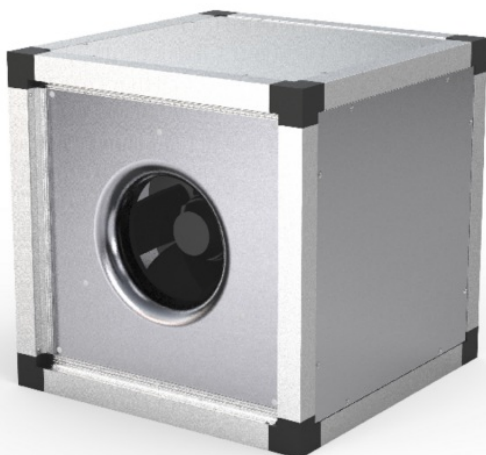




MUB Insulated duct fans

Efficient fans for supply or exhaust ventilation systems



- Acoustic and thermal insulation 30 mm
- Flexible airflow direction due to removable panels
- 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](#)

Flexibility

The MUB fans are intended to use for **supply** or **extract** air, designed to be installed in **any position**.

The MUB fans are designed for straight through airflow but can easily be rebuilt due to **removable panels** for 90° air discharge. The construction of the casing and thermal insulation permits **outdoor** and **indoor** use.

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**.

Performance

High performance impeller together with **high efficient** motors are designed to ensure high-level performance to **minimize power consumption** and **maximize efficiency**.

Noise

The **casing** of **MUB** fans have a perfect **acoustic** and **thermal** insulation capacity.

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 galvanized** sheet steel with **30 mm acoustic** and **thermal rockwool insulation**.

The MUB fans are designed for straight through airflow but can easily be rebuilt due to **removable panels** for 90° air discharge.

Impeller

The MUB fans use **radial** impellers with **backward curved blades**. These are made out of high-performance composite material or aluminum, dynamically **balanced** and paired with corresponding **AC** or **EC external rotor motors**.

Motor

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

Motor protection

Depending on the type, **AC** motors have an **integrated** thermal protection with manual (electrical) reset, prewired 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

The MUB fans can be installed in any position **indoor** and together **with weather protection roof** also **outdoor**. With mounted **base frame** the MUB fans can stand **on floor**. For **preventing vibration** to the duct it is recommended to use **flexible connections**.

Technical parameters

Nominal data

Voltage (nominal)	230	V
Frequency	50; 60	Hz
Phases	1~	
Input power	169	W
Input current	1.39	A
Impeller speed	1,784	rpm
Air flow	max 2,582	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 2018
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Dimensions and weights

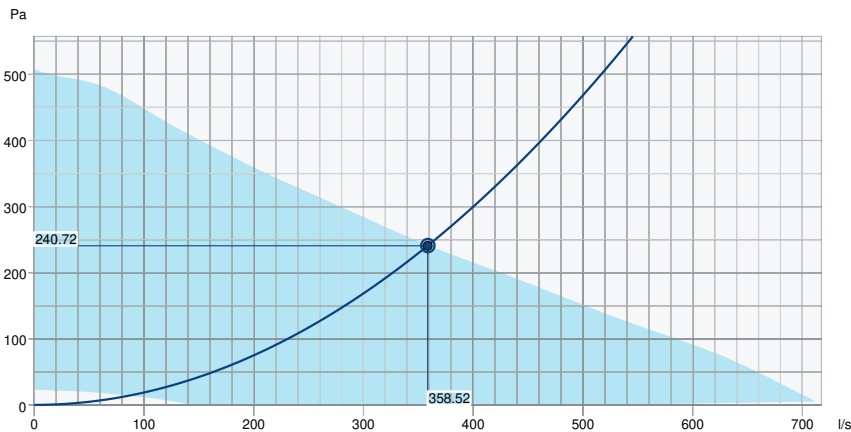
Weight	30.5	kg
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Others

Motor type	EC
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Performance

Performance curve



Hydraulic data

Required air flow	358.65 l/s
Required static pressure	241 Pa
Working air flow	358.52 l/s
Working static pressure	241 Pa
Air density	1.204 kg/m³
Power	168.8 W
Fan control - RPM	1,556 rpm
Current	1.40 A
SFP	0.471 kW/m³/s
Control voltage	10.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	31	53	55	60	64	65	58	48	69
Outlet	dB(A)	33	54	56	61	66	66	59	50	70
Surrounding	dB(A)	10	33	29	29	34	38	25	12	41
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	34
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	20

Accessories

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		0.3586	m³/s
P nom		0.169	kW
Ps nom		241	Pa
Fan efficiency		51.2	%
External Leakage		5	%
Sound power (LWA)		41	dB(A)

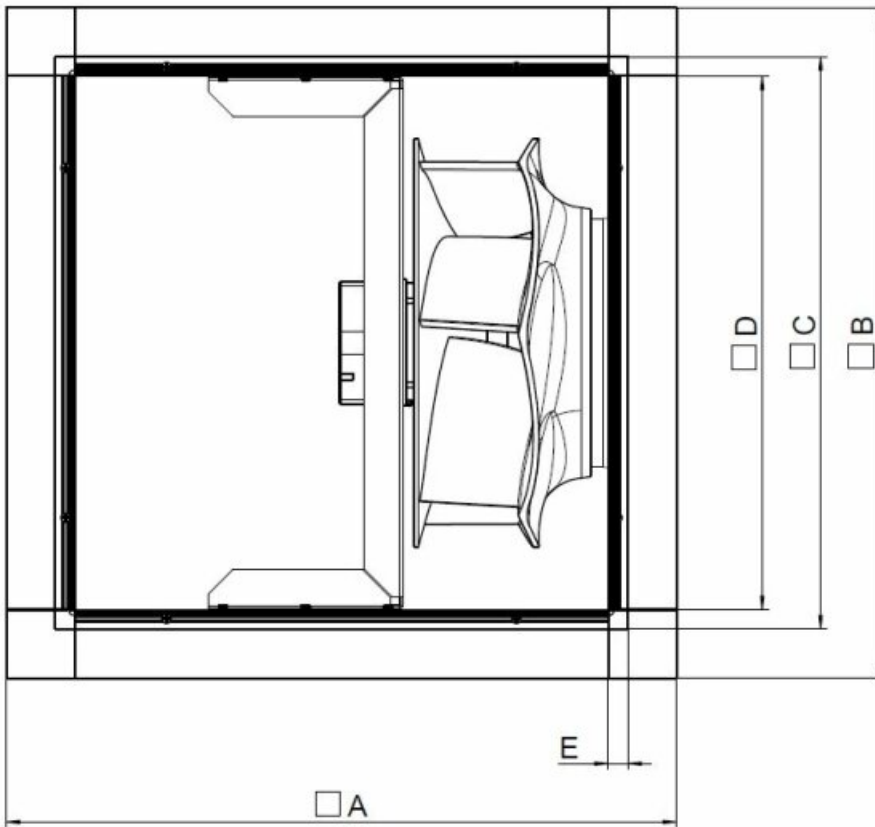
Acoustic

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

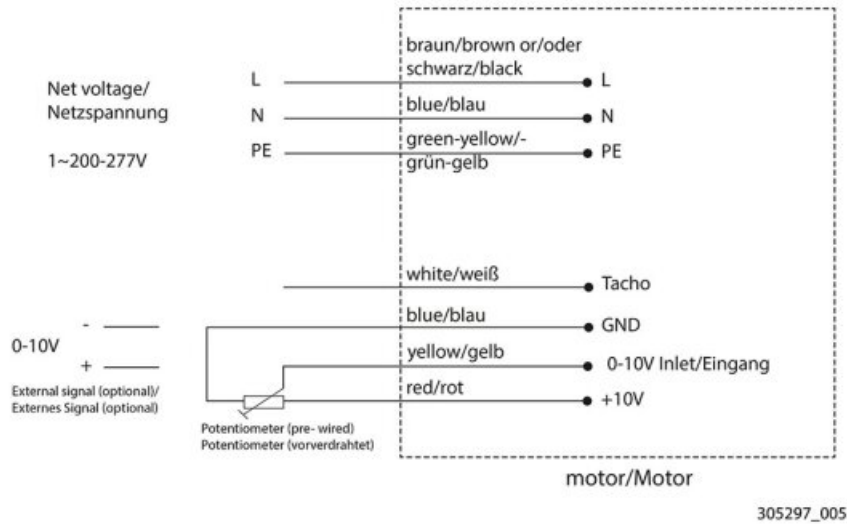
The shown Level of Casing-Breakout-Noise will be reached only in case of 100 % shielding the acoustic inlet and outlet noise and a correspondingly low environment noise.

Dimension

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



Wiring



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)
- Potentiometer MTP 20, 0-10V (310220)
- SD-MUB Vibration pad set (37324)
- UGS 025/355 adapter flex. (4356)
- WSG 025 MUB complete (31484)
- Presence detector/IR24-P (6995)
- TFR Temp. Sensor (5158)
- CCM outlet MUB025 d315 (312535)
- CCMI outlet 025 d355 KIT 30mm (239092)
- KKC-DX-L 025 cooling section (277260)
- KKC-W-L 025 cooling section (277268)
- KKD 025-damper-section (333316)
- KKH-HW 025 heater-section (93334)
- SDM Service Door MUB 025 30mm (273933)
- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Vent control board (3115)
- FGV 025/416-416 flex. conn. (4196)
- MTV-1/010 Controller 0..10V+ (30650)
- REV-3POL/03-7,5kW R/Y (33978)
- Step switch S-5EC, 0-10V (76738)
- WSD 025 (560x560x70) complete (31480)
- CO2RT-R-D Transmitter (6993)
- RT 0-30 Room Thermostat (5151)
- CCM inlet MUB025 d315 (312562)
- CCMI outlet 025 d315 KIT 30mm (239091)
- GRU 025-520/100 (276660)
- KKC-DX-R 025 cooling section (277264)
- KKC-W-R 025 cooling section (277272)
- KKF 30 025-filter-section (93310)
- KKS 025 silencer-section (276850)
- TCA 150D2 (156671)

Documents

- Installation, Operation and Maintenance instruction_001
- MUB_EC_AMCA_CERTIFICATE.PDF
- EU DECLARATION OF CONFORMITY_MUB_EN_003.PDF
- COMMISSIONING REPORT_FANS_160628_EN_001.PDF