



KBR/F Centrifugal Fans

High-performing smoke extract fans for harsh working conditions in the event of a fire

- Continuous medium temperature up to 200°C
- Smoke extraction 400°C/2h (F400)
- · Acoustic and thermal insulation 50 mm
- Easy to service and maintain due to the swing-out inspection door

Find more details in our online catalogue

Powerful smoke extraction

The smoke extract units KBR/F are used in case of fire to extract smoke gases and also during normal working conditions for temperature up to 200°C continuously.

Hard-wearing design

The KBR casing is manufactured from doubleskinned galvanised sheet steel and is insulated with 50 mm mineral wool.

Performance

High performance impeller together with high efficient motors are designed to ensure high-level performance to minimize power consumption and maximize efficiency.

Certifications



Item number: #87942 Operating Mode: 400V 3~ 50Hz

Features

Construction

The KBR/F casing is manufactured from doubleskinned galvanised sheet steel and is insulated with 50 mm mineral wool.

The fan is isolated from the casing via connectors and anti-vibration dampers are incorporated into the base frame. Standard is that the motor is outside the air stream.

The KBR/F fans have a swing-out door for easy inspection and service.

Tested according to EN 12101- 3. CE-Certification according to EN 12101-3;2002-06 through TÜV Süd.

Impeller

The KBR/F fans use **radial** impeller with **backward curved blades**. These are made out of aluminum, dynamically **balanced** and paired with corresponding **IEC motor** with efficiency **IE3 or EC motor**.

Motor

High temperature motors for temperature classification F400 (400°C/120 min).

Motor protection

Fans with AC motors have an integrated thermal protection with manual (electrical) reset, thermistor PTC for connection to a motor protection device. Fans with EC motors have an integrated electronic thermal protection including locked-rotor protection and soft-start.

Control

The **AC** motors can be controlled by 5step, stepless speed regulator, **D/Y** switch or frequency converter. **EC** motors with built-in potentiometer to adjust working point can be also controlled

by external signal 0-10V.

Installation

The fans can be used **indoor** or with **specific accessories** also **outdoor**. Due to the mounted **base frame the fan** can stand **on floor**.

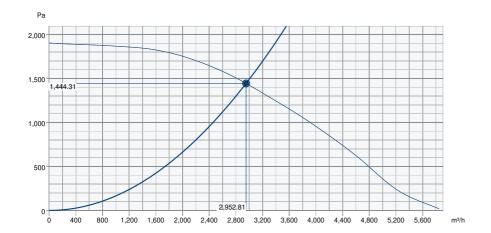
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Technical parameters

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Performance

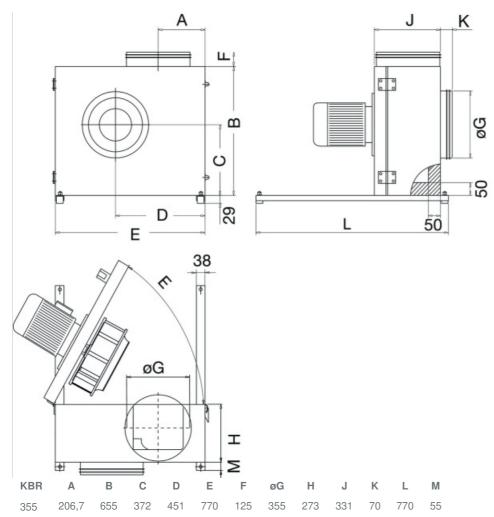
Performance curve



Hydraulic data	
Required air flow	2,953 m³/h
Required static pressure	1,444 Pa
Working air flow	2,953 m³/h
Working static pressure	1,444 Pa
Air density	1.204 kg/m³
Power	2,067.3 W
Fan control - RPM	2,929 rpm
Current	3.48 A
SFP	2.520 kW/m³/s
Control voltage	400.0 V
Supply voltage	400 V

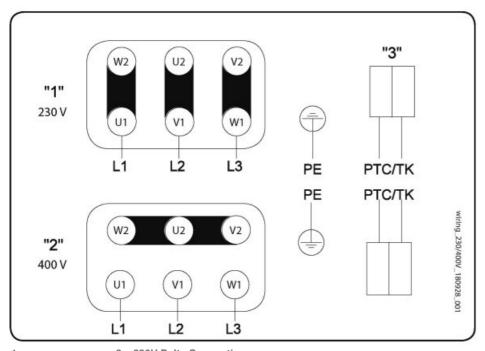
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	49	61	67	76	75	71	65	57	80
Outlet	dB(A)	50	62	68	77	76	73	67	58	81

Dimension



Wiring

3



1 3 x 230V Delta Connection
2 3 x 400V Star connection

- Changing of direction of rotation by interchanging of two phases

PTC / TK

500 J

Accessories

- ASF 355/KB Flex. connection (2719)
- Frequency converter FXDM5AM (31387)
- REV-5POL/05-7,5kW R/Y (33979)
- RSA 355/532,5/070 (F) (311350)
- U-EK230E Motor protection (30199)
- WSD KBR-2 Weather roof f.motor (2729)
- ALS-KBR drain plug (2727)
- REV-5POL/07-EMV-7,5kW B/G (281744)

• EVH 355 flex.conn. AXC 400°C (8365)

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- LRK 355(F) air oper. damper (8317)
- RSA 355/355/070 (F) (311349)
- RSA 355/710/070 (F) (311351)
- UGF 355 Transition flange (305494)
- REV-5POL/07-EMV-7,5kW R/Y (34549)
- WBK 315/355 Wall bracket (2721)

Documents

- Installation, Operation and Maintenance instruction_005
- 2797_CPR_719672.PDF
- eu_declaration_of_conformity_smoke_extract_fans_en_003.pdf