

RVK Circular Duct Fans

Centrifugal fan for duct installation



- Available with AC motors for 50 and 60Hz
- Mounting bracket included
- Sound and energy optimized impeller

[Find more details in our online catalogue](#)



Flexibility

The RVK fans are intended to use for **supply** or **extract** air, designed to be installed in **any position**. This ensures that the fans can be used in a variety of **commercial** and **domestic** applications.

Reliability

The **polypropylene** and **fiberglass casing** is lightweight and hard-wearing. This makes it perfect for protecting **against the damages** of regular use and **damp working environments**. The combination of casing and motor construction ensures to minimize the need for maintenance of the fans and allows long **continuous operation**.

Performance

The **sound optimized** impellers together with **high efficient** external rotor motors are designed to ensure high-level performance to **minimize power consumption** and **maximize efficiency**.

Accessories

RVK fans can be selected together with variety types of **accessories** as fast clamps, heaters, filters, dampers, etc.

RVK 315E2 sileo 1ph/230V

Centrifugal circular duct fan

Inclusive mounting bracket

Can be installed in any position

Integral thermal contacts

Speed-controllable

Maintenance-free and reliable

The RVK sileo series is designed for installation in ducts. The casing is manufactured from Polypropylene with 30% fibreglass reinforced plastic which gives the fan a less leakage casing. Duct connected wet room applications of the fan are possible due to the air tight casing and the IP 44 rated terminal box. We recommend a period of continued ventilation with dry air for wet room applications. The fans have high effective backward-curved blades (* BAT with special geometry) and external rotor motors. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans

can be speed-controlled via a stepless thyristor or a 5-step transformer. To protect the motor from overheating the models have integrated thermal contacts with manual reset.

* BAT = Best Available Technology

Features

Construction

The casing made out of **polypropylene** and **fiberglass** is lightweight and hard-wearing.

The Fans are equipped with an external **terminal box with** protection class **IP55**.

Impeller

RVK fans use backward curved **radial** impellers. These are from lightweight, hard-wearing fiberglass reinforced **polyamide**, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

Fans are equipped with **AC** external rotor motor. Motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **AC** motors have an **integrated** thermal protection with manual (electrical) reset. Size 100 and 125 have an impedance motor protection.

Control

AC motors can be controlled by **5-step** or **stepless** speed regulator.

Installation

RVK fans can be installed in any position **indoor** by using the **included mounting brackets**. Spigot with 25 mm length is perfectly designed to connect circular duct by **fast clamps preventing vibration** to the duct.

Technical parameters

Nominal data

Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	232	W
Input current	1	A
Impeller speed	2,691	rpm
Air flow	max 1,364	m³/h
Capacitance of capacitor	5	µF
Temperature of transported air	max 65	°C
Max temperature of transported air, when speed controlled	65	°C

Protection/Classification

Enclosure class, motor	IP44
Insulation class	F

Data according to ErP

ErP ready	ErP 2018
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Dimensions and weights

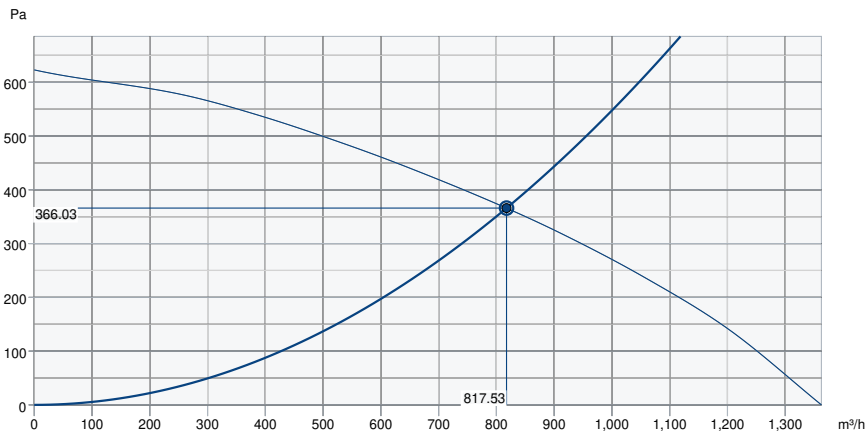
Duct dimension; Circular, inlet	315	mm
Duct dimension; Circular, outlet	315	mm
Weight	5.2	kg

Others

Duct connection type	Circular
Motor type	AC

Performance

Performance curve



Hydraulic data

Required air flow	818 m³/h
Required static pressure	366 Pa
Working air flow	818 m³/h
Working static pressure	366 Pa
Air density	1.204 kg/m³
Power	231.7 W
Fan control - RPM	2,691 rpm
Current	1.00 A
SFP	1.020 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

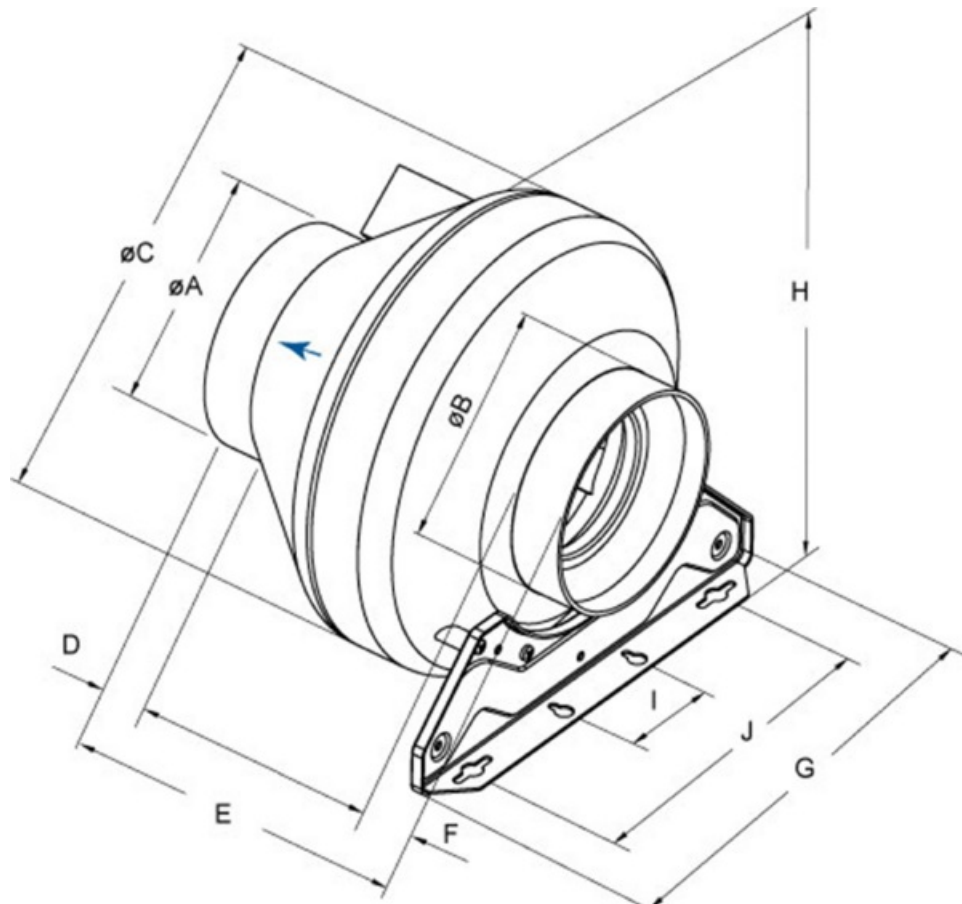
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	61	57	60	58	63	64	59	62	70
Outlet	dB(A)	63	58	62	59	64	65	61	63	71
Surrounding	dB(A)	48	46	36	42	48	50	45	45	55
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	48
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	34

Accessories

Ecodesign

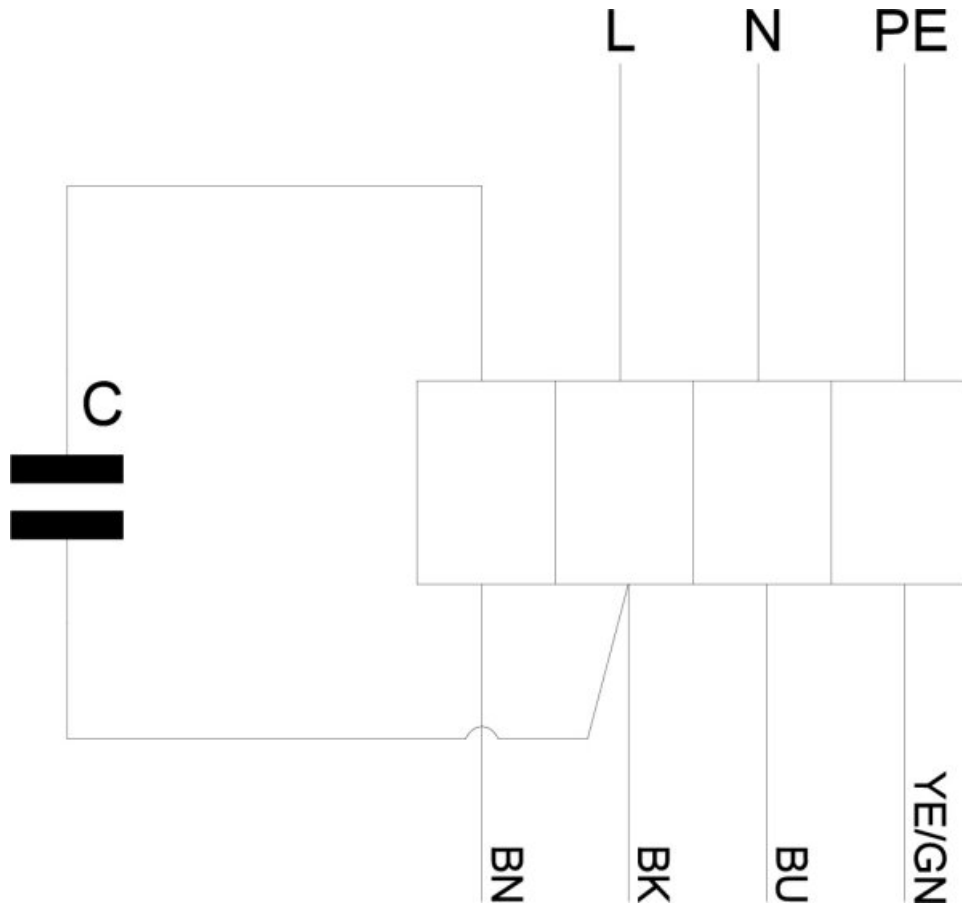
Product			
Trade name		Systemair	
Product name		RVK 315E2 sileo	
Ecodesign			
ErP compliance		2018	
Unit category		NRVU	
Drive		External MSD or VSD	
Unit type		UVU	
Heat recovery type		None	
Temperature ratio (UVU)		Not applicable	
qv nom		0.2272	m³/s
P nom		0.232	kW
Ps nom		366	Pa
Fan efficiency		35.8	%
External Leakage		5	%
Sound power (LWA)		55	dB(A)

Dimension



-	ØA	ØB	ØC	D	E	F	G	H	I	J
RVK 315	314	314	405	28	271	30	272	430	60	200

Wiring



assignment

BN= brown

BK= black

BU= blue

YE/GN= yellow/green

Accessories

- Frequency converter FRQ5SE-6A (37421)
- REE 1 Speed control (5314)
- REV-3POL/03-7,5kW R/Y (33978)
- VKK-315 Back draft damper (1628)
- Frequency converter FRQSE-6A (37419)
- CB 315-3,0 230V/1 Duct heater (5386)
- CBM 315-9,0 400V/3 Duct heater (5485)
- FFR 315 Filter cassette (1779)
- FK 315 Fast clamp (1613)
- RSK-315 Back draft damper (5604)
- VBC 315-3 Water heating batt (9844)
- VK-30 Louvre shutter (5641)
- IGC-315 Intake grille (76879)
- RE 1,5 Speed control (5000)
- REU 1.5 Speed control (5004)
- SG 315 Protection guard (5611)
- CB 315-6,0 400V/2 Duct heater (5374)
- CB 315-12,0 400V/3 Duct heater (5387)
- CB 315-9,0 400V/3 Duct heater (5375)
- CWK 315-3-2,5 Duct cooler,circ (30025)
- FGR 315 Filter cassette (1818)
- LDC 315-900 Silencer (5197)
- VBC 315-2 Water heating batt (5461)
- VBF 315 Water heating battery (1734)
- VK-30 Louvre shutter (87688)

Documents

- MANUAL_RVK_EN_003.PDF
- rvk315_kpl.dxf
- EU DECLARATION OF CONFORMITY_RVK_EN_005.PDF
- PP compound (30% glass fibre content).pdf