**GB EC 500** 



#### GB EC 500 T120



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

#### Dimensions GB EC 500

# Dimensions GD LC 300

## Special features of the GB EC T120 series

- Designed for the delivery of contaminated, humid and hot air up to max. 120 °C, e.g. as an extract air fan in commercial kitchens and many process technology applications.
- 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

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).

 Electrical connection Standard terminal box (IP54) directly to the commutation electronics.

## Special features of the GB EC 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) 

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

 Dimensions GB EC 500 T120
 Image: Contaminated outside of air flow.

# Dim. in mm Electrical connection

30

30n

30

Electrical connection Standard terminal box (IP54) mounted to external cable.

#### 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

Condensate drain

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

Rain drain

#### Drive

Energy-saving, speed-controllable EC external rotor motor in protection category IP54 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

#### Motor protection

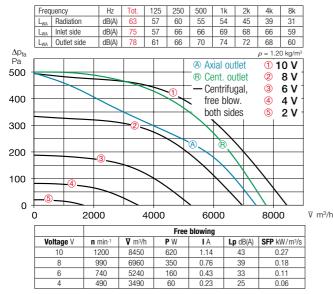
Integrated electronic temperature monitoring system for EC motor and electronics.

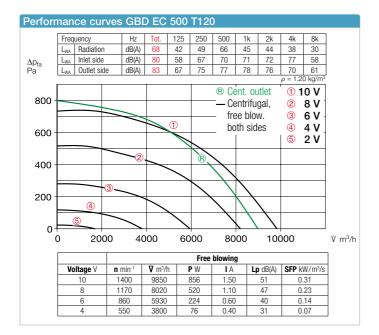
Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Universal control system		Speed pot Flush-mounted		tentiometer Surface-mounted	
		mm	∀ m³/h	min <sup>-1</sup>	dB(A) in 4m	kW	А	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP54																
GBD EC 500 A	05818	500	8450	1200	43	0.95	1.60	1415	50	80.5	EUR EC <sup>1)</sup>	<sup>2)</sup> 01347	PU 241)	01736	PA 241)	01737
GBD EC 500 B	05813	500	10680	1500	46	2.00	3.14	1415	60	82.0	EUR EC <sup>1)</sup>	<sup>2)</sup> 01347	PU 241)	01736	PA 241)	01737
<mark>∭T120</mark> Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP54																
GBD EC 500 A T1	<b>20</b> 06477	500	9850	1400	51	1.45	2.4	1214.1	120	96.0	EUR EC <sup>1)</sup>	<sup>2)</sup> 01347	PU 101)	01734	PA 101)	01735

1) Multiple EC fans can normally be connected. 2) Alternative electronic diff. pressure/temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267).



#### Performance curves GBD EC 500 A





#### Power control

Continuously variable speed control with internal (delivery) or external potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

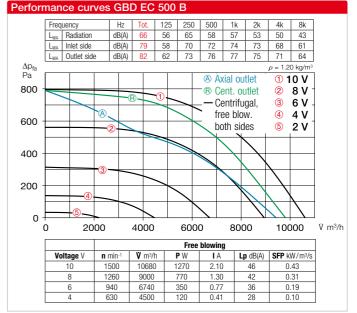
#### Noise

The total level and range are specified above the performance diagram for:

- Case-radiated sound powerInlet side sound power
- Outlet side sound power
   The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in

the performance curve.

the type table and the table below



#### 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 500Ref. no. 05626

Weather protection grille for outlet-side coverage. **GB-WSG EC 500** Ref. no. 05640

Weather protection cover for protected outdoor installation. **GB-WSD EC 500** Ref. no. 05749

#### Special accessories

#### for GB EC series

**Condensate tray** with drain connectors (central) for duct/hose connection.

**GB-KW EC 500** Ref. no. 05645 (a condensate tray with condensate drain is included in delivery for GB EC T120).

□ for GB EC T120 series

Rain drain for outdoor installation(Hole in casing base already pro-vided).**GB-RA**Ref. no. 09418

ReferencesPageUniversal control system,<br/>electronic controllers,<br/>Speed potentiometer613 ff.