

MUB 062 630D4 IE2 Multibox

Item Number: 33545

Variant: 400V 3~ 50Hz - 4-pol - D (Delta) - 90° air flow



Please note: Speed control by voltage, i.e. voltage transformers, is not possible!

In accordance with Commission Regulation (EC) no 640/2009 of the European Parliament - eco-design requirements for electric motors - the new international efficiency classes are binding as of 16 June 2011. These guidelines defined by CEMEP and EPACT are regarded as international standard for energy-saving high-efficiency motors for frequencies of 50 or 60 Hz and make the use of IE2 motors mandatory.

With this new and more efficient technology we offer our customers many advantages such as environmentally friendly operation, reduced energy consumption and hence lower emissions. IE2 motors have a higher efficiency even in part load operation and allow optimum adjustment to the operating point. In addition, the IE2 motors generate less noise and develop less heat, which has a positive influence on the efficiency and the cooling requirement of the motor. Please note: IE2 motors cannot be speed controlled by voltage, i.e. voltage transformers.

High efficient motor IE2

Speed-controllable via frequency converter

Integral cold conductor (PTC)

Low sound level

Flexible airflow direction due to removable panels

Installation in any mounting position

Easy to maintain and reliable

The MUB fans size 630D4-A2 are equipped with high efficient IE2 motors.

The MUB fans have an impeller with backward curved blades, manufactured from aluminum. Speed control is only possible by using a frequency converter. Motor protection is done by cold conductors (PTC), which have to be connected to an external motor protection device. The casing consists of an aluminum frame with fiberglass reinforced plastic corners of PA6; highly shock-resistant. The double skin panels are manufactured from galvanized steel with 20 mm mineral wool insulation. To avoid condensation the profile is provided with a separate chamber to fix screws. The Multibox fans are delivered for straight through airflow but can easily be rebuilt due to removable panels. This allows flexible ventilation solutions. The MUB can also be used as extract- or supply air unit in air handling units. Installation in any mounting position is possible.

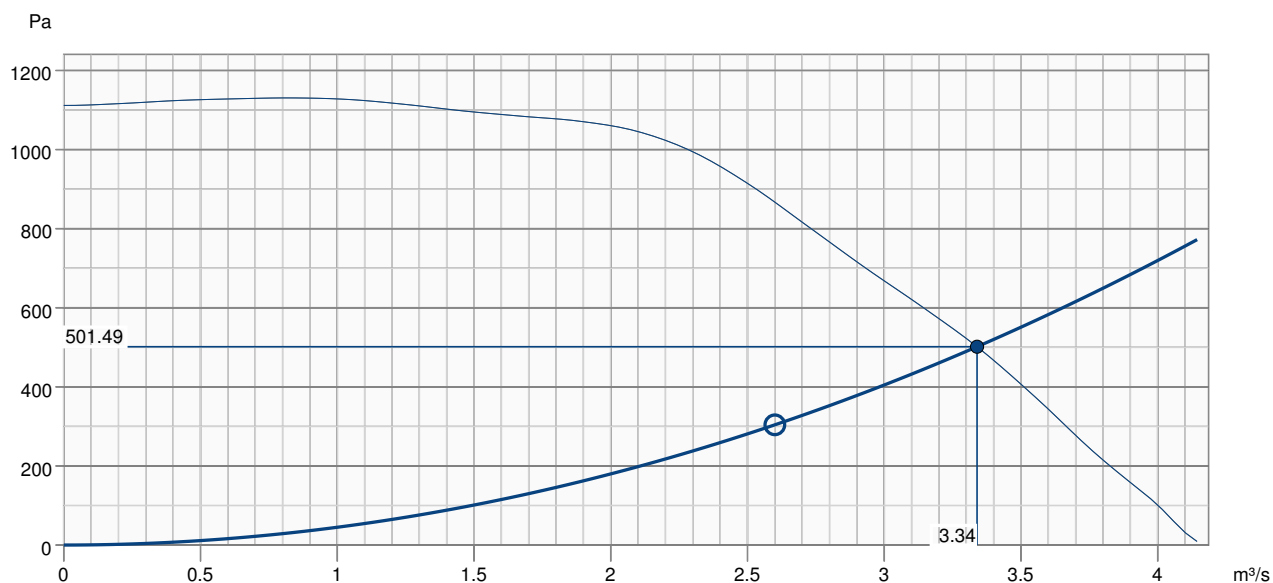
MUB with additional modules (filters, heaters etc.) are available as air handling units "K025, K042 or K062" on request!



Technical parameters

Nominal data		
Voltage (Nominal)	400	V
Frequency	50	Hz
Phase(s)	3~	
Motor circuit connection	D	
Input power	4,411	W
Starting current	60.9	A
Input current	7.67	A
Impeller speed	1,461	r.p.m.
Air flow	max 4.186	m ³ /s
Temperature of transported air	max 40	°C
Max temperature of transported air, when speed controlled	40	°C
Sound data		
Sound pressure level at 3m (20m ² Sabin)	68	dB(A)
Protection/Classification		
Enclosure class, motor	IP55	
Insulation class	F	
Data according to ErP		
ErP ready	ErP 2016; ErP 2018	
Dimensions and weights		
Weight	104	kg
Others		
Motor type	AC	

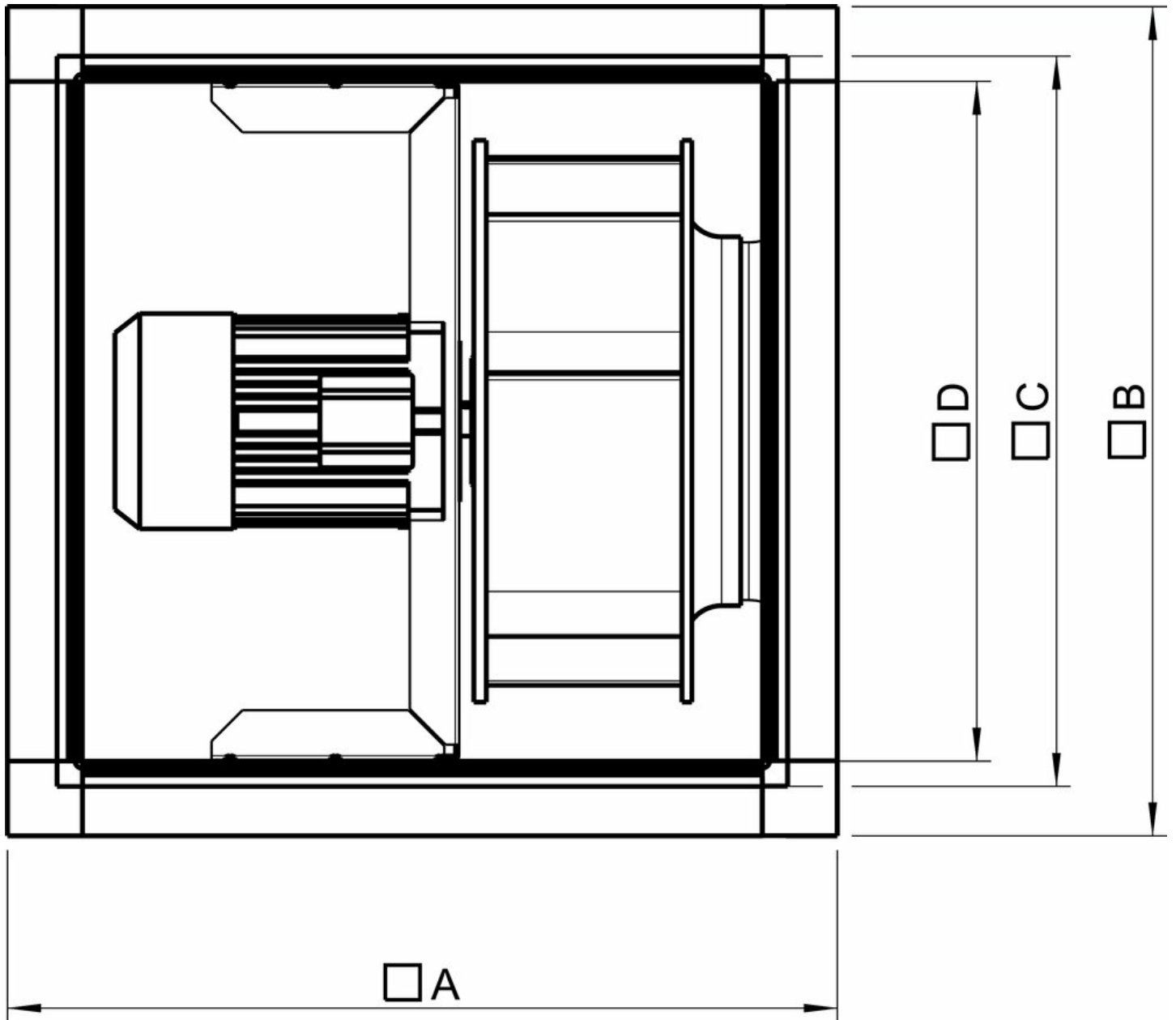
Performance curve



Hydraulic data

Required air flow	2.60 m³/s
Required static pressure	304 Pa
Working air flow	3.34 m³/s
Working static pressure	501 Pa
Air density	1.204 kg/m³
Power	4192.3 W
Fan control - RPM	1466 rpm
Current	7.37 A
SFP	1.255 kW/m³/s
Control voltage	400.0 V
Supply voltage	400 V

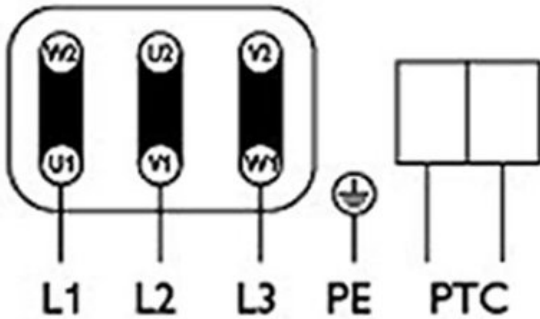
Dimension



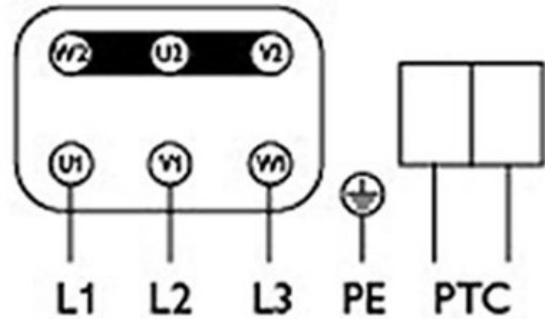
□A □B □C □D

MUB 062 630 800 800 720 678

Dreiphasenmotor mit Kaltleiter
Three phase motor with cold conductor
Moteur triphasé avec résistance PTC



3 x 400V
D Schaltung
Delta connection
Branchement en triangle



3 x 690V
Y Schaltung
Star connection
Branchement en étoile

Drehrichtungsänderung durch Vertauschen von 2 Phasen
Changing of direction of rotation by interchanging of two phases
Changement de sens de rotation par inversion de deux phases

Typenschild beachten! See label! Voir plaque!

Please note: 400V Y-connection for starting is possible!

Acoustic

Mid-frequency band, Hz

630D4	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	86	73	75	79	81	80	77	72	65
LwA Outlet	dB(A)	88	75	77	81	83	82	79	74	67
LwA Surrounding	dB(A)	75	62	64	68	70	59	66	61	54

Measuring point: $q_v = 2,3 \text{ m}^3/\text{s}$, $P_s = 994 \text{ Pa}$

Ecodesign

Product	
Trade name	Systemair
Product name	MUB 062 630D4-A2 IE2 Multibox
Ecodesign	
ErP compliance	2018
Unit category	NRVU
Drive	External MSD or VSD
Unit type	UVU
Heat recovery type	None
Temperature ratio (UVU)	Not applicable
qv nom	2.302 m ³ /s
P nom	4.299 kW
Ps nom	994 Pa
Fan efficiency	53 %
External Leakage	5 %
Sound power level LWA	75 dB(A)

Accessories

- CCM inlet MUB062 d560 (311782)
- CCM inlet MUB062 d630 (311783)
- CCM outlet MUB062 d560 (311684)
- CCM outlet MUB062 d630 (311681)
- CCMI outlet 062 d560 insul KIT (313847)
- CCMI outlet 062 d630 insul KIT (313848)
- FGV 062/716-716 flex. conn. (4198)
- FRQ-10A V2 (36228)
- FRQ5-10A+LED V2 (36230)
- FRQ5S-10A+LED V2 (36234)
- FRQS-10A V2 (36232)
- FXDM14AM Frequency inv. IP54 (31389)
- REV-5POL/05 incl. EMC KIT (34549)
- REV-5POL/05 ON/OFF (33979)
- SD-MUB Vibration pad set (37324)
- SDM Service Door MUB 062 comp. (32573)
- TUNE-AHU-DE008-062-718x718-M0 (79882)
- U-EK230E Motor protection (30199)
- UGS 062/630 adapter flex. (4358)
- WSG 062 MUB complete (31486)

Documents

- IMO_MUB_141026_DE,EN,SE,DK,ES,RU_001_311722_WEB.PDF
- EU DECLARATION OF CONFORMITY_MUB_EN_[001].PDF
- COMMISSIONING REPORT_FANS_160628_EN_001.PDF

Specification

Multibox duct fan for easy and direct installation in duct systems.

Casing frame construction made of aluminium hollow profiles and plastic corners for highest impact resistance. Double skin galvanised steel panels, thermally and sound insulated with a 20 mm layer of mineral wool, smooth inner sides.

Free-running, backward curved circular impeller made of aluminium.

Impeller acc. to VDI 2060, balancing quality G 6.3, dynamically balanced in two planes.

Voltage controllable external rotor motor,

Standard motor IE2 (IP55), maintenance-free, the motor is placed inside the air flow for cooling. Integral thermal contacts (PTC) with leads to a motor protection device.

Terminal box fitted on the motor.

Multifunctional use, variable outlet direction, can be modified on site.

For extract and supply air.

Installation in any mounting position.

For indoor installation.

For outdoor installation with corresponding accessories.