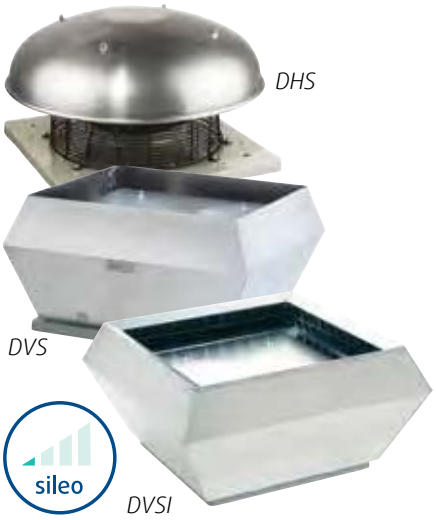


DHS with horizontal outlet.
DVS with vertical outlet.
DVSI has a 50 mm mineral wool insulation for lower noise levels.

DHS sileo / DVS sileo / DVSI sileo

- High efficiency
- Speed-controllable
- Integral thermal contacts
- Excellent sound level
- Extensive range of accessories
- Maintenance-free and reliable

The DVS/DHS/DVSI sileo is well suited for applications requiring high air volumes at medium pressure and very low noise levels. These models have 3D profiled impellers with backward curved blades and external rotor motors.

All motors are speed controllable by voltage. For speed controlling of the DVS/DHS/DVSI sileo roof fans with a frequency converter, an all pole sine filter is required. The motors are suspended on effective vibration dampers.

DVS/DHS/DVSI sileo... E4 / E6 / EZ: 1~ motor
DVS/DHS/DVSI sileo ...DV / DS: 3~ with Y/D-connection for 2-speeds

To protect the motors from overheating the sileo range motors are equipped with thermal contacts with external leads for connection to a TK triggering device.

The casing is made from aluminum and the base frame from galvanized steel. Suitable for coastal applications. The impellers of the sileo types are manufactured from high-performance composite material with highly efficient 3D fan blade profile technology.

Electrical accessories


S-ET/STDT p. 373


RTRE p. 356


RTRD/RTRDU p. 357


REU p. 356


REE p. 357


S2S 160 p. 381


S-DT2 SKT p. 381

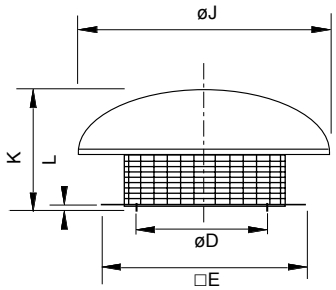
Technical data

DHS/DVS/DVSI sileo		190EZ	225EZ	311EV	400DS	400DV	400E4	400E6
Technical data is relating to DVS								
Art. no. DHS		36290	36369	36064	36121	36122	36123	36124
Art. no. DVS		36289	36370	36068	36099	36109	36100	36101
Art. no. DVSI		36291	36371	36079	36110	36111	36112	36113
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	400 3~	400 3~	230 1~	230 1~
Power	W	52.4	110	132	123	491	466	152
Current	A	0.231	0.466	0.574	0.255	1.21	2.32	0.654
Max. air flow	m3/s	0.151	0.232	0.464	0.691	1.16	1.11	0.772
R.p.m.	min-1	2337	2560	1342	779	1408	1344	896
Max. temp. of transported air	°C	65	60	60	60	60	60	60
" when speed controlled	°C	65	60	60	60	60	60	60
Sound pressure level DVS**	dB(A)	47/39	42/34	44/36	33/25	46/38	46/38	36/28
Weight	kg	5.5/5/7	6.5/6/12	13/14/19	21/25/41	24/28/42	24/27/44	21/23.5/42
Insulation class, motor		B	F	B	F	F	F	F
Enclosure class, motor		44	44	44	IP 54	IP 54	IP 54	IP 54
Capacitor	µF	1.5	3	4	–	–	9	5
Wiring diagram p. 442-461		20	20	20	18a	16	6b	6b

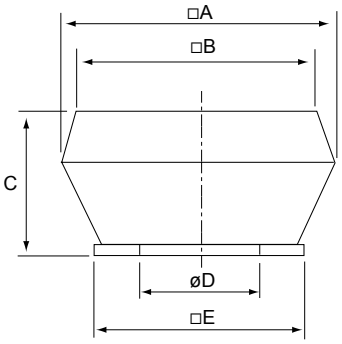
** at 4/10 m. DHS +2 dB, DVSI -9 dB

Dimensions

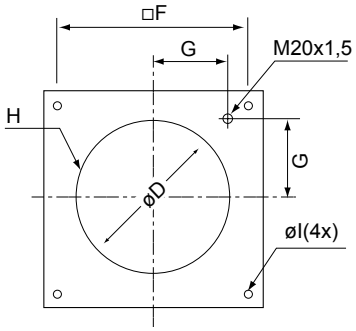
DHS 190-500



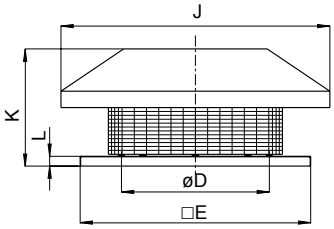
DVS/DVSI



DHS/DVS/DVSI



DHS 560-630



DHS sileo	□A	□B	C	øD	□E	□F	G	H	øI	J	K	L
190, 225	-	-	-	213	335	245	105	6xM6	10	ø417	150	30
311	-	-	-	285	435	330	146	6xM6	10	ø540	250	30
400	-	-	-	438	595	450	200	6xM8	12	ø720	330	30
450-500	-	-	-	438	665	535	237	6xM8	12	ø830	490	30
560-630	-	-	-	605	939	750	293	8xM8	14	□1100	535	30

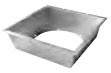
DVS sileo	□A	□B	C	øD	□E	□F	G	H	øI	J	K	L
190, 225	370	295	170	213	335	245	105	6xM6	10	-	-	-
311	560	470	330	285	435	330	146	6xM6	10	-	-	-
400	720	618	390	438	595	450	200	6xM8	12	-	-	-
450-500	900	730	465	438	665	535	237	6xM8	12	-	-	-
560-630	1150	960	560	605	939	750	293	8xM8	14	-	-	-

DVSI sileo	□A	□B	C	øD	□E	□F	G	H	øI	J	K	L
190, 225	497	295	179	213	335	245	105	6xM6	10	-	-	-
311	690	470	369	285	435	330	146	6xM6	10	-	-	-
400	874	618	439	438	595	450	200	6xM8	12	-	-	-
450-500	968	748	479	438	665	535	237	6xM8	12	-	-	-
560-630	1315	960	600	605	939	750	293	8xM8	14	-	-	-

Ventilation accessories


SSD p. 419


FDS p. 420


ASK p. 418


VKS p. 427

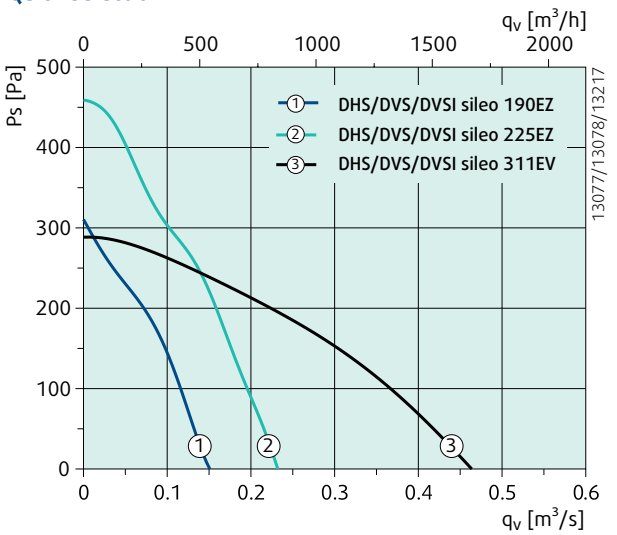

ASS p. 415

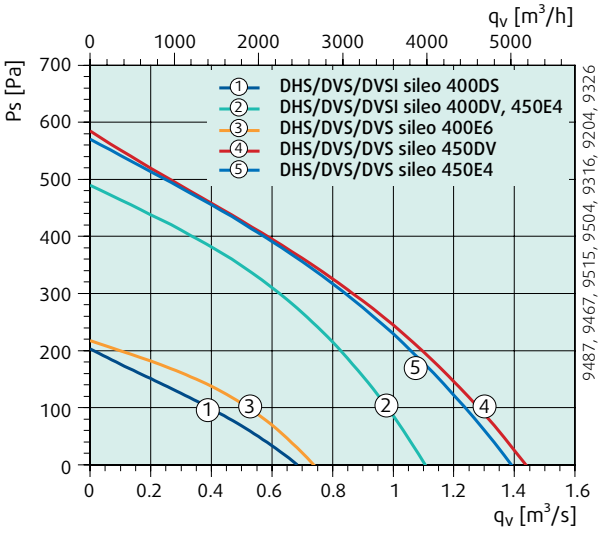

ASF p. 415

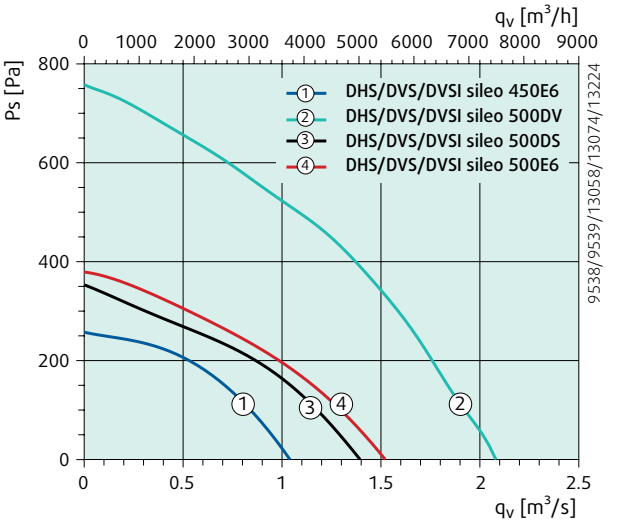
DHS/DVS/DVSI sileo		450DV	450E4	450E6	500DV
Technical data is relating to DVS					
Art. no. DHS		36125	36126	36127	33356
Art. no. DVS		36102	36103	36104	33324
Art. no. DVSI		36114	36115	36116	33340
Voltage/Frequency	V/50 Hz	400 3~	230 1~	230 1~	400 3~
Power	W	683	659	280	1241
Current	A	1.37	2.86	1.34	2.24
Max. air flow	m3/s	1.51	1.46	1.04	2.08
R.p.m.	min-1	1363	1305	939	1337
Max. temp. of transported air	°C	60	60	60	60
" when speed controlled	°C	60	60	60	60
Sound pressure level DVS**	dB(A)	49/41	49/41	40/32	53/45
Weight	kg	29/38/53	32/40/56	28/38.5/53	30/48/62.5
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54
Capacitor	µF	–	14	8	–
Wiring diagram p. 442-461		16	6b	6b	18a

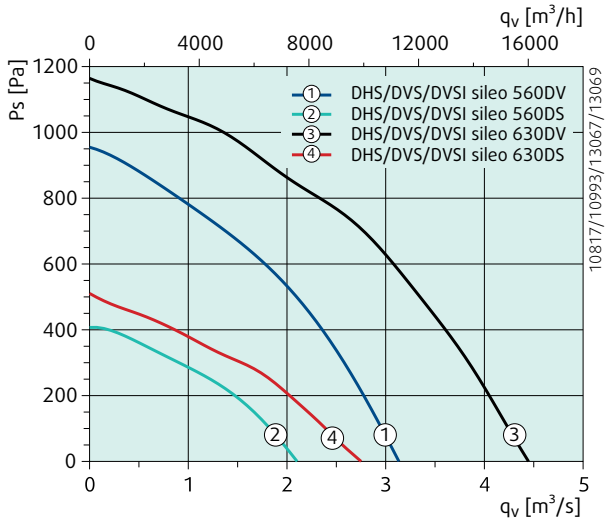
**) at 4/10 m. DHS +2 dB, DVSI -9 dB

Quick selection









DHS/DVS/DVSI sileo		500DS	500E6	560DV	560DS	630DV	630DS
Technical data is relating to DVS							
Art. no. DHS		36128	36129	36131	36130	33361	33362
Art. no. DVS		36105	36106	36108	36107	33329	33330
Art. no. DVSI		36117	36118	36120	36119	33345	33346
Voltage/Frequency	V/50 Hz	400 3~	230 1~	400 3~	400 3~	400 3~	400 3~
Power	W	446	504	2246	692	3991	1113
Current	A	1.08	2.14	4.15	1.54	6.64	2.34
Max. air flow	m^3/s	1.4	1.52	3.13	2.1	4.45	2.75
R.p.m.	min^{-1}	918	889	1347	884	1355	854
Max. temp. of transported air	°C	60	60	60	60	55	60
" when speed controlled	°C	60	60	60	60	55	60
Sound pressure level DVS**	dB(A)	42/34	38/30	53/45	43/35	62/54	46/38
Weight	kg	30/40/56.5	30/40/56.5	63/69/78	51/64/92	65/87.5/110	65/70/93
Insulation class, motor		F	F	F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Capacitor	µF	–	12	–	–	–	–
Wiring diagram p. 442-461		18a	6b	18a	18a	18a	18a

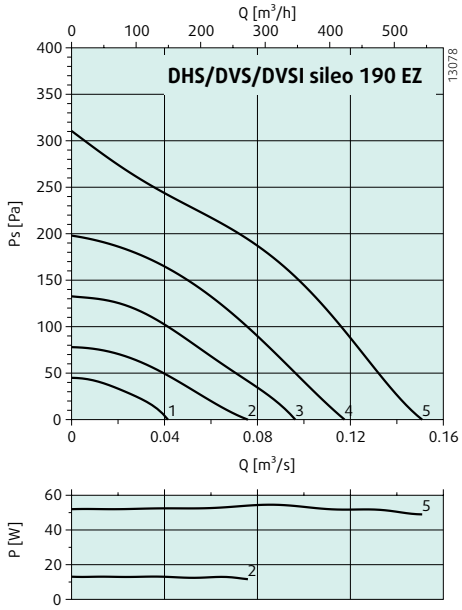
** at 4/10 m. DHS +2 dB, DVSI -9 dB

Speed control

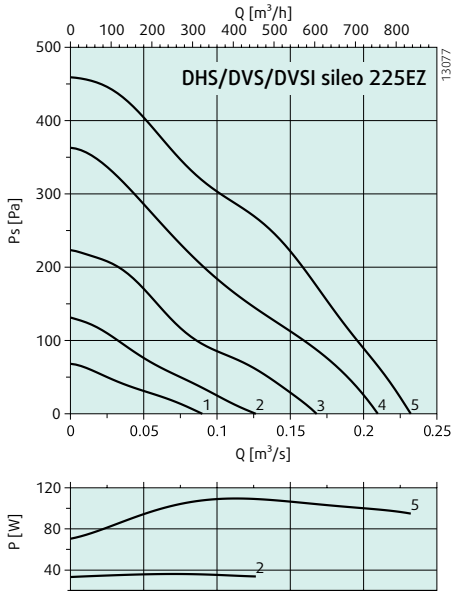
DHS/DVS/DVSI sileo	*Transformer* Five step	*Transformer* Five step high/low	*Electronic* Two step	*Thyristor* Stepless
190EZ, 225EZ, 311EV	-	REU 1.5	-	REE 1
450E6, 500E6	RTRE 3	REU 3	–	REE 2
400E6	RTRE 1.5	REU 1.5	–	REE 1
400E4, 450E4	RTRE 3	REU 3	–	REE 4
400DV/DS, 500DS, 560DS	RTRD 2	RTRDU 2	S-DT2SKT	–
500DV, 560DV	RTRD 4	RTRDU 4	S-DT2SKT	–
630DV	RTRD 14	–	S-DT2SKT	–

+ motor protection S-ET 10/STDT 16

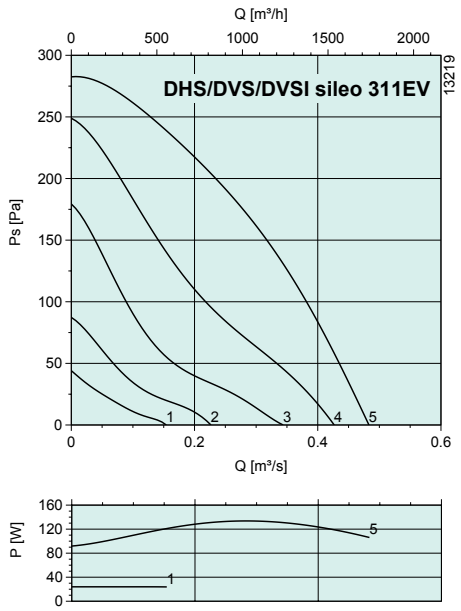
Performance



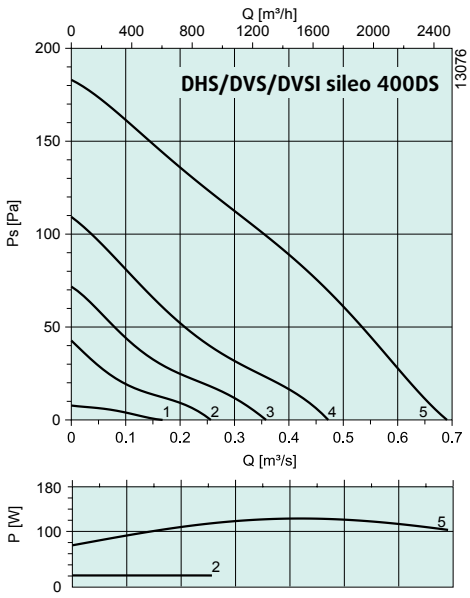
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	68	39	57	61	63	62	59	54	47
L_{wA} Surrounding	69	40	58	62	64	63	60	55	48
DVSI									
L_{wA} Surrounding	64	51	53	57	59	58	55	50	43
Measurement point: 0.09 m^3/s @ 167 Pa									



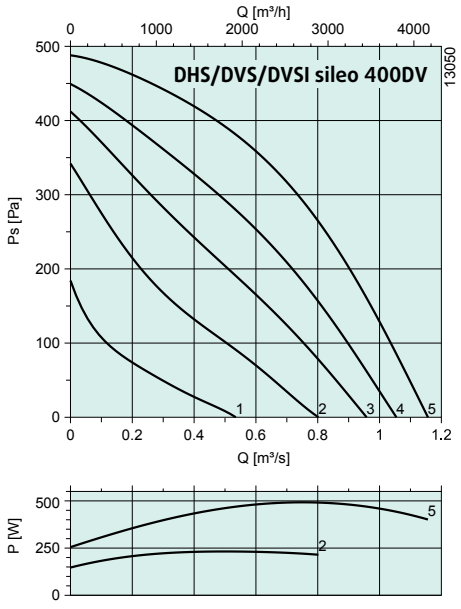
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	68	39	57	61	63	62	59	54	47
L_{wA} Surrounding	69	40	58	62	64	63	60	55	48
DVSI									
L_{wA} Surrounding	64	51	53	57	59	58	55	50	43
Measurement point: 0.14 m^3/s @ 245 Pa									



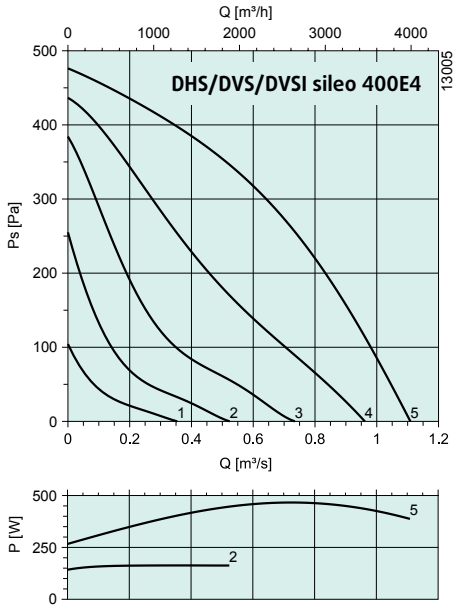
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	65	52	54	58	60	59	56	51	44
L_{wA} Surrounding	67	54	56	60	62	61	58	53	46
DVSI									
L_{wA} Surrounding	58	51	51	53	51	45	38	36	30
Measurement point: 0.28 m^3/s @ 167 Pa									



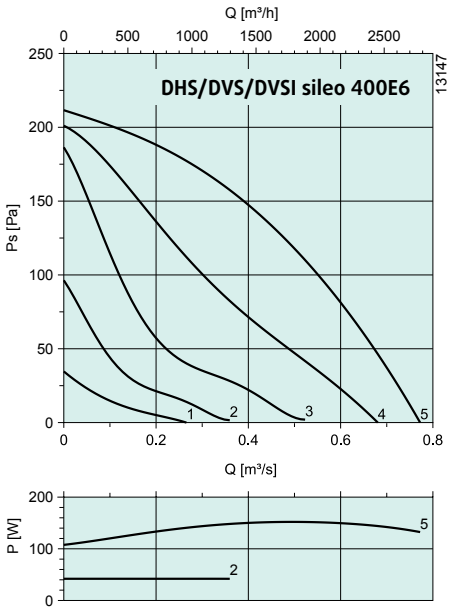
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	55	44	48	47	49	46	41	41	26
L_{wA} Surrounding	55	34	42	52	48	47	42	42	27
DVSI									
L_{wA} Surrounding	46	25	33	43	39	38	33	33	18
Measurement point: 0.38 m^3/s @ 94 Pa									



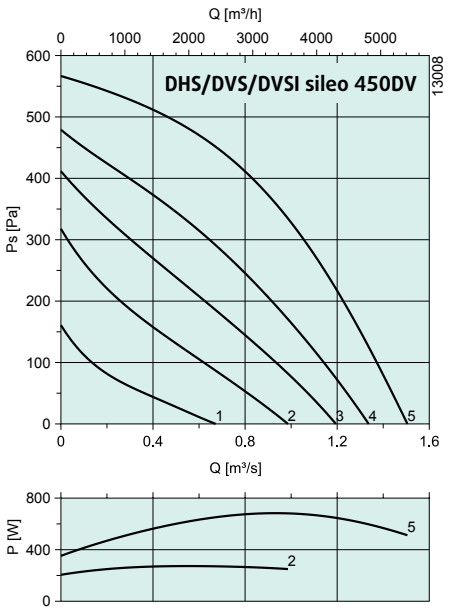
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	72	48	68	67	63	57	54	49	47
L_{wA} Surrounding	72	49	70	64	64	62	57	51	49
DVSI									
L_{wA} Surrounding	64	37	57	59	59	55	49	43	42
Measurement point: 0.70 m^3/s @ 320 Pa									



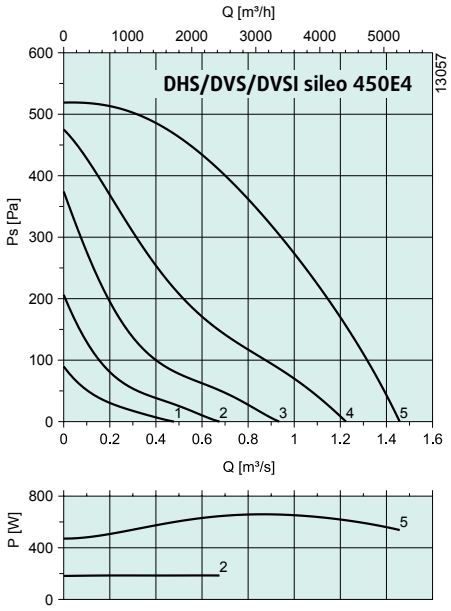
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	66	36	58	62	61	56	54	50	51
L_{wA} Surrounding	68	37	57	61	63	61	57	52	50
DVSI									
L_{wA} Surrounding	64	38	57	60	59	55	47	43	43
Measurement point: 0.61 m^3/s @ 314 Pa									



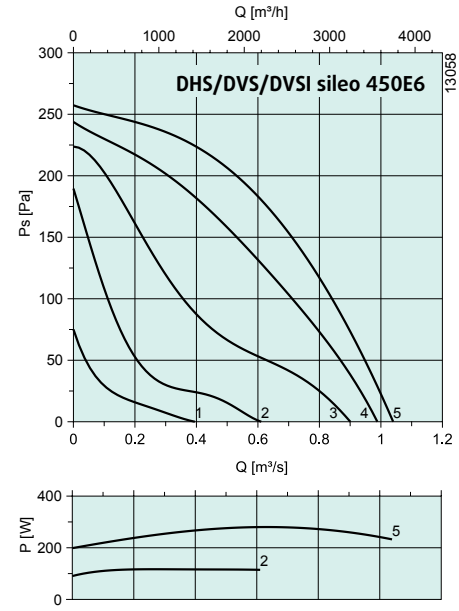
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	56	36	50	50	52	45	41	39	28
L_{wA} Surrounding	60	44	53	54	54	51	46	43	33
DVSI									
L_{wA} Surrounding	56	35	50	50	53	43	38	42	25
Measurement point: 0.42 m^3/s @ 141 Pa									



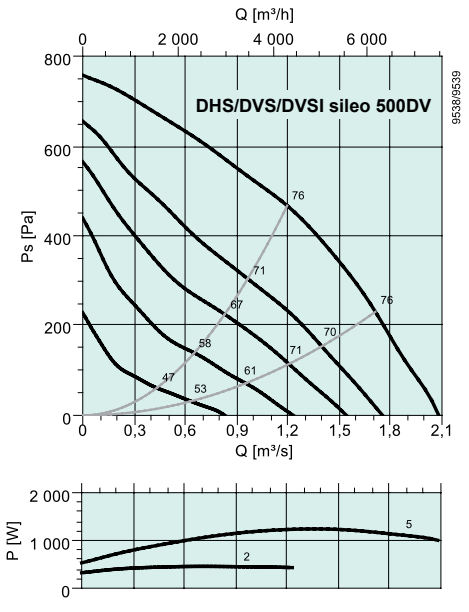
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	66	40	57	60	61	57	55	52	52
L_{wA} Surrounding	70	40	55	62	66	64	59	54	51
DVSI									
L_{wA} Surrounding	64	42	57	59	59	56	49	44	44
Measurement point: 0.91 m^3/s @ 372 Pa									



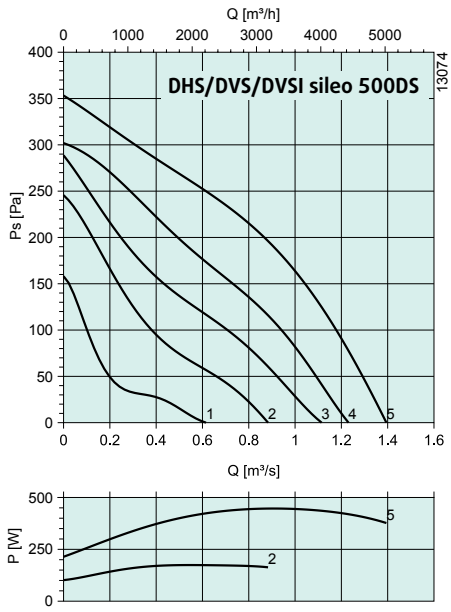
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	69	42	56	64	63	60	58	56	53
L_{wA} Surrounding	72	47	58	67	67	66	61	55	50
DVSI									
L_{wA} Surrounding	66	46	58	61	60	58	50	45	40
Measurement point: 0.81 m^3/s @ 361 Pa									



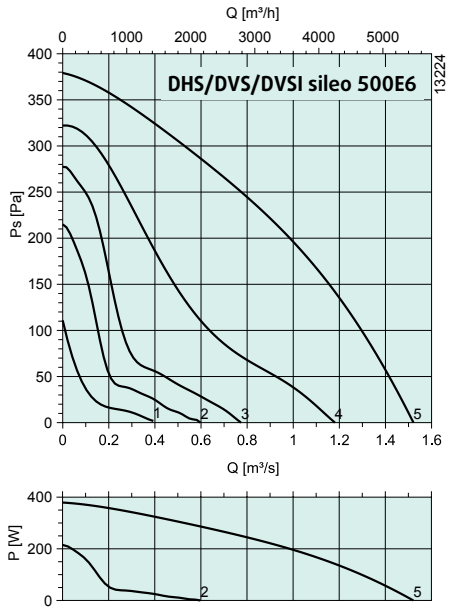
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	57	37	45	53	53	48	46	44	35
L_{wA} Surrounding	62	38	49	58	59	54	49	44	33
DVSI									
L_{wA} Surrounding	58	31	46	53	52	45	38	38	26
Measurement point: 0.63 m^3/s @ 177 Pa									



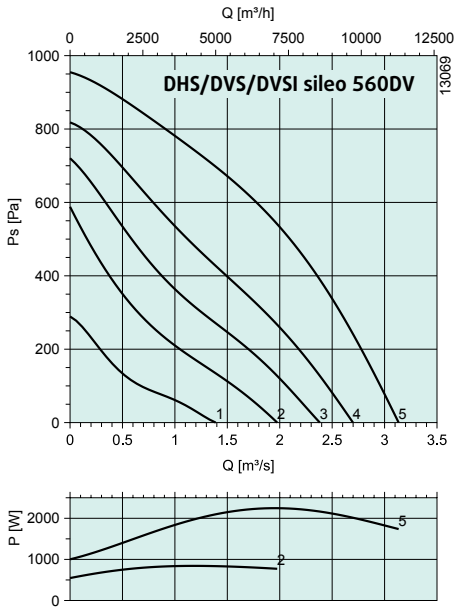
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	76	47	62	73	69	66	62	59	57
L_{wA} Surrounding	77	47	65	68	73	71	67	62	57
DVSI									
L_{wA} Surrounding	73	52	64	67	67	65	61	58	57
Measurement point: 1.25 m^3/s @ 449 Pa									



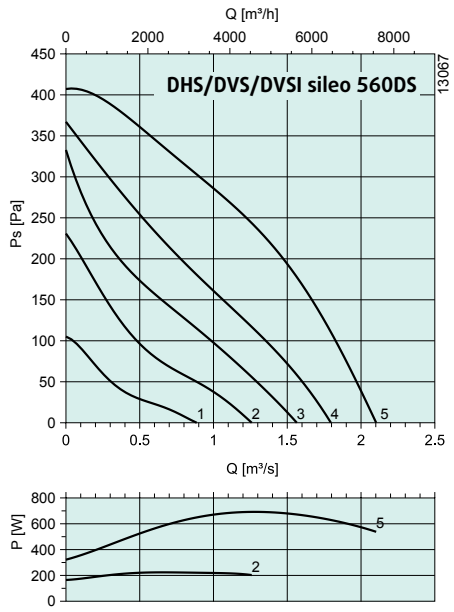
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	62	46	55	57	56	51	49	46	38
L_{wA} Surrounding	64	41	50	60	59	56	52	48	40
DVSI									
L_{wA} Surrounding	61	44	51	58	54	52	43	38	34
Measurement point: 0.84 m^3/s @ 207 Pa									



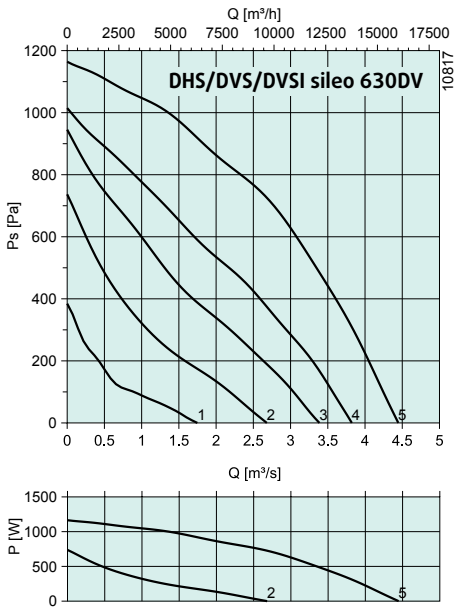
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	63	42	55	58	58	51	49	45	38
L_{wA} Surrounding	62	41	48	57	58	55	50	44	37
DVSI									
L_{wA} Surrounding	58	42	50	54	52	48	41	36	30
Measurement point: 0.84 m^3/s @ 236 Pa									



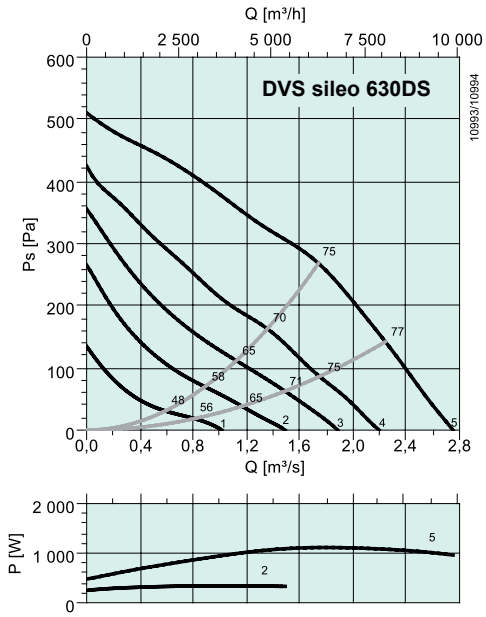
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	73	44	62	66	68	67	64	59	52
L_{wA} Surrounding	75	46	64	68	70	69	66	61	54
DVSI									
L_{wA} Surrounding	66	59	59	61	59	53	46	44	38
Measurement point: 1.89 m^3/s @ 570 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	63	34	52	56	58	57	54	49	42
L_{wA} Surrounding	65	36	54	58	60	59	56	51	44
DVSI									
L_{wA} Surrounding	56	49	49	52	49	44	36	34	27
Measurement point: 1.27 m³/s @ 243 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	83	54	72	76	78	77	74	69	62
L_{wA} Surrounding	85	56	74	78	80	79	76	71	64
DVSI									
L_{wA} Surrounding	76	69	69	71	69	63	56	54	48
Measurement point: 2.2 m³/s @ 788 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	67	38	56	60	62	61	58	53	46
L_{wA} Surrounding	69	40	58	62	64	63	60	55	48
DVSI									
L_{wA} Surrounding	60	31	49	53	55	54	51	46	39
Measurement point: 1.74 m³/s @ 268 Pa									