

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	153	W
Input current	1.22	A
Impeller speed	3,062	rpm
Air flow	max 1,068	m³/h
Temperature of transported air	max 55	°C
Max temperature of transported air, when speed controlled	55	°C

Protection/Classification

Enclosure class, motor	IP54
Insulation class	B

Data according to ErP

ErP ready	ErP 2018
-----------	----------

Dimensions and weights

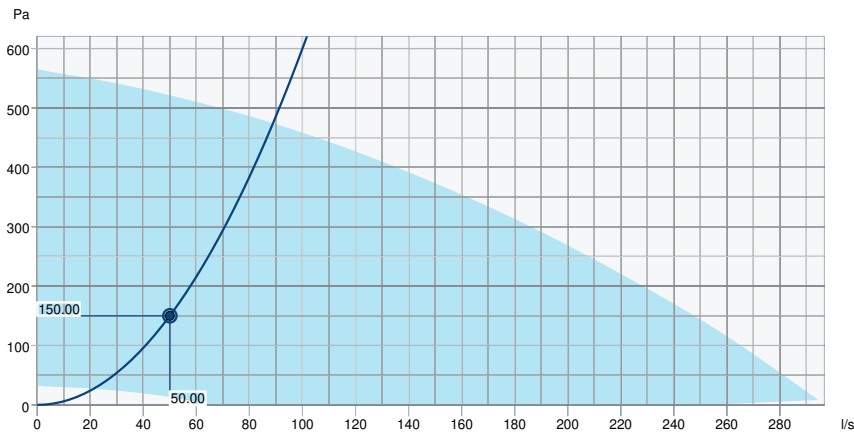
Weight	16.5	kg
--------	------	----

Others

Motor type	EC
------------	----

Performance

Performance curve



Hydraulic data

Required air flow	50.00 l/s
Required static pressure	150 Pa
Working air flow	50.00 l/s
Working static pressure	150 Pa
Air density	1.204 kg/m³
Power	28.6 W
Fan control - RPM	1,716 rpm
Current	0.26 A
SFP	0.571 kW/m³/s
Control voltage	5.7 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	25	40	41	42	45	47	46	32	52
Outlet	dB(A)	27	41	42	43	47	49	47	33	54
Surrounding	dB(A)	<10	24	24	15	19	24	19	<10	30
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	23
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	<10

Accessories

Ecodesign

Product			
Trade name	Systemair		
Product name	MUB 016 200EC		
Ecodesign			
ErP compliance	2018		
Unit category	NRVU		
Drive	Integrated VSD		
Unit type	UVU		
Heat recovery type	None		
Temperature ratio (UVU)	Not applicable		
qv nom	0.1781	m³/s	
P nom	0.152	kW	
Ps nom	316	Pa	
Fan efficiency	37.1	%	
External Leakage	5	%	
Sound power (LWA)	43	dB(A)	

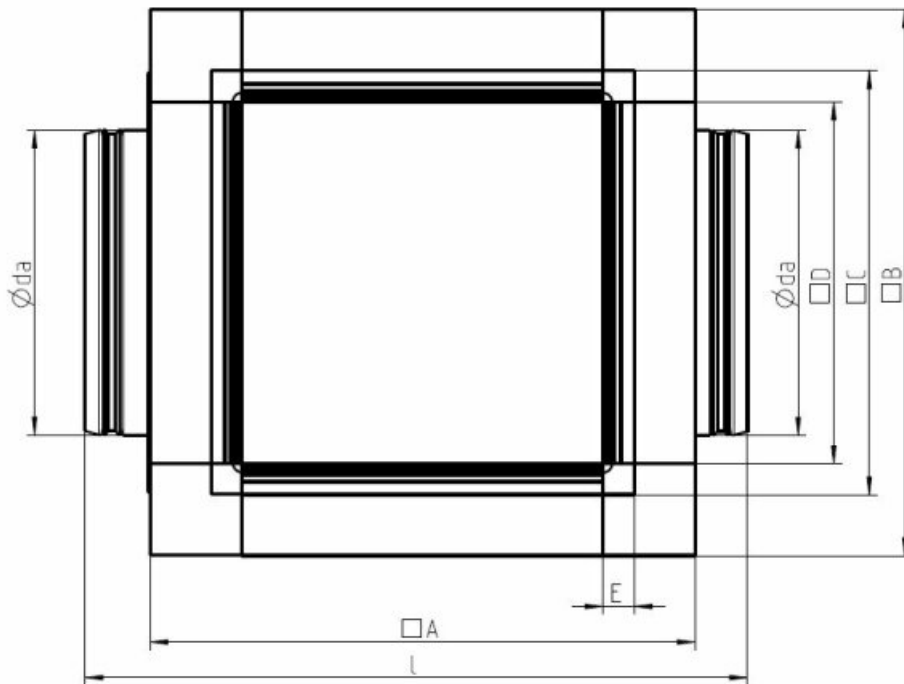
Acoustic

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 016	□A	□B	□C	□D	Øda	E	I
200	378	378	278	236	200	21	433



Accessories

- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Vent control board (3115)
- MTP 10, 10K, Speed control (32731)
- Potentiometer MTP 20, 0-10V (310220)
- SD-MUB Vibration pad set (37324)
- VKK-200 Back draft damper (1626)
- CO2RT-R-D Transmitter (6993)
- Presence detector/IR24-P (6995)
- VBF 200 Water heating battery (1732)
- CB 200-3,0 230V/1 Duct heater (5370)
- CB 200-5,0 400V/2 Duct heater (5371)
- CWK 200-3-2,5 Duct cooler,circ (30023)
- FGR 200 Filter cassette (1812)
- LDC 200-300 Silencer (53369)
- LDC 200-900 Silencer (5195)
- VBC 200-2 Water heating batt (5459)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent Room Unit (3018)
- MTV-1/010 Controller 0..10V+ (30650)
- REV-3POL/03-7,5kW R/Y (33978)
- SG 200 Protection guard (5609)
- WSD 016 (418x418) complete (94743)
- IGK-200 Wall Grid (1633)
- RT 0-30 Room Thermostat (5151)
- CB 200-2,1 230V/1 Duct heater (5384)
- CB 200-3,0 400V/2 Duct heater (5294)
- CBM 200-5,0 400V/2 Duct heater (5483)
- FFR 200 Filter cassette (1773)
- FK 200 Fast clamp (1611)
- LDC 200-600 Silencer (5194)
- RSK-200 Back draft damper (5602)
- VK-20 Louvre shutter (87686)

Documents

- Installation, Operation and Maintenance instruction_001
- EU DECLARATION OF CONFORMITY_MUB_EN_003.PDF
- COMMISSIONING REPORT_FANS_160628_EN_001.PDF
- CIR-DIA_R3G220-RD53-14_160720_EN_001.PDF