

## Circular duct fans



## KVO

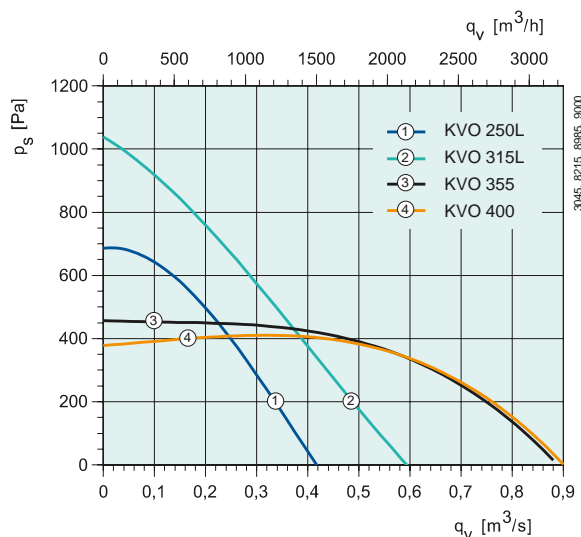
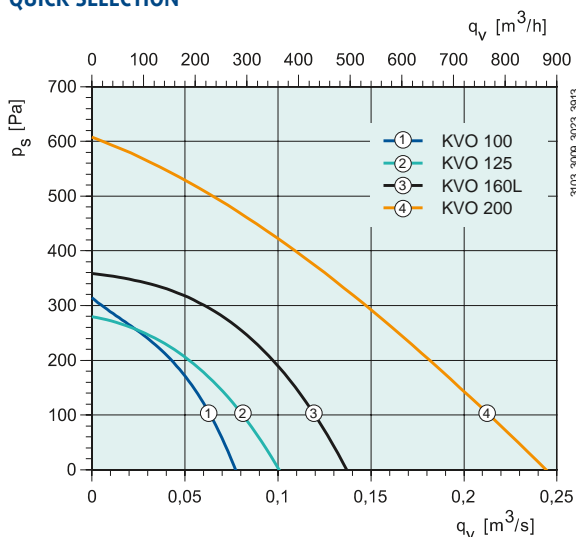
- Speed-controllable
- Integral thermal contacts
- Low sound level
- Compact construction

KVO has a single-inlet centrifugal fan (size 100-160 and size 355-400 with forward curved blades, size 200-315 with backward curved blades) and a maintenance-free external rotor motor. In all KVO models, the motor and impeller are mounted on the cover for easy cleaning and maintenance.

To protect the motor from overheating, the KVO 100-315 have integral thermal contacts with electrical reset, size 355-400 with integral thermal contact with external leads for connection to a motor protection device. The fans can be installed in any position, and are easy to connect to spiral ducts using FK mounting clamps.

The lid is insulated with 40 mm rockwool. The casing is manufactured from galvanised sheet steel.

## QUICK SELECTION



## TECHNICAL DATA

KVO		100	125	160	200	250	315
Art no.		2075	2020	2024	2025	2027	2029
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	77.9	89	135	151	301	549
Current	A	0.346	0.393	0.59	0.681	1.33	2.38
Max air flow	m³/s	0.0778	0.101	0.138	0.244	0.417	0.592
R.p.m.	min <sup>-1</sup>	2438	2175	2544	2632	2480	2227
Max temp. of transported air	°C	60	64	70	70	70	48
" when speed controlled	°C	60	64	70	70	70	41
Sound pressure level at 3 m	dB(A)	40	38	43	51	52	56
Weight	kg	6	6	7	12.5	20	27.2
Insulation class, motor		B	B	B	F	F	F
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Capacitor	µF	2	2	4	4	7	10
Motor protection		Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step	Transformer	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 3
Speed control, five step high/low	Transformer	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 5
Speed control, stepless	Thyristor	REE 1	REE 1	REE 1	REE 1	REE 2	REE 4
Wiring diagram p. 391-400		2	2	2	2	2	2

## ELECTRICAL ACCESSORIES



S-ET p. 341



RTRE p. 320



RE p. 320

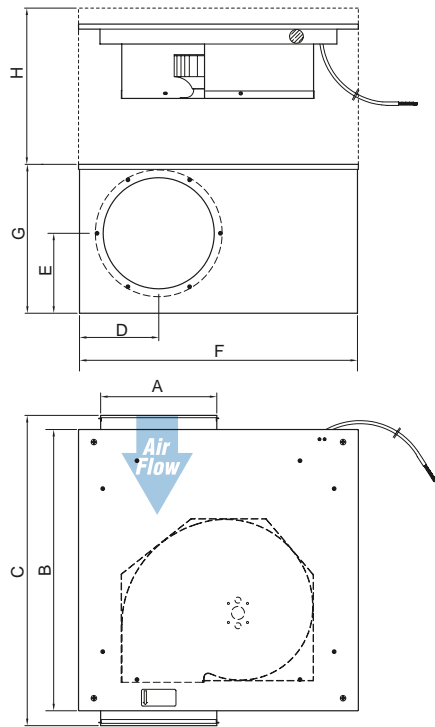


REU p. 320



REE p. 321

DIMENSIONS

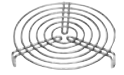


KVO	A	B	C	D	E	F	G	H
100	100	329	367	69	76	300	150	150
125	125	329	367	84	72	300	150	150
160	160	329	367	99	90	300	185	185
200	200	419	466	123	109	435	220	220
250	250	527.5	568	151	133	558	270	270
315	315	535.5	580	186	166	580	340	550
355	355	572	661	209	231	640	425	600
400	400	572	653	221	209	640	425	600

VENTILATION ACCESSORIES



FK p. 355



SG p. 357



VK p. 356



RSK p. 355



LDC p. 348



FGR p. 348



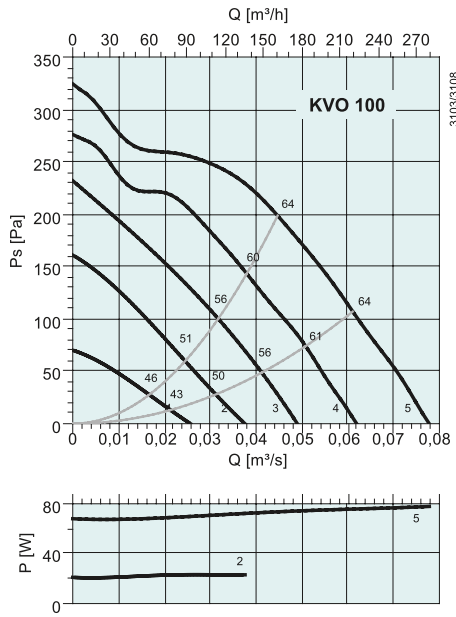
CB p. 350

KVO		355	400			
Art no.		2030	2031			
Voltage/Frequency	V/50 Hz	230 1~	230 1~			
Power	W	1196	1257			
Current	A	5.69	5.95			
Max air flow	m <sup>3</sup> /s	0.882	0.893			
R.p.m.	min <sup>-1</sup>	1118	1075			
Max temp. of transported air	°C	65	58			
" when speed controlled	°C	65	58			
Sound pressure level at 3 m	dB(A)	53	56			
Weight	kg	38.6	38.6			
Insulation class, motor	F	F	F			
Enclosure class, motor	IP 54	IP 54	IP 54			
Capacitor	µF	20	20			
Motor protection	S-ET 10	Integral	Integral			
Speed control, five-step	Transformer	RTRE 7	RTRE 7			
Speed control, five step high/low	Transformer	REU 7*	REU 7*			
Speed control, stepless	Thyristor	-	-			
Wiring diagram p. 391-400		6	6			

\* + S-ET 10

# Circular duct fans

## PERFORMANCE

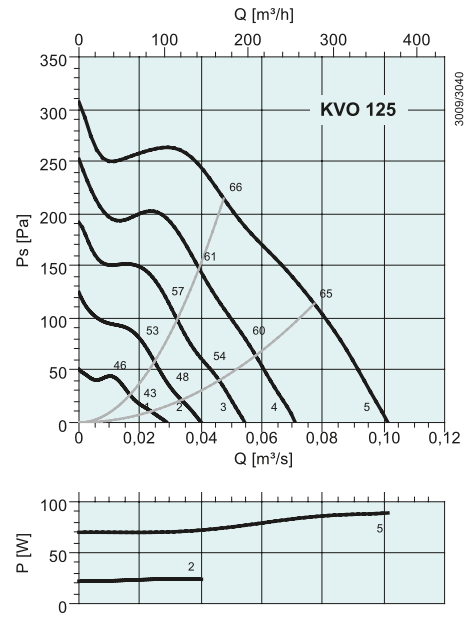


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	63	47	60	57	55	52	47	43	38
L <sub>WA</sub> Outlet	68	55	61	58	60	63	58	51	45
L <sub>WA</sub> Surrounding	47	21	36	41	39	42	37	28	22

With LDC 100-600

L <sub>WA</sub> Inlet	58	43	57	46	31	16	0	9	21
L <sub>WA</sub> Outlet	59	51	58	47	36	27	9	17	28

Measurement point: 0,0447 m<sup>3</sup>/s; 105 Pa

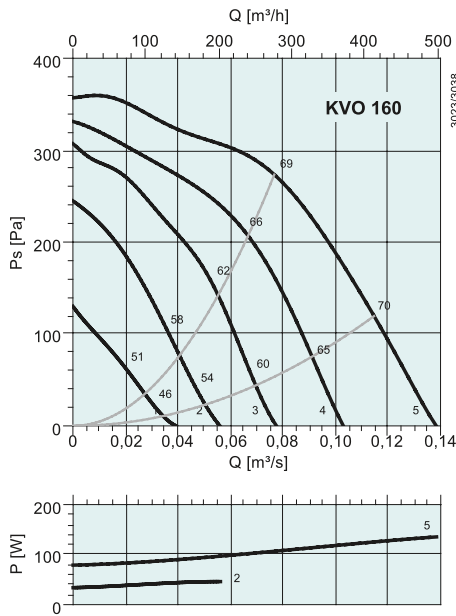


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	65	44	61	56	58	57	52	49	43
L <sub>WA</sub> Outlet	66	46	56	58	59	61	57	50	39
L <sub>WA</sub> Surrounding	45	19	36	38	38	39	38	33	26

With LDC 125-600

L <sub>WA</sub> Inlet	58	41	58	47	35	27	12	27	29
L <sub>WA</sub> Outlet	55	43	53	49	36	31	17	28	25

Measurement point: 0,0475 m<sup>3</sup>/s; 214 Pa

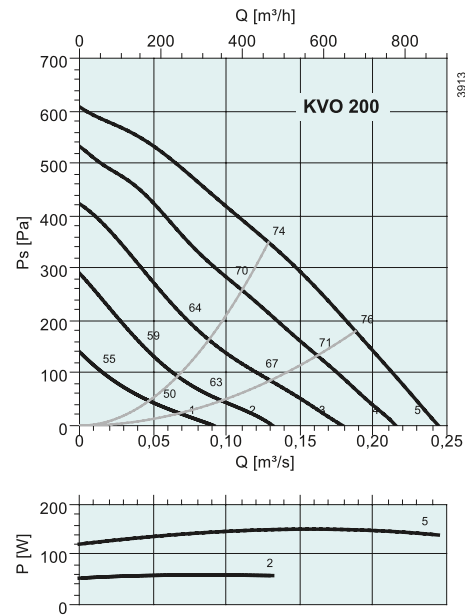


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	68	52	62	63	61	58	57	56	53
L <sub>WA</sub> Outlet	75	55	63	69	67	67	69	63	59
L <sub>WA</sub> Surrounding	50	31	39	45	42	40	41	40	39

With LDC 160-900

L <sub>WA</sub> Inlet	60	50	58	53	33	16	14	36	38
L <sub>WA</sub> Outlet	63	53	59	59	39	25	26	43	44

Measurement point: 0,0767 m<sup>3</sup>/s; 272 Pa

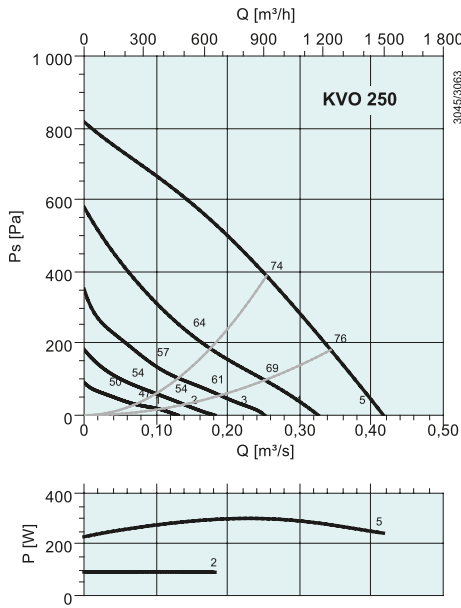


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	73	53	61	70	66	66	62	56	49
L <sub>WA</sub> Outlet	76	56	60	70	71	71	69	60	51
L <sub>WA</sub> Surrounding	58	34	42	55	51	50	46	37	28

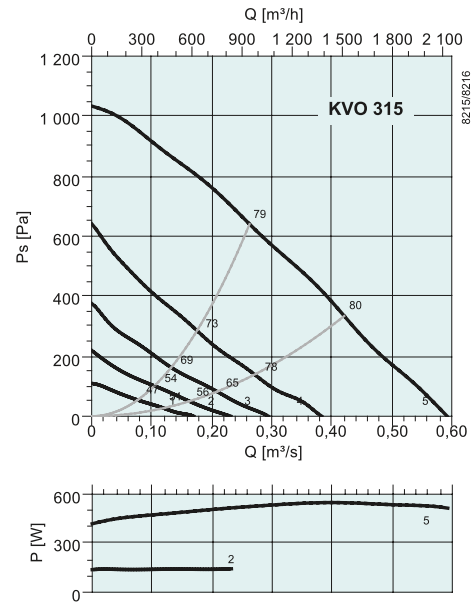
With LDC 200-900

L <sub>WA</sub> Inlet	64	51	57	62	42	34	28	43	39
L <sub>WA</sub> Outlet	64	54	56	62	47	39	35	47	41

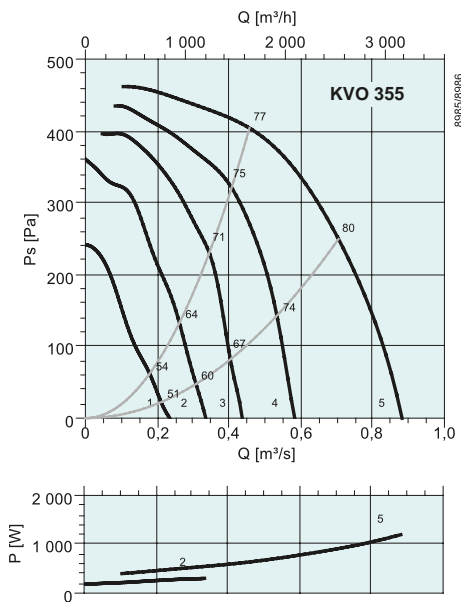
Measurement point: 0,129 m<sup>3</sup>/s; 349 Pa



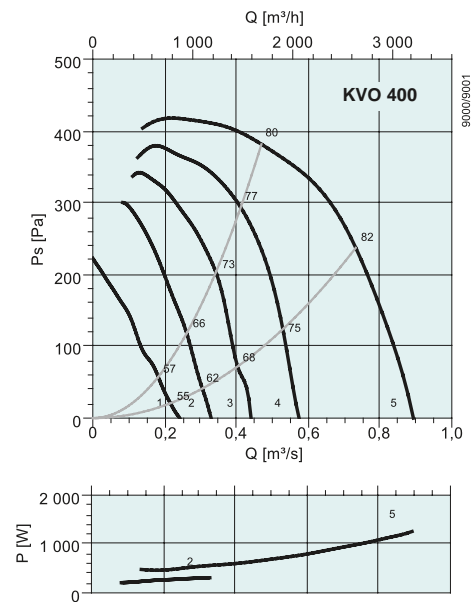
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	73	55	60	64	68	66	65	61	56
L <sub>WA</sub> Outlet	78	57	60	66	75	71	71	64	59
L <sub>WA</sub> Surrounding	59	37	41	48	57	51	48	42	36
With LDC 250-900									
L <sub>WA</sub> Inlet	61	52	56	56	48	40	42	51	48
L <sub>WA</sub> Outlet	63	54	56	58	55	45	48	54	51
Measurement point: 0,254 m³/s; 388 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	78	56	73	73	67	67	68	65	57
L <sub>WA</sub> Outlet	86	64	75	84	79	75	72	67	61
L <sub>WA</sub> Surrounding	63	42	53	59	59	54	50	43	35
With LDC 315-900									
L <sub>WA</sub> Inlet	72	55	70	66	51	45	56	59	50
L <sub>WA</sub> Outlet	79	63	72	77	63	53	60	61	54
Measurement point: 0,263 m³/s; 640 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	77	57	73	66	66	69	69	68	63
L <sub>WA</sub> Outlet	83	66	72	71	74	78	75	74	68
L <sub>WA</sub> Surrounding	60	41	55	52	52	53	51	46	41
With LDC 355-900									
L <sub>WA</sub> Inlet	72	57	70	60	53	51	59	62	56
L <sub>WA</sub> Outlet	74	66	69	65	61	60	65	68	61
Measurement point: 0,457 m³/s; 404 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	80	61	75	71	69	73	72	70	65
L <sub>WA</sub> Outlet	84	68	73	74	75	78	76	75	69
L <sub>WA</sub> Surrounding	63	39	56	57	54	57	54	51	45
With LDC 400-900									
L <sub>WA</sub> Inlet	75	60	72	66	59	60	65	65	59
L <sub>WA</sub> Outlet	77	67	70	69	65	65	69	70	63
Measurement point: 0,47 m³/s; 381 Pa									