

# MUB/T 025 355EC

Centrifugal box fan, 120°C continuous, insulated

Item number: [235388](#)

Variant: 230V 1~ 50/60Hz

- EC-motors, high level of efficiency
- 100% speed controllable
- Up to 120°C medium temperature, continuous operation
- Multi-functional use, e.g. for kitchen exhaust air
- Pre-assembled isolator is standard
- Low sound level
- Easy to maintain and reliable
- Motor outside the air stream
- Integrated motor protection
- Potentiometer included for ease of commissioning



EC technology is intelligent technology; using integral electronic control which eliminates the slip losses in the motor and ensures that the motor always runs at optimal load and guarantees that the proportion of energy utilized effectively is many times higher and the energy usage considerably lower compared with AC motors. EC fans are notable for their economical use of energy and excellent ease of control.

They can be varied in speed to match the airflow demand, and operate at high efficiency levels. For the same air volume, they consume distinctly less energy than AC fan drives. Another special feature of EC fans is their energy-saving potential not only at full load, but especially at part-load. When operating at part load, the energy used is much lower than with an asynchronous motor of equivalent output. Reduced energy usage guarantees a drop in operating costs. The power electronics are integrated in the motor housing.

All MUB/T-EC 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. 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 required working point. All MUB/T-EC fans have impellers with backward curved blades, manufactured from aluminium. The MUB/T-EC fans are suitable for medium temperatures up to 120°C continuously. The casing consists of an aluminium frame with fibreglass reinforced plastic corners and double skin, galvanised steel panels with a 30 mm mineral wool insulation. Panels are removable, allowing flexible ventilation solutions - the air direction can easily be changed. With quick lock access door. The MUB/T-EC bottom panel is shaped as a condensate tray and incorporates a pre-mounted 1" drain plug. An isolator switch is mounted on the casing.

Several filter modules like f.e. activated carbon- or aluminum filters are available, calculated individually on the working point.

## Technical parameters

Norminal data		
Voltage (nominal)	230	V
Frequency	50; 60	Hz
Phase(s)	1~	
Input power	313	W
Input current	1.33	A
Impeller speed	1,508	r.p.m.
Air flow	max ; 2,999;	m³/h
Temperature of transported air	max 120	°C
Max temperature of transported air, when speed controlled	120	°C

**Protection/Classification**

Enclosure class, motor	IP55
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Insulation class	B
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**Data according to ErP**

ErP ready	Not ErP relevant
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**Dimensions and weights**

Weight	35 kg
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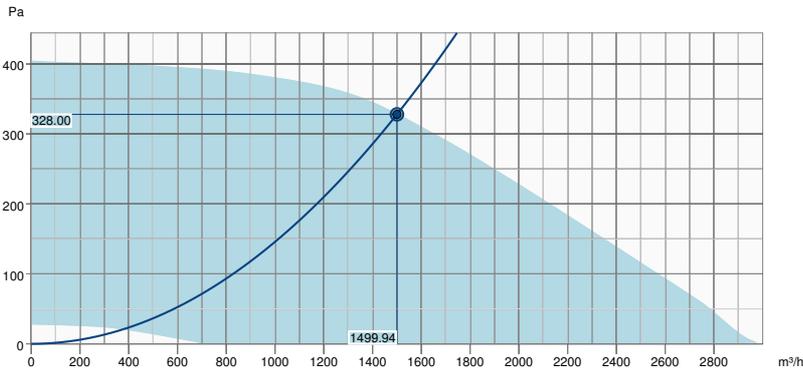
**Others**

Duct connection type	Circular
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Motor type	EC
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# Performance

## Performance curve



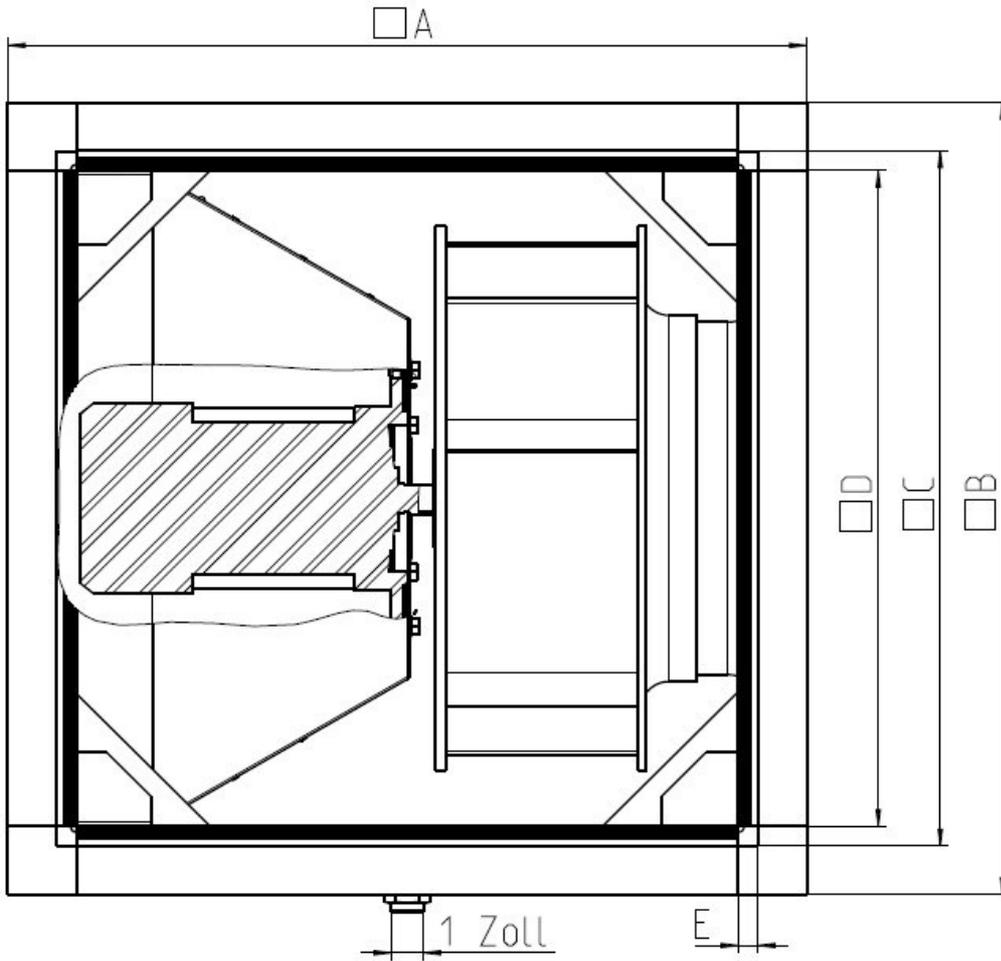
### Hydraulic data

Required air flow	1500 m³/h
Required static pressure	328 Pa
Working air flow	1500 m³/h
Working static pressure	328 Pa
Air density	1.204 kg/m³
Power	309.5 W
Fan control - RPM	1509 rpm
Current	1.38 A
SFP	0.743 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)	29	47	64	66	67	65	61	55	72
Outlet	dB(A)	30	49	66	67	68	66	62	57	74
Surrounding	dB(A)	<10	28	39	35	37	38	28	19	44
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	37
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	23

## Dimension

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



## Accessories

- CXE/AVC Modbus (37256)
- EC-Basic-H humidity (24807)
- EC-Basic-U universal 0-10V (24806)
- EC-Vent Room Unit (3018)
- M-SG 025/418x418 (311696)
- MTP 20, on/off, 3-step (310220)
- S-5EC/FRQ (76738)
- UGS 025/355 adapter flex 120°C (38365)
- WSD 025 (560x560x70) complete (31480)
- CO2RT-R-D Transmitter (6993)
- HR1 Room Humidistat (215150)
- RT 0-30 Room Thermostat (5151)
- CCM inlet MUB025 d315 (312562)
- CCMI outlet 025 d315 KIT 30mm (239091)
- EC-Basic-CO2 and temperature (24808)
- EC-Basic-T temperature (24805)
- EC-Vent control board (3115)
- FGV 025/416-416 flex. conn. (4196)
- MTP 10, 10K, Speed control (32731)
- MTV-1/010 Controller 0..10V+ (30650)
- SD-MUB Vibration pad set (37324)
- UGS 025/355 adapter flex. (4356)
- WSG 025 MUB/T complete (36070)
- FGV 025/416-416 flex. 120°C (38360)
- Presence detector/IR24-P (6995)
- SDM Service Door MUB 025 comp. (32571)
- CCM outlet MUB025 d315 (312535)
- CCMI outlet 025 d355 KIT 30mm (239092)

## Documents

- imo\_mub\_all\_010\_en\_248056
- EU DECLARATION OF CONFORMITY\_THERMOFANS\_EN\_[002].PDF
- COMMISSIONING REPORT\_FANS\_160628\_EN\_001.PDF
- WIRING\_M3G 084-GF08-82, 0,039KW\_170222\_DE,EN\_003\_313885.PDF