

KD Circular Duct Fans

Compact and powerful inline fan

- Low profile
- High performance
- Indoor and outdoor installation
- Robust and reliable

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



Flexible

The KD 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.

Compact

The KD series have external rotor motors with a **mixed-flow impeller** which reduces the dimensions of the fans and have a **high performance** in relation to their compact design.

Durable

The galvanized steel casing of KD fans permits **outdoor** and **indoor** use. The construction of motor ensures to minimize the need for maintenance of the fans and allows long **reliable operation**.

Accessories

KD fans can be selected together with a wide range of **accessories** as fast clamps, heaters, filters, dampers, etc.

Features

Construction

Casing made of **galvanized metal sheet**.
Casing supplied with preinstalled **brackets** to make installation easier.
Fans are equipped with an external **terminal box** with protection class **IP55**.

Impeller

KD fans have mixed-flow impeller. These are made of aluminium, coated in black, dynamically **balanced** and paired with corresponding external rotor motors.

Motor

KD fans are equipped with **AC** external rotor motors supported by **long-life** ball bearings.

Motor protection

KD fans have **integrated thermal contacts** with leads to external motor protection device.

Control

Motors of KD fans can be controlled by **5-step** or **stepless** speed regulator.

Installation

KD fans can be installed in any position **indoor** and **outdoor**. 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	369	W
Input power kW	0.369	kW
Input current	1.6	A
Impeller speed	2,604	rpm
Air flow	max 1,987	m³/h
Capacitance of capacitor	10	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)	54	dB(A)
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Protection/Classification

Enclosure class, motor	IP44
Insulation class	F

Data according to ErP

ErP ready	Not ErP relevant
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Dimensions and weights

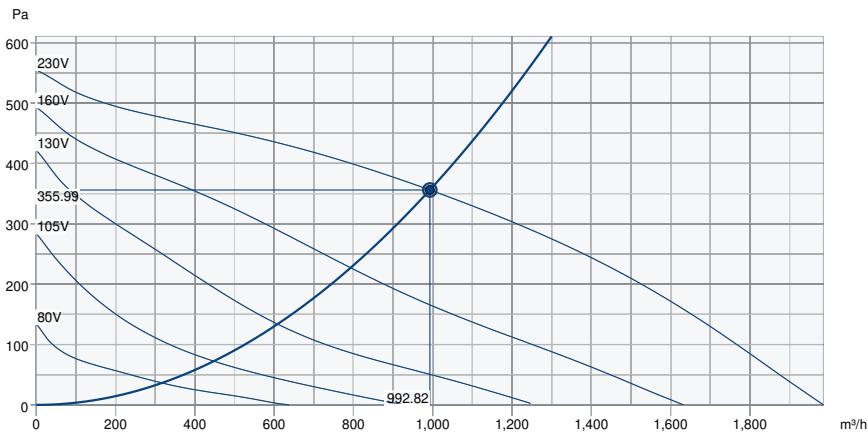
Duct dimension; Circular, inlet	250	mm
Duct dimension; Circular, outlet	250	mm
Weight	9.4	kg

Others

Duct connection type	Circular
Motor type	AC

Performance

Performance curve

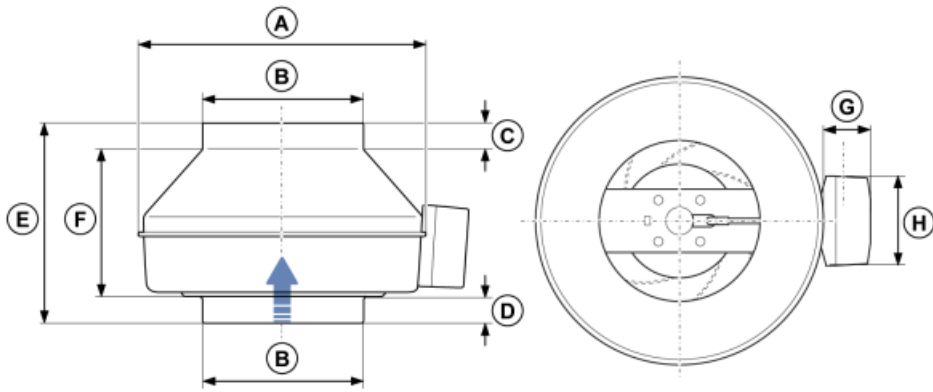


Hydraulic data

Required air flow	993 m³/h
Required static pressure	356 Pa
Working air flow	993 m³/h
Working static pressure	356 Pa
Air density	1.204 kg/m³
Power	347.5 W
Fan control - RPM	2,637 rpm
Current	1.50 A
SFP	1.260 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

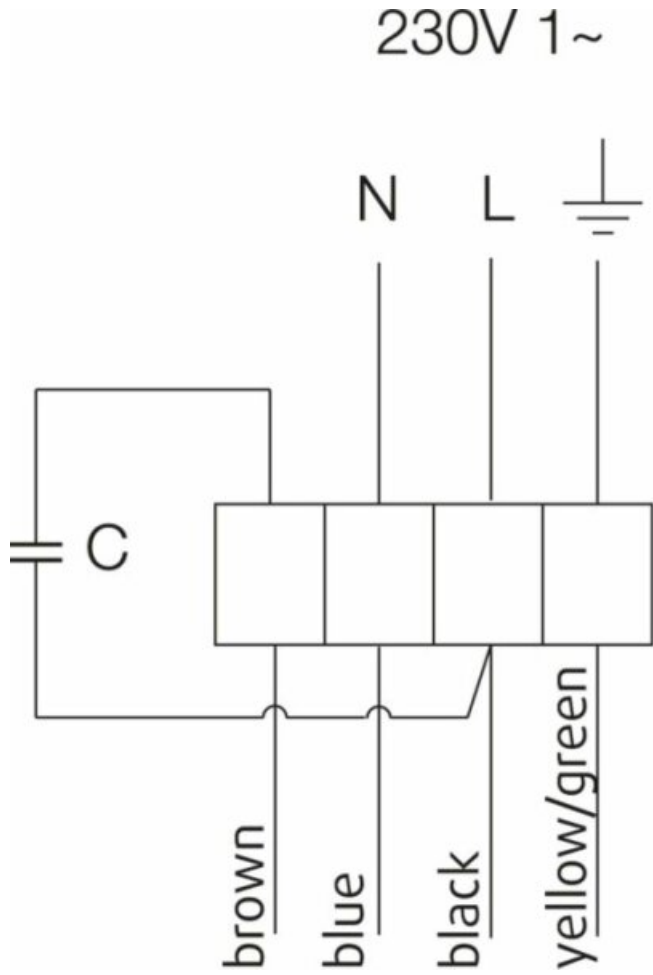
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	57	74	75	78	74	71	71	65	82
Outlet	dB(A)	58	72	72	76	74	76	71	64	82
Surrounding	dB(A)	28	37	46	61	50	48	50	38	62
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	55
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	41

Dimension



øA	B	øC	D	D/2
313	180	248	310	155

Wiring



Accessories

- Frequency converter FRQ5SE-6A (37421)
- REE 2 Speed control (5316)
- REU 3 Speed control (5005)
- SG 250 Protection guard (5610)
- CB 250-6,0 400V/2 Duct heater (5372)
- DTV500A (96807)
- HR1 Room Humidistat (215150)
- RT 0-30 Room Thermostat (5151)
- T 120 Timer (5165)
- CB 250-9,0 400V/3 Duct heater (5373)
- CBMF 250-3,0 230V/1 Duct heater (12248)
- CWK 250-3-2,5 Duct cooler, circ (30024)
- FGR 250 Filter cassette (1815)
- LDC 250-900 Silencer (5196)
- VBC 250-2 Water heating batt (5460)
- VBF 250 Water heating battery (1733)
- RE 3 Speed control (5001)
- REPT 6 Digital regulator (5698)
- REV-3POL/03-7,5kW R/Y (33978)
- VKK-250 Back draft damper (1627)
- CO2RT-R-D Transmitter (6993)
- Frequency converter FRQSE-6A (37419)
- Presence detector/IR24-P (6995)
- Safety switch 2-pole grey (210679)
- CB 250-3,0 230V/1 Duct heater (5385)
- CBM 250-6,0 400V/2 Duct heater (9089)
- CBMF 250-6,0 400V/2 Duct heater (12249)
- FFR 250 Filter cassette (1776)
- FK 250 Fast clamp (1612)
- RSK-250 Back draft damper (5603)
- VBC 250-3 Water heating batt (9843)
- VK-25 Louvre shutter (5640)

Documents

- [INSTALLATION__OPERATION_AND_MAINTENANCE_INSTRUCTION_KD_EN_002.PDF](#)
- [COMMISSIONING_RECORD_FANS__EN.PDF](#)