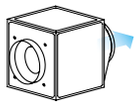
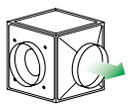
## GB 500

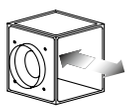




Ⓐ Axial outlet



Ⓡ Centr. outlet

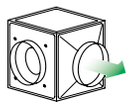


— Centrifugal, free blowing both sides

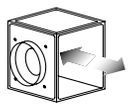
Any installation position and location due to five possible outlet directions.

## GB 500 T120





Ⓡ Centr. outlet

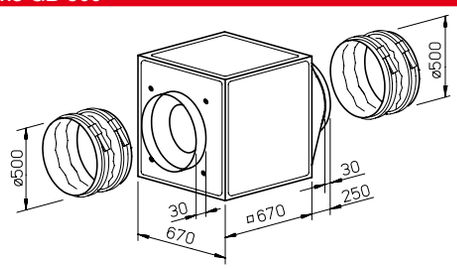


— Centrifugal, free blowing both sides

For the delivery of contaminated, humid and hot air up to max. 120 °C. Motor located outside of air flow.

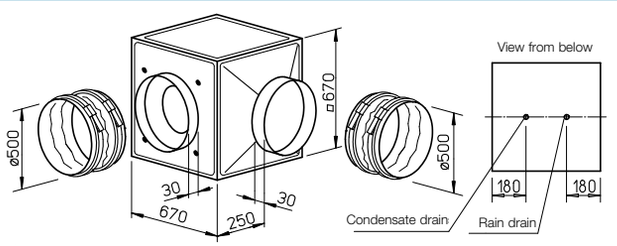
T120

## Dimensions GB 500




Dim. in mm

## Dimensions GB 500 T120




Dim. in mm

### Special features of the GB T120 series

- Designed for the delivery of contaminated, humid and hot air up to max. 120 °C.
- Motor located outside of air flow.
- Thermally insulated partition between motor and impeller, made of galvanised steel sheet, with 20 mm thick, non-flammable mineral wool.
- Complete motor-impeller unit can be removed without dismantling the system components.
- Inspection cover with handle, easily removable for cleaning and maintenance.
- Condensate tray with condensate drain as standard. Hole provided for rain drain (accessories) for outdoor installation.

- **Installation GB T120**
  Installation position with condensate drain below. Flexible installation due to three possible centrifugal outlet directions of the outlet fitting.
  Protected outdoor installation possible with weather protection cover and grille (accessories).

### Special features of the GB series

Any installation position and flexible installation due to five possible outlet directions of the outlet fitting. The wall bracket (accessories) must be used for wall installation. Protected outdoor installation possible with weather protection cover and grille (accessories).

### Description for both series

- **Casing**
  Self-supporting frame construction made of aluminium hollow profiles. Double-walled, 20 mm thick side panels made of galvanised steel sheet, sound and heat insulated by non-flammable mineral wool lining.
  Nozzle on inlet side for optimal inflow as well as connectors and flexible connecting sleeve (for the respective max. permissible air flow temperature) for duct connection. Moulded part (square to round) on outlet side for low-loss outflow and flexible connecting sleeve to prevent structure-borne noise transmission.
  Simple positioning with standard crane hook.

- **Impeller**
  Free-running high performance centrifugal impeller made of aluminium with backward curved blades, directly driven. Energy-efficient with low noise emission. Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 2.5.

- **Drive**
  Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted.

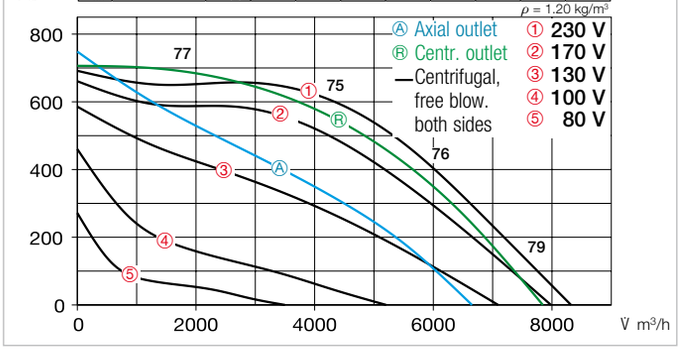
- **Electrical connection**
  Standard terminal box (IP54) on motor; on the motor support plate for GB T120.

| Type | Ref. no. | Max. flow rate | Rated speed | Case-rad. sound pressure | Power consumption | Current consumption at rated voltage | Current consumption in control mode | Wiring diagram | Max. air flow temperature at Rat. vol. | Max. air flow temperature at Control | Weight net aprx. | Speed controller 5-step with motor prot. circuit breaker Type | Ref. no. | Speed controller 5-step without motor prot. circuit breaker Type | Ref. no. | Mot. prot. circ. break. for connecting built-in thermal contacts Type | Ref. no. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | V̇ m³/h | min⁻¹ | dB(A) in 4m | kW | A | A | No. | + °C | + °C | kg | | | | | | |
| **Alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP54** | | | | | | | | | | | | | | | | | |
| **GBW 500/4** | 05517 | 8320 | 1400 | 47 | 1.50 | 6.70 | 9.60 | 865 | 50 | 50 | 61 | **MWS 10** | 01946 | **TSW 10** | 01498 | **MW**[1] | 01579 |
| **Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/Δ connection, protection category IP54** | | | | | | | | | | | | | | | | | |
| **GBD 500/4/4** | 05518 | 7650/8860 | 1075/1340 | 45 | 0.97/1.45 | 1.60/2.80 | 2.90 | 867 | 50 | 50 | 57 | **RDS 7** | 01578 | **TSD 5.5** | 01503 | **MD** | 05849 |
| T120 **Alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP54** | | | | | | | | | | | | | | | | | |
| **GBW 500/4 T120** | 05776 | 8345 | 1340 | 45 | 1.40 | 6.1 | 7.0 | 301 | 120 | 100 | 75 | **MWS 10** | 01946 | – | | – | |
| T120 **Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/Δ connection, protection category IP54** | | | | | | | | | | | | | | | | | |
| **GBD 500/4/4 T120** | 05777 | 7320/8350 | 1120/1370 | 45 | 0.95/1.30 | 1.60/2.50 | 2.5 | 947 | 120 | 110 | 75 | **RDS 4** | 01316 | **TSD 3.0** | 01502 | **MD** | 05849 |

1) Incl. operating switch

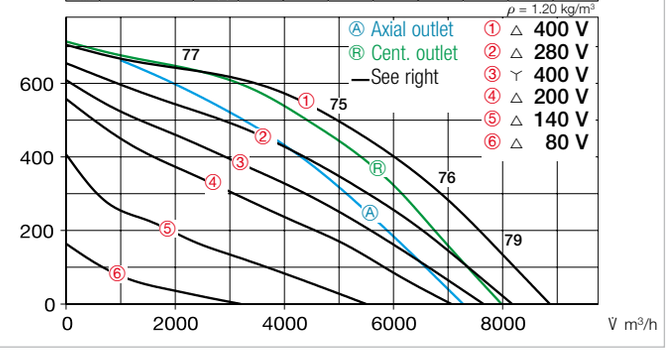
## Performance curves GBW 500/4

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 67 | 64 | 63 | 53 | 52 | 50 | 46 | 40 |
| $L_{WA}$ | Inlet side | dB(A) | 79 | 63 | 72 | 72 | 74 | 72 | 66 | 59 |
| $L_{WA}$ | Outlet side | dB(A) | 83 | 72 | 75 | 76 | 78 | 75 | 71 | 67 |



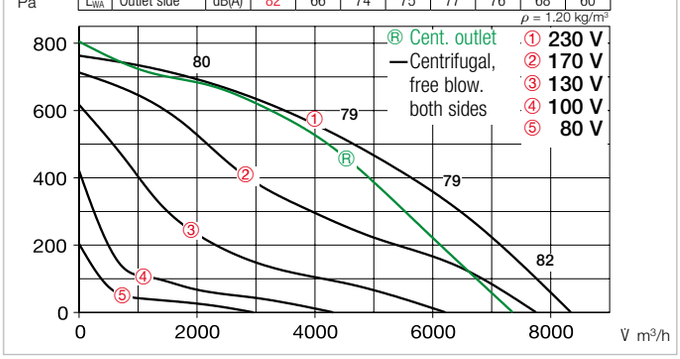

## Performance curves GBD 500/4/4

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 65 | 59 | 62 | 57 | 56 | 47 | 41 | 33 |
| $L_{WA}$ | Inlet side | dB(A) | 77 | 57 | 66 | 69 | 74 | 70 | 64 | 55 |
| $L_{WA}$ | Outlet side | dB(A) | 80 | 61 | 73 | 74 | 74 | 73 | 69 | 60 |



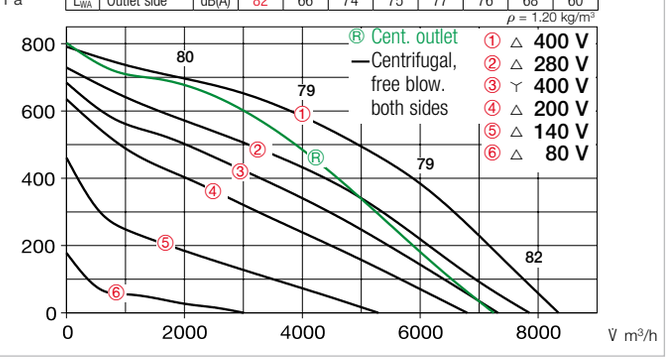

## Performance curves GBW 500/4 T120

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 65 | 54 | 61 | 58 | 57 | 56 | 50 | 42 |
| $L_{WA}$ | Inlet side | dB(A) | 79 | 65 | 71 | 73 | 72 | 73 | 68 | 58 |
| $L_{WA}$ | Outlet side | dB(A) | 82 | 66 | 74 | 75 | 77 | 76 | 68 | 60 |




## Performance curves GBD 500/4/4 T120

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Radiation | dB(A) | 65 | 54 | 61 | 58 | 57 | 56 | 50 | 42 |
| $L_{WA}$ | Inlet side | dB(A) | 79 | 65 | 71 | 73 | 72 | 73 | 68 | 58 |
| $L_{WA}$ | Outlet side | dB(A) | 82 | 66 | 74 | 75 | 77 | 76 | 68 | 60 |




### Motor protection
With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker.

### Power control
All types are speed-controllable using voltage reduction by means of transformer (accessories).
The 3~ types can also be operated at two speeds using a ⋎/△ switch or motor protection circuit breaker M 4. Performance levels are shown in the performance diagram.

### Noise
The total level and range are specified above the performance diagram for:
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power

The inlet side sound power level is also specified above the nominal performance curve in the performance diagram.
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

### Accessories for both series

**Vibration dampers** for indoor installation. 1 set = 4 pcs.
**SDD-U** Ref. no. 05627

**Wall bracket** for wall installation.
**GB-WK 500** Ref. no. 05626

**Weather protection grille** for outlet-side coverage.
**GB-WSG 500** Ref. no. 05639

**Weather protection cover** for protected outdoor installation.
**GB-WSD 500** Ref. no. 05748

**Speed switch and on/off switch for** two-speed ⋎/△ switchable three-phase current fans.
**DS 2** [2] Ref. no. 01351

[2] required motor protection circuit breaker: Type MD, No. 05849.

### Special accessories

☐ **for GB series**
**Condensate tray** with drain connectors (central) for duct/hose connection.
**GB-KW 500** Ref. no. 05644
(a condensate tray with condensate drain is included in delivery for GB T120).

☐ **for GB T120 series**
**Rain drain for outdoor installation (Hole in casing base already provided).**
**GB-RA** Ref. no. 09418

| References | Page |
|---|---|
| Planning information | 14 ff. |
| General techn. information, power control | 19 ff. |
| **Accessory details** | **Page** |
| Speed controllers and motor prot. circ. breakers | 601 ff. |