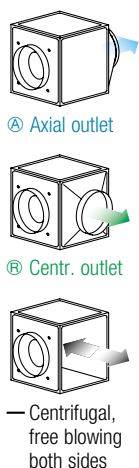
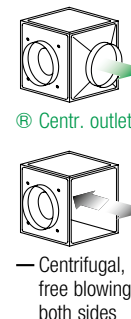


GB 450



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

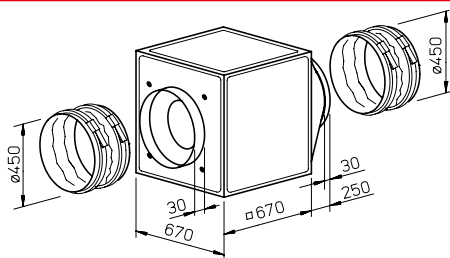
GB 450 T120



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



Dimensions GB 450



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.

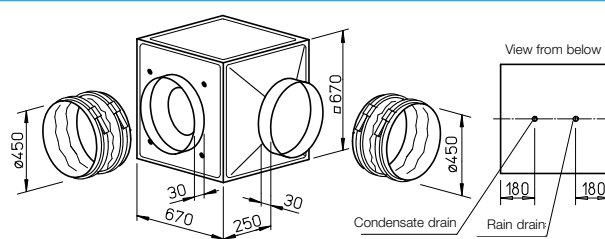
Installation GB T120

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 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).

Dimensions GB 450 T120



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 with backward curved plastic blades (aluminium impellers for GB T120), 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

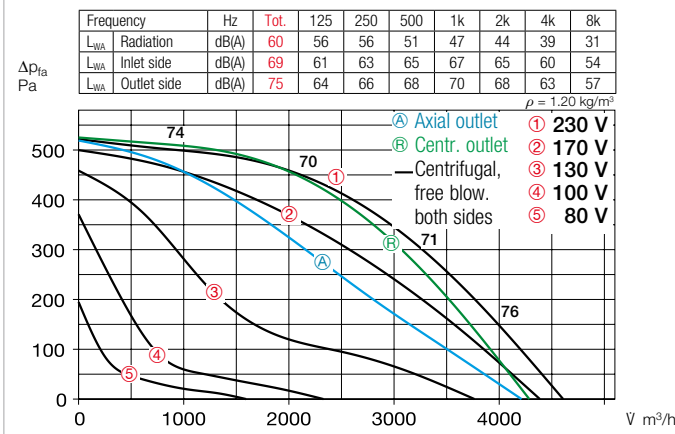
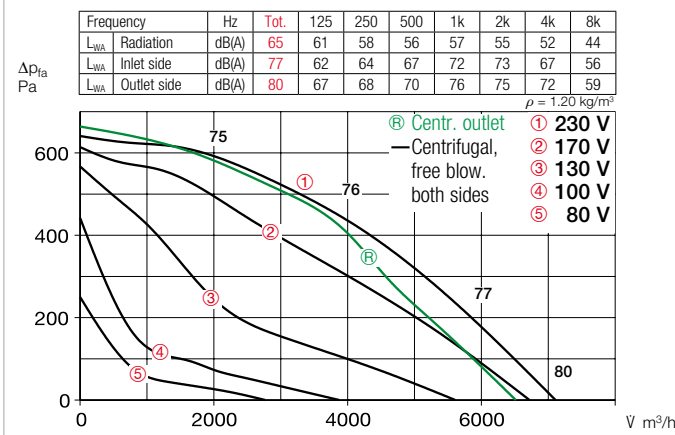
Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted.

■ Electrical connection

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

Type	Ref. no.	Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption		Wiring diagram	Max. air flow temperature at		Weight net appr.	Speed controller 5-step				Mot. prot. circ. break. for connecting built-in thermal contacts	
						at rated voltage	in control mode		Rat. vol.	Control		with motor prot. circuit breaker	without motor prot. circuit breaker	Ref. no.	Ref. no.		Type
		V m³/h	min ⁻¹	dB(A) in 4m	kW	A	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP54																	
GBW 450/4	05515	4600	1380	40	0.66	2.90	4.0	864	45	45	49.0	MWS 5	01949	TSW 5.0	01497	MW ¹⁾	01579
Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/Δ connection, protection category IP54																	
GBD 450/4/4	05516	5670/6500	1060/1345	42	0.50/0.73	0.87/1.47	1.52	867	55	55	50.0	RDS 2	01315	TSD 1.5	01501	MD	05849
T120 Alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP54																	
GBW 450/4 T120	05774	7110	1370	45	1.00	4.60	5.50	935	120	100	74.0	MWS 7.5	01950	TSW 7.5	01596	MW ¹⁾	01579
T120 Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/Δ connection, protection category IP54																	
GBD 450/4/4 T120	05775	6210/7180	1100/1350	45	0.65/0.90	1.10/1.60	1.80	947	120	110	74.0	RDS 2	01315	TSD 3.0	01502	MD	05849

1) Incl. operating switch.

Performance curves GBW 450/4

Performance curves GBW 450/4 T120

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 γ/Δ switch or motor protection circuit breaker M 4. Performance levels are shown in the performance diagram.

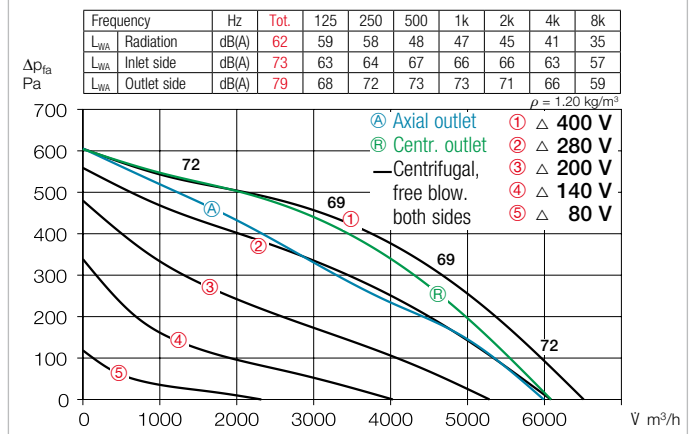
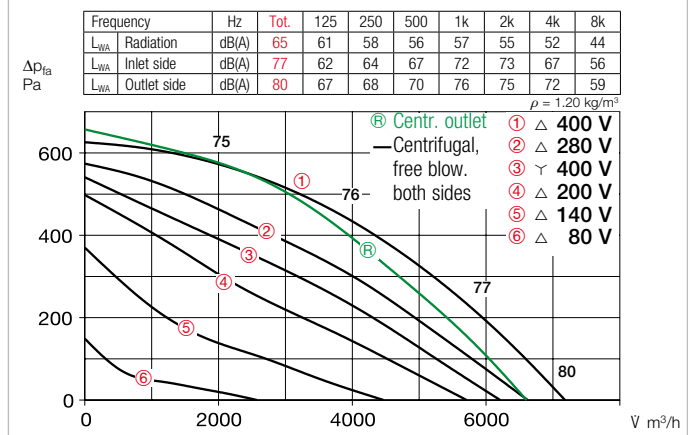
Noise

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.

Performance curves GBD 450/4/4

Performance curves GBD 450/4/4 T120

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

Speed switch and on/off switch

for two-speed γ/Δ switchable three-phase current fans.

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 450 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
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Accessory details	Page
Speed controllers and motor prot. circ. breakers	601 ff.