

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**.

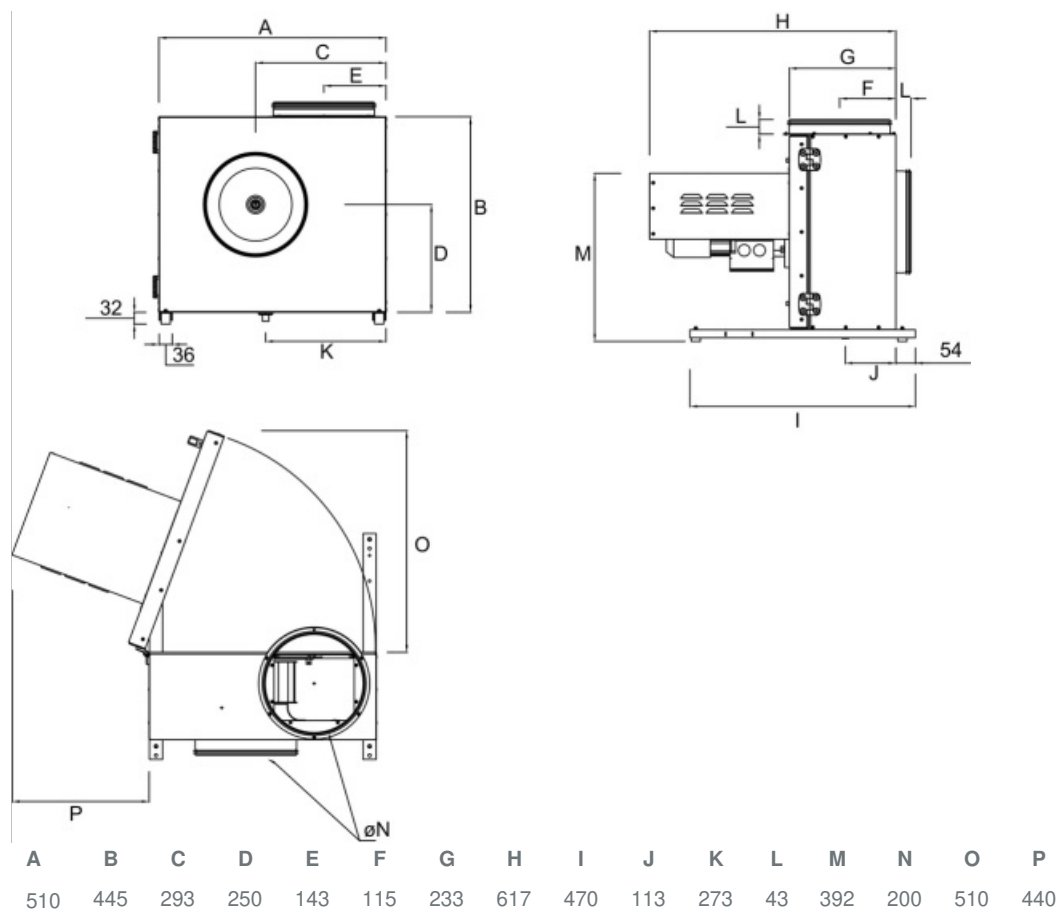
Technical parameters

Dimensions and weights

Weight

35 kg

Dimension



Accessories

- CXE/AVC Modbus (37256)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent Room Unit (3018)
- MTV-1/010 Controller 0..10V+ (30650)
- REV-3POL/03-7,5kW R/Y (33978)
- Step switch S-5EC-2, 0-10V (449084)
- MF 200 (200818)
- RT 0-30 Room Thermostat (5151)
- ASF 200/KB Flex. connection (2714)
- Room hygrostat HR-S (286251)
- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Vent control board (3115)
- MTP 10, 10K, Speed control (32731)
- Potentiometer MTP 20, 0-10V (310220)
- REV-5POL/05-7,5kW R/Y (33979)
- HR1 Room Humidistat (215150)
- Presence detector/IR24-P (6995)
- Safety switch 2-pole grey (210679)
- KBT 160/180/200 Wall bracket (182814)

Documents

- [INSTALLATION__OPERATION_AND_MAINTENANCE_INSTRUCTION_KBT__EN_005.PDF](#)
- [COMMISSIONING_RECORD_FANS__EN.PDF](#)