

MUB 025 315EC Multibox

Centrifugal box fan, insulated, flexible outlet

Item number: 235423

Variant: 230V 1~ 50/60Hz - 90° air flow



- 100 % speed controllable
- Integrated electronic motor protection
- Low noise level
- Flexible airflow direction due to removable panels
- Installation in any mounting position
- Safe and maintenance free operation
- Energy-saving
- Potentiometer included for ease of commissioning
- RS-485 interfaces for networking via MODBUS RTU from size 355
- AMCA-certified performance curves

The MUB-EC fans are driven by EC-external rotor motors. These are energy saving motors with high efficiency. The power electronics are integrated in the motor housing. From size 355 all models have one potential-free terminal for error message.

All motors are suitable to be used for 50/60Hz. The input voltage for single phase units can vary between 200 and 277V, for three phase units between 380 and 480V. Speed control by a 0-10V signal.

The fans are delivered with a pre-wired potentiometer (0-10 V) that allows you to easily find the desired working point.

All models are equipped with impellers with backward curved blades, manufactured from polypropylen PP .The casing consists of an aluminium frame with fibreglass reinforced plastic corners of PA6; highly shock-resistant.

The double skin panels are manufactured from galvanized steel with 30 mm mineralwool insulation. To avoid condensation the profile is provided with a separate chamber to fix the screws.

The panels are removable, any outlet side can be chosen, allowing flexible ventilation solutions.

The Multibox can also be used as extract- or supply air unit in air handling units. Installation in any mounting position is possible.

MUB with additional modules (filters, heaters etc.) are available as air handling units "K025, K042 or K062" on request!

The MUB-EC series in sizes 315 to 710 is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Technical parameters

Normal data

Voltage (nominal)	230	V
Frequency	50; 60	Hz
Phase(s)	1~	
Input power	169	W
Input current	1.34	A
Impeller speed	1,784	r.p.m.
Air flow	max ; 2,578;	m³/h
Temperature of transported air	max 60	°C
Max temperature of transported air, when speed controlled	60	°C

Protection/Classification

Enclosure class, motor	IP54	
Insulation class	B	

Data according to ErP

ErP ready	ErP 2016; ErP 2018	
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Dimensions and weights

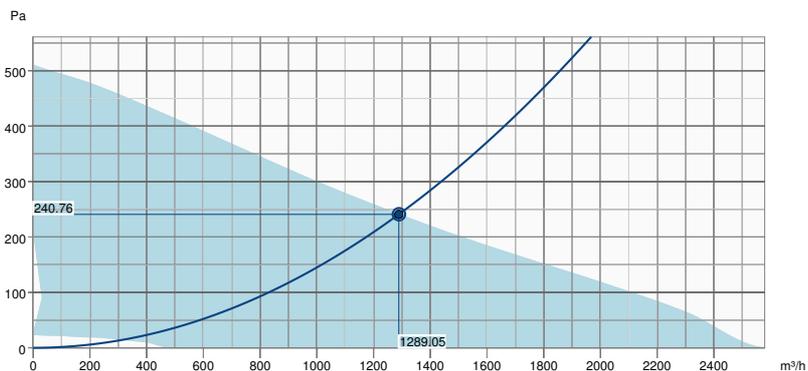
Weight	30.5	kg
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Others

Motor type	EC	
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Performance

Performance curve

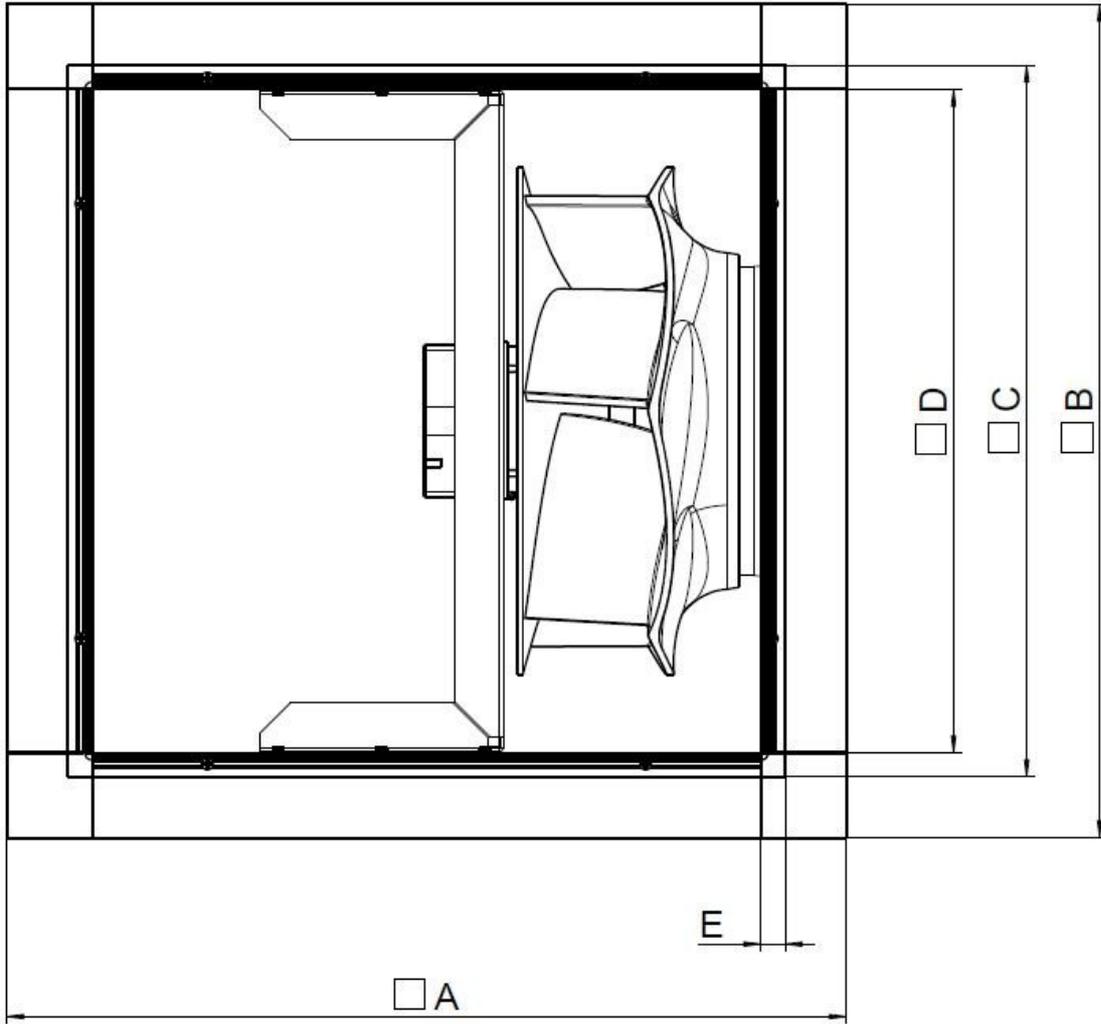


Hydraulic data

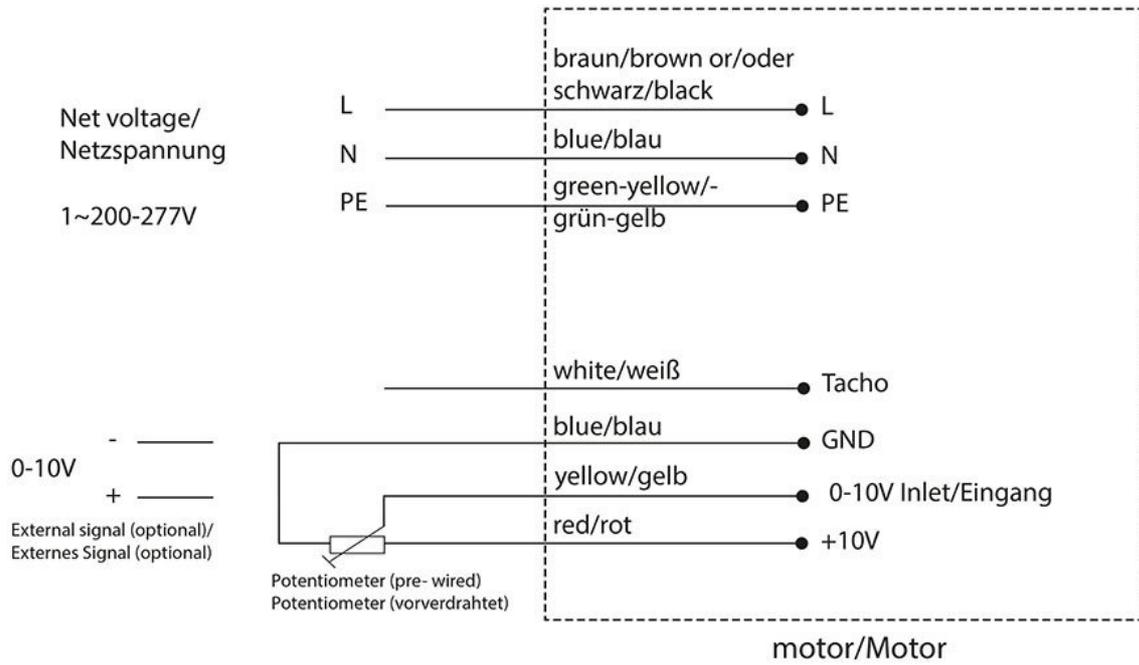
Required air flow	1290 m³/h
Required static pressure	241 Pa
Working air flow	1289 m³/h
Working static pressure	241 Pa
Air density	1.204 kg/m³
Power	168.8 W
Fan control - RPM	1555 rpm
Current	1.34 A
SFP	0.471 kW/m³/s
Control voltage	10.0 V
Supply voltage	230 V

Dimension

MUB 025	□A	□B	□C	□D	E
315/355	520	520	420	378	21



Wiring



305297_005

Ecodesign

Product	
Trade name	Systemair
Product name	MUB 025 315EC
Ecodesign	
ErP compliance	2018
Unit category	NRVU
Drive	Integrated VSD
Unit type	UVU
Heat recovery type	None
Temperature ratio (UVU)	Not applicable
qv nom	0.0001 m ³ /s
P nom	169 kW
Ps nom	241 Pa
Fan efficiency	51 %
External Leakage	5 %
Sound power level LWA	67 dB(A)

Accessories

- CXE/AVC Modbus (37256)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent Room Unit (3018)
- MTP 10, 10K, Speed control (32731)
- MTV-1/010 Controller 0..10V+ (30650)
- S-5EC/FRQ (76738)
- TCA 150D Temp. contr. module (32186)
- WSD 025 (560x560x70) complete (31480)
- CO2RT-R-D Transmitter (6993)
- RT 0-30 Room Thermostat (5151)
- TFR Temp. Sensor (5158)
- CCM outlet MUB025 d315 (312535)
- CCMI outlet 025 d355 KIT 30mm (239092)
- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Vent control board (3115)
- FGV 025/416-416 flex. conn. (4196)
- MTP 20, on/off, 3-step (310220)
- REV-3POL/03 ON/OFF (33978)
- SD-MUB Vibration pad set (37324)
- UGS 025/355 adapter flex. (4356)
- WSG 025 MUB complete (31484)
- Presence detector/IR24-P (6995)
- SDM Service Door MUB 025 comp. (32571)
- CCM inlet MUB025 d315 (312562)
- CCMI outlet 025 d315 KIT 30mm (239091)
- KKF 025 filter-section (78586)

Documents

- imo_mub_all_010_en_248056
- EU DECLARATION OF CONFORMITY_MUB_EN_[001].PDF
- COMMISSIONING REPORT_FANS_160628_EN_001.PDF