

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).

Electrical connection

Standard terminal box mounted directly on the motor.

Self-supporting frame construc-

Description for both series

Casing

tion 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, 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

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.

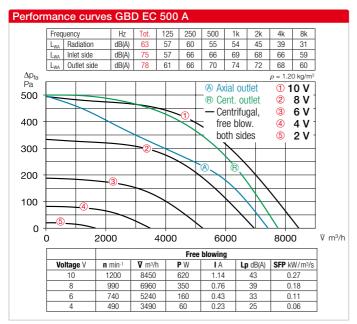
Motor protection

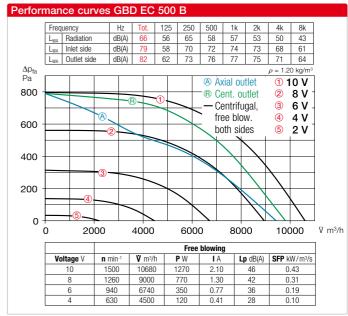
Integrated electronic temperature monitoring system for EC motor and electronics.

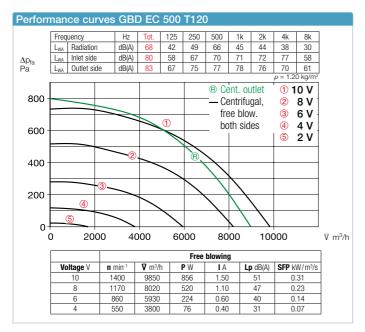
Туре	Ref. no.	Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Universal control system		Speed pot Flush-mounted		tentiometer Surface-mounted	
		mm	Ÿ m³/h	min-1	dB(A) in 4m	kW	А	No.	+°C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44																
GBD EC 500 A	05818	500	8450	1200	43	0.95	1.60	1415	50	80.5	EUR EC1)	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 EC1)	01347	PU 241)	01736	PA 241)	01737
<u>™120</u> Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP54																
GBD EC 500 A T	120 06477	500	9850	1400	51	1.45	2.4	1214.1	120	96.0	EUR EC1)	01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	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).









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 power
- Inlet 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 type table and the table below
 the performance curve.

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 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 provided).

GB-RA Ref. no. 09418

■ References Page Universal control system, electronic controllers, Speed potentiometer 617 ff.