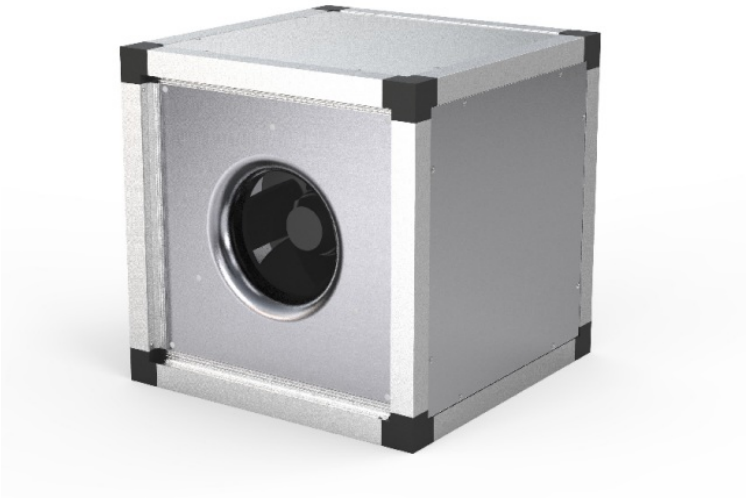


MUB Insulated duct fans

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 handing unit.**

Performance

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

Noise

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

Certifications

epd

Eco Platform: EPD Verified

Green Ventilation

Green Ventilation

ErP™

Ecodesign (ErP) compliant

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 galvanised** 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 aluminium, 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)	400	V
Frequency	50	Hz
Phases	3~	
Motor circuit connection	D	
Input power	4,499	W
Input power kW	4.499	kW
Input current	8	A
Impeller speed	1,464	rpm
Air flow	max 4.2492	m^3/s
Temperature of transported air	max 55	°C
Max temperature of transported air, when speed controlled	55	°C

Protection/Classification		
Enclosure class, motor	IP55	
Insulation class	F	

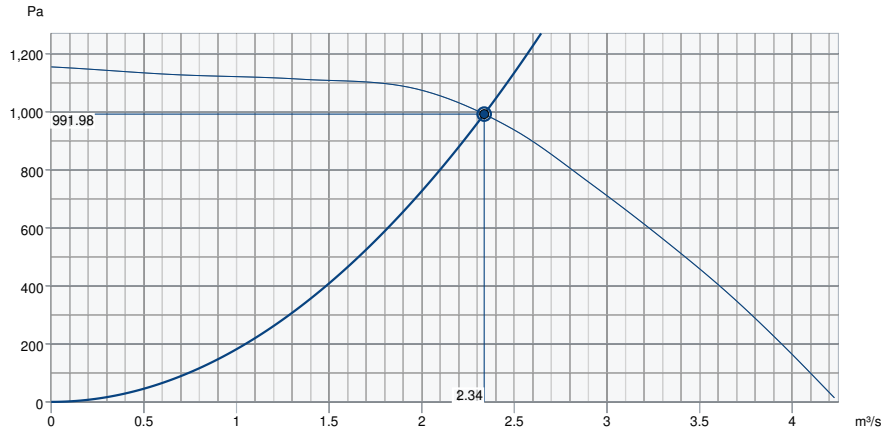
Data according to ErP		
ErP ready	ErP 2018	

Dimensions and weights		
Weight	115	kg

Others		
Motor type	AC	

Performance

Performance curve



Hydraulic data	
Required air flow	2.34 m³/s
Required static pressure	992 Pa
Working air flow	2.34 m³/s
Working static pressure	992 Pa
Air density	1.204 kg/m³
Power	4,349.5 W
Fan control - RPM	1,465 rpm
Current	7.79 A
SFP	1.861 kW/m³/s
Control voltage	400.0 V
Supply voltage	400 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	58	78	81	84	85	82	79	71	90
Outlet	dB(A)	59	79	82	85	87	83	80	72	91
Surrounding	dB(A)	38	62	53	52	55	54	46	36	64
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	57
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	43

Ecodesign

Product	
Trade name	Systemair
Product name	MUB 062 630D4 IE3

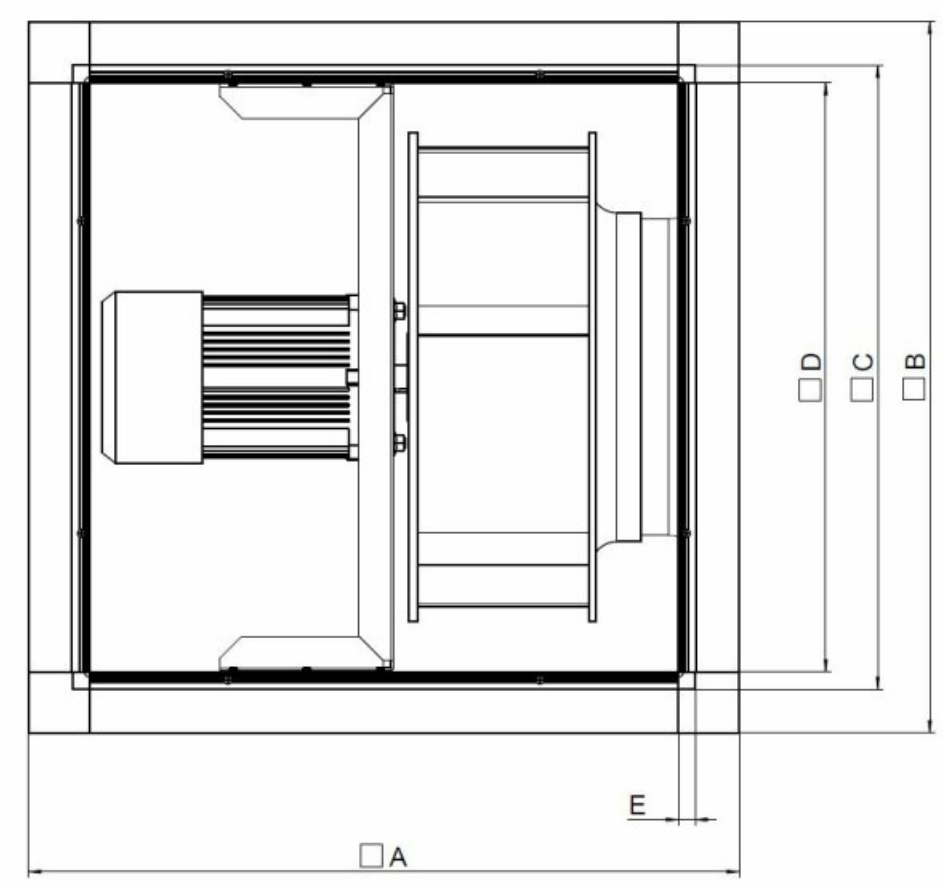
Ecodesign		
ErP compliance	2018	
Unit category	NRVU	
Drive	External MSD or VSD	
Unit type	UVU	
Heat recovery type	nan	
Temperature ratio (UVU)	Not applicable	
qv nom	2.3369	m^3/s
P nom	4.35	kW
Ps nom	992	Pa
Fan efficiency	53.3	%
External Leakage	5	%
Sound power (LWA)	64	dB(A)

Acoustic

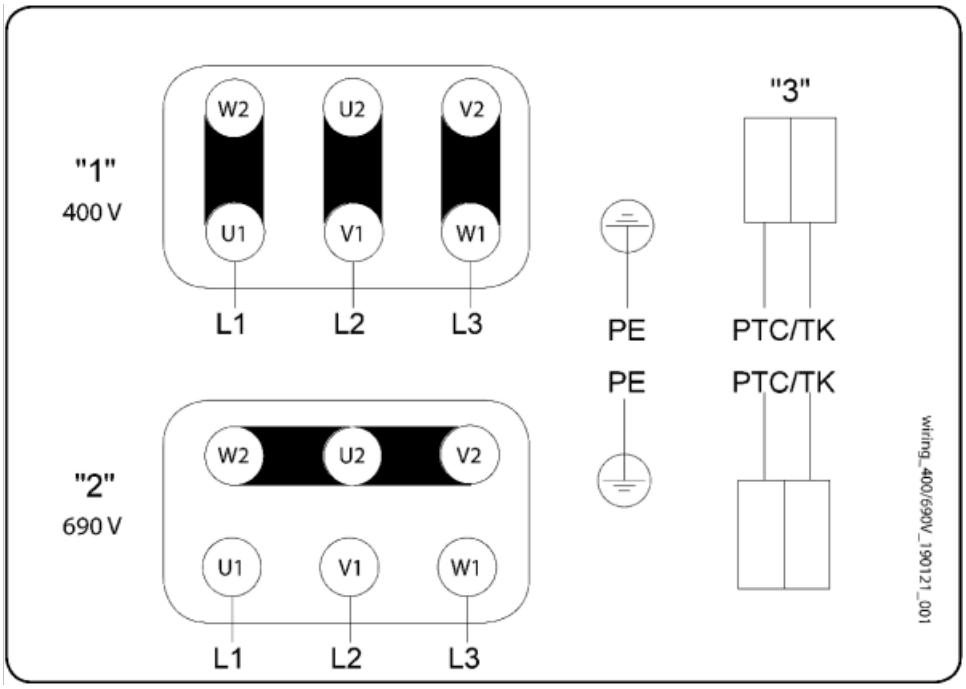
The Level of Casing-Breakout-Noise depends on the quality of shielding the acoustic inlet and outlet noises.
The shown Level of Casing-Breakout-Noise will be reached only in case of 100 % shielding the acoustic inlet and outlet noise and a correspondingly low environment noise.

Dimension

MUB 062	□A	□B	□C	□D	E
560/630	820	820	720	678	21



Wiring



Three phase motor with cold conductor

"1"	Delta connection
"2"	Star connection
"3"	Thermal motor protection optional

Changing of direction of rotation by interchanging of two phases

Accessories

- FGV 062/716-716 flex. conn. (4198)
- Frequency converter FRQ5-10A (36230)
- Frequency converter FXDM14AM (31389)
- SD-MUB Vibration pad set (37324)
- U-EK230E Motor protection (30199)
- WSD 062 (860x860x70) complete (31482)
- Frequency converter FRQS-10A (36232)
- CCM inlet MUB062 d560 (311782)
- CCM outlet MUB062 d560 (311684)
- CCMI outlet 062 d560 KIT 30mm (239095)
- GRU 062-820/100 (276662)
- KKC-DX-R 062 cooling section (277266)
- KKC-W-R 062 cooling section (277274)
- KKH-HW 062 heater-section (93340)
- SDM Service Door MUB 062 30mm (273935)
- Frequency converter FRQ-10A (36228)
- Frequency converter FRQ5S-10A (36234)
- REV-5POL/05-7,5kW R/Y (33979)
- TUNE-AHU-DE008-062-718x718-M0 (79882)
- UGS 062/630 adapter flex. (4358)
- WSG 062 MUB complete (31486)
- REV-5POL/07-EMV-7,5kW R/Y (34549)
- CCM inlet MUB062 d630 (311783)
- CCM outlet MUB062 d630 (311681)
- CCMI outlet 062 d630 KIT 30mm (239096)
- KKC-DX-L 062 cooling section (277262)
- KKC-W-L 062 cooling section (277270)
- KKF 30 062-filter-section (93312)
- KKS 062 silencer-section (276852)

Documents

- Installation, Operation and Maintenance instruction_001
- EPD_235398_pdf
- COMMISSIONING REPORT_FANS_160628_EN_001.PDF
- EPD_235398_json