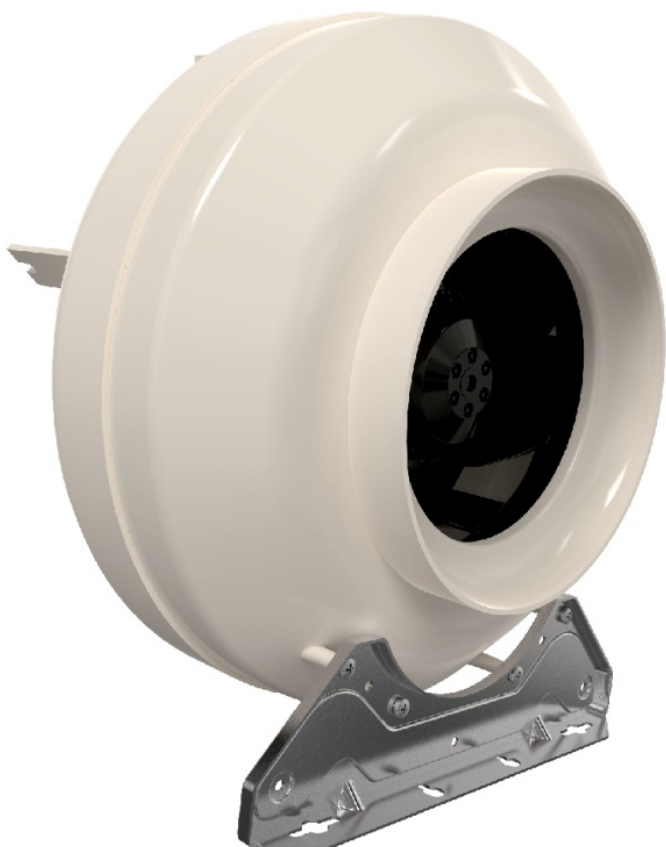


RVK Circular Duct Fans

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.

Certifications



Ecodesign (ErP) compliant

Compliant with today's and tomorrow's European Union rules and requirements for energy labelling and ecodesign for Energy-related Products (ErP).

RVK 125E2-L sileo 1ph/230V

Centrifugal circular duct fan, <125W

Speed-controllable
Integral thermal contacts
Can be installed in any position
Inclusive mounting bracket
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	59	W
Input power kW	0.059	kW
Input current	0.257	A
Impeller speed	2,494	rpm
Air flow	max 323	m³/h
Capacitance of capacitor	2	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data

Sound pressure level at 3m (20m² Sabin)	43	dB(A)
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Protection/Classification

Enclosure class, motor	IP44
Insulation class	B

Data according to ErP

Energy class, Basic unit	E
Energy class, Local demand	C
ErP ready	ErP 2016; ErP 2018

Dimensions and weights

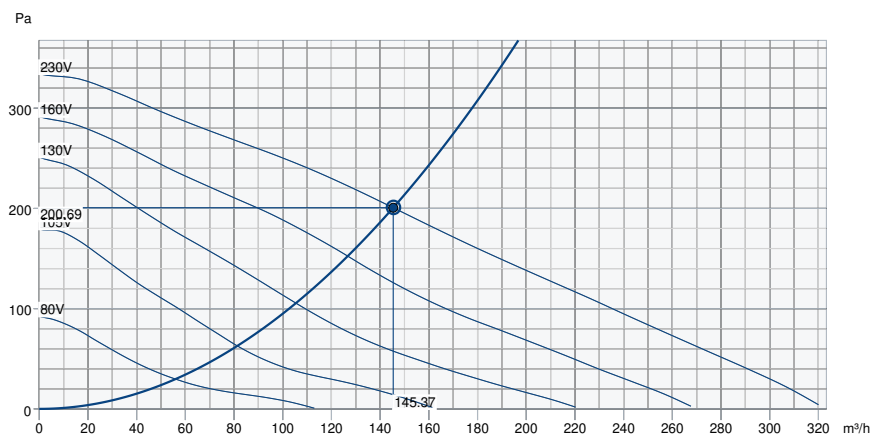
Duct dimension; Circular, inlet	125	mm
Duct dimension; Circular, outlet	125	mm
Weight	2.2	kg

Others

Duct connection type	Circular
Motor type	AC

Performance

Performance curve



Hydraulic data

Required air flow	145 m³/h
Required static pressure	201 Pa
Working air flow	145 m³/h
Working static pressure	201 Pa
Air density	1.204 kg/m³
Power	55.6 W
Fan control - RPM	2,551 rpm
Current	0.25 A
SFP	1.377 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

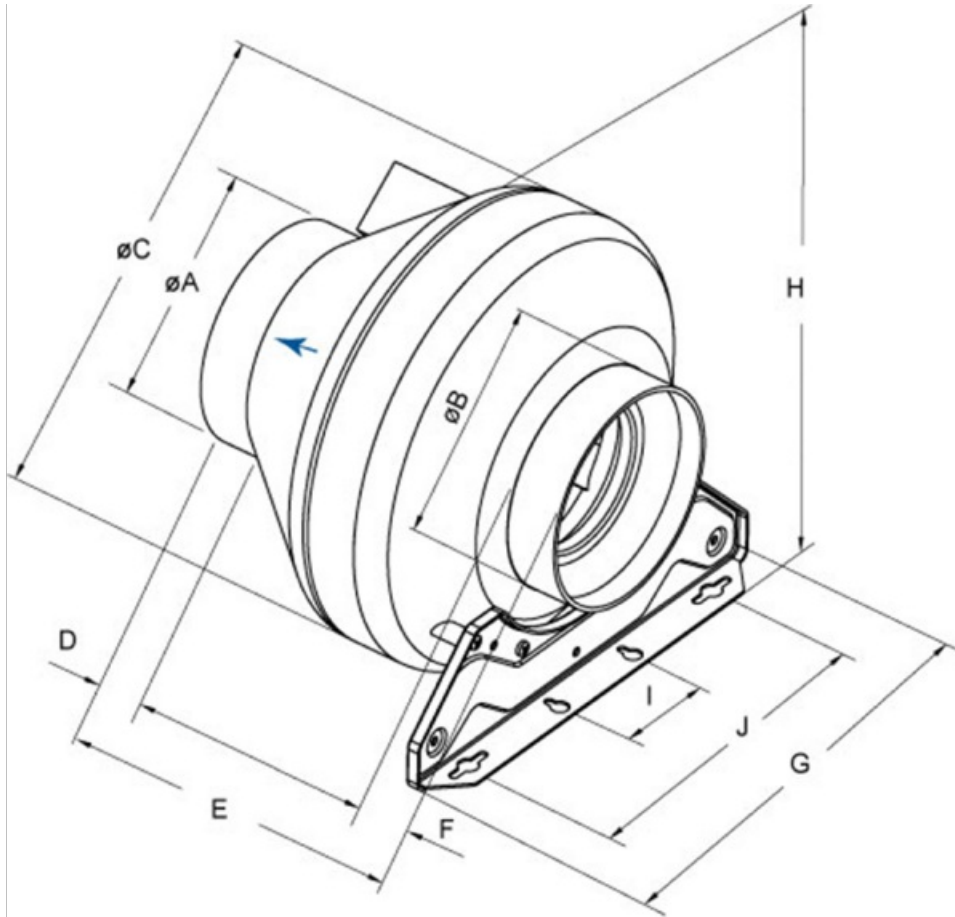
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	47	60	64	62	60	56	51	41	68
Outlet	dB(A)	53	59	63	62	57	53	48	39	67
Surrounding	dB(A)	12	25	32	43	46	46	36	24	50
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	43
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	29

Ecodesign

Product			
Trade name		Systemair	
Product name		RVK 125E2-L sileo 1ph/230V	
Basic unit			
ErP compliance		2016	
SEC Average		-12.2	kWh/(m².a)
SEC Cold		-28.6	kWh/(m².a)
SEC Warm		-2.8	kWh/(m².a)
SEC Class		E	
Unit category		RVU	
Unit type		UVU	
Drive		External MSD or VSD	
Heat recovery type		None	
Temperature ratio (UVU)		Not applicable	
qv max		234	m³/h
P max		57	W
Sound power (LWA)		42	dB(A)
qv ref		0.054	m³/s
Ps ref		50	Pa
SPI		0.159	W/(m³/h)
CTRL		1	
MISC		1.1	
x-value		1.5	
External Leakage		5	%
AEC average		199.8	kWh
AEC cold		199.8	kWh
AEC warm		199.8	kWh
AHS Average		1,715.2	kWh/a
AHS Cold		3,355.3	kWh/a
AHS Warm		775.6	kWh/a

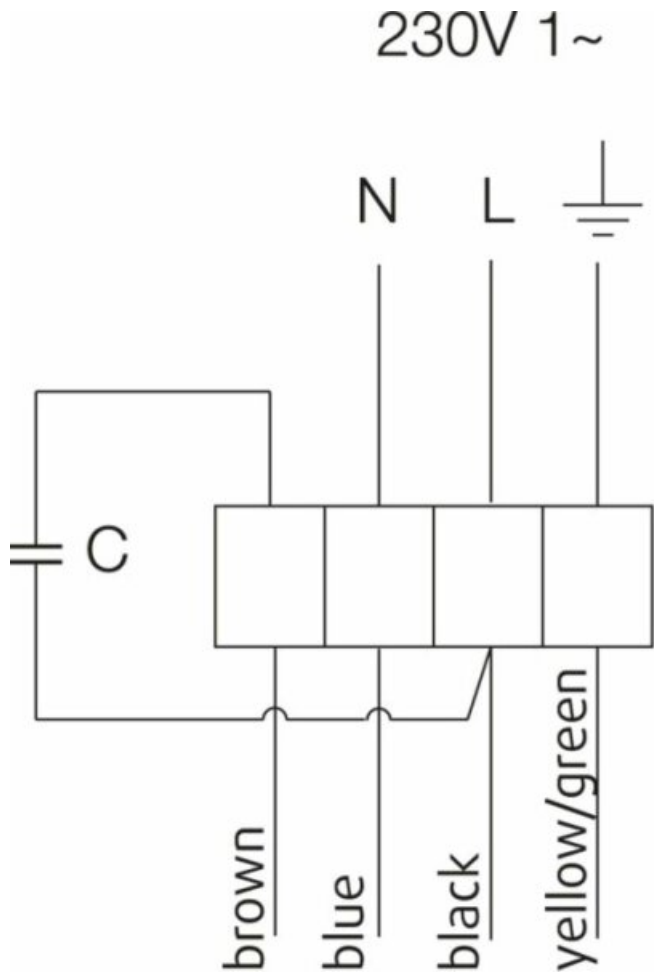
Units with local demand control		
ErP compliance	2018	
SEC Average	-25.7	kWh/(m².a)
SEC Cold	-52.7	kWh/(m².a)
SEC Warm	-10.2	kWh/(m².a)
SEC Class	C	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	234	m³/h
P max	57	W
Sound power (LWA)	42	dB(A)
qv ref	0.045	m³/s
Ps ref	50	Pa
SPI	0.16	W/(m³/h)
CTRL	0.65	
MISC	1.1	
x-value	1.5	
External Leakage	5	%
AEC average	105	kWh
AEC cold	105	kWh
AEC warm	105	kWh
AHS Average	2,833.3	kWh/a
AHS Cold	5,542.7	kWh/a
AHS Warm	1,281.2	kWh/a

Dimension



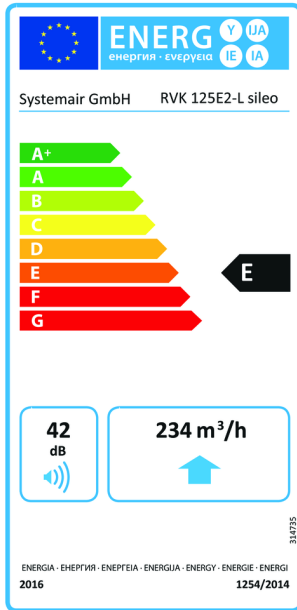
	øA	øB	øC	D	E	F	G	H	I	J
RVK 125	124	124	251	30	233	30	272	265	60	200

Wiring

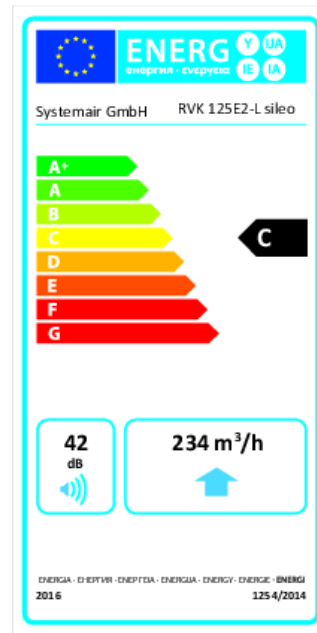


Energy class label

Energy class, Basic unit



Energy class, Local demand



Accessories

- Frequency converter FRQ5SE-6A (37421)
- RE 1,5 Speed control (5000)
- REU 1.5 Speed control (5004)
- SG 125 Protection guard (5607)
- Frequency converter FRQSE-6A (37419)
- VBC 125-3 Water heating batt (9839)
- CB 125-1,2 230V/1 Duct heater (5290)
- CBM 125-1,2 230V/1 Duct heater (5480)
- CWK 125-3-2,5 Duct cooler,circ (30021)
- FGR 125 Filter cassette (1804)
- LDC 125-1200 Silencer (5997)
- LDC 125-900 Silencer (5191)
- VBC 125-2 Water heating batt (5457)
- VK-12 Louvre-shutter (87685)
- IGC-125 Intake grille (76875)
- REE 1 Speed control (5314)
- REV-3POL/03-7,5kW R/Y (33978)
- VKK-125 Back draft damper (1624)
- IGK-125 Wall Grid (1631)
- CB 125-0,6 230V/1 Duct heater (5289)
- CB 125-1,8 230V/1 Duct heater (5377)
- CBMF 125-1,2 230V/1 Duct heater (12242)
- FFR 125 Filter cassette (1768)
- FK 125 Fast clamp (1608)
- LDC 125-600 Silencer (5190)
- RSK-125 Back draft damper (5598)
- VBF 125 Water heating battery (1730)

Documents

- [MANUAL_RVK_EN_003.PDF](#)
- [rvk125_kpl.dxf](#)
- [EU DECLARATION OF CONFORMITY_RVK_EN_005.PDF](#)
- [PP compound \(30% glass fibre content\).pdf](#)

Specification

RVK 125E2-L-A Circular duct fan made of plastic. DN 125, 230V/50Hz, 1~, plastic casing Circular duct fan for easy and direct installation in ducts. The casing is manufactured from polypropylene with 30% glass fibre content. Circular connection spigot, length 25mm, acc. to EN1506:1997 Free-running, backward curved centrifugal impeller made of plastic. Balancing made to G 6.3, motor compl. with impeller statically and dynamically balanced in two planes acc. to DIN ISO 1940 T.1. Voltage controllable external rotor motor, maintenance-free, the motor is placed inside the air flow for cooling. Integral thermal contacts with manual reset, speed-controlled via a 5-step transformer or a stepless thyristor. Silent, long-life ball bearings. Terminal box on the casing Mounting bracket included in delivery (unmounted). For indoor installation. Installation in any mounting position. PRODUCT: SYSTEMAIR TYPE: RVK 125E2-L Item no. 30331