



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 handling unit**.

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~	
Input power	2587	W
Input power kW	2.587	kW
Input current	3.88	A
Impeller speed	1410	rpm
Air flow	max 3.6292	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	H

Data according to ErP

ErP ready	Not ErP relevant
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Dimensions and weights

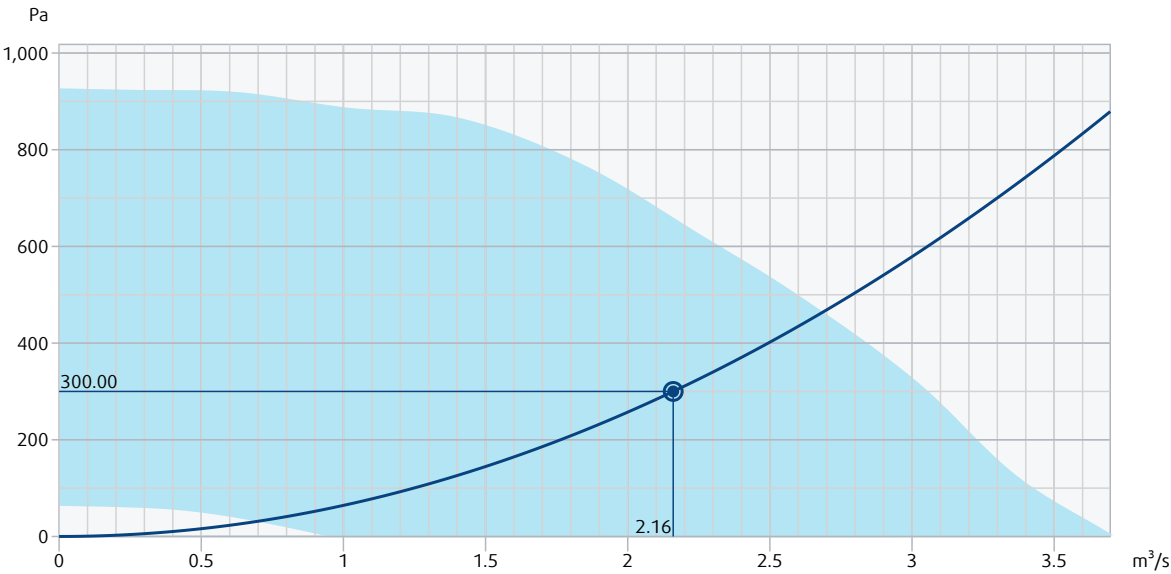
Weight	137.5	kg
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Others

Duct connection type	Square
Motor type	EC

Performance

Performance curve

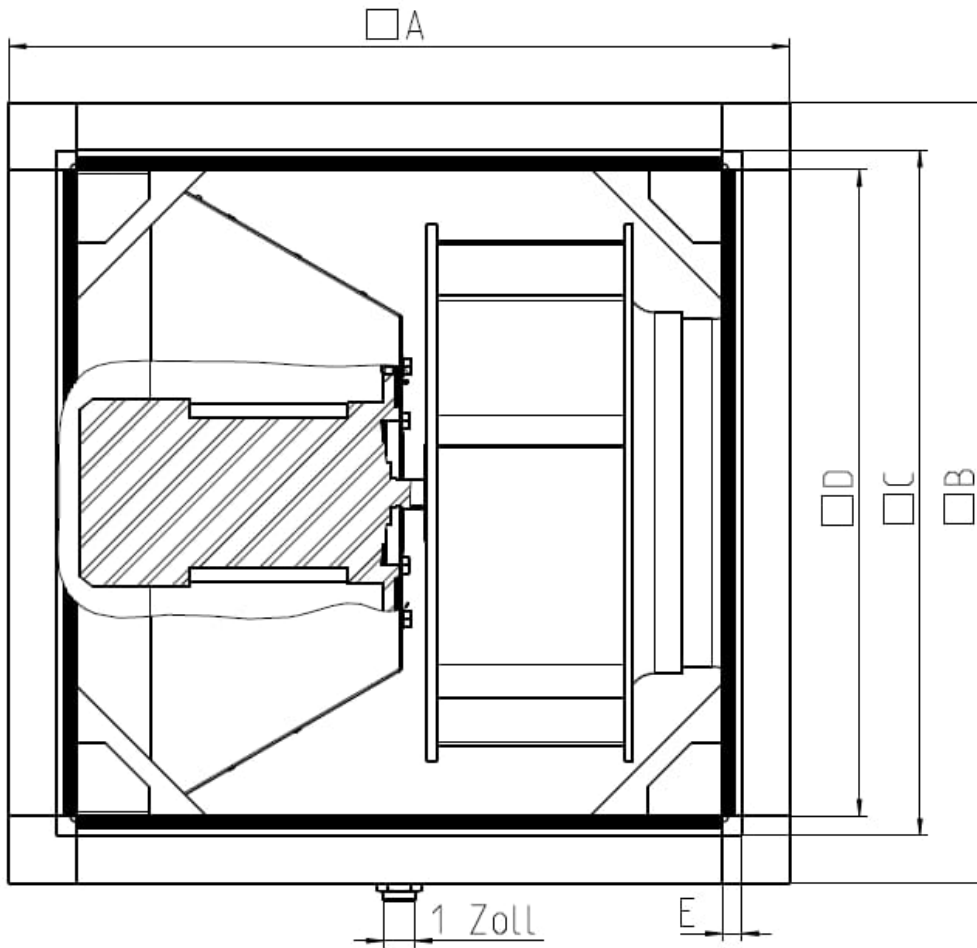


Hydraulic data

Required air flow	2.16 m³/s
Required static pressure	300 Pa
Working air flow	2.16 m³/s
Working static pressure	300 Pa
Air density	1.204 kg/m³
Power	1,335.9 W
Fan control - RPM	1,137 rpm
Current	2.08 A
SFP	0.618 kW/m³/s
Control voltage	7.7 V
Supply voltage	400 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	56	67	74	76	74	71	66	63	81
Outlet	dB(A)	58	69	76	78	76	72	67	64	82
Surrounding	dB(A)	39	56	60	49	48	46	38	31	62
Sound pressure level at 3m (20m² Sabine)		dB(A)	-	-	-	-	-	-	-	55
Sound pressure level at 3m free field		dB(A)	-	-	-	-	-	-	-	41

Dimension



Wiring

1

L1, L2, L3 Supply voltage, see rating plate

PE Protective conductor

2

RSA RS485- Interface for MODBUS, RSA

RSB RS485- Interface for MODBUS, RSB

GND Ground (-)

+10Vdc Power supply +10Vdc - I_{max} 20mA

AnalogIn1 0-10V Signal input

GND Ground (-)

Din2 Digital input 2(fectury setting - Alarm Reset)

Din1 Digital input 1(fectury setting - Start/Stop)

Dout1 Digital output(fectury setting - Tacho)

GND Ground (-)

3

Relay 1 (terminals 20,21,22) 20,21 closed Din Stop,21,22 close Din Start

Relay 2 (terminals 23,24,25) 24,25 closed „one/no alarm,23,24 close „critical alarm“ engine stopped

AHU Accessories

- CCM inlet MUB062 d560, 311782 (311782)
- CCM outlet MUB062 d560, 311684 (311684)
- CCMI outlet 062 d560 KIT 30mm, 239095 (239095)
- CXE/AVC Modbus, 37256 (37256)
- EC-Basic-CO2 and temperature, 24808 (24808)
- EC-Basic-T temperature, 24805 (24805)
- EC-Selector, 9908 (9908)
- EC-Vent Room Unit, 3018 (3018)
- FGV 062/716-716 flex. conn., 4198 (4198)
- HR1 Room Humidistat, 215150 (215150)
- KKF 30 062-filter-section, 93312 (93312)
- KKF-CAR 062-filter-section, 277347 (277347)
- KKF-KITCHEN 062-filter-section, 277364 (277364)
- KKS 062 silencer-section, 276852 (276852)
- MTP 10, 10K, Speed control, 32731 (32731)
- MTV-1/010 Controller 0..10V+, 30650 (30650)
- RT 0-30 Room Thermostat, 5151 (5151)
- SD-MUB Vibration pad set, 37324 (37324)
- Step switch S-5EC-2, 0-10V, 449084 (449084)
- UGS 062/500 adapter flex 120°C, 38370 (38370)
- UGS 062/630 adapter flex., 4358 (4358)
- WSG 062 MUB/T complete, 36067 (36067)
- CCM inlet MUB062 d630, 311783 (311783)
- CCM outlet MUB062 d630, 311681 (311681)
- CCMI outlet 062 d630 KIT 30mm, 239096 (239096)
- DMD-C Pressure controller, 15793 (15793)
- EC-Basic-H humidity, 24807 (24807)
- EC-Basic-U universal 0-10V, 24806 (24806)
- EC-Vent control board, 3115 (3115)
- FGV 062/716-716 flex. 120°C, 38362 (38362)
- GRU 062 base frame h= 100mm, 276662 (276662)
- KKF 30 062-filter-section, 93312 (93312)
- KKF-ALU 062-filter-section, 376816 (376816)
- KKF-CAR 100-filter-section, 277348 (277348)
- KKF-KITCHEN 100-filter-section, 277367 (277367)
- KKS 062 silencer-section, 276852 (276852)
- MTP 20, on/off, 3-step, 310220 (310220)
- Presence detector/IR24-P, 6995 (6995)
- S-5EC/FRQ, 76738 (76738)
- SDM Service Door MUB 062 30mm, 273935 (273935)
- TUNE-AHU-DE008-062-718x718-M0, 79882 (79882)
- UGS 062/630 adapter flex 120°C, 38371 (38371)
- WSD 062 (860x860x70) complete, 31482 (31482)

Documents

- Commissioning Report
- Installation, Operation and Maintenance instruction_003