

# MUB 042 499DV-A2 MULTIBOX\*\*

Item no. 38007

Version: 90° airflow

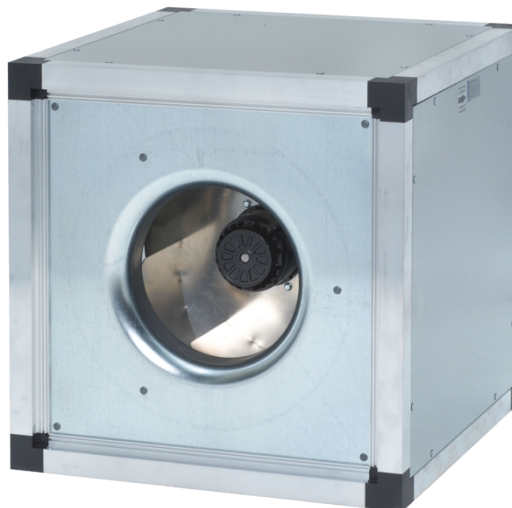
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## Description

- Speed-controllable
- Modular system
- Integral thermal contacts
- Low sound level
- Flexible airflow direction due to removable panels
- Installation in any mounting position
- Maintenance-free and reliable

The MUB fans size 499 have impellers with backward curved blades, manufactured from aluminium. The MUB 499 is equipped with external rotor motors, fully speed controllable. The three phase motors are D/Y connected for two speed operation. Motor protection is done by thermal contacts, which have to be connected to an external motor protection device. The casing consists of a corrosion-resistant aluminium frame with fibreglass reinforced plastic corners of PA6; highly shock-resistant. The double skin panels are manufactured from galvanised 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!



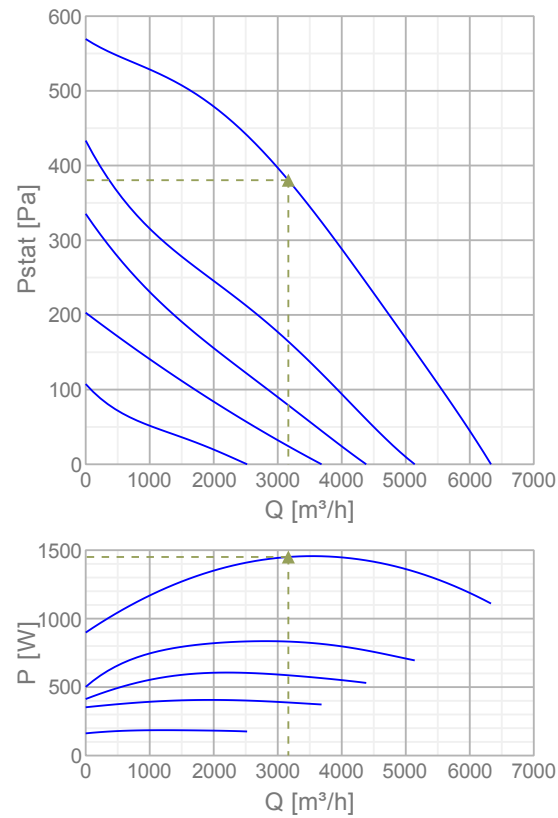
## Technical parameters

| Nominal data                                                |      |        |
|-------------------------------------------------------------|------|--------|
| Voltage                                                     | 400  | V      |
| Frequency                                                   | 50   | Hz     |
| Phase                                                       | 3    | ~      |
| Input power (P1)                                            | 1457 | W      |
| Current                                                     | 1,64 | A      |
| Max. airflow                                                | 6332 | m³/h   |
| Fan impeller speed                                          | 1210 | r.p.m. |
| Weight                                                      | 53   | kg     |
| Temperature data                                            |      |        |
| Max. temperature of transported air                         | 40   | °C     |
| Max. temperature of transported air when voltage-controlled | 40   | °C     |
| Sound data                                                  |      |        |
| Sound pressure level at 1 m                                 | 48   | dB(A)  |
| Protection / Classification                                 |      |        |
| Insulation class                                            | F    |        |
| Enclosure class, motor                                      | IP54 |        |

EPS diagrams

Performance

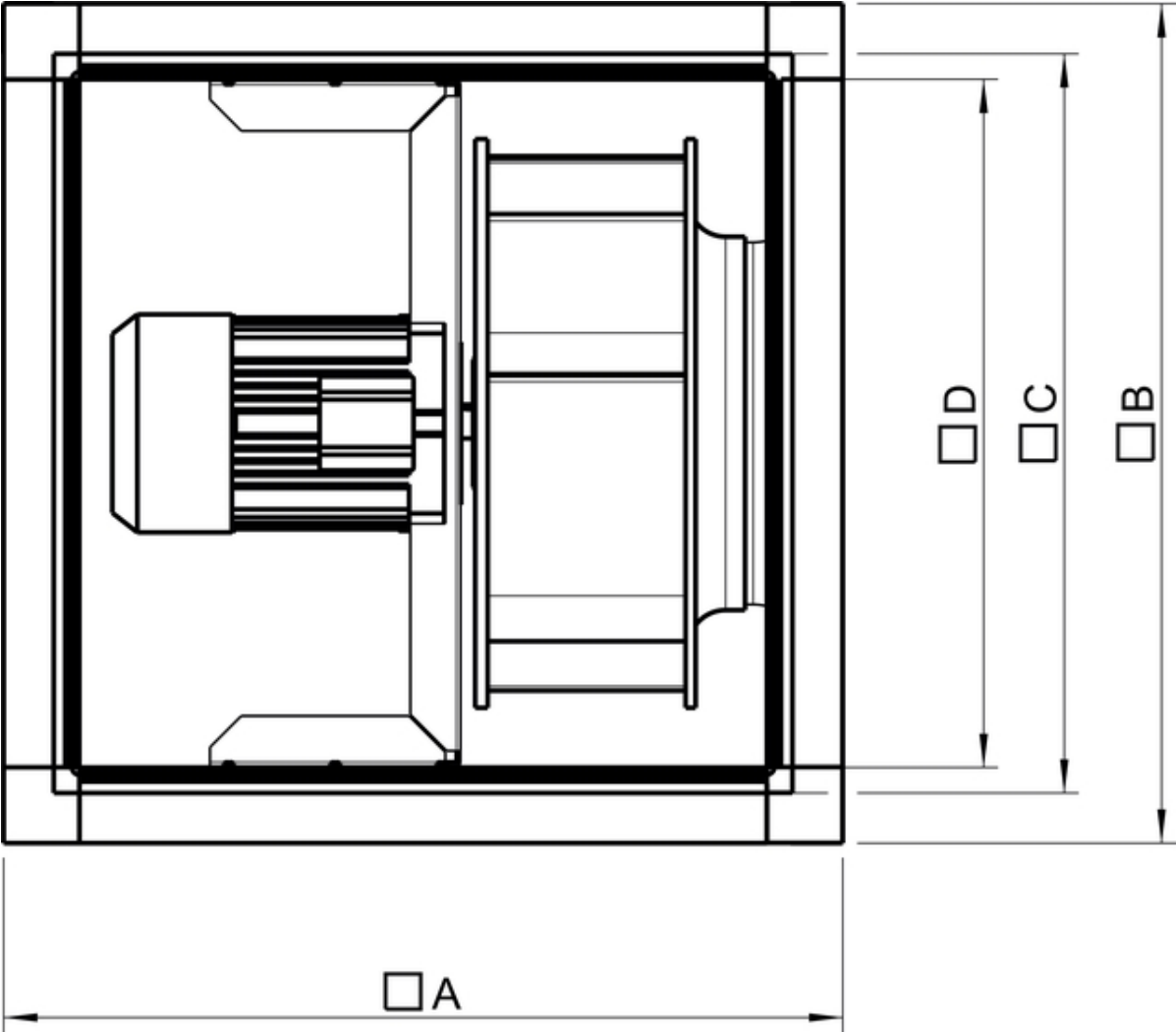
Diagrams



Max efficiency

| Hydraulic data            |      |           |
|---------------------------|------|-----------|
| ▲ Working air flow        | 3166 | m³/h      |
| ▲ Working static pressure | 380  | Pa        |
| ▲ Power                   | 1450 | W         |
| Speed                     | 1213 | r.p.m.    |
| Current                   | 1,64 | A         |
| SFP                       | 1,65 | kW/(m³/s) |
| Voltage                   | 400  | V         |

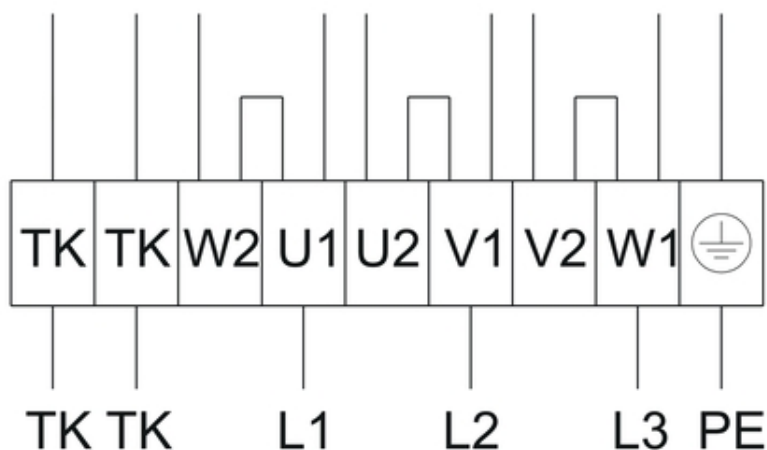
Dimensions



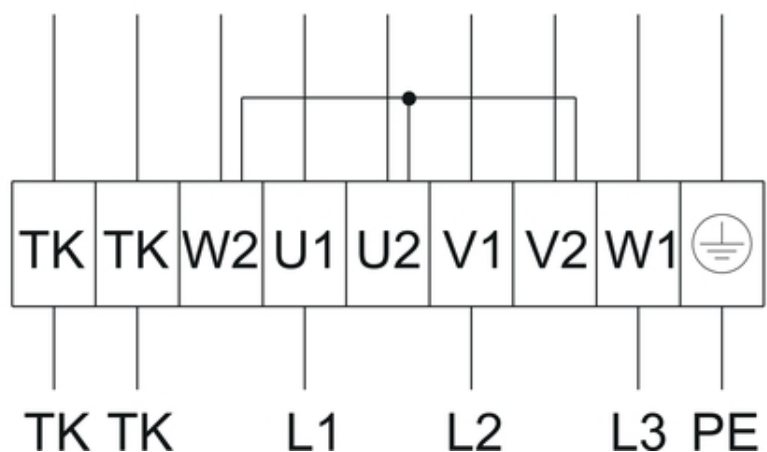
| □A          | □B  | □C  | □D      |
|-------------|-----|-----|---------|
| MUB 042 499 | 670 | 670 | 590 548 |

## Wiring

### Delta connection



### Star connection



## Accessories

### Electric accessories

- [RTRD 2 Speed Cont. Systemair \(5941\)](#)
- [RTRDU 2 Speed contr. Systemair \(5945\)](#)
- [S-DT2SKT Two speed switch Y/D \(2697\)](#)
- [STDT 16 Motor Protection \(5152\)](#)
- [REV-5POL/07 ON/OFF \(33980\)](#)
- [REV-9POL/12 ON/OFF \(33981\)](#)
- [FRQ5S-4A+LED V2 \(36233\)](#)
- [FRQS-4A V2 \(36231\)](#)

### Accessories

- [UGS 042/500 adapter flex. \(4357\)](#)
- [FGV 042/586-586 flex. conn. \(4605\)](#)
- [SRKG 042/588-588 shutter valve \(4868\)](#)
- [WSD 042 \(730x730x70\) complete \(31481\)](#)
- [SDM Service Door MUB 042 comp. \(32572\)](#)
- [CCM outlet MUB042 d400 \(311682\)](#)
- [CCM outlet MUB042 d500 \(311683\)](#)
- [CCM inlet MUB042 d400 \(311780\)](#)
- [CCM inlet MUB042 d500 \(311781\)](#)
- [SD-MUB Vibration pad set \(37324\)](#)
- [CCMI outlet 042 d400 insul KIT \(313845\)](#)
- [CCMI outlet 042 d500 insul KIT \(313846\)](#)

Documentation

-  manual\_mub\_all\_en-de\_web\_[001].pdf (4,49MB)
-  Commissioning Report\_fans\_160628\_en\_001.pdf (42,79kB)

Acoustics

Mid-frequency band, Hz

|                 | Hz    | Tot | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|-----------------|-------|-----|----|-----|-----|-----|----|----|----|----|
| LwA Inlet       | dB(A) | 76  | 63 | 65  | 69  | 71  | 70 | 67 | 62 | 55 |
| LwA Outlet      | dB(A) | 78  | 65 | 67  | 71  | 73  | 72 | 69 | 64 | 57 |
| LwA Surrounding | dB(A) | 55  | 42 | 44  | 48  | 50  | 49 | 46 | 41 | 34 |

Measuring point: qv = 0,87 m3/s, Ps = 380 Pa

Specification text

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 (IP44), maintenance-free, the motor is placed inside the air flow for cooling. Integral thermal contacts acc. to EN 60335-2-80 with leads to a motor protection device. Speed-controlled by voltage reduction via transformer. Controllable via frequency inverter and all-pole sinusoidal filter. 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.