Circular inline duct fan RVK sileo

wonderfully quiet: the new circular inline duct fans of the sileo generation

sileo

systemair

Circular inline duct fans sileo

RVK sileo

The most important advantages at a glance

- The new, aerodynamically optimized impeller is reducing the sound level to half, compared with conventionally designed impellers. The new impeller avoids turbulences in the duct, which leads to higher efficiency and extremely low sound emission.
- The impellers are manufactured in one piece, means without any joints, which allows for a high peripheric speed and thus a high performance. The casing material (PA6 with fibre glass)as well helps to reduce the sound levels. The impellers have a high corrosion resistance.
- The casing of the new circular duct fan series RVK sileo is manufactured from very robust polypropylene with a 30% fibre glass content.
- The ErP requirements are mostly surpassed with the new RVK sileo generation of circular duct fans. Up to size 250L we already today cover the requirements of 2015. All sizes cover the requirements of ErP 2013.

The main features of the new sileo generation

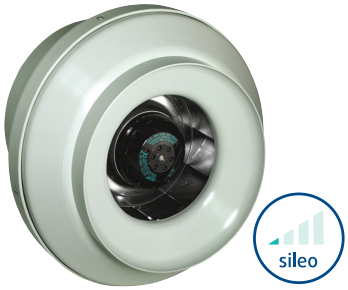
- high efficiency by improved aerodynamics
- extremely low sound level in most sizes by optimized impeller, up to 8 dB reduction
- high performance
- robust design and maintenance free operation
- fulfills the Erp guidelines*

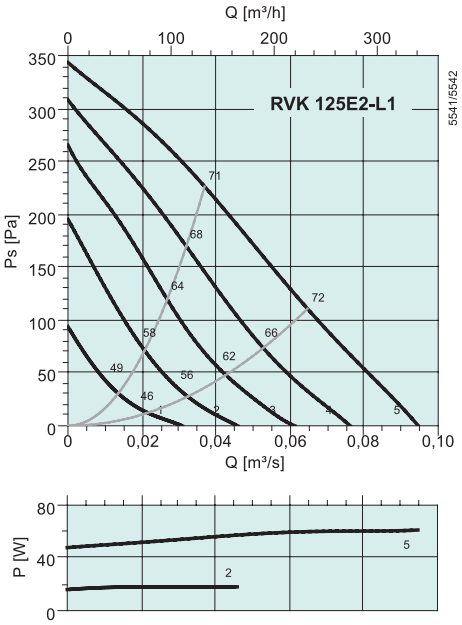
Aerodynamically optimized sileo impeller

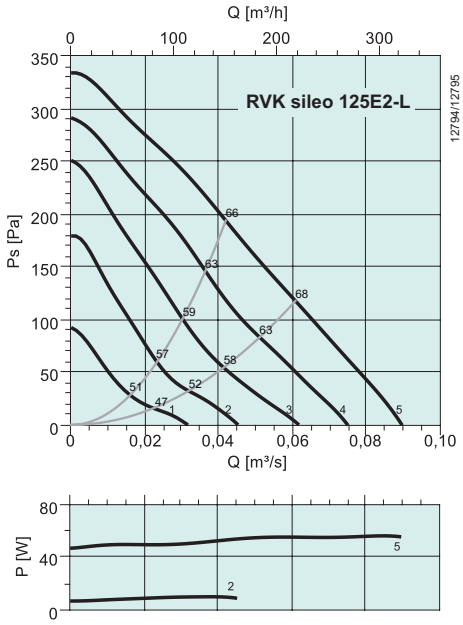
* ErP: defines the minimum efficiency in accordance with ecodesign guideline 327/2011 EU for fans from 125W motor power.

RVK 125E2-L

RVK sileo 125E2-L







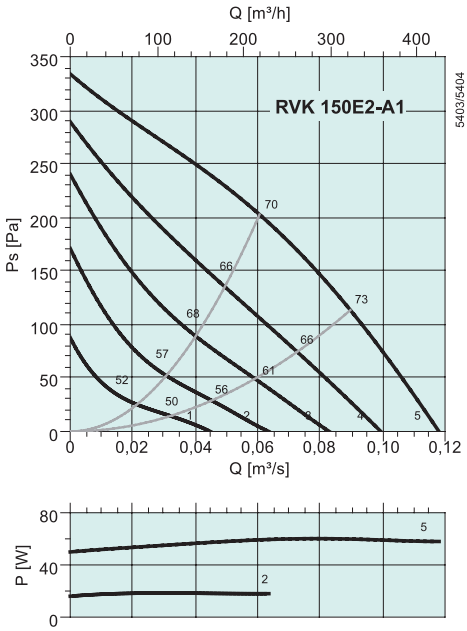
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

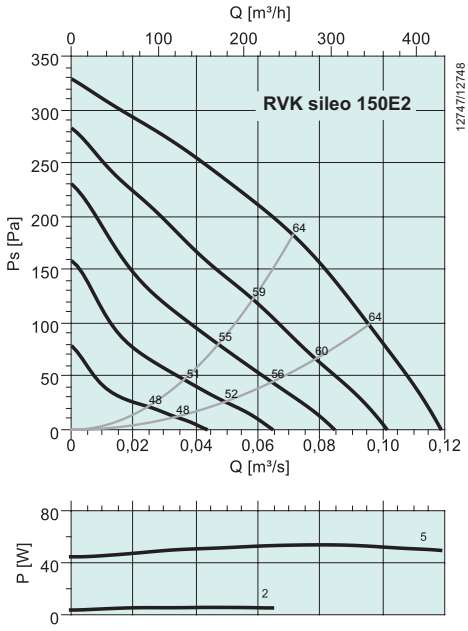
Technical data

RVK		RVK 125E2-L	RVK sileo 125E2-L
Art-No.		*9775*	*30331*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	61,2	58,8
Current	A	0,26	0,257
Max. airflow	m^3/h	341	323
Fan impeller speed	1/min	2436	2494
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level at 3 m	dB(A)	43,4	43
Weight	kg	2,2	2,2
Insulation class, motor		B	B
Enclosure class, motor	IP	44	44
Capacitor	µF	2	2

RVK 150E2

RVK sileo 150E2





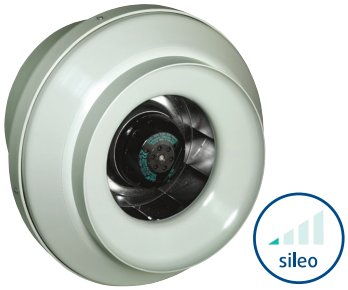
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

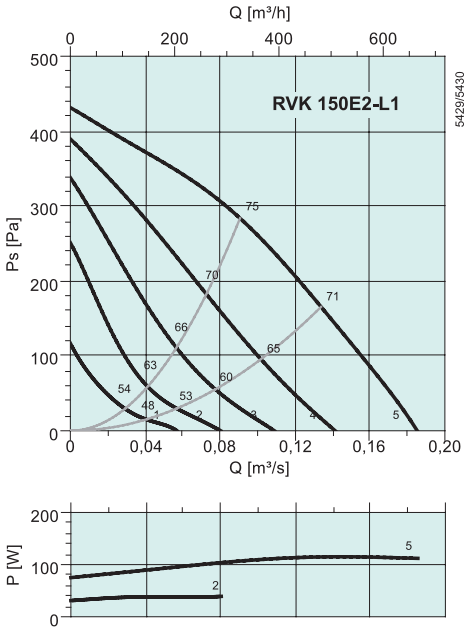
Technical data

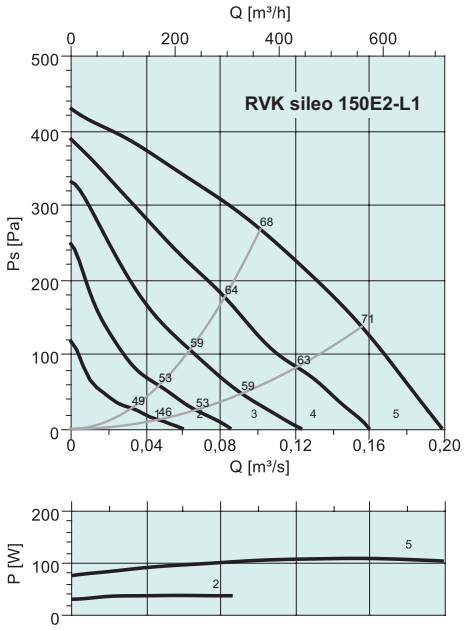
RVK		RVK 150E2-A	RVK sileo 150E2
Art-No.		*5757*	*30336*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	59,9	59,6
Current	A	0,261	0,262
Max. airflow	m^3/h	425	428
Fan impeller speed	1/min	2418	2437
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level at 3 m	dB(A)	47,5	40,6 **-6,9 dB(A)**
Weight	kg	2,6	2,6
Insulation class, motor		B	B
Enclosure class, motor	IP	44	44
Capacitor	µF	2	2

RVK 150E2-L

RVK sileo 150E2-L







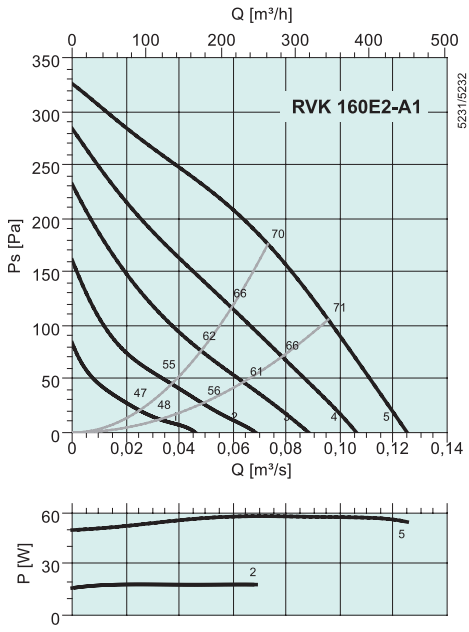
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

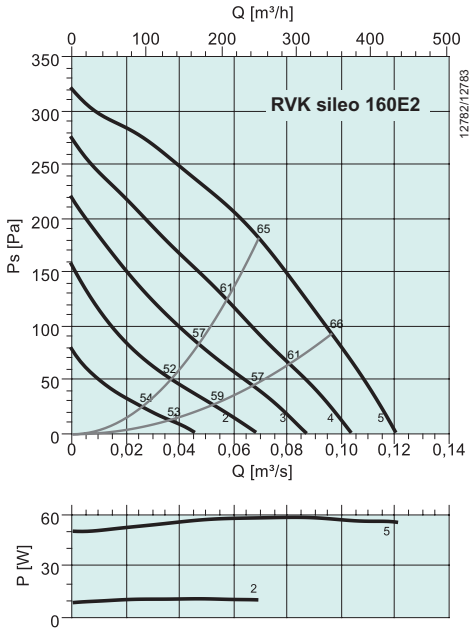
Technical data

RVK		RVK 150E2-L	RVK sileo 150E2-L
Art-No.		*5758*	*30341*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	115	109
Current	A	0,5	0,48
Max. airflow	m^3/h	666	720
Fan impeller speed	1/min	2497	2527
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level at 3 m	dB(A)	50,3	44,8 **-5,5 dB(A)**
Weight	kg	3,1	3,1
Insulation class, motor		B	F **F**
Enclosure class, motor	IP	44	44
Capacitor	µF	3	3

RVK 160E2

RVK sileo 160E2



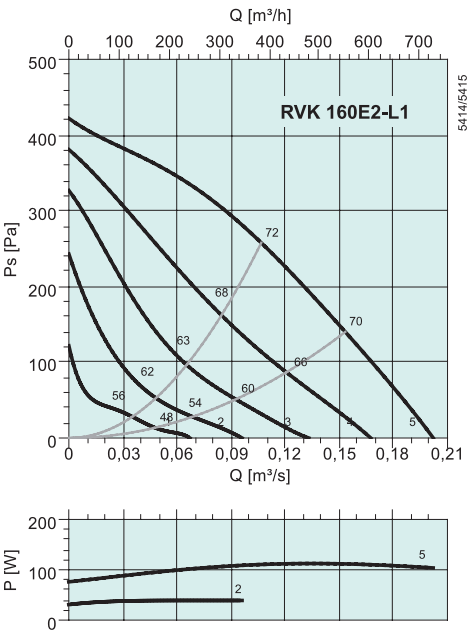


Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

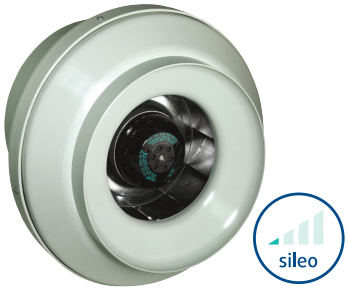
Technical data

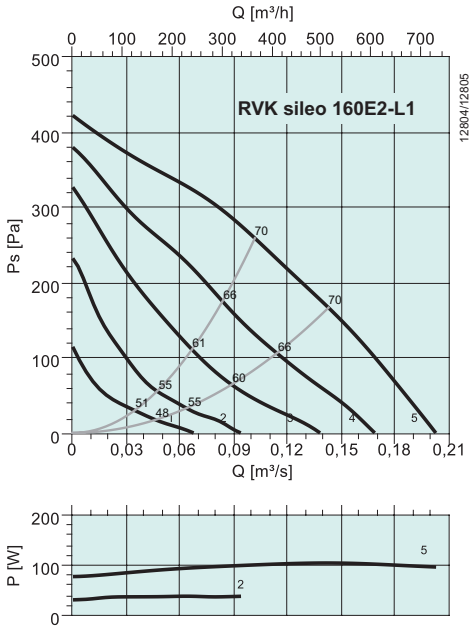
RVK		RVK 160E2-A	RVK sileo 160E2
Art-No.		*5759*	*30338*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	57,8	59,2
Current	A	0,257	0,261
Max. airflow	m^3/h	450	436
Fan impeller speed	1/min	2429	2459
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level at 3 m	dB(A)	43,2	41,4 **-1,8 dB(A)**
Weight	kg	2,7	2,7
Insulation class, motor		B	B
Enclosure class, motor	IP	44	44
Capacitor	µF	2	2

RVK 160E2-L



RVK sileo 160E2-L





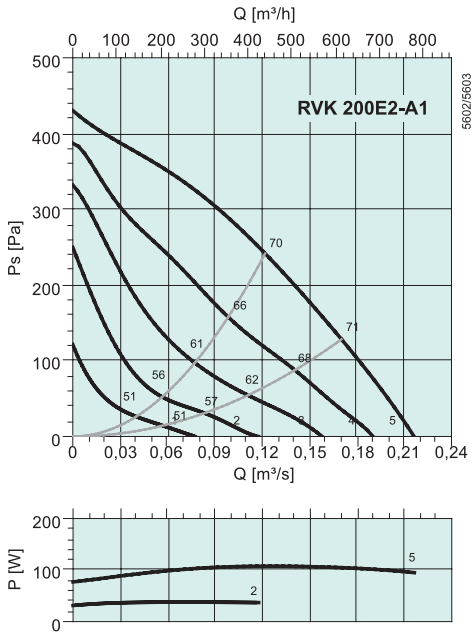
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

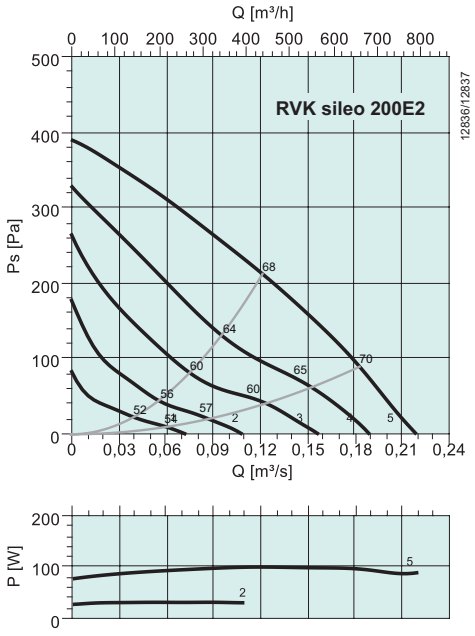
Technical data

RVK		RVK 160E2-L	RVK sileo 160E2-L
Art-No.		*5760*	*30342*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	112	106
Current	A	0,485	0,461
Max. airflow	m^3/h	727	731
Fan impeller speed	1/min	2530	2557
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level at 3 m	dB(A)	47,5	44,4 **-3,1 dB(A)**
Weight	kg	3,2	3,2
Insulation class, motor		B	F **F**
Enclosure class, motor	IP	44	44
Capacitor	µF	3	3

RVK 200E2

RVK sileo 200E2





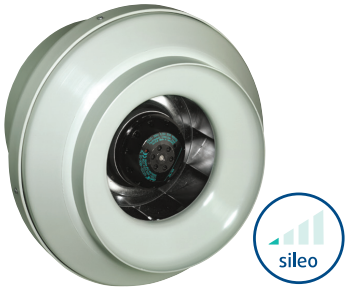
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

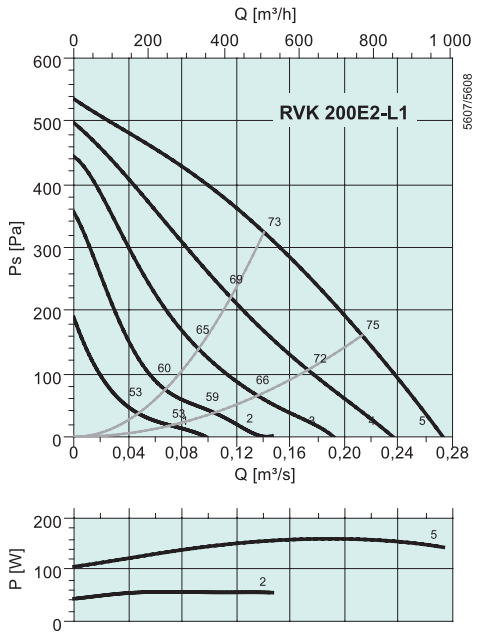
Technical data

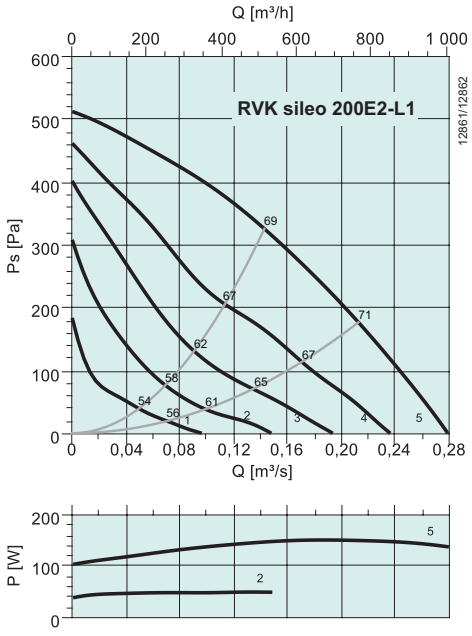
RVK		RVK 200E2-A	RVK sileo 200E2	
Art-No.		*5761*	*36092*	
Voltage	V	230	230	
Frequency	Hz	50	50	
Phase	~	1	1	
Power	W	107	104	
Current	A	0,47	0,46	
Max. airflow	m^3/h	778	796	
Fan impeller speed	1/min	2550	2495	
Max. temperature of transported air	°C	70	70	
* when speed-controlled	°C	70	70	
Sound pressure level at 3 m	dB(A)	44,9	42	**-2,9 dB(A)**
Weight	kg	3,2	3,2	
Insulation class, motor		B	F	**F**
Enclosure class, motor	IP	44	44	
Capacitor	µF	3	3	

RVK 200E2-L

RVK sileo 200E2-L







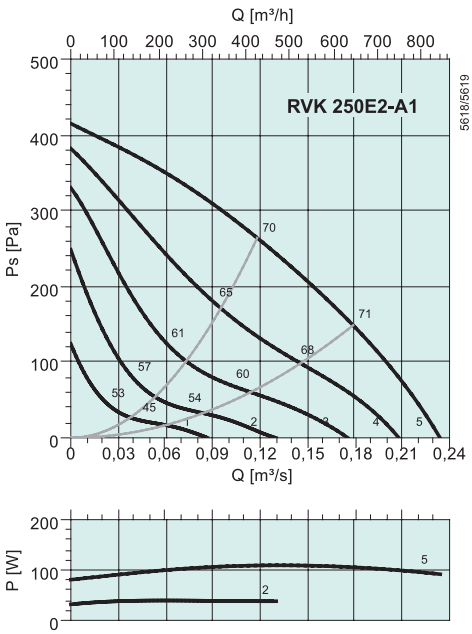
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

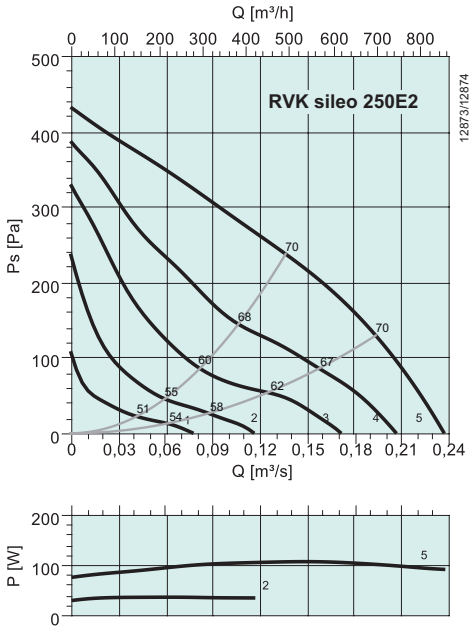
Technical data

RVK		RVK 200E2-L	RVK sileo 200E2-L
Art-No.		*5762*	*36094*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	160	153
Current	A	0,705	0,672
Max. airflow	m^3/h	983	1008
Fan impeller speed	1/min	2581	2553
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	55	55
Sound pressure level at 3 m	dB(A)	46,4	44,9 **-1,5 dB(A)**
Weight	kg	3,8	3,8
Insulation class, motor		B	F **F**
Enclosure class, motor	IP	44	44
Capacitor	µF	4	4

RVK 250E2

RVK sileo 250E2





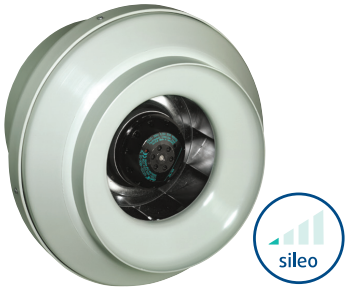
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

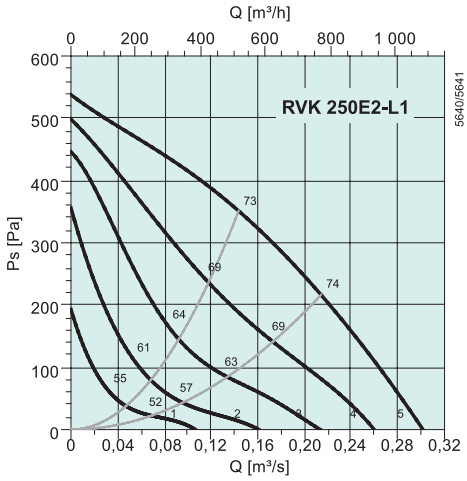
Technical data

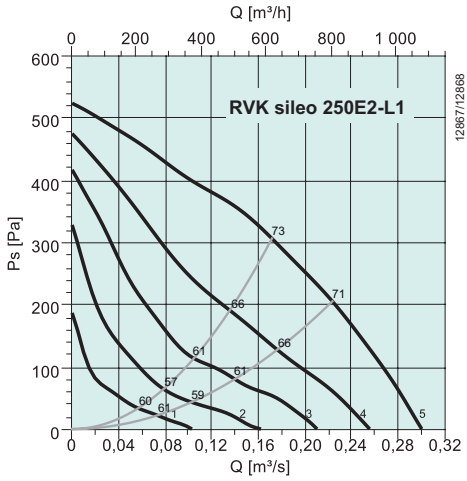
RVK		RVK 250E2-A	RVK sileo 250E2
Art-No.		*5763*	*36093*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	109	108
Current	A	0,476	0,476
Max. airflow	m^3/h	842	860
Fan impeller speed	1/min	2546	2518
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level at 3 m	dB(A)	47,9	39,7 **-8,2 dB(A)**
Weight	kg	3,3	3,3
Insulation class, motor		B	F **F**
Enclosure class, motor	IP	44	44
Capacitor	µF	3	3

RVK 250E2-L

RVK sileo 250E2-L







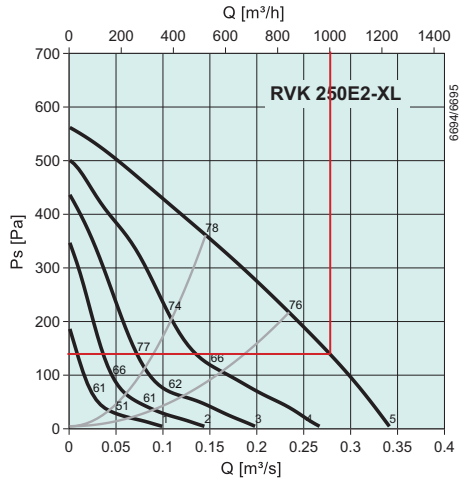
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

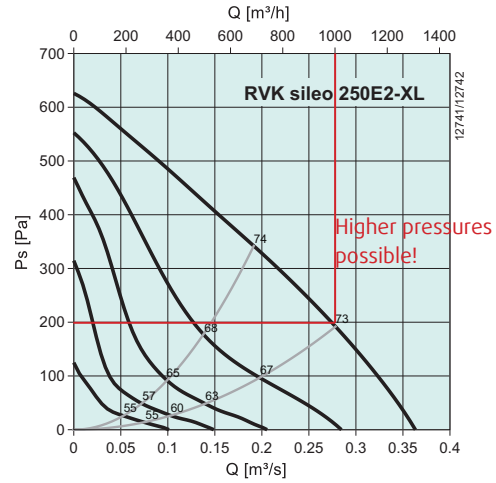
Technical data

RVK		RVK 250E2-L	RVK sileo 250E2-L
Art-No.		*5764*	*36095*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	159	159
Current	A	0,706	0,691
Max. airflow	m^3/h	1087	1080
Fan impeller speed	1/min	2595	2531
Max. temperature of transported air	°C	57	70
* when speed-controlled	°C	57	70
Sound pressure level at 3 m	dB(A)	43,9	41,9 **-2 dB(A)**
Weight	kg	3,8	3,8
Insulation class, motor		B	F **F**
Enclosure class, motor	IP	44	44
Capacitor	µF	4	4

RVK 250E2-XL

RVK sileo 250E2-XL





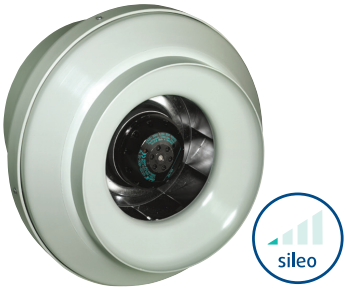
Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

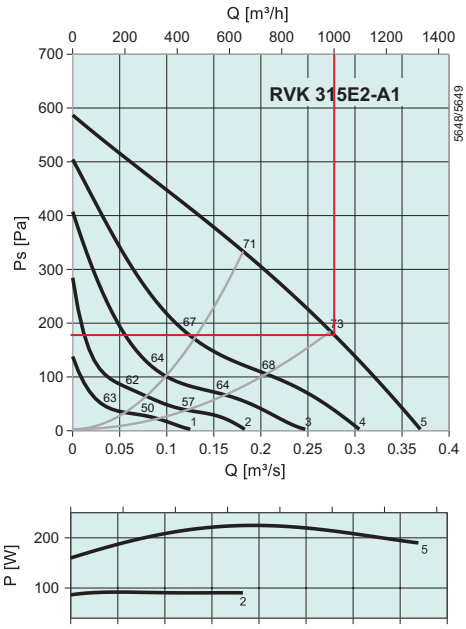
Technical data

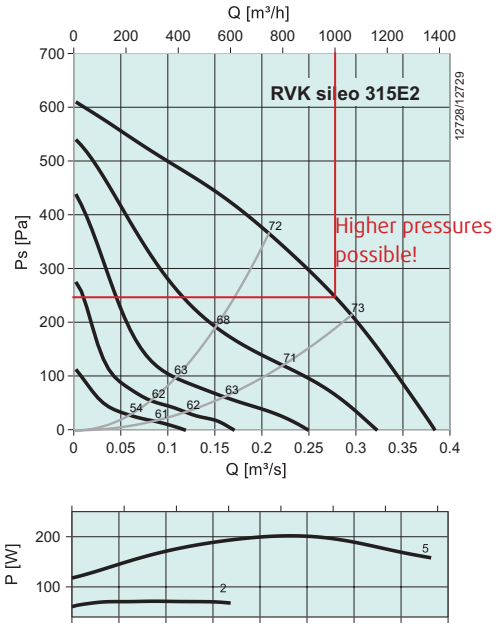
RVK		RVK 250E2-XL	RVK sileo 250E2-XL
Art-No.		*30901*	*36096*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	213	208
Current	A	0,935	0,911
Max. airflow	m^3/h	1228	1307 **+79**
Fan impeller speed	1/min	2415	2523
Max. temperature of transported air	°C	50,5	70
* when speed-controlled	°C	38,4	55
Sound pressure level at 3 m	dB(A)	49,2	41,8 **-7,4 dB(A)**
Weight	kg	4,4	4,4
Insulation class, motor		B	B
Enclosure class, motor	IP	44	44
Capacitor	µF	5	5

RVK 315E2

RVK sileo 315E2





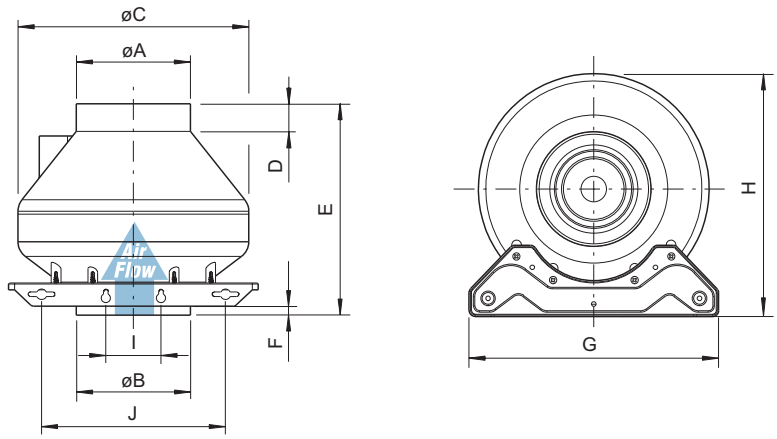


Note: The acustic value LwA shown in the diagram is conforms to the sound power level in the duct system.

Technical data

RVK		RVK 315E2-A	RVK sileo 315E2-A
Art-No.		*5765*	*36097*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Power	W	176	202
Current	A	0,773	0,887
Max. airflow	m^3/h	1328	1375
Fan impeller speed	1/min	2387	2538
Max. temperature of transported air	°C	70	70
* when speed-controlled	°C	70	70
Sound pressure level at 3 m	dB(A)	40,4	45,4
Weight	kg	5,1	5,1
Insulation class, motor		F	B
Enclosure class, motor	IP	44	44
Capacitor	µF	5	5

Dimensions

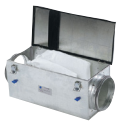


RVK / RVK sileo	øA	øB	øC	D	E	F	G	H	I	J
125	124	124	251	30	230	30	271,5	265	60	200
150	149	149	340,5	30	230	30	271,5	360	60	200
160	159	159	340,5	30	230	30	271,5	360	60	200
200	199	199	340,5	30	230	30	271,5	360	60	200
200L	199	199	340,5	30	250	30	271,5	360	60	200
250	249	249	340,5	30	230	30	271,5	360	60	200
250L	249	249	340,5	30	250	30	271,5	360	60	200
315	314	314	405	30	275	30	271,5	430	60	200

Accessories

FK
Fast clamps

LDC
Silencer

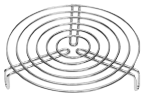


FFR
Filter cassette

FGR
Filter cassette

IGC
Intage grid

IGK
Intage grid



SG
Protection guard

RSK
Back draft damper

VK
Gravity louvre shutter

VKK
Back draft damper

CB
Electrical duct heater

CBM
Duct heater with integral control equipment

VBC
Water heating coil

VBF
Water heating coil

CWK
Water cooling coil

Electrical accessories

RE
Manual five-step transformer, 230V

REU
Manual five-step transformer, 230V

REE
Thyristor speed controller, 230V

REV
ON-OFF service switch

systemair

www.systemair.com

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