

MUB/T-S 042 450EV

Centrifugal box fan, 120°C continuous, insulated

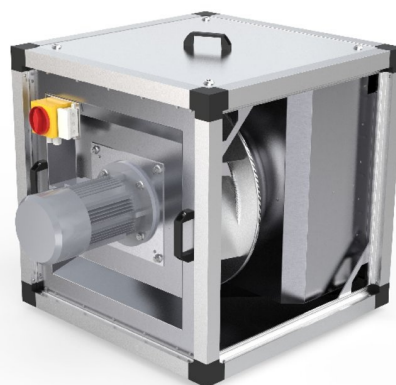
Item Number: [235386](#)

Variant: 230V 1~ 50Hz

- Inline airflow direction
- Up to 120°C medium temperature, continuous operation
- Multipurpose use, e.g. for kitchen exhaust air
- Integral thermal contacts
- Pre-mounted isolator is standard
- Low sound level
- Easy to maintain and reliable
- Motor outside the air stream

MUB/T-S fans have new optimized and high efficient HD impellers with backward curved blades, manufactured from aluminium. The fans are suitable for medium temperatures up to 120°C continuously. 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. With quick lock access door. The MUB bottom panel is shaped as a drain tray and incorporates a pre-mounted 1" drain plug.

Our MUB/T-S EV and DV models are equipped with IEC standard motors outside the air stream which can be speed controlled by transformer. In addition to that all three phase MUB/T-S DV models are 400V D/Y connectable for two speed operation. Optimum motor protection by thermal contact to be connected to an external motor protection device. An additional pre-wired isolator switch is mounted on the casing.



Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	1,170	W
Input current	5.29	A
Impeller speed	1,380	rpm
Air flow	max 1.834	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	74.5	kg

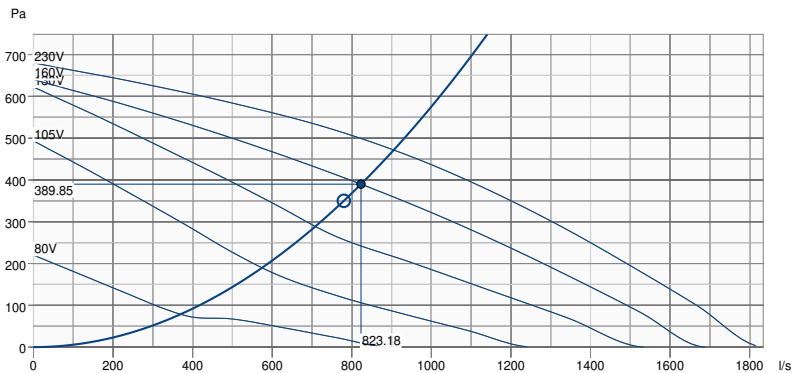
Others

Motor type

AC

Performance

Performance curve



Hydraulic data

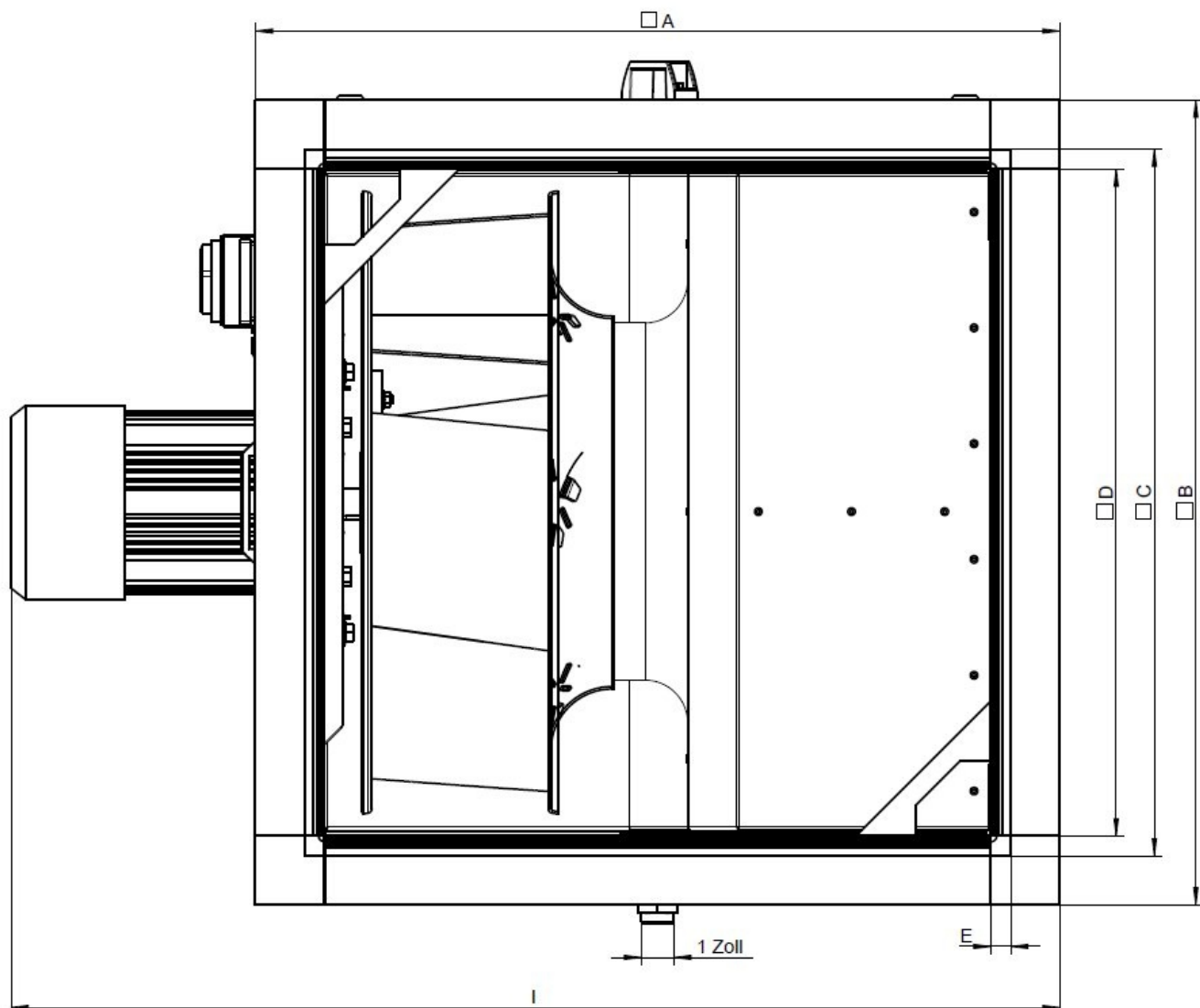
Required air flow	780.00 l/s
Required static pressure	350 Pa
Working air flow	823.18 l/s
Working static pressure	390 Pa
Air density	1.204 kg/m³
Power	896.6 W
Fan control - RPM	1259 rpm
Current	5.64 A
SFP	1.089 kW/m³/s
Control voltage	160.0 V
Supply voltage	160 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	43	62	65	71	74	71	64	57	78
Outlet	dB(A)	45	63	66	72	76	73	65	58	79
Surrounding	dB(A)	23	43	41	41	45	45	32	22	50
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	43
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	29

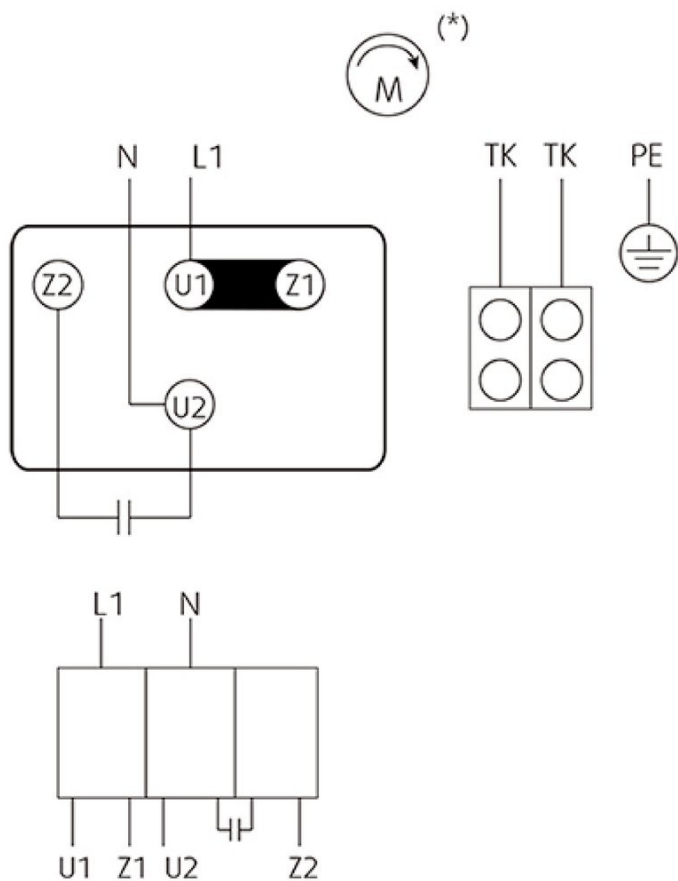
Accessories

Dimension

MUB/T-S 042	□A	□B	□C	□D	E	I
450E4	690	690	590	548	21	883



Wiring



Acoustic

Mid-frequency band; <u>50Hz</u>	Hz	63	125	250	500	1k	2k	4k	8k	Tot
LwA Inlet	dB(A)	36	55	72	73	74	71	68	62	79
LwA Outlet	dB(A)	38	56	73	75	75	73	70	64	81
LwA Surrounding	dB(A)	.	.	.	.	.	.	.	.	52
Measuring point: qv = 3631 m³/h, Ps = 430 Pa										
Mid-frequency band; <u>60Hz</u>	Hz	63	125	250	500	1k	2k	4k	8k	Tot
LwA Inlet	dB(A)	39	57	74	76	76	74	71	65	82
LwA Outlet	dB(A)	41	59	76	77	78	76	72	66	83
LwA Surrounding	dB(A)	.	.	.	.	.	.	.	.	55
Measuring point: qv = 3723 m³/h, Ps = 581 Pa										

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

- Control transformer TES 070A5 (9514)
- Frequency converter FRQ5SE-6A (37421)
- REU 7 Speed control (5007)
- SD-MUB Vibration pad set (37324)
- UGS 042/400 adapter flex 120°C (38368)
- UGS 042/500 adapter flex. (4357)
- WSD MUB/T-S short (37497)
- FGV 042/586-586 flex. 120°C (38361)
- CCM outlet MUB042 d400 (311682)
- CCMI outlet 042 d400 KIT 30mm (239093)
- GRU 042 base frame h= 100mm (276661)
- KKF-ALU 042-filter-section (376815)
- KKF-CAR 062-filter-section (277347)
- KKF-KITCHEN 062-filter-section (277364)
- FGV 042/586-586 flex. conn. (4605)
- Motor protect. switch S-ET 10 (161199)
- RTRE 7 Speed control (5011)
- TUNE-AHU-DE007-042-588x588-M0 (79881)
- UGS 042/500 adapter flex 120°C (38369)
- WSD 042 (730x730x70) complete (31481)
- WSG 042 MUB/T complete (36071)
- Frequency converter FRQSE-6A (37419)
- CCM outlet MUB042 d500 (311683)
- CCMI outlet 042 d500 KIT 30mm (239094)
- KKF 30 042-filter-section (93311)
- KKF-CAR 042-filter-section (277346)
- KKF-KITCHEN 042-filter-section (277363)
- KKS 042 silencer-section (276851)

Documents

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