DVC/DVCI

- 100% speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving

The DVC roof fans are driven by EC-external rotor motors, so called energy saving motors with high efficiency. The input voltage for single phase units can vary between 200 and 277V, for three phase units between 380 and 480V. All motors are suitable for 50Hz and 60Hz and from size 355 up to 630 suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. The DVC-P versions have integrated pressure sensors and the electronics are programmed for a pressure constant operation. Two potentiometers in the electronics allow for 2 set values (day/night), one additional contact for an external setting. Casing from seawater-resistant aluminum. Backward curved impellers manufactured from polyamide PA 6 for size 190 and 315. From 355 up to 630 impellers manufactured from seawater resistant aluminium.

ELECTRICAL ACCESSORIES

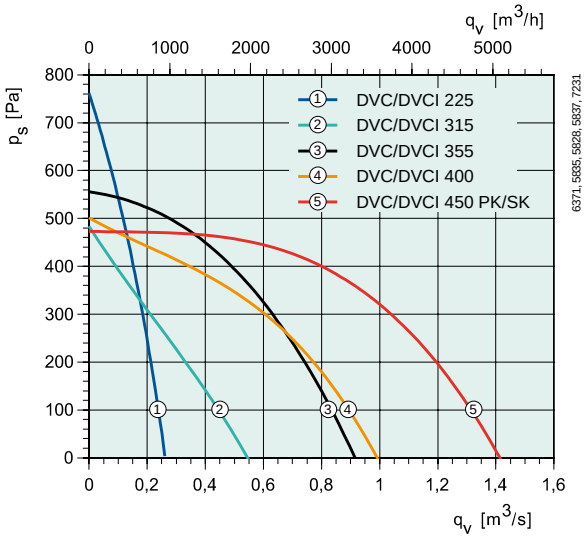
REV p. 340

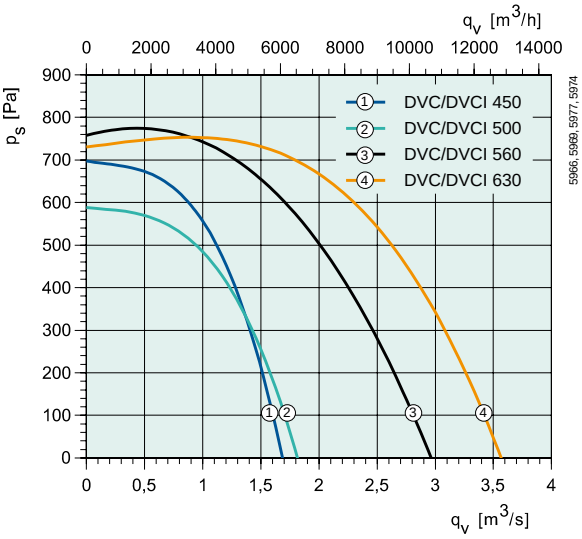
MTP 10 p. 341

MTV 1/010 p. 341

EC-vent p. 329-330

QUICK SELECTION

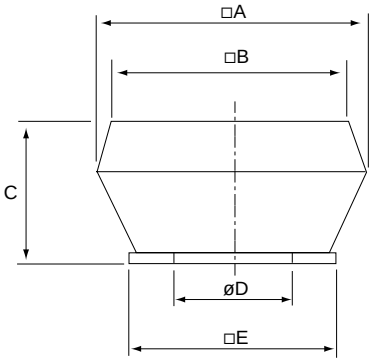


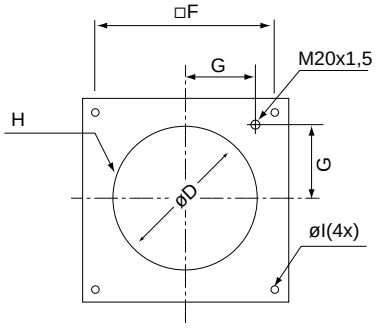


TECHNICAL DATA

DVC/DVCI		225-P/225-S	315-P/315-S	355-P/355-S	400-P/400-S	450-PK/450-SK
Art no. DVC-P/DVC-S	Tech. data is relating to DVC-S	30690/30667	30634/30619	30635/30620	30682/30622	31327/31427
Art no. DVC-P+REV/DVC-S +REV		30691/30725	30684/30585	30692/30621	30685/30623	–
Art no. DVCI-P/DVCI-S		30701/30693	30702/30694	30703/30695	30704/30696	33195/32744
Art no. DVC-P+REV/DVCI-S +REV		30717/30709	30718/30710	30719/30711	30720/30712	–
Voltage/Frequency	V/50/60 Hz	230 1~	230 1~	230 1~	230 1~	230 1~
Fan power consumption (P1)	W	166	173	378	381	614
Current	A	1.17	1.18	2.31	2.30	2.79
Max air flow	m³/s	0.261	0.546	0.918	1.00	1.43
R.p.m.	min-1	3278	1867	1657	1348	1300
Max temp. of transported air	°C	60	60	60	60	60
" when speed controlled	°C	60	60	60	60	60
Sound pressure level at 4 m/10 m, DVC	dB(A)	58/51	47/39	50/42	49/41	53/45
Sound pressure level at 4 m/10 m, DVCI	dB(A)	53/45	41/33	46/38	43/35	40/32
Weight, DVC/DVCI	kg	8/13	11/16	25/30	29/34	45/38
Insulation class, motor		B	B	B	B	B
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 54
Speed control, electronic		MTP 10	MTP 10	MTP 10	MTP 10	MTP 10
Wiring diagram p. 391-400		23b/24	23b/24	23b/24	23b/24	28/25

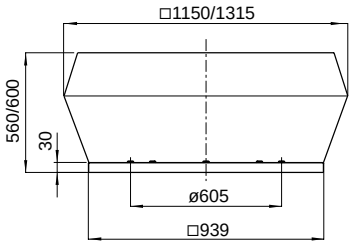
DIMENSIONS

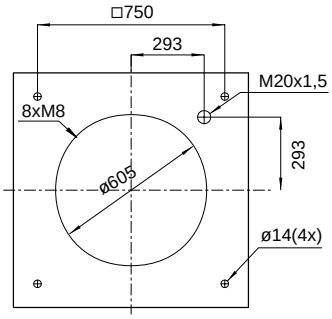




DVC/DVCI	□A	□B	C	øD	□E	□F	G	H	øI
190-225	370/497	295	170/179	213	335	245	105	6xM6	10(4x)
315	560/690	470	330	285	435	330	146	6xM6	10(4x)
355-400	720/874	618	390/439	438	595	450	200	6xM8	12(4x)
450-500	900/968	730/748	465/479	438	665	535	237	6xM8	12(4x)

DVC 560-630





VENTILATION ACCESSORIES


SSD p. 374


FDS p. 374


ASK p. 380


VKS p. 380

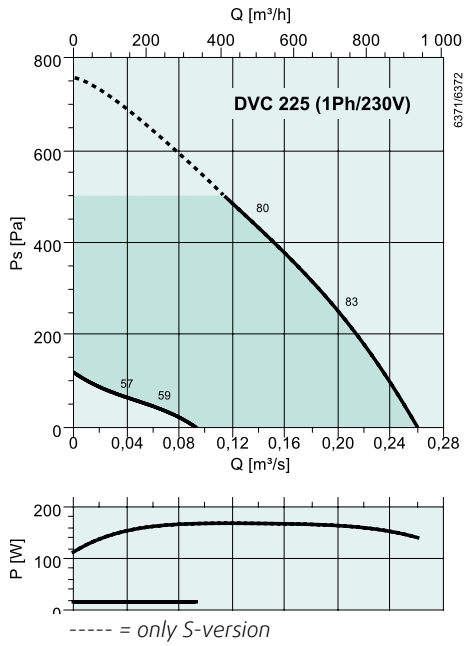

ASS p. 381


ASF p. 375

Roof fans

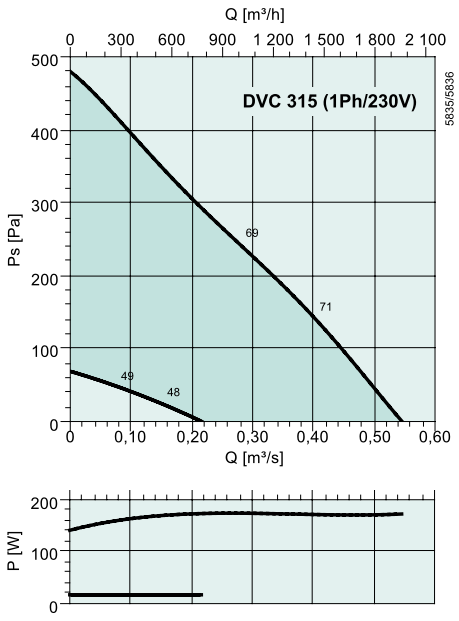
DVC		450-P/450-S	500-P/500-S	560-P/560-S	630-P/630-S	
Art no. DVC-P/DVC-S	Tech. data is relating to DVC-S	30683/30626	30679/30628	30680/30630	30681/30632	
Art no. DVC-P + REV/DVC-S + REV		30686/30627	30687/30629	30688/30631	30689/30633	
Art no. DVCI-P/DVCI-S		30705/30697	30706/30698	30707/30699	30708/30700	
Art no. DVCI-P + REV/DVCI-S + REV		30721/30713	30722/30714	30723/30715	30724/30716	
Voltage/Frequency	V/50/60 Hz	400 3~	400 3~	400 3~	400 3~	
Power	W	1048	984	1873	2444	
Current	A	1.79	1.66	2.88	3.72	
Max air flow	m^3/s	1.70	1.84	2.99	3.59	
R.p.m.	min-1	1558	1339	1359	1209	
Max temp. of transported air	°C	60	60	60	60	
" when speed controlled	°C	60	60	60	60	
Sound pressure level at 4/10 m, DVC	dB(A)	51/48	55/47	63/55	64/56	
Sound pressure level at 4/10 m, DVCI	dB(A)	50/42	51/43	55/47	57/49	
Weight, DVC/DVCI	kg	45/43	49/57	58/70	85/65	
Insulation class, motor		B	B	F	F	
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54	
Speed control, electronic		MTP 10	MTP 10	MTP 10	MTP 10	
Wiring diagram p. 391-400		26/27	26/27	26/27	26/27	

PERFORMANCE

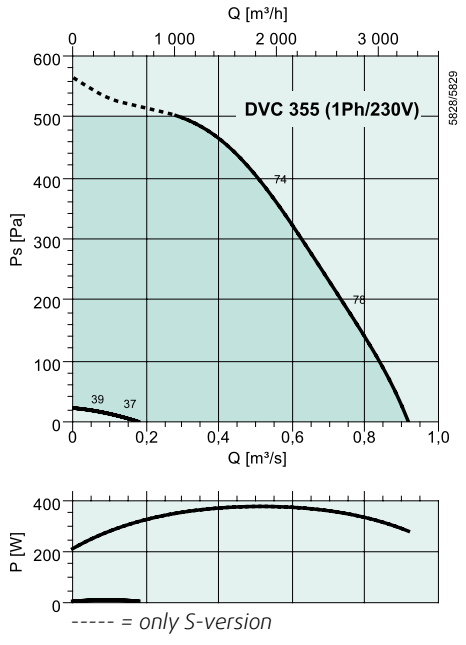


----- = only S-version

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	78	44	58	64	74	72	72	70	60
L_{wA} Surrounding	82	45	58	62	77	74	77	73	63
With SSD									
L_{wA} Inlet	70	41	59	63	65	64	61	56	49
Measurement point: 0,13 m³/s; 448 Pa									

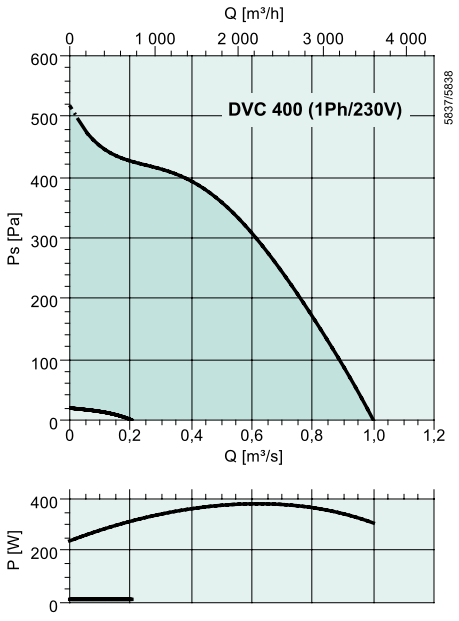


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	67	41	56	59	63	59	55	54	49
L_{wA} Surrounding	70	42	57	60	67	64	59	56	49
With SSD									
L_{wA} Inlet	60	31	49	53	55	54	51	46	39
Measurement point: 0,28 m³/s; 243 Pa									

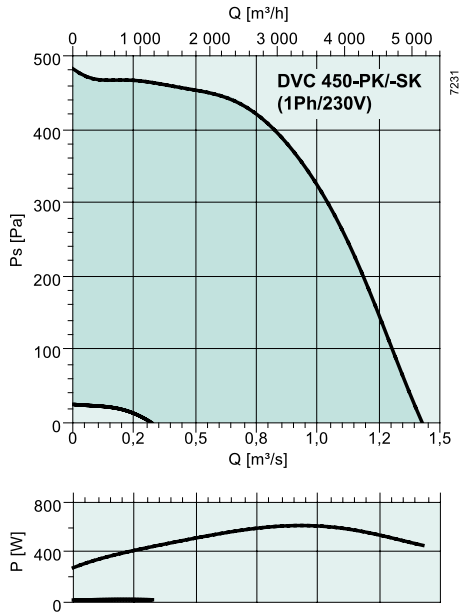


----- = only S-version

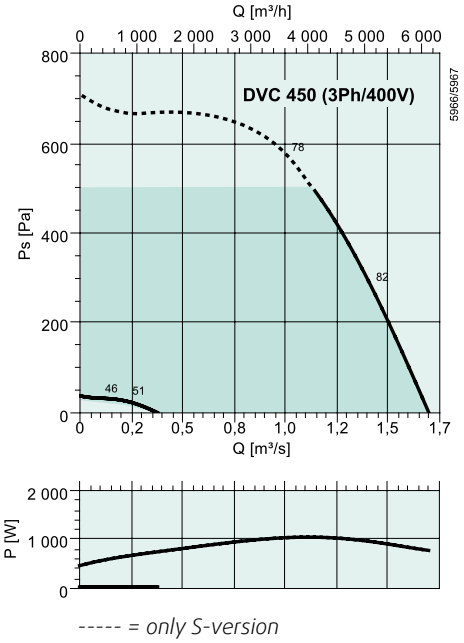
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	71	37	65	62	65	63	62	60	56
L_{wA} Surrounding	73	38	60	66	68	67	65	62	56
With SSD									
L_{wA} Inlet	64	35	53	57	59	58	55	50	43
Measurement point: 0,54 m³/s; 378 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	70	40	59	67	67	60	59	60	59
L_{wA} Outlet	72	40	56	67	67	64	62	61	56
With SSD									
L_{wA} Inlet	63	34	52	56	58	57	54	49	42
Measurement point: 0,748 m³/s; 210 Pa									

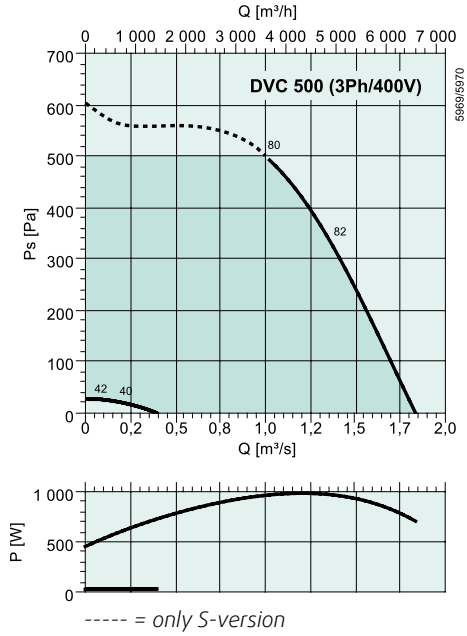


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	74	61	63	67	69	68	65	60	53
L_{wA} Surrounding	76	63	65	69	71	70	67	62	55
With SSD									
L_{wA} Inlet	64	58	58	58	56	48	40	38	36
Measurement point: 0,56 m³/s; 450 Pa									



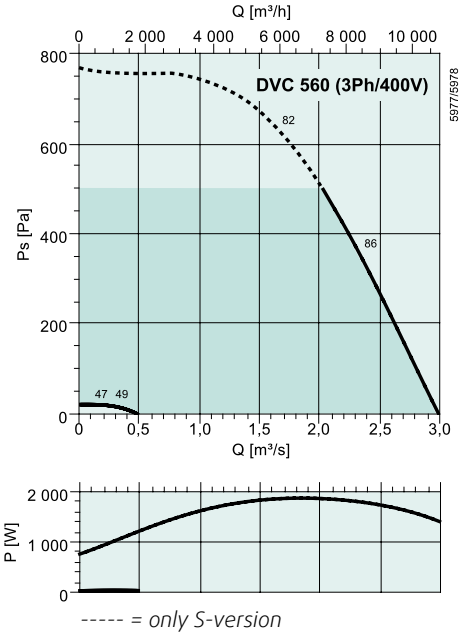
----- = only S-version

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	77	43	63	70	70	65	67	71	69
L_{wA} Surrounding	78	47	64	71	73	70	69	71	68
With SSD									
L_{wA} Inlet	70	41	59	63	65	64	61	56	49
Measurement point: 1,01 m³/s; 566 Pa									



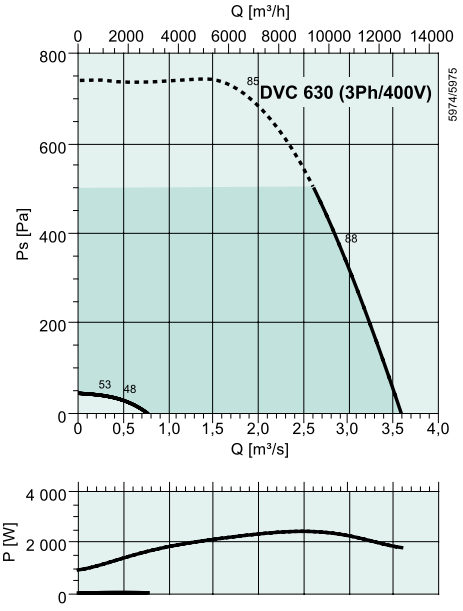
----- = only S-version

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	77	40	64	75	69	66	65	64	61
L_{wA} Surrounding	78	42	63	72	73	70	68	67	61
With SSD									
L_{wA} Inlet	70	41	59	63	65	64	61	56	49
Measurement point: 0,99 m³/s; 503 Pa									



----- = only S-version

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	81	48	70	71	73	69	75	77	69
L_{wA} Surrounding	86	53	74	78	80	77	78	80	71
With SSD									
L_{wA} Inlet	75	46	64	68	70	69	66	61	54
Measurement point: 1,66 m³/s; 630 Pa									



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dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	82	47	74	78	75	69	71	74	67
L_{wA} Surrounding	87	52	77	77	81	78	78	80	70
With SSD									
L_{wA} Inlet	76	47	65	69	71	70	67	62	55
Measurement point: 1,83 m^3/s; 713 Pa									