

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 (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.

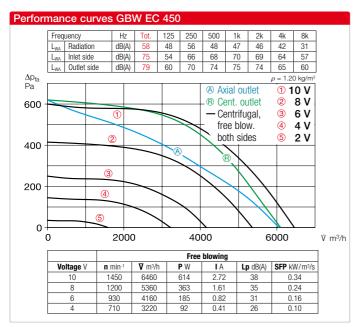
Impeller

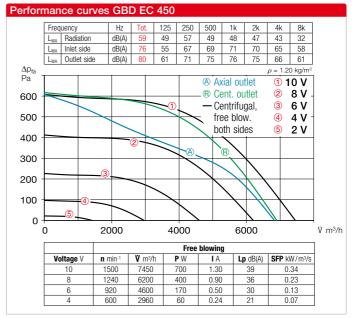
Free-running high performance centrifugal impeller made of aluminium, directly driven. Energy-efficient with low noise emission. Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 2.5.

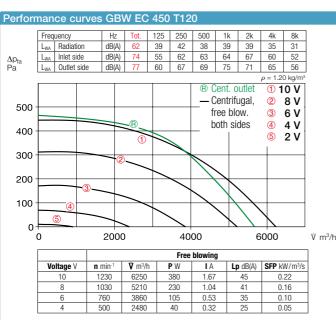
Туре	Ref. no.	Connection	Flow rate	Rated	Case-rad.	Power	Current	3			Universal control system		Speed potentiometer			
		Ø	free blowing	speed	sound pressure	consumption	consumption	diagram	temp.	net aprx.			Flush-mounted		Surface-mounted	
		mm	Ÿ m³/h	min-1	dB(A) in 4m	kW	А	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Alternating current, 1 ~, 230 V, 50/60 Hz, EC motor, protection category IP44																
GBW EC 450	05811	450	6460	1450	38	1.00	4.5	973	50	52.0	EUR EC1)	²⁾ 01347	PU 241)	01736	PA 241)	01737
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44																
GBD EC 450	05812	450	7450	1500	39	1.10	1.9	1415	55	52.0	EUR EC1)	²⁾ 01347	PU 241)	01736	PA 241)	01737
"T120 Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP54																
GBW EC 450 T	120 06475	450	6250	1230	45	0.65	2.8	1223.1	120	66.0	EUR EC1)	²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
>>> T120 Thre	120 Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP54															
GBD EC 450 T1	20 06476	450	7100	1400	48	0.95	1.7	1214.1	120	66.0	EUR EC1)	²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735

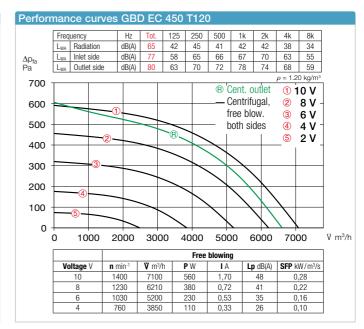
1) Multiple EC fans can normally be connected. 2) Alternative electronic diff. pressure/temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267).











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.

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

the performance curve.

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

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 450 Ref. no. 05626

Weather protection grille for outlet-side coverage.

GB-WSG 450 Ref. no. 05639

Weather protection cover for protected outdoor installation.

GB-WSD 450 Ref. no. 05748

Special accessories

connection

onnectors (central) for duct/hose

GB-KW 450 Ref. no. 05644 (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 613 ff.