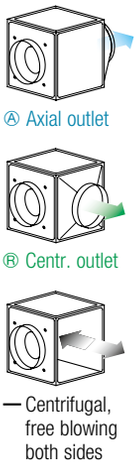
GB 450

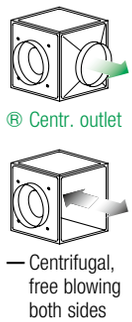




Any installation position and location due to five possible outlet directions.

GB 450 T120

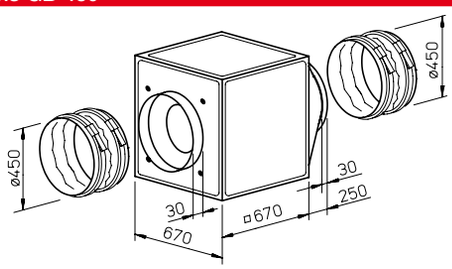




For the delivery of contaminated, humid and hot air up to max. 120 °C. Motor located outside of air flow.

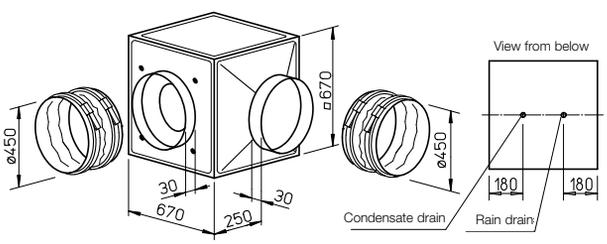
T120

Dimensions GB 450



Dim. in mm

Dimensions GB 450 T120



Dim. 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 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 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.

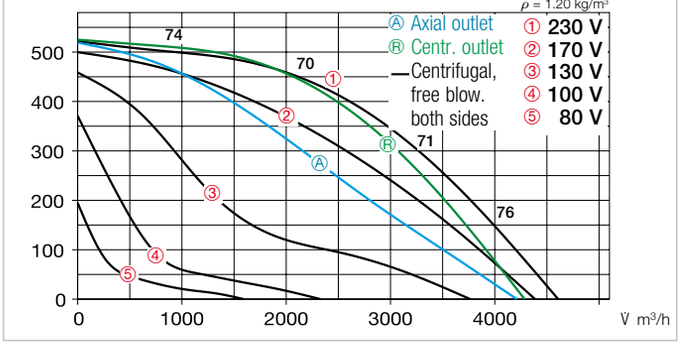
- **Electrical connection**
  Standard terminal box (IP54) on motor; on the motor support plate for GB T120.

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

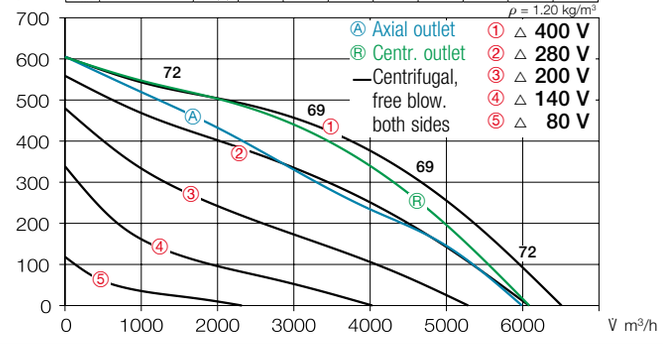
Performance curves GBW 450/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	60	56	56	51	47	44	39	31
L_{WA}	Inlet side	dB(A)	69	61	63	65	67	65	60	54
L_{WA}	Outlet side	dB(A)	75	64	66	68	70	68	63	57



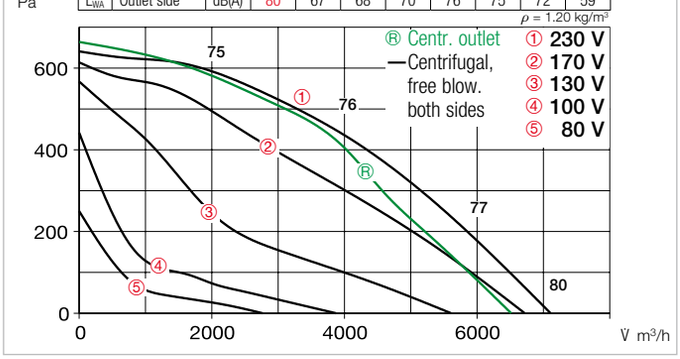
Performance curves GBD 450/4/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	62	59	58	48	47	45	41	35
L_{WA}	Inlet side	dB(A)	73	63	64	67	66	66	63	57
L_{WA}	Outlet side	dB(A)	79	68	72	73	73	71	66	59



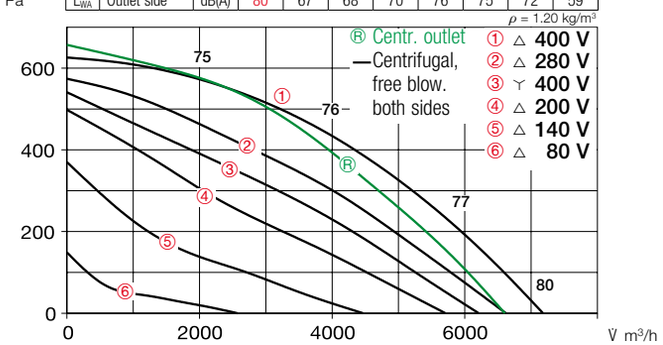
Performance curves GBW 450/4 T120

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	65	61	58	56	57	55	52	44
L_{WA}	Inlet side	dB(A)	77	62	64	67	72	73	67	56
L_{WA}	Outlet side	dB(A)	80	67	68	70	76	75	72	59



Performance curves GBD 450/4/4 T120

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	65	61	58	56	57	55	52	44
L_{WA}	Inlet side	dB(A)	77	62	64	67	72	73	67	56
L_{WA}	Outlet side	dB(A)	80	67	68	70	76	75	72	59



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 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.

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 Y/△ switchable three-phase current fans.
DS 2 [2] 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
Planning information	14 ff.
General techn. information, power control	19 ff.
Accessory details	**Page**
Speed controllers and motor prot. circ. breakers	601 ff.