

MUB/T 042 450EV

Centrifugal box fan, 120°C continuous, insulated

Item Number: [235379](#)

Variant: 230V 1~ 50Hz

- Up to 120°C medium temperature, continuous operation
- Multi-functional use, e.g. for kitchen exhaust air
- Modular system
- Integral thermal contacts
- Pre-assembled isolator is standard
- Low sound level
- Easy to maintain and reliable
- Motor outside the air stream

All MUB/T fans have impellers with backward curved blades, manufactured from aluminium. The MUB/T fans are suitable for medium temperatures up to 120°C continuously. Motor protection by thermal contact, to be connected to an external motor protection device. The casing consists of an aluminium frame with fibreglass reinforced plastic corners and double skin, galvanised steel panels with a 30 mm mineral wool insulation. Panels are removable, allowing flexible ventilation solutions - the air direction can easily be changed by 90°. With quick lock access door. The MUB bottom panel is shaped as a grease tray and incorporates a pre-mounted 1" drain plug. An isolator switch is mounted on the casing.

Several filter modules like f.e. activated carbon- or aluminum filters are available, calculated individually on the working point.



Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phase(s)	1~	
Input power	1,009	W
Input current	4.68	A
Impeller speed	1,408	r.p.m.
Air flow	max 1.686	m³/s
Capacitance of capacitor	30	µF
Temperature of transported air	max 120	°C
Max temperature of transported air, when speed controlled	120	°C
Protection/Classification		
Enclosure class, motor	IP54	
Insulation class	F	

Dimensions and weights

Weight

65 kg

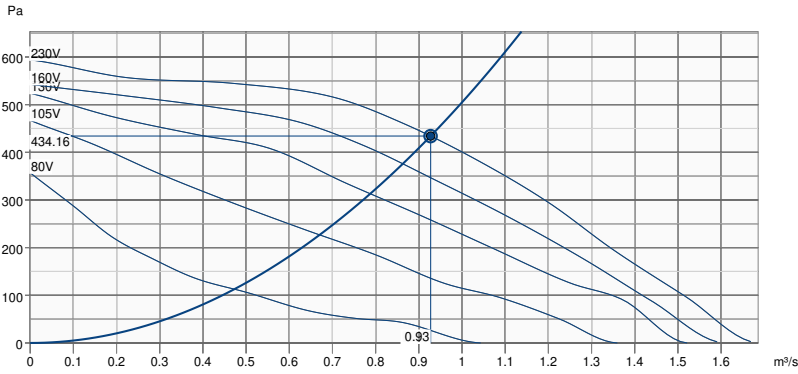
Others

Motor type

AC

Performance

Performance curve



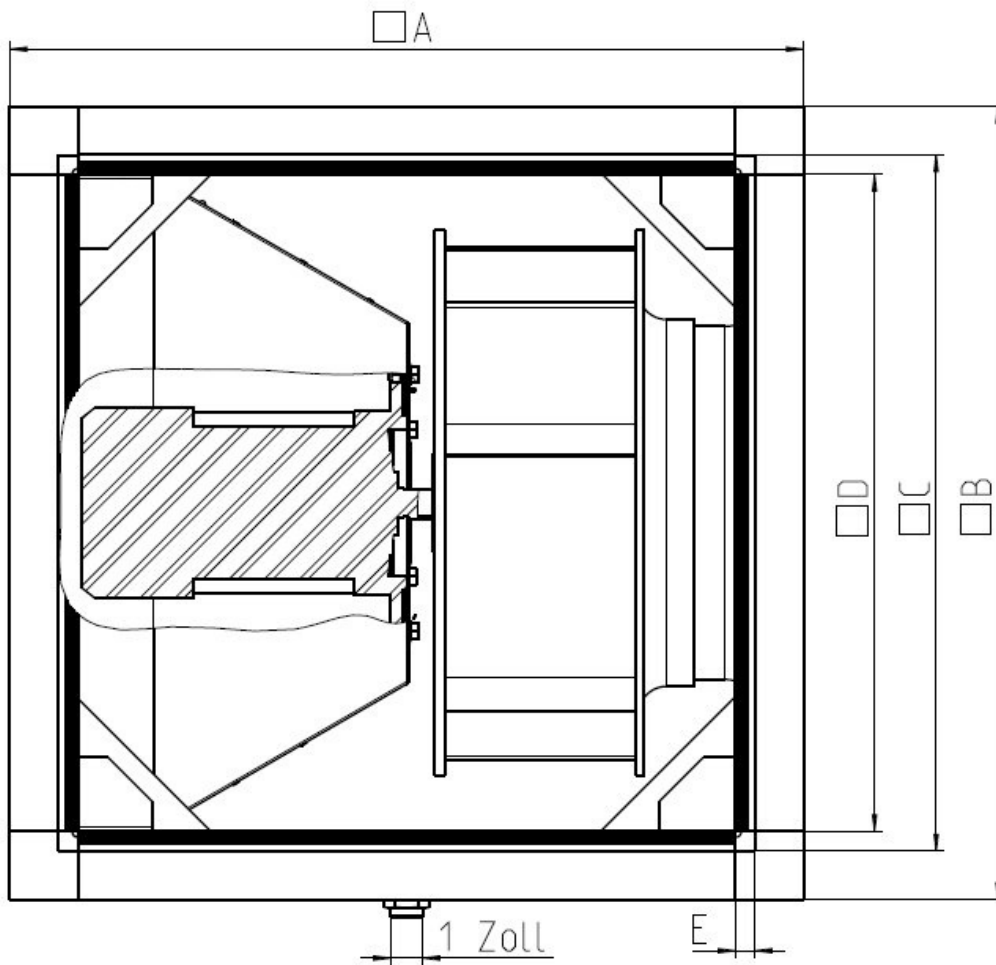
Hydraulic data

Required air flow	0.93 m³/s
Required static pressure	434 Pa
Working air flow	0.93 m³/s
Working static pressure	434 Pa
Air density	1.204 kg/m³
Power	1007.2 W
Fan control - RPM	1407 rpm
Current	4.67 A
SFP	1.086 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

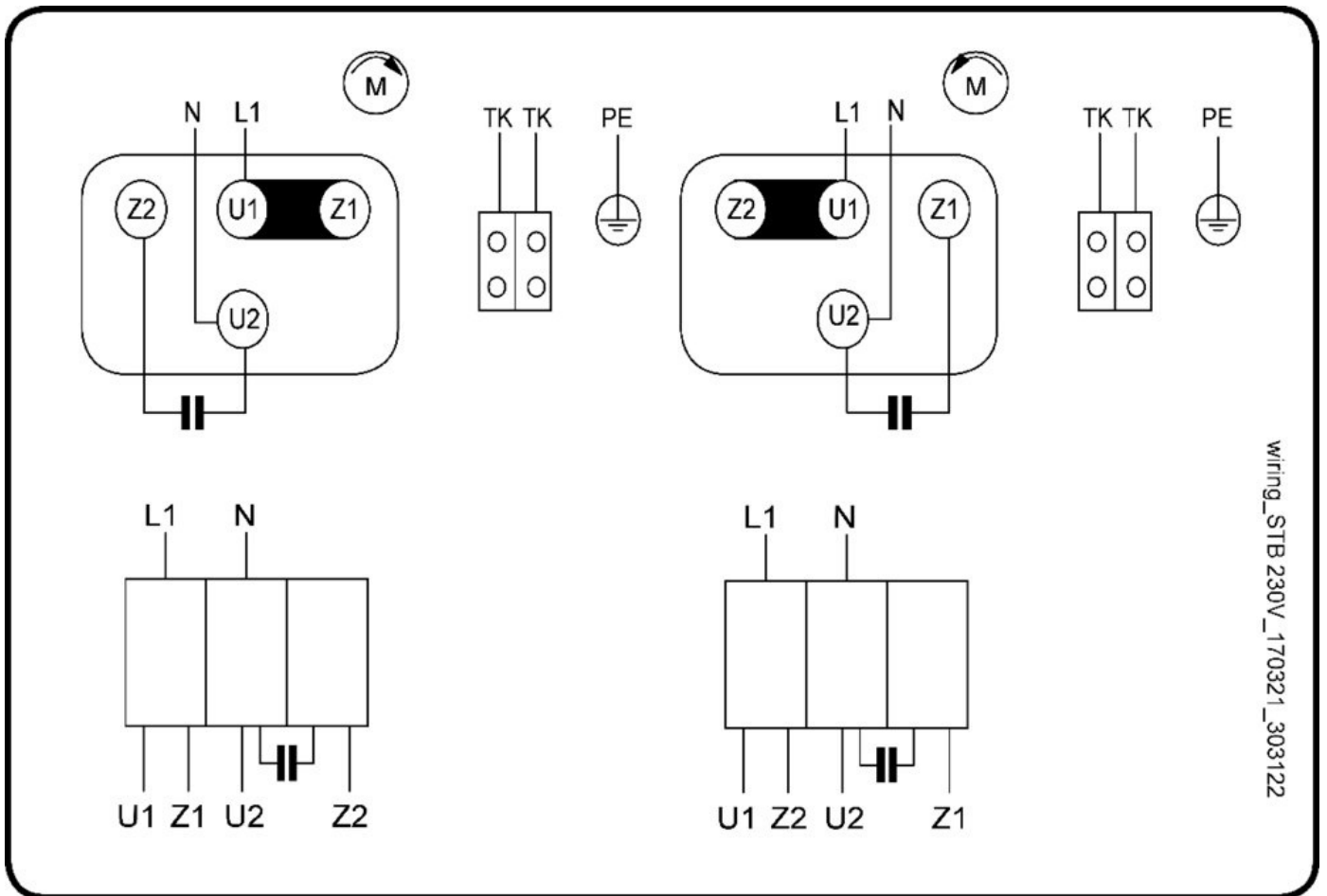
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	46	68	67	72	76	73	68	63	80
Outlet	dB(A)	48	70	68	74	77	74	70	64	81
Surrounding	dB(A)	26	50	43	42	46	47	37	28	53
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	46
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	32

Dimension

MUB/T 042	□A	□B	□C	□D	E
400/450/500	690	690	590	548	21



Wiring



wiring_STB 230V_170321_303122

Acoustic

The Level of Casing-Breakout-Noise depends on the quality of shielding the acoustic inlet and outlet noises.

The shown Level of Casing-Breakout-Noise will be reached only in case of 100 % shielding the acoustic inlet and outlet noise and a correspondingly low environment noise.

Accessories

- FGV 042/586-586 flex. conn. (4605)
- M-SG 042/588x588 (301345)
- RTRE 7 Speed control (5011)
- SD-MUB Vibration pad set (37324)
- TUNE-AHU-DE007-042-588x588-M0 (79881)
- UGS 042/500 adapter flex 120°C (38369)
- WSD 042 (730x730x70) complete (31481)
- FGV 042/586-586 flex. 120°C (38361)
- CCM inlet MUB042 d400 (311780)
- CCM outlet MUB042 d400 (311682)
- CCMI outlet 042 d400 KIT 30mm (239093)
- GRU 042 base frame h= 100mm (276661)
- KKF-CAR 042-filter-section (277346)
- KKF-KITCHEN 042-filter-section (277363)
- KKS 042 silencer-section (276851)
- FRQ5S-E-6A (37421)
- REU 7 Speed control (5007)
- S-ET 10 Motor Protection (161199)
- TES 070A5 Speed control (9514)
- UGS 042/400 adapter flex 120°C (38368)
- UGS 042/500 adapter flex. (4357)
- WSG 042 MUB/T complete (36071)
- FRQS-E-6A (37419)
- CCM inlet MUB042 d500 (311781)
- CCM outlet MUB042 d500 (311683)
- CCMI outlet 042 d500 KIT 30mm (239094)
- KKF-ALU 042-filter-section (376815)
- KKF-CAR 062-filter-section (277347)
- KKF-KITCHEN 062-filter-section (277364)

Documents

- imo_mub_all_010_en_248056
- UKCA DECLARATION OF CONFORMITY_THERMOFANS_EN_[001].PDF
- COMMISSIONING REPORT_FANS_160628_EN_001.PDF

Specification

Multibox Thermo fan for medium temperatures up to 120 °C in continuous operation, reliable, for easy and direct installation in duct systems.

Casing frame construction made of aluminium hollow profiles and plastic corners for highest impact resistance. Double skin galvanised steel panels, thermally and sound insulated with a 30 mm layer of mineral wool, smooth inner sides. Removable service panel. Bottom panel is shaped as a grease tray and incorporates a pre-mounted 1" drain plug.

Free-running, backward curved circular impeller made of aluminium. Impeller acc. to VDI 2060, balancing quality Q 6.3, dynamically balanced in two planes acc. to ISO 21940-11.

Voltage controllable internal rotor motor, standard motor IEC (IP54), outside the air flow, easy to maintain. Integral thermal contacts with leads to a motor protection device. Speed-controlled by voltage reduction via transformer or via frequency inverter.

Terminal box fitted on the motor.

Pre-assembled isolator switch.

Multifunctional use, square connection, intake and discharge side. Variable outlet direction, can be modified on site.

Suitable for kitchen exhaust.

Horizontal installation position only.

For indoor installation.

For outdoor installation with corresponding accessories.