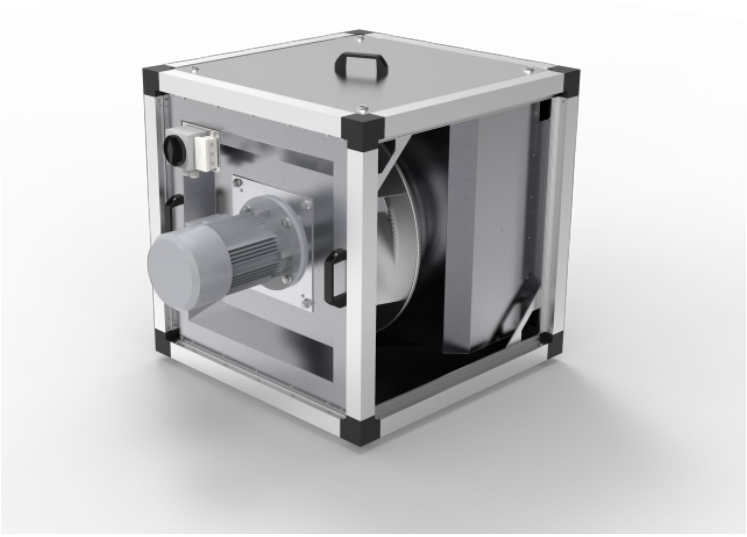


MUB/T Insulated duct fans

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

- For kitchen and industrial environments
- Up to 120°C medium temperature, continuous operation
- Drip pan and drain plug included
- Acoustic and thermal insulation 30 mm
- Flexible airflow direction
- Indoor and outdoor installation
- Modular system of accessories
- Available with AC and EC motors for 50 and 60Hz

Find more details in our online catalogue

Application

The MUB/T fans are specially designed to **extract** air from **kitchen environments** or **industrial applications**, where **motor** must be placed **outside of air stream**. **Drip pan** with **drain plug** on bottom (except MUB/T 100 630D4-K2-L) are constructed for **collecting** a draining **dust, oil, water**.
By MUB/T and MUB/T-S fans an easy **maintenance** is provided through **service door** with handle.

Flexibility

Depending on the type, MUB/T fans are designed for **straight through** or **90°** airflow. The **air direction** can be easily **changed** on site. The construction of the casing and thermal insulation permits **outdoor** and **indoor** use.

Performance

High-performance aluminium impeller together with **highly efficient** motors are designed to ensure high-level performance to **minimise power consumption** and **maximise efficiency**.

Modularity

Thanks to variety types of **accessories** as flexible connections, dampers, roof, base frame, etc. it is easy to design any ventilation system according to your demand.
By using special **modular systems**, where some accessories as **heaters, coolers, silencers, filters** or **carbon filters** are built-in in **the same type of casing**, you can even design a simple supply or exhaust **air handing unit.**

Certifications

Green Ventilation

Features

Construction

The casing consists of a corrosion-resistant **aluminium frame** with **fibreglass reinforced plastic corners of PA6**; highly shock-resistant. **Panels** made of **double skin galvanised** sheet steel with **30 mm acoustic** and **thermal** rockwool **insulation**.
The **MUB/T** and **MUB/T-ECO** fans are designed for **90° airflow**.
The **MUB/T-S** fans are designed for **straight through airflow**.
Air direction can be easily **rebuilt** on site by **changing** with **service doors (MUB/T).**
Revision switch is **included** and **prewired for MUB/T** and **MUB/T-S.**
The **MUB/T-ECO** is **without revision switch** and **service door.**
Aluminium drip with **drain plug is** placed on **bottom** of casing (except MUB/T 100 630D4-K2-L).

Impeller

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

Motor

Depending on the type, MUB/T fans are equipped with **AC** or **EC** external rotor motors. Motors are suitable for **50Hz** and **60Hz.**

Motor protection

Depending on the type, **AC** motors have an **integrated** thermal protection with manual (electrical) reset, pre-wired integral **thermocontact TK** or **thermistor PTC** with leads to a **motor protection device**.
Fans with **EC** motors have an **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

EC motors with **built-in potentiometer** to adjust working point can be also controlled by external **signal 0-10V.**
EC motors, depending on the type are also equipped with **ModBus** communication **or alarm signal.**
AC motors can be controlled by **5-step, stepless** speed regulator, **D/Y** switch or **frequency converter.**

Installation

For correct drainage the MUB/T fans must be installed in position with drip pan down. Fans can be installed in any position **indoor** and together **with weather protection roof** also **outdoor**. With mounted **base frame** the MUB/T fans can stand **on floor**. For **preventing vibration** to the duct it is recommended to use **flexible connections.**

Technical parameters

Nominal data		
Voltage (nominal)	400	V
Frequency	50	Hz
Phases	3~	
Motor circuit connection	D	
Input power	5,528	W
Input power kW	5.528	kW
Input current	9.66	A
Impeller speed	1,450	rpm
Air flow	max 5.539	m^3/s
Temperature of transported air	max 120	°C
Max temperature of transported air, when speed controlled	120	°C

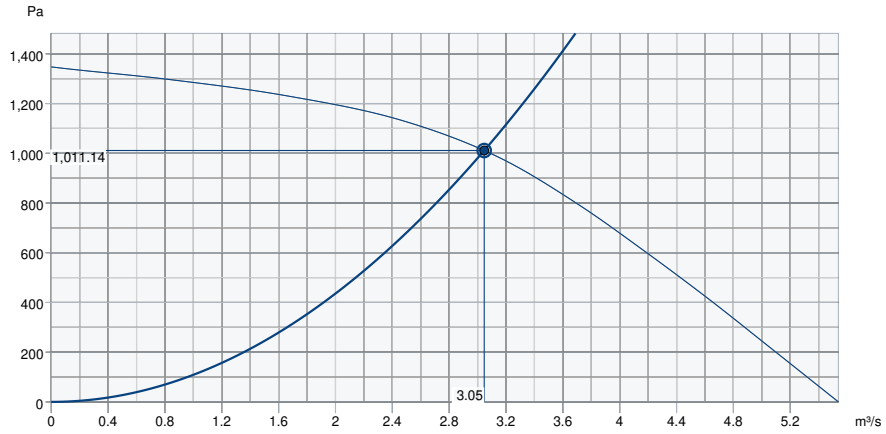
Protection/Classification		
Enclosure class, motor	IP55	
Insulation class	F	

Dimensions and weights		
Weight	173	kg

Others		
Motor type	AC	

Performance

Performance curve

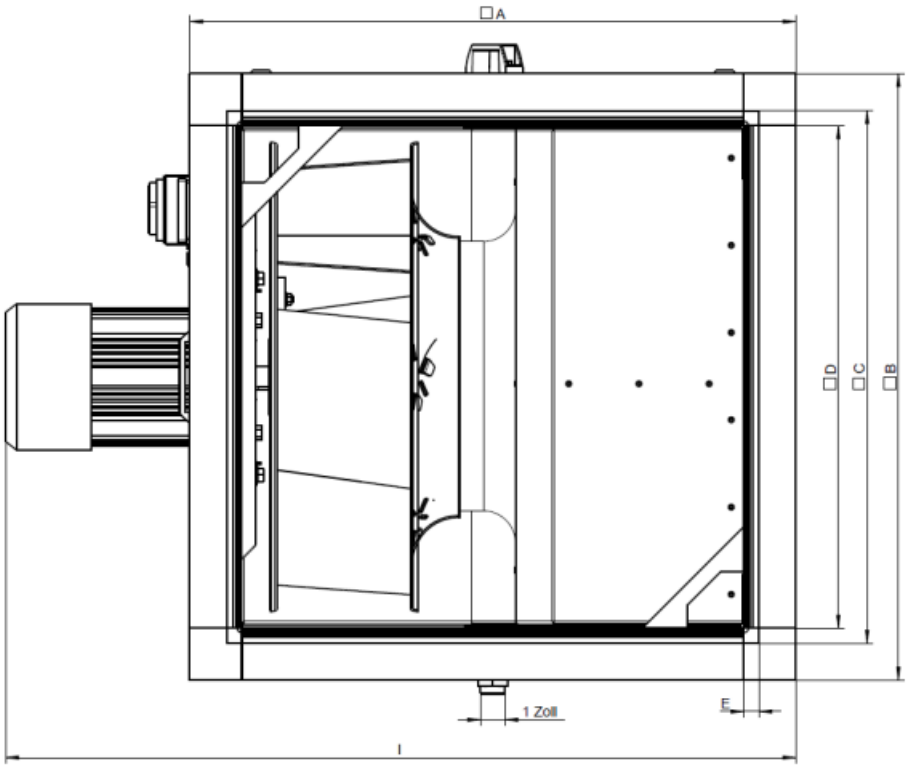


Hydraulic data	
Required air flow	3.05 m³/s
Required static pressure	1,011 Pa
Working air flow	3.05 m³/s
Working static pressure	1,011 Pa
Air density	1.204 kg/m³
Power	5,494.2 W
Fan control - RPM	1,451 rpm
Current	9.60 A
SFP	1.803 kW/m³/s
Control voltage	400.0 V
Supply voltage	400 V

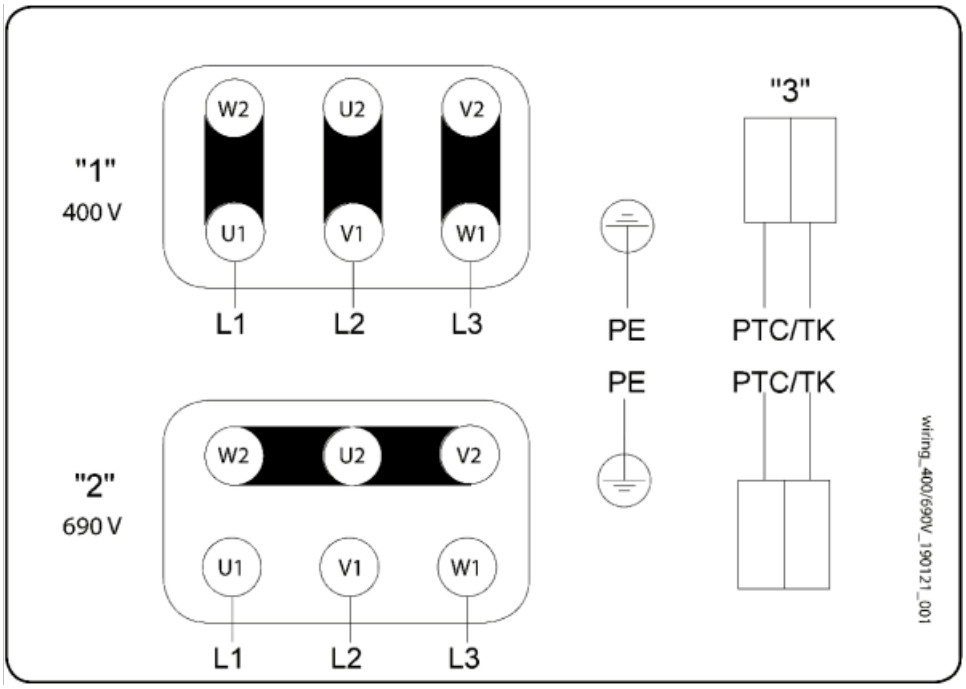
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	60	80	83	85	84	80	77	69	90
Outlet	dB(A)	61	82	85	87	86	82	79	71	92
Surrounding	dB(A)	38	61	53	51	52	50	42	32	63
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	56
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	42

Dimension

MUB/T-S 100	□A	□B	□C	□D	E	I
630D4 IE3	1020	1020	920	878	21	1201



Wiring



Three phase motor with cold conductor

"1"	Delta connection
"2"	Star connection
"3"	Thermal motor protection optional

Changing of direction of rotation by interchanging of two phases

Accessories

- FGV 100/916-916 flex. conn. (4199)
- Frequency converter FRQ5-10A (36230)
- Frequency converter FXDM14AM (31389)
- TUNE-AHU-DE009-100-918x918-M0 (79883)
- WSD 100 (1060x1060x70) compl. (31483)
- FGV 100/916-916 flex. 120°C (38363)
- GRU 100-1020/100 (276663)
- KKF-ALU 100-filter-section (376817)
- KKF-CAR 127-filter-section (277349)
- KKF-KITCHEN 127-filter-section (277368)
- Frequency converter FRQ-10A (36228)
- Frequency converter FRQ5S-10A (36234)
- SD-MUB Vibration pad set (37324)
- U-EK230E Motor protection (30199)
- WSD MUB/T-S large (37496)
- Frequency converter FRQS-10A (36232)
- KKF 30 100-filter-section (93313)
- KKF-CAR 100-filter-section (277348)
- KKF-KITCHEN 100-filter-section (277367)
- KKS 100 silencer-section (276853)

Documents

- Installation, Operation and Maintenance instruction_001
- UKCA DECLARATION OF CONFORMITY_THERMOFANS_EN_002.PDF
- COMMISSIONING REPORT_FANS_160628_EN_001.PDF