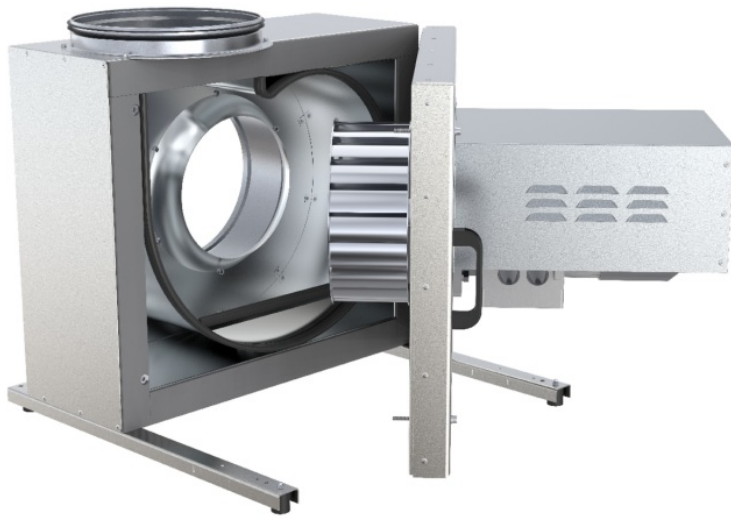




KBT Centrifugal Fans

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	732	W
Input current	4.55	A
Impeller speed	1,446	rpm
Air flow	max 521	L/s
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)	45	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

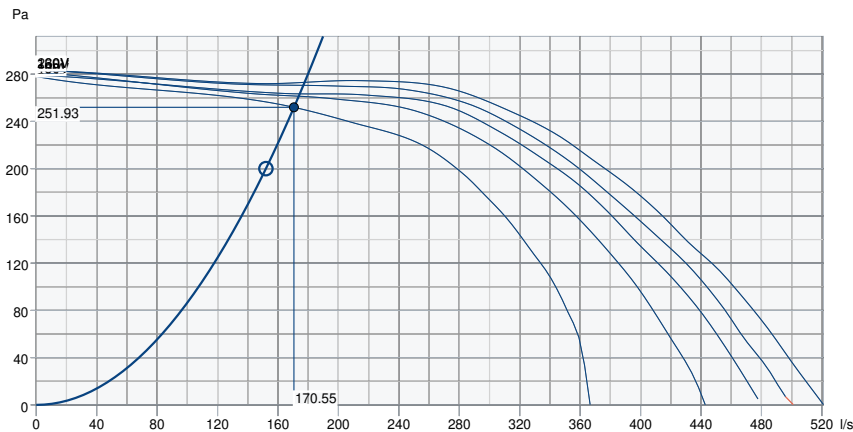
Duct dimension; Circular, inlet	200	mm
Duct dimension; Circular, outlet	200	mm
Weight	38	kg

Others

Duct connection type	Circular
Motor type	AC

Performance

Tootluse kõver



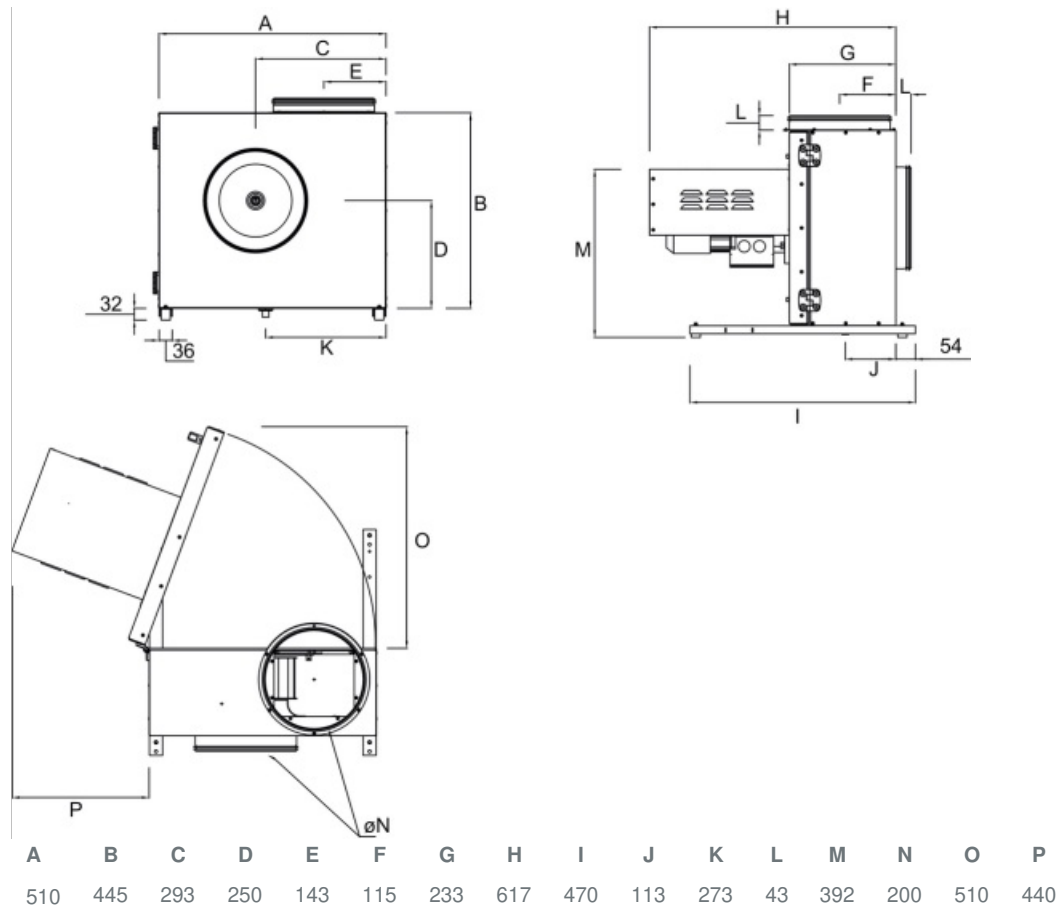
Hüdraulilised andmed

Vajalik õhuvool	152.0 l/s
Nõutav staatiline rõhk	200 Pa
Töö õhuvool	170.5 l/s
Töö staatiline rõhk	252 Pa
Air density	1.204 kg/m³
Võimsus	130.6 W
Ventilaatori juhtimine - RPM	1409 rpm
Praegune	1.59 A
SFP	0.766 kW/m³/s
Kontrollpinge	80.0 V
Toitepinge	80 V

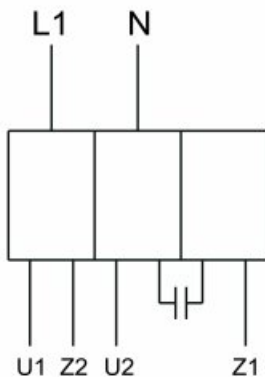
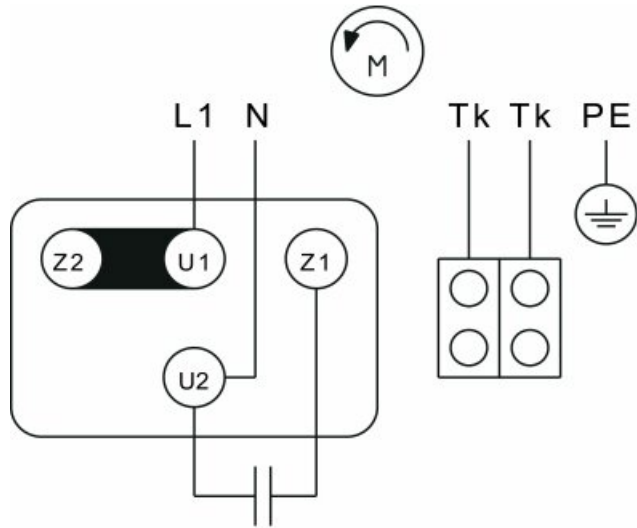
Heli tugevus		63	125	250	500	1k	2k	4k	8k	Kokku
Sisselase	dB(A)	59	67	71	66	66	64	62	59	75
Väljalase	dB(A)	55	60	68	70	68	65	62	58	75
Ümbritsev	dB(A)	25	32	56	51	59	55	53	47	63
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	56
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	42

Tarvikud

Dimension



Wiring



Accessories

- Frequency converter FRQ5SE-6A (37421)
- Motor protect. switch S-ET 10E (161205)
- REV-5POL/05-7,5kW R/Y (33979)
- C04D Thermostat -35... +20 C (5630)
- DTV500A (96807)
- 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 7 Speed control (5007)
- RTRE 7 Speed control (5011)
- CO2RT-R-D Transmitter (6993)
- Frequency converter FRQSE-6A (37419)
- MF 200 (200818)
- RT 0-30 Room Thermostat (5151)
- ASF 200/KB Flex. connection (2714)
- Room hygrostat HR-S (286251)

Documents

- [INSTALLATION__OPERATION_AND_MAINTENANCE_INSTRUCTION_KBT__EN_004.PDF](#)
- [COMMISSIONING_RECCORD_FANS__EN.PDF](#)

Specification