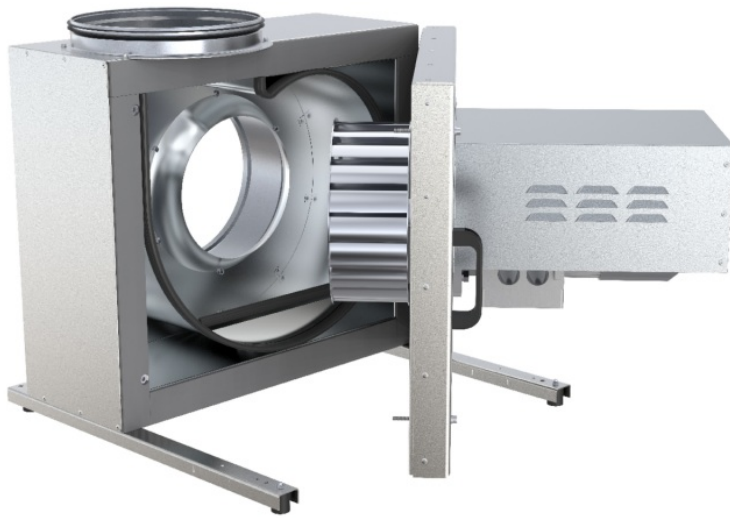




KBT Centrifugal Fans

Powerful and efficient exhaust fans for medium temperatures up to 120°C

- Up to 120°C medium temperature, continuous operation
- Acoustic and thermal insulation 50 mm
- Excellent for commercial kitchens and process exhaust systems
- Easy to service and maintain due to the swing-out inspection door and drain plug

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

Reliability

The KBT fans are designed for reliable, continuous use with medium temperatures up to 120°C.

The combination of reliable casing and motor construction ensure to minimize the need for maintenance of the fans and allows long **continuous operation**.

High performance

High performance impeller together with **high efficient** motor are designed to ensure high-level performance with **minimum power consumption** and **maximum efficiency**.

Low noise

Casing of KBT models have perfect **acoustic/thermal insulation** capacity. In addition, **anti-vibration** dampers and **flexible connections** allows to reduce noise and vibration transfer to the duct system.

Easy maintenance

Integrated protection plate prevents escaping grease or oil. Integrated **drain plug** for liquids allows to organise a natural drain. A dedicated **swing-out maintenance door** allows quick and easy maintenance of the fan.

Features

Construction

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

The fan motor is mounted on a **swing-out door outside of the airstream** and covered by **weather protection**.

Casing design includes **integrated protection plate** to prevent escaping grease or oil and integrated **drain plug** for draining liquids.

Impeller

The KBT fans use lightweight **radial** impellers with **forward curved blades**. These are manufactured from galvanised steel, dynamically **balanced** and paired with corresponding motor.

Motor

Depends on type, KBT fans are equipped with **IEC motors** (efficiency class IE3) or **EC motor**.

Models with **EC motors** are suitable for operation at **50Hz** and **60Hz**.

Motor protection

Models with **AC** motors have integrated **thermal contacts TK** or integrated **thermistors PTC** with leads for connection to an external motor protection device.

Models with **EC** motors have **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

Models with **AC motor** can be controlled by **frequency converter**.

Models with **EC motor** equipped with **built-in potentiometer** to adjust working point, can be controlled by external **signal 0-10V**.

Installation

KBT fans can be used **indoor** or **outdoor**.

Due to the integrated **base frame** the fan can stand **on the floor** or on the **wall mounting brackets**.

Base frame equipped with **anti-vibration dampers** to prevent vibration transfer from the fan to the construction elements. For **preventing vibration** to the ducts it is recommended to use **flexible connections**.

Technical parameters

Nominal data

Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	186	W
Input current	0.833	A
Impeller speed	1,411	rpm
Air flow	max 787	m³/h
Temperature of transported air	max 120	°C
Max temperature of transported air, when speed controlled	120	°C

Sound data

Sound pressure level at 4m (free field)	35	dB(A)
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Protection/Classification

Enclosure class, motor	IP54
Insulation class	F

Data according to ErP

ErP ready	Not ErP relevant
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Dimensions and weights

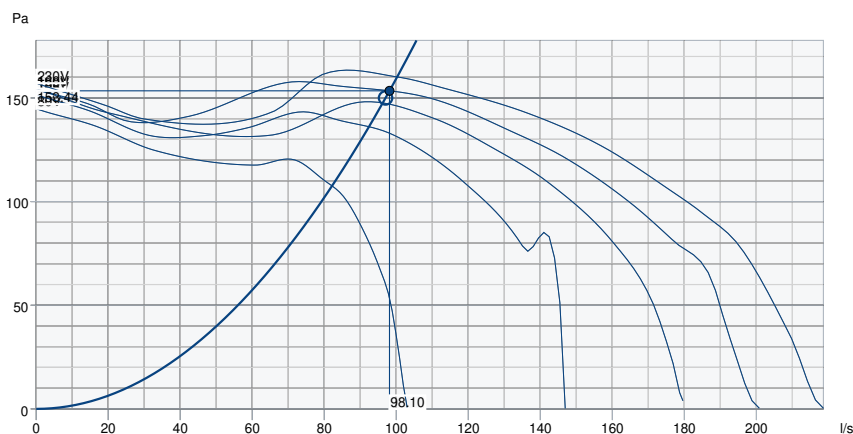
Duct dimension; Circular, inlet	160	mm
Duct dimension; Circular, outlet	160	mm
Weight	24.2	kg

Others

Duct connection type	Circular
Color name, casing	Grey
Motor type	AC

Performance

Performance curve

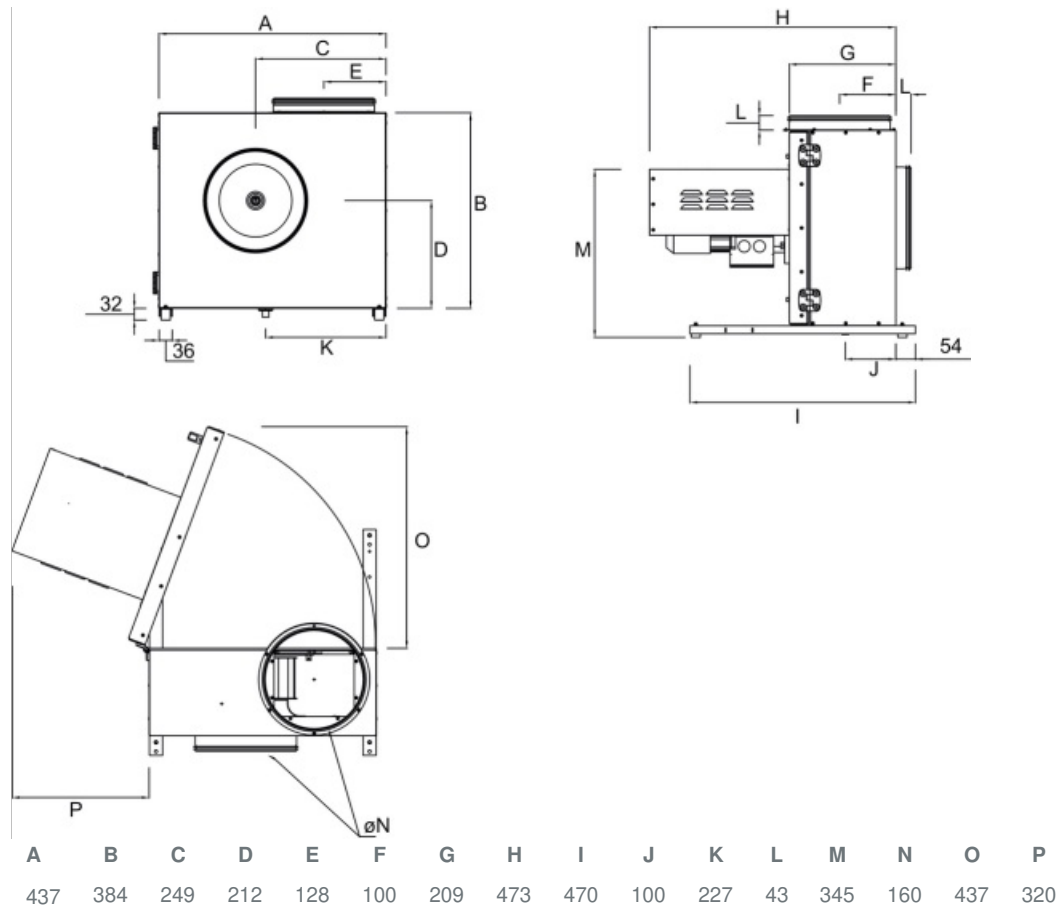


Hydraulic data

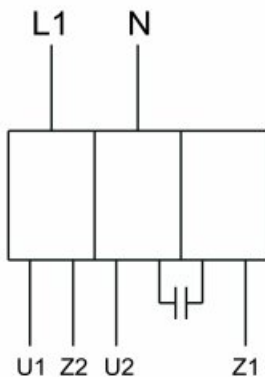
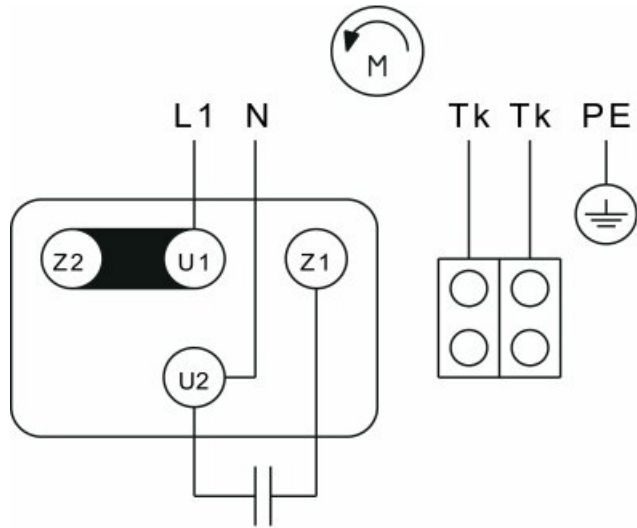
Required air flow	97.00 l/s
Required static pressure	150 Pa
Working air flow	98.10 l/s
Working static pressure	153 Pa
Air density	1.204 kg/m ³
Power	77.1 W
Fan control - RPM	1,435 rpm
Current	0.50 A
SFP	0.786 kW/m ³ /s
Control voltage	160.0 V
Supply voltage	160 V

Accessories

Dimension



Wiring



Accessories

- Frequency converter FRQ5SE-6A (37421)
- Motor protect. switch S-ET 10E (161205)
- REV-5POL/05-7,5kW R/Y (33979)
- CO2RT-R-D Transmitter (6993)
- HR1 Room Humidistat (215150)
- Presence detector/IR24-P (6995)
- Safety switch 2-pole grey (210679)
- KBT 160/180/200 Wall bracket (182814)
- Motor protect. switch S-ET 10 (161199)
- REU 1.5 Speed control (5004)
- RTRE 1,5 Speed control (5008)
- Frequency converter FRQSE-6A (37419)
- Muff 160 (200817)
- RT 0-30 Room Thermostat (5151)
- T 120 Timer (5165)
- Room hygrostat HR-S (286251)

Documents

- INSTALLATION__OPERATION_AND_MAINTENANCE_INSTRUCTION_KBT__EN_004.PDF
- COMMISSIONING_RECCORD_FANS__EN.PDF

Specification