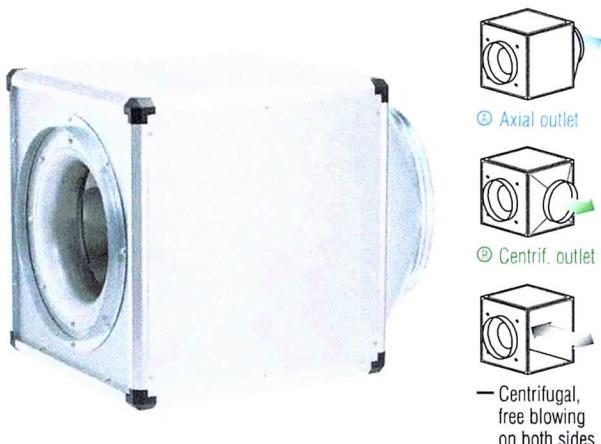
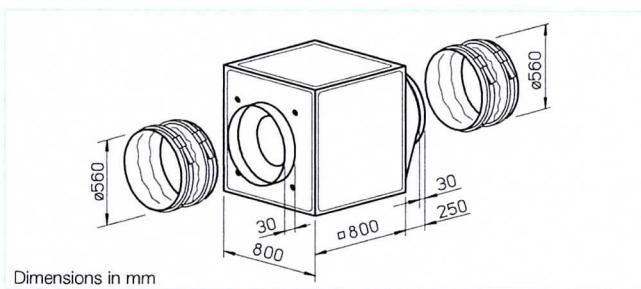
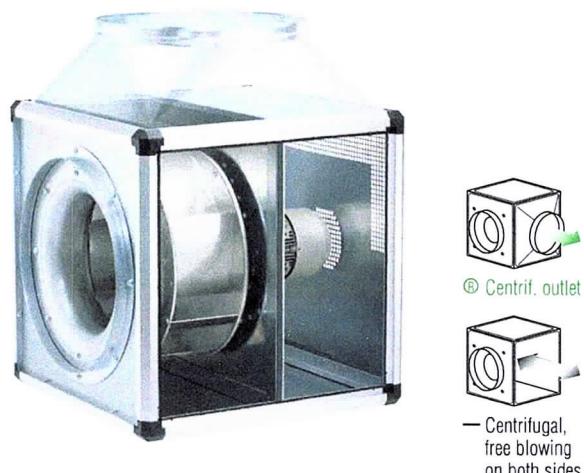


GB

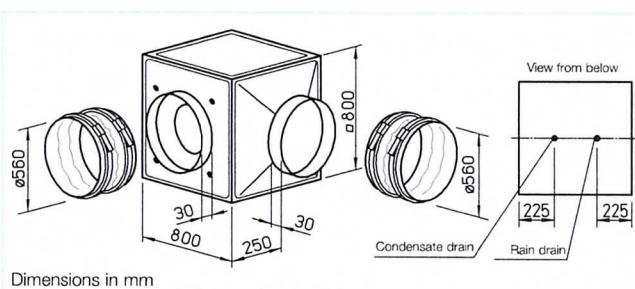
Any installation position and location due to five possible outlet directions.



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



Dimensions in mm



Dimensions 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 roof and grille (accessories).

■ Special feature

□ GB series installation
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 roof 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. Molded part (square to round) on outlet side for low-loss outflow and flexible connecting sleeve to prevent structure-borne noise transmission. Simple positioning with crane hook as standard.

□ 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 6.3.

□ Drive

Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP 54. Ball bearing mounted, radio interference-free.

□ Electrical connection

Standard terminal box (IP 54) on motor; on the motor support plate for GB T120.

Type	Ref. no.	Max. flow rate	Rated speed	Case-radiated sound pressure	Power consumption	Current consumption at rated voltage	Wiring diagram	Maximum air flow temperature at control	Weight net approx.	Speed controller 5-step with motor prot.	Speed controller 5-step without mot. prot.	Mot. prot. circ. break. for connecting built-in thermal contacts			
		l/m³/h	min⁻¹	dB(A) at 4 m	kW	A	No.	°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.

Alternating current, 1~, 230 V, 50 Hz, capacitor motor, protection category IP 54

Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/△ connection, protection category IP 54

GBW 560/4	05508	9123	1409	45	1.83	7.93	11.5	865	45	45	92	MWS 10	01946	TSW 10	01498	MW ¹⁾	01579
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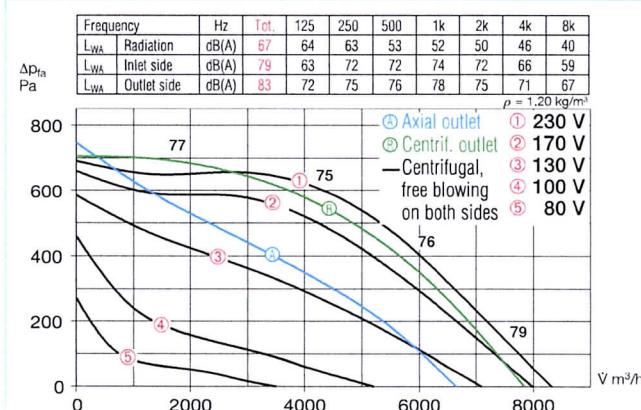
GBD 560/6/6	05522	7800/9000	705/885	35	0.51/0.80	0.90/1.85	1.90	867	60	60	80	RDS 4	01316	TSD 3.0	01502	MD	05849
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GBD 560/4/4	05521	11500/13000	1110/1350	44	1.70/2.60	2.80/4.80	4.90	867	55	45	90	RDS 7	01578	TSD 7.0	01504	MD	05849
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Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/△ connection, protection category IP 54

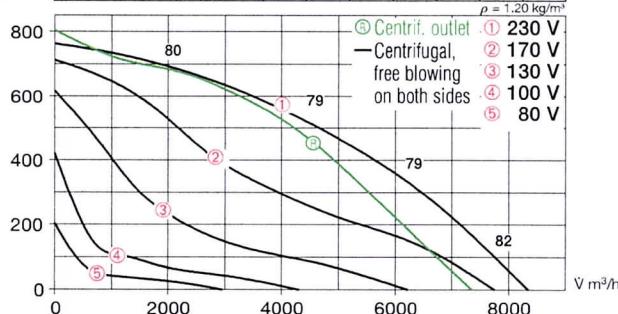
GBD 560/4/4 T120	05778	11520/12300	1250/1400	48	1.85/2.50	3.20/6.80	6.80	520	120	120	105	RDS 7	01578	TSD 7.0	01504	MD	05849
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1) Incl. operating switch.

GBW 500/4


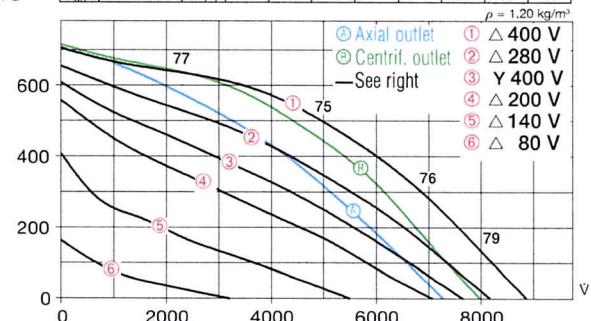
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA}	Radiation	dB(A)	65	54	61	58	57	56	50	42
L _{WA}	Inlet side	dB(A)	79	65	71	73	72	73	68	58
L _{WA}	Outlet side	dB(A)	82	66	74	75	77	76	68	60

$\rho = 1.20 \text{ kg/m}^3$


GBD 500/4/4

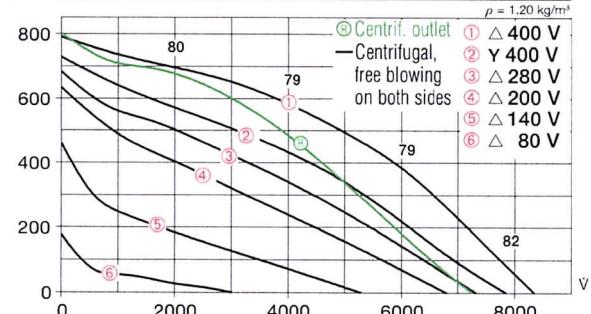
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA}	Radiation	dB(A)	65	59	62	57	56	47	41	33
L _{WA}	Inlet side	dB(A)	77	57	66	69	74	70	64	55
L _{WA}	Outlet side	dB(A)	80	61	73	74	74	73	69	60

$\rho = 1.20 \text{ kg/m}^3$



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

$\rho = 1.20 \text{ kg/m}^3$


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 Y/△ switch or motor protection circuit breaker M4. Performance levels are shown in the performance diagram.

Noise

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

- Radiated sound power
- Inlet side sound power
- Outlet side sound power
- The inlet side sound power level is also specified above the nominal characteristic 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 roof for protected outdoor installation.

GB-WSD 500 Ref. no. 05748

Speed switch and on/off switch for two-speed Y/△ switchable three-phase current fans.

Type DS 2²⁾ 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 10 ff.
General techn. information,
power control 15 ff.

Accessory details **Page**

Speed controllers and motor
prot. circuit breakers 571 ff.