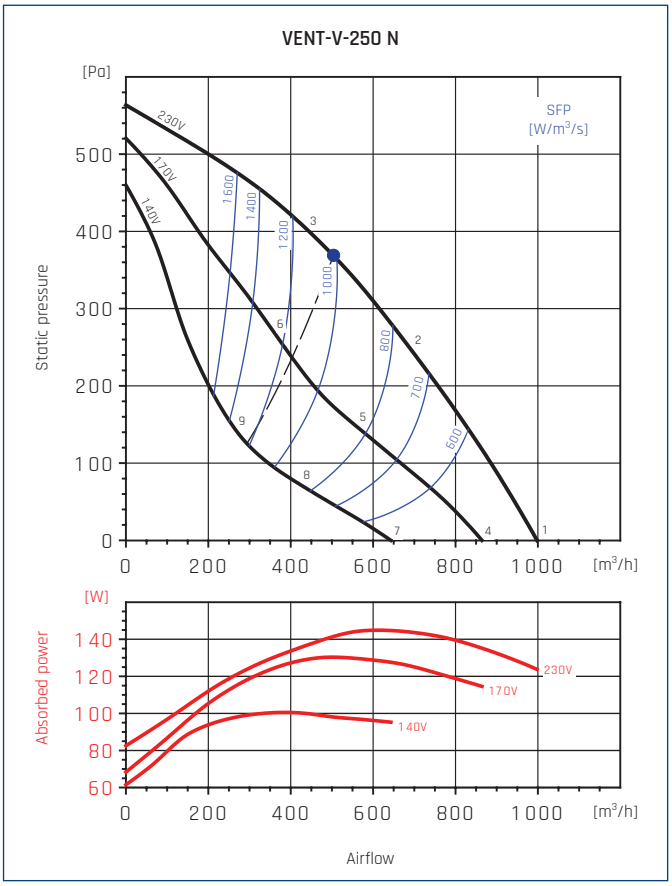
PERFORMANCE CURVES



● - highest efficiency point

ACOUSTIC CHARACTERISTICS

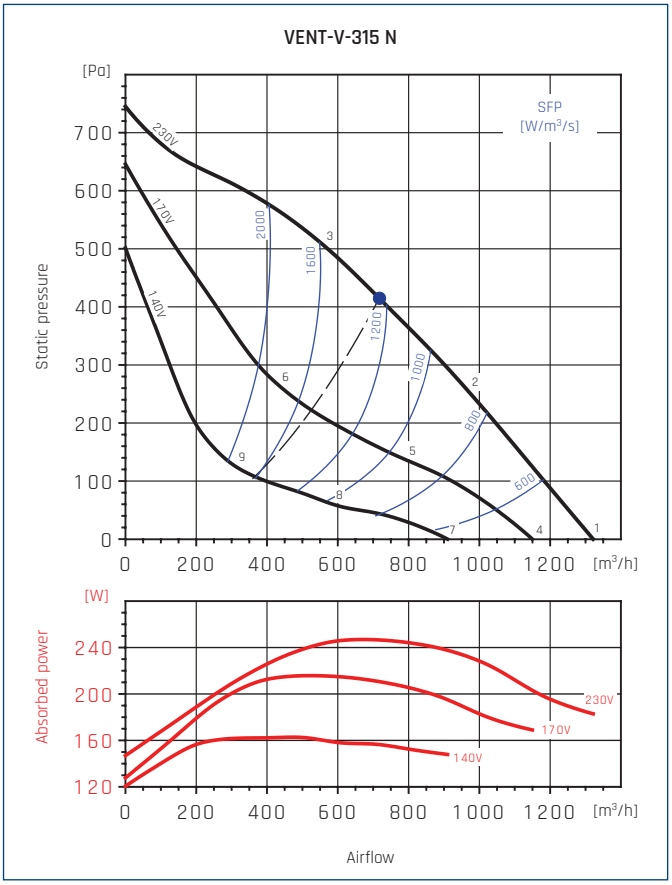
Hz/dB(A)		65	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	38	48	63	67	70	68	65	63	75
	Outlet	37	47	61	63	67	67	65	62	73
	Emitted	36	39	44	38	48	52	54	48	58
2	Inlet	36	46	62	64	67	64	61	55	71
	Outlet	37	46	62	61	63	63	61	54	69
	Emitted	34	37	43	35	45	48	50	40	54
3	Inlet	37	46	60	63	65	62	57	50	69
	Outlet	35	46	61	59	62	62	58	50	68
	Emitted	35	37	41	34	43	46	46	35	51
4	Inlet	34	44	59	63	66	64	61	59	71
	Outlet	34	44	58	60	64	64	62	59	69
	Emitted	32	35	40	34	44	48	50	44	54
5	Inlet	31	41	57	59	62	59	56	50	66
	Outlet	32	41	57	56	58	58	56	49	64
	Emitted	29	32	38	30	40	43	45	35	49
6	Inlet	32	41	55	58	60	57	52	45	65
	Outlet	30	41	56	54	57	57	53	45	63
	Emitted	30	32	36	29	38	41	41	30	46
7	Inlet	29	39	54	58	61	59	56	54	65
	Outlet	28	38	52	54	58	58	56	53	64
	Emitted	27	30	35	29	39	43	45	39	49
8	Inlet	24	34	50	52	55	52	49	43	59
	Outlet	25	34	50	49	51	51	49	42	57
	Emitted	22	25	31	23	33	36	38	28	42
9	Inlet	26	35	49	52	54	51	46	39	58
	Outlet	24	35	50	48	51	51	47	39	57
	Emitted	24	26	30	23	32	35	35	24	40



● - highest efficiency point

Hz/dB(A)		65	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	37	48	65	68	72	70	68	65	77
	Outlet	40	51	66	67	69	69	69	66	76
	Emitted	22	39	49	50	58	59	59	56	64
2	Inlet	36	46	63	64	68	66	66	59	73
	Outlet	39	49	63	63	65	64	66	59	72
	Emitted	21	37	47	46	54	55	57	50	61
3	Inlet	35	43	61	61	66	63	62	54	70
	Outlet	37	46	62	62	65	64	62	55	70
	Emitted	20	34	45	43	52	52	53	45	58
4	Inlet	34	45	62	65	69	67	65	62	73
	Outlet	37	48	63	64	66	66	66	63	72
	Emitted	19	36	46	47	55	56	56	53	61
5	Inlet	30	40	57	58	62	60	60	53	67
	Outlet	33	43	57	57	59	58	60	53	66
	Emitted	15	31	41	40	48	49	51	44	55
6	Inlet	30	38	56	56	61	58	57	49	66
	Outlet	32	41	57	57	60	59	57	50	66
	Emitted	15	29	40	38	47	47	48	40	53
7	Inlet	28	39	56	59	63	61	59	56	67
	Outlet	31	42	57	58	60	60	60	57	66
	Emitted	13	30	40	41	49	50	50	47	55
8	Inlet	24	34	51	52	56	54	54	47	61
	Outlet	27	37	51	51	53	52	54	47	59
	Emitted	9	25	35	34	42	43	45	38	49
9	Inlet	24	32	50	50	55	52	51	43	59
	Outlet	26	35	51	51	54	53	51	44	59
	Emitted	9	23	34	32	41	41	42	34	47

PERFORMANCE CURVES

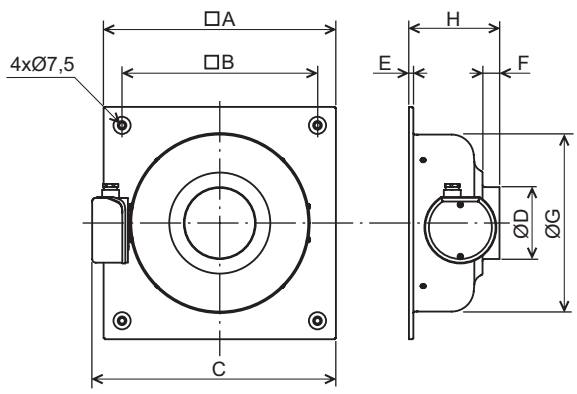


● - highest efficiency point

ACOUSTIC CHARACTERISTICS

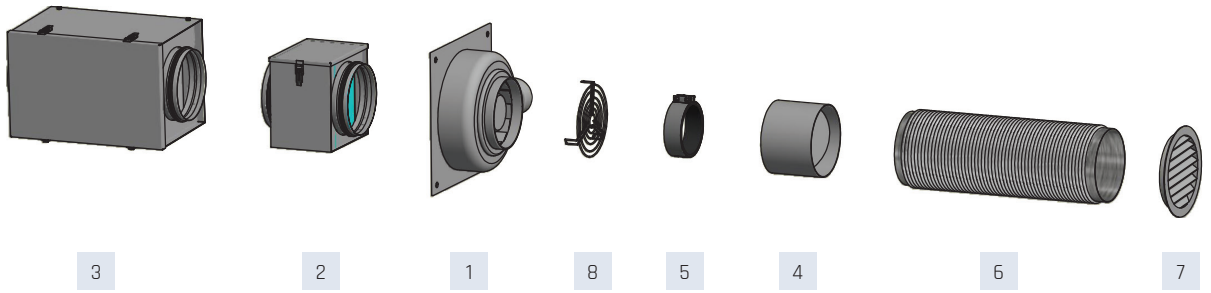
Hz/dB(A)		65	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	39	53	67	73	76	71	68	67	79
	Outlet	48	54	69	71	75	74	70	70	80
	Emitted	29	33	45	51	58	57	55	54	63
2	Inlet	38	55	67	73	73	69	67	63	78
	Outlet	49	55	70	71	74	72	69	64	79
	Emitted	28	35	45	51	55	55	54	50	61
3	Inlet	42	64	71	73	74	70	67	60	79
	Outlet	50	64	74	71	74	72	68	62	80
	Emitted	32	44	49	51	56	56	54	47	61
4	Inlet	36	50	64	70	73	68	65	64	77
	Outlet	45	51	66	68	72	71	67	67	77
	Emitted	26	30	42	48	55	54	52	51	60
5	Inlet	32	49	61	67	67	63	61	57	72
	Outlet	43	49	64	65	68	66	63	58	73
	Emitted	22	29	39	45	49	49	48	44	55
6	Inlet	35	57	64	66	67	63	60	53	72
	Outlet	43	57	67	64	67	65	61	55	73
	Emitted	25	37	42	44	49	49	47	40	55
7	Inlet	31	45	59	65	68	63	60	59	72
	Outlet	40	46	61	63	67	66	62	62	72
	Emitted	21	25	37	43	50	49	47	46	55
8	Inlet	25	42	54	60	60	56	54	50	65
	Outlet	36	42	57	58	61	59	56	51	66
	Emitted	15	22	32	38	42	42	41	37	47
9	Inlet	28	50	57	59	60	56	53	46	64
	Outlet	36	50	60	57	60	58	54	48	65
	Emitted	18	30	35	37	42	42	40	33	47

DIMENSIONS [mm]



Type	A	B	C	ØD	E	F	ØG	H
VENT-V -100 N	315	265	331	97,5	6	23	240	123
VENT-V -125 N	315	265	331	122,5	6	27	240	127
VENT-V -150 N	400	350	418	147	6	28	330	130
VENT-V -160 N	400	350	418	157	6	28	330	130
VENT-V -200 N	400	350	418	198	6	27	330	143
VENT-V -250 N	400	350	418	248	6	27	330	132
VENT-V -315 N	450	400	477	312	6	25	398	147

ACCESSORY ASSEMBLY



3 2 1 8 5 4 6 7

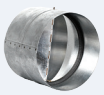
1	2	3				
Fan	channel filter DF	channel filter DF-K				
			cartridge filter to DF-K			
			EU3	EU5	EU7	EU9
VENT-V-100 N	40520610	40521710	40520800	40520805	40520810	40520820
VENT-V-125 N	40520620	40521715	40520800	40520805	40520810	40520820
VENT-V-150 N	40520640*	40521720*	40520800*	40520805*	40520810*	40520820*
VENT-V-160 N	40520640	40521720	40520800	40520805	40520810	40520820
VENT-V-200 N	40520640	40521725	40520800	40520805	40520810	40520820
VENT-V-250 N	40520650	40521730	40520800	40520805	40520810	40520820
VENT-V-315 N	40520660	40521735	40520830	40520835	40520840	-

1	4	5	6		7	8
Fan	backdraft shutter CAR-PL	anti-vibration connector ACOP PL	flexible silencer AKU COMP		vent KWO	protective mesh DEF-VENT
			0,6m	1,2m		
VENT-V-100 N	40521010-01	40521810	40521510	40521610	40522520	40522010
VENT-V-125 N	40521020-01	40521815	40521520	40521620	40522530	40522011
VENT-V-150 N	40521029-01	40521818	40521530*	40521630*	40522540*	40522012*
VENT-V-160 N	40521030-01	40521820	40521530	40521630	40522540	40522012
VENT-V-200 N	40521040-01	40521825	40521540	40521640	40522550	40522013
VENT-V-250 N	40521050-01	40521830	40521550	40521650	40522560	40522014
VENT-V-315 N	40521060-01	40521835	40521560	40521660	40522570	40522015

* ACCESSORY ASSEMBLY dedykowane do średnicy 160mm


channel filter **DF** p. 243


channel filter **DFK...+EU** p. 244


backdraft shutter **CAR-PL** p. 247


antivibration connector **ACOP-PL** p. 246


flexible silencer **AKU-COMP** p. 241


vent **KWO** p. 661


doffuser **AKT/AKK** p. 658


protective mesh **DEF-VENT** p. 246


heater **DH/DH-R** p. 233

ELECTRICAL ACCESSORIES

Fan	wall thermostat	duct thermostat	air quality sensor	humidistat	thyristor regulator		
	TS	TK-1	SQA	HIG-2	REB N	REB NE	TLR
VENT-V-100 N	40025345	40025330	40025140	40025150	40025010	40025020	40025025
VENT-V-125 N	40025345	40025330	40025140	40025150	40025010	40025020	40025025
VENT-V-150 N	40025345	40025330	40025140	40025150	40025010	40025020	40025025
VENT-V-160 N	40025345	40025330	40025140	40025150	40025010	40025020	40025025
VENT-V-200 N	40025345	40025330	40025140	40025150	40025010	40025020	40025025
VENT-V-250 N	40025345	40025330	40025140	40025150	40025010	40025020	40025025
VENT-V-315 N	40025345	40025330	40025140	40025150	40025030	40025040	40025045

Fan	11-speed thyristor regulator	2-adjustable 6-speed thyristor regulator	ERV	transformer regulator		transformer regulator 2-adjustable	
	IRF	RND-1		RMB	RVS	SC2	SC2A
VENT-V-100 N	-	40025630	-	40025060	40025232	40025250	40025251
VENT-V-125 N	-	40025630	-	40025060	40025232	40025250	40025251
VENT-V-150 N	-	40025630	40025046	40025060	40025232	40025250	40025251
VENT-V-160 N	-	40025630	40025046	40025060	40025232	40025250	40025251
VENT-V-200 N	40015154	40025630	40025046	40025060	40025232	40025250	40025251
VENT-V-250 N	40015154	40025630	40025046	40025060	40025232	40025250	40025251
VENT-V-315 N	40015154	40025630	40025046	40025060	40025232	40025250	40025251

wall thermostat **TS** p. 650

duct thermostat **TK-1** p. 650

air quality sensor **SQA** p. 645

humidistat **HIG-2** p. 645

thyristor regulator **REB** p. 638

thyristor regulator **TLR** p. 639

regulator **IRF** p. 639

regulator **RND-1** p. 641

regulator **ERV** p. 642

regulator **RMB** p. 640

regulator **RVS** p. 640

transformer regulator 2-adjustable p. 641

ERP CHARACTERISTICS

NRVU*					
	Name	VENT-V-100 N	VENT-V-125 N	VENT-V-150 N	VENT-V-160 N
a	supplier name	VENTURE INDUSTRIES / SOLER&PALAU	VENTURE INDUSTRIES / SOLER&PALAU	VENTURE INDUSTRIES / SOLER&PALAU	VENTURE INDUSTRIES / SOLER&PALAU
b	article number	40022220	40022221	40022222	40022223
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]	0,04	0,04	0,11	0,11
h	effective electric power input [kW]	0,05	0,05	0,09	0,09
i	SFP_{int} [$W/(m^3/s)$]	not applicable	not applicable	not applicable	not applicable
j	face velocity [m/s]	0,9	1	1,3	1,3
k	Δps, ext [Pa]	240	232	248	240
l	Δps, int [Pa]	not applicable	not applicable	not applicable	not applicable
m	Δps, add [Pa]	not applicable	not applicable	not applicable	not applicable
n	static efficiency of fans [%]	28,8	28,8	37,6	37,6
o	maximum external leakage rate [%]	3	3	3	3
p	maximum internal leakage rate [%]	not applicable	not applicable	not applicable	not applicable
q	energy performance	not applicable	not applicable	not applicable	not applicable
r	visual filter warning	not applicable	not applicable	not applicable	not applicable
s	L_{WA} [dB(A)]	55	54	55	55
	internet address	ventur.eu solerpalau.com	ventur.eu solerpalau.com	ventur.eu solerpalau.com	ventur.eu solerpalau.com

NRVU*				
	Name	VENT-V-200 N	VENT-V-250 N	VENT-V-315 N
a	supplier name	VENTURE INDUSTRIES / SOLER&PALAU	VENTURE INDUSTRIES / SOLER&PALAU	VENTURE INDUSTRIES / SOLER&PALAU
b	article number	40022224	40022225	40022226
c	device category	NRVU	NRVU	NRVU
c	device type	UVU	UVU	UVU
d	type of drive	variable speed drive	variable speed drive	variable speed drive
e	type of heat recovery system	not applicable	not applicable	not applicable
f	thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable
g	reference flow rate in NRVU [m^3/s]	0,13	0,14	0,2
h	effective electric power input [kW]	0,14	0,14	0,2
i	SFP_{int} [$W/(m^3/s)$]	not applicable	not applicable	not applicable
j	face velocity [m/s]	1,6	1,7	1,6
k	Δps, ext [Pa]	364	369	415
l	Δps, int [Pa]	not applicable	not applicable	not applicable
m	Δps, add [Pa]	not applicable	not applicable	not applicable
n	static efficiency of fans [%]	42,5	42,5	45,4
o	maximum external leakage rate [%]	3	3	3
p	maximum internal leakage rate [%]	not applicable	not applicable	not applicable
q	energy performance	not applicable	not applicable	not applicable
r	visual filter warning	not applicable	not applicable	not applicable
s	L_{WA} [dB(A)]	51	58	61
	internet address	ventur.eu solerpalau.com	ventur.eu solerpalau.com	ventur.eu solerpalau.com

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