

# Special features of the GB T120 seriesT120

- 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

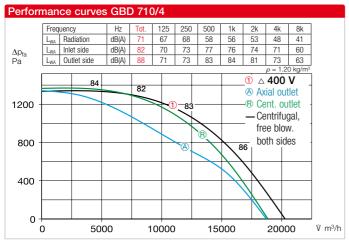
Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted, radio interference-free.

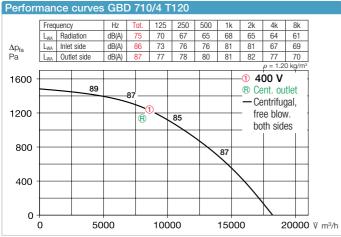
## ■ Electrical connection

Standard terminal box (IP54/55) on motor; on the motor support plate for GB T120.

Туре	Ref. no.	Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current cor at rated voltage	nsumption in control mode	Wiring diagram	Max. air flow temperature at Rat. vol. Control		Weight net aprx.	Speed controller 5-step with motor prot. without motor prot circuit breaker circuit breaker		Mot. prot. circ. break. for connec- ting built-in thermal contacts			
		V m³/h	min <sup>-1</sup>	dB(A) in 4m	kW	Α	Α	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Three-phase current motor, 3~, 400 V, 50 Hz, protection category IP55																	
GBD 710/4	05529	20285	1465	51	5.97	10.20	-	499	75	-	170		_	-	-	MD	05849
Two-speed, three-phase current motor, $3\sim$ , 400 V, 50 Hz, $\forall$ / $\triangle$ connection, protection category IP54																	
GBD 710/6/6	05525	16000/18740	690/890	46	1.55/2.45	2.90/4.70	4.70	867	45	45	157	RDS 7	01578	TSD 7.0	01504	MD	05849
Three-phase current motor, 3~, 400 V, 50 Hz, protection category IP54																	
GBD 710/4 T12	0 05756	18200	1465	55	5.89	10.4	_	499	120	_	188		_	-	-	MD	05849







#### Frequency L<sub>wA</sub> Radiation dB(A) 63 62 53 51 48 43 36 L<sub>WA</sub> Inlet side 74 72 77 dB(A) 62 71 64 64 54 75 $\Delta p_{fa}$ L<sub>WA</sub> Outlet side 75 80 78 72 61 dB(A) Axial outlet ① △ 400 V ® Cent. outlet ② △ 280 V 600 ③ Y 400 V - Centrifugal, 4 △ 200 V free blow. ⑤ △ 140 V both sides 400 6 △ 80 V 200 82 (5) 0 0 5000 10000 15000 <sup>†</sup> m³/h

## Motor protection

Types GBD with external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker. Type GBD T120 with PTC thermistors for direct wiring to the motor protection circuit breaker or the frequency converter FU-BS (see type table, accessories).

## Power control

All types (except for GBD T120) are speed-controllable using voltage reduction by means of transformer (accessories). GBD 710/6/6 can also be operated at two speeds using a Y/ $\Delta$  switch or motor protection circuit breaker M 4; Type GBD T120 can only be controlled using a frequency converter with sine filter. 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.

## Special accessories

onnectors (central) for duct/hose connection.

Performance curves GBD 710/6/6

GB-KW 710 Ref. no. 05646 (a condensate tray with condensate drain is included in delivery for GB T120)

# Speed switch and on/off switch for two-speed Y/△ switchable

three-phase current fans.

**DS 2**<sup>1)</sup> Ref. no. 01351

1) required motor protection circuit breaker: Type MD, No. 05849.

# of r GBD 710/6/6 Vibration dampers for indoor installation. 1 set = 4 pcs. SDD-U Ref. no. 05627

of r GB T120 series

Rain drain for outdoor installation
(Hole in casing base already provided).

**GB-RA** Ref. no. 09418

## Accessories for both series

Weather protection grille for outlet-side coverage.

GB-WSG 710 Ref. no. 05641

**GB-WSG 710** Ref. no. 05641

Weather protection cover for protected outdoor installation.

GB-WSD 710 Ref. no. 05750

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