



Helios box fans.

Powerful. Flexible. Compact.

Helios box fans are true all-rounders, offering almost unlimited flexibility in various applications. The compact design and the easy-to-install accessories allow optimal adaptation to the structural conditions of your project at any time.

■ GigaBox centrifugal fans

Efficient EC version. Also available in T120 version up to max. 120 °C.

Ø 250 - 710 mm $\dot{V} = 2010 - 18940 \, \text{m}^3/\text{h}$



■ GigaBox centrifugal fans

Standard AC version. Also available in T120 version up to max. 120 °C.

Ø 250 – 710 mm $\dot{V} = 1410 - 20280 \,\mathrm{m}^3/\mathrm{h}$





296ff

■ GigaBox centrifugal fans

Product-specific information, selection table.

274ff

■ Fresh air boxes

Efficient EC version. With electric or warm water heating and air filter.



■ MegaBox centrifugal fans

Efficient EC version.

Ø 225 – 400 mm $\dot{V} = 1350 - 6550 \, \text{m}^3/\text{h}$



■ MegaBox centrifugal fans

Standard AC version.

Ø 160 – 400 mm $\dot{V} = 960 - 7500 \, \text{m}^3/\text{h}$

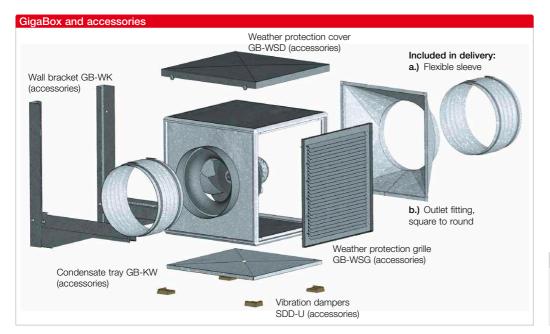


■ MegaBox centrifugal fans

Product-specific information, selection table.

312f





Application

Multifunctional fan box for the transportation of medium to large volume flows against high resistances in ventilation systems of all kinds. The compact frame design and easy-to-install accessories allow variable and thus optimal adaptation to structural conditions by simply repositioning the casing panels.

GB T120 and GB EC T120

The GigaBox T120 types are designed for the delivery of contaminated, humid and hot air up to max. 120 °C, e.g. as extract air fans in commercial kitchens and many process technology applications.
GigaBox T120 types with EC drive technology are optionally available for energy-saving applications and the lowest operating costs.

☐ GB EC

GigaBox types with EC drive technology are optionally available for energy-saving applications and the lowest operating costs.

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 duct connection. Moulded part (square to round) on outlet side for low-loss outflow and flexible connecting sleeve to prevent structure-borne noise transmission. The flexible connecting sleeves included in the scope of delivery correspond to a maximum permissible air flow temperature of +70 °C or +120 °C

for types GB T120 and GB EC T120. Simple positioning with standard crane book

☐ The drive motor is located outside of the air flow for GB T120 and GB EC T120. The thermally insulated partition is also the support plate for the motor-impeller unit and it can be completely removed for inspection without dismantling the system components.

Power control

GB and GB T120

All types (excluding GBD 630/4 T120, GBD 710/4 and GBD 710/4 T120) are speed-controllable using 5-step transformer or electronic controllers. The 3~ GB types can also be inexpensively operated at two speeds using a Y/\(\triangle\) switch (accessory DS 2 or motor protection circuit breaker M4). Performance levels are shown in the performance diagram. Control by means of frequency converter with integrated sine filter (FU-BS, accessories) is possible for 3~ types; GBD 630/4 T120, GBD 710/4 and GBD 710/4 T120 can only be controlled by frequency converter FU-BS.

GB EC and GB EC T120

All EC types have continuously variable speed control with internal (delivery) or external via speed potentiometer. Control is also possible via three level switch or continuously variable via universal control system or electronic differential pressure/ temperature controller. Performance levels are shown on the performance curve as examples.

Positioning, installationGB and GB EC

Any installation position and flexible installation due to five possible outlet directions of the outlet fitting. Removable side panels allow inspection access from all sides.

GB T120 and GB EC T120 Installation position with condensate drain below. Flexible installation due to three possible centrifugal outlet directions of the outlet fitting. Inspection cover with handle, easily removable for cleaning and maintenance. Simple positioning with crane hook as standard. The transmission of structure-borne noise to buildings is minimised by vibration dampers (type SDD-U, accessories). The transmission of vibrations to the duct system is prevented by the standard flexible connecting sleeves.

Impeller

Free-running high performance centrifugal impeller with backward curved plastic blades (nominal size 250 made of steel) on galvanised steel plate, directly driven. Series GB EC, GB from nominal size 500 and GB T120 and GB EC T120 with aluminium impellers. Energy-efficient with low noise emission. Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 6.3 or 2.5.

Drive

GB and GB T120

IEC standard motor or maintenance-free external rotor motor in protection category IP54 or 44. Thermal overload protection through thermal contacts in the winding. Suitable for continuous operation S1. Insulation class F. The ball bearings have a sufficient Planning information, acoustics 10 ff. General techn. information, power control 15 ff.

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lubricant supply for their service

☐ GB EC

■ Reference

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.

Electrical connection

☐ GB and GB T120

Standard terminal box, only for alternating currents.

Air flow direction

The air flow direction cannot be changed for centrifugal fans, but it can be set by the corresponding positioning. The throughflow can also be individually adapted to structural conditions by converting the outlet fitting and panels. The correct motor rotation direction and air flow direction is marked by arrows on the fan and must be checked during commissioning.

• Incorrect direction of rotation Operation in the incorrect direction of rotation overloads the AC motor and causes the thermal contacts to respond. Typical concomitant features include: Low flow rate,

vibration and abnormal noise.

Air flow temperature

The maximum permissible air flow temperature is shown in the type table.

■ Ambient temperature From -40 °C to +40 °C.



VDI 2052 "Ventilation equipment for kitchens – Planning, design, inspection" is applied for the planning of extract air systems in commercial kitchens. The following applies for extract air fans:

■ Fans in extraction systems must be designed and installed so that they can be easily accessed, easily controlled and cleaned. It must be possible to deactivate them from the kitchen. The drive motors must be located outside of the extract air volume flow. Connected extraction hoods must separate solid and liquid components as far as possible. Flame propagation to downstream components must be prevented.

These specific requirements are remarkably fulfilled by the GigaBoxes GB T120 and GB EC T120. The freely accessible casing and double-walled side panels allow problem-free cleaning with degreasing agents and steam.

The guideline on fire protection requirements pertaining to ventilation systems (LüAR ventilation system guideline) of September 2006 has been largely introduced nationwide by law.

This resulted in additional requirements for extract air systems in commercial and comparable kitchens:

- Extract air ducts must also be made of non-combustible materials (building material class A1 or A2 pursuant to DIN 4102). From the point of exit from the kitchen, they must have fire resistance class L90 at least or be equipped with a damper with proof of use for this purpose.
- Kitchen extract air ducts must not be interconnected or connected to other ventilation ducts. The combination of room air with the cooking zone extraction within the kitchen as well as the connection of multiple kitchen extraction hoods to one shared extract air duct is permitted.
- Suitable grease filters or separating elements made of non-combustible materials must be connected to or directly behind the extraction systems (hoods or ventilation ceilings). It must be possible to easily install and remove these for cleaning.

- The extract air ducts must have smooth inner surfaces which are easy to clean. Profiled walls such as e.g. flexible ducts and porous or absorbent building materials are not permitted. Grease and condensate must not leak through the walls.
- The extract air ducts must have inspection openings at distances of max. 3 m after each change of direction and in horizontal, straight sections. Their dimensions must correspond to the duct cross-section or at least 3600 cm2. Devices for catching and draining condensate and cleaning agents must be provided at suitable points in the pipeline.
- Fire protection for neighbouring buildings

If a ventilation system is located on the building envelope (wall), the ventilation system parts must have a fire-resistant lining L90. This also applies to fans and their extract air ducts which lead outside (up to the roof).

■ Fire protection in the attic Ventilation system (fan) parts in the attic must have a fire-resistant lining L90.

Ducts which lead outside must be lined up to the roofing. Ventilation ducts (in the building and attic) must have a fireresistant lining.



With regard to the GigaBox T120 series, the motor is located outside of the air flow and it is separated from the impeller by a thermally insulated wall. The motor-impeller unit can be removed without dismantling the duct system.



Installation of outlet-side fitting for GB T120 and GB EC T120 radially upwards or laterally.



GB T120 and GB EC T120 with easily removable inspection cover.



By combining the parameters of static pressure increase $\Delta p_{\text{fa}},$ case-radiated noise and inlet side air noise as sound pressure at

 $4~\mathrm{m}$ (free field conditions), the following table facilitates the selection of GigaBox EC centrifugal fans.

EC	Sound press. Radiation	Sound press. Inlet side	Flow rate V	m³/h deper	nding on sta	atic pressur	9								
EC	L _{PA} dB(A)	L _{PA} dB(A)	(ΔP_{fa}) in Pa												
Туре	at 4 m dist.	at 4 m dist.	0	50	100	150	200	250	300	350	400	500	600	700	800
GBW EC 250	31	43	2010	1880	1750	1600	1360	1010							
GBW EC 315	32	44	2620	2460	2310	2130	1830	1500							
GBW EC 355	30	49	3440	3270	3120	2950	2740	2500	2135	1630					
GBW EC 400 A	36	48	4050	3860	3600	3350	3050	2670	1880						
GBW EC 400 B	37	52	5160	4970	4730	4550	4210	4100	3800	3410	2900				
GBW EC 450	38	55	6460	6280	6100	5890	5660	5450	5190	4870	4600	3810			
GBD EC 450	39	56	7450	7240	7010	6760	6520	6270	6000	5690	5340	4420	390		
GBD EC 500 A	43	55	8450	8070	7740	7420	7030	6570	6140	5650	4890				
GBD EC 500 B	46	59	10670	10440	10210	9960	9700	9450	9200	8930	8620	7990	7210	5990	560
GBD EC 560	49	60	13970	13720	13460	13180	12880	12560	12240	11910	11540	10670	9680	8090	5150
GBD EC 630	44	60	15570	15170	14760	14360	13950	13520	13050	12560	11990	10450	8160		
GBD EC 710 A	42	53	15680	15030	14350	13680	12950	11880	10880	9450	6560				
GBD EC 710 B	48	61	18940	18370	17920	17400	16830	16220	15570	14850	14040	11880	6930		

(N)	Sound press. Radiation	Sound press. Inlet side	Flow rate V	m³/h depe	nding on sta	atic pressur	е								
EC T120	L _{PA} dB(A)	L _{PA} dB(A)	(ΔP_{fa}) in Pa												
Туре	at 4 m dist.	at 4 m dist.	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
GBW EC 250 T120	40	52	2340	2140	1890	1630	1320	800							
GBW EC 315A T120	39	52	3030	2750	2390	1920	800								
GBW EC 355 T120	40	53	3830	3470	3020	2420	1210								
GBD EC 355 T120	40	53	3840	3470	3030	2420	1210								
GBW EC 400 T120	43	56	4730	4280	3730	2870	1490								
GBD EC 400 T120	46	56	5410	5010	4510	3930	3130	1990							
GBW EC 450 T120	45	57	6200	5720	5070	4130	2610								
GBD EC 450 T120	48	60	7080	6610	6140	5460	4660	3350							
GBD EC 500 T120	51	63	9610	9110	8550	7960	7170	6180	4920	2530					
GBD EC 560 T120	53	65	11650	11140	10630	10090	9510	8870	8060	7140	5520				
GBD EC 630 T120	54	68	14540	14060	13600	13150	12660	12050	11330	10540	9530	8060	4590		
GBD EC 710 T120	51	65	18360	17910	17440	16930	16370	15730	15030	14250	13330	12210	10920	9300	6760



By combining the parameters of static pressure increase $\Delta p_{\text{fa}},$ case-radiated noise and inlet side air noise as sound pressure at

 $4~\mathrm{m}$ (free field conditions), the following table facilitates the selection of GigaBox AC centrifugal fans.

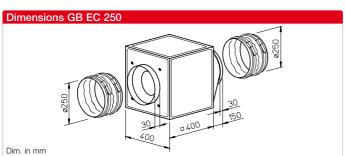
	Sound press. Radiation	Sound press. Inlet side	Flow rate V	m³/h depei	nding on sta	atic pressur	е								
	L _{PA} dB(A)	L _{PA} dB(A)	(ΔP_{fa}) in Pa												
Туре	at 4 m dist.	at 4 m dist.	0	50	100	150	200	250	300	350	400	500	600	700	800
GBW 250/4	27	39	1420	1160	890	500									
GBW 315/4	29	41	1760	1500	1260	970	560								
GBW 355/4	38	48	3060	2850	2640	2420	2180	1900	1510	560					
GBD 355/4/4	34	46	3090	2910	2720	2520	2290	2030	1680	1000					
GBW 400/4	38	50	4120	3920	3720	3500	3270	3000	2690	2260	1440				
GBD 400/4/4	38	50	4120	3910	3710	3500	3290	3050	2780	2430	1870				
GBW 450/4	40	49	4610	4400	4200	3990	3770	3530	3270	2970	2610				
GBD 450/4/4	33	49	6500	6220	5940	5660	5350	5000	4660	4300	3770	2060	110	6110	
GBW 500/4	47	59	8320	8020	7740	7460	7180	6910	6630	6340	6030	5330	4340	370	
GBD 500/4/4	45	57	8860	8540	8220	7880	7530	7160	6770	6350	5900	4800	2940	140	
GBW 560/4	45	57	9150	8910	8670	8420	8160	7890	7620	7330	7030	6360	5570	4500	2270
GBD 560/4/4	44	57	12610	12260	11910	11560	11200	10830	10450	10050	9630	8690	7540	5950	2940
GBD 560/6/6	35	48	8670	8160	7600	6990	6280	5410	4210	2190					
GBD 630/4/4	51	62	14430	14070	13710	13370	13040	12720	12390	12050	11710	11000	10200	9280	8110
GBD 630/6/6	42	53	9990	9430	8870	8290	7670	6980	6160	5070	3020				
GBD 710/4	46	59	20280	20020	19760	19490	19210	18930	18640	18340	18040	17400	16730	15990	15190
GBD 710/6/6	51	62	18740	17980	17190	16360	15490	14560	13550	12440	11170	7730	970		

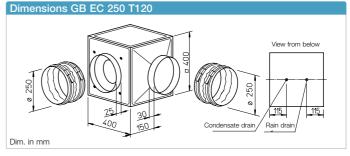
\$555	Sound press. Radiation	Sound press. Inlet side	Flow rate V	m³/h depei	nding on sta	atic pressure	Э								
T120	L _{PA} dB(A)	L _{PA} dB(A)	(ΔP_{fa}) in Pa												
Туре	at 4 m dist.	at 4 m dist.	0	100	200	300	400	500	600	700	800	900	1000	1100	1200
GBW 355/4 T120	36	49	3460	2990	2460	1505									
GBD 355/4/4 T120	36	49	3470	3045	2510	1690									
GBW 400/4 T120	40	53	4930	4380	3790	2900	1580								
GBD 400/4/4 T120	40	53	4870	4295	3650	2740	1370								
GBW 450/4 T120	45	57	7110	6480	5850	5135	4350	3300	1900						
GBD 450/4/4 T120	45	57	7180	6600	5950	5220	4340	3230	1340						
GBW 500/4 T120	45	59	8345	7770	7160	6480	5670	4680	3510	1840					
GBD 500/4/4 T120	45	59	8350	7765	7180	6600	5910	4970	3820	1920					
GBD 560/4/4 T120	48	62	12300	11690	11080	10475	9800	9120	8410	7430	6000				
GBD 630/4 T120	53	67	14140	13690	13200	12720	12230	11670	11150	10470	8830	7850	6820	5150	
GBD 710/4 T120	55	66	18200	17650	17200	16650	16000	15300	14500	13750	12800	11850	10850	9800	8500











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)

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 6.3.

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.

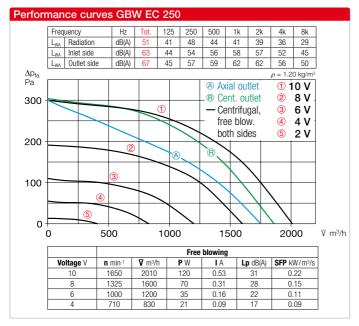
Motor protection

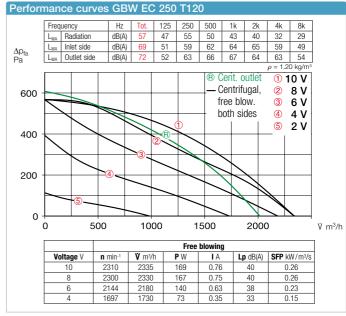
Integrated electronic temperature monitoring system for EC motor and electronics.

Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current con- sumption	Wiring dia- gram	Max. air flow temp.	Weight net aprx.	Univ control		Flush-m		entiometer Surface-	
		mm	Ÿ m³/h	min ⁻¹	dB(A) in 4m	kW	А	No.	+°C	kg	Туре	Ref. no.	Туре	Ref. no.	Type	Ref. no.
Alternating curr	rent, 1~, 2	30 V, 50/60	Hz, EC mot	or, protectio	on category	IP54										
GBW EC 250	05807	250	2010	1650	31	0.17	0.76	973	55	20.0	EUR EC1)	2) 01347	PU 241)	01736	PA 241)	01737
>>> T120 Altern	nating curr	ent, 1~, 230	0 V, 50/60 H	łz, EC motor	, protection	category IP5	i 4									
GBW EC 250 T1:	20 06371	250	2335	2200	40	0.27	1,20	1354	120	27.0	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).







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
- 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
 the performance curve.

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 250** Ref. no. 05625

Weather protection grille for outlet-side coverage. GB-WSG 250 Ref. no. 05637

Weather protection cover for protected outdoor installation.

GB-WSD 250 Ref. no. 05746

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 250 Ref. no. 05642 (a condensate tray with condensate drain is included in delivery for GB EC T120).

of r GB EC T120 series

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

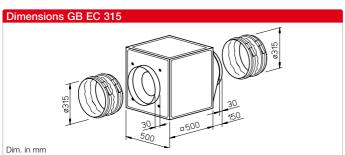
GB-RA Ref. no. 09418

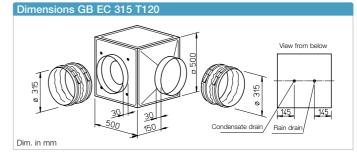
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Accessory details	Page
Universal control system electronic controllers,	











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 6.3.

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.

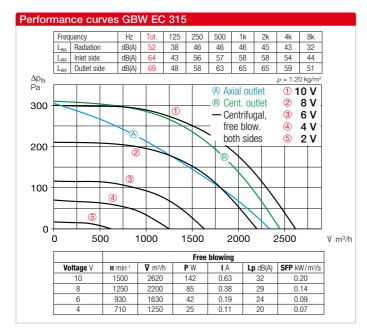
Motor protection

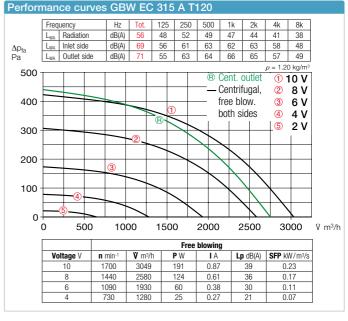
Integrated electronic temperature monitoring system for EC motor and electronics.

Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.		ersal system	Flush-m		tentiometer 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 curr	ent, 1~, 2	30 V, 50/60	Hz, EC mot	tor, protectio	on category	IP54										
GBW EC 315	05808	315	2620	1500	32	0.20	0.9	973	55	31.0	EUR EC1	01347	PU 241)	01736	PA 241)	01737
>>> T120 Altern	ating curr	ent, 1~, 230	0 V, 50/60 I	Iz, EC moto	r, protection	category IP5	54									
GBW EC 315 A T1	20 06370	315	3050	1700	39	0.29	1.3	1223.1	120	42.0	EUR EC1	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).







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
- 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 the performance curve.

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 315 Ref. no. 05625

Weather protection grille for outlet-side coverage.

GB-WSG 315 Ref. no. 05638

Weather protection cover for protected outdoor installation.

GB-WSD 315 Ref. no. 05747

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 315 Ref. no. 05643 (a condensate tray with condensate drain is included in delivery for GB EC T120).

of r GB EC T120 series

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

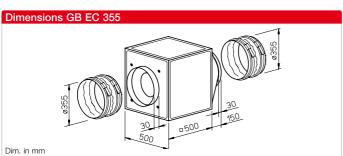
GB-RA Ref. no. 09418

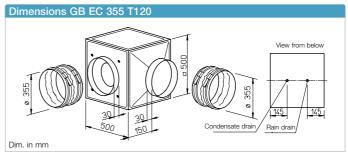
■ References	Page
Planning information	10 ff.
General techn. information	η,
power control	15 ff.
Accessory details	Page
Universal control system,	
alaatrania aantrallara	
electronic controllers,	











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 6.3.

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.

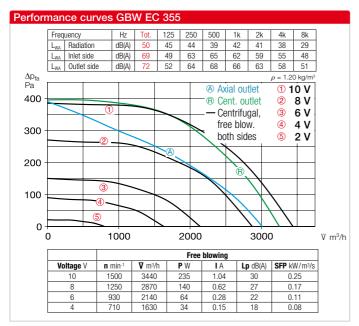
Motor protection

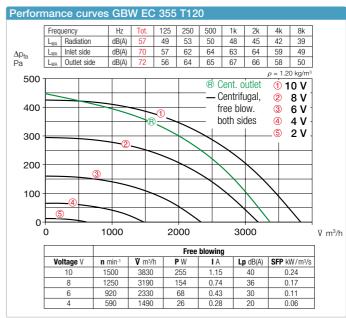
Integrated electronic temperature monitoring system for EC motor and electronics.

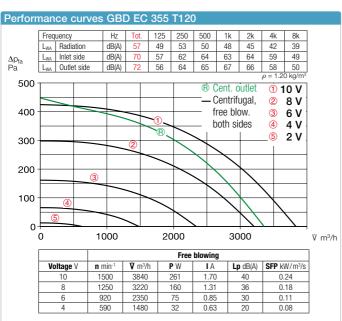
outdoor ins	stallation															
Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.		ersal system	Flush-n		tentiometer Surface-	
		mm	V m³/h	min ⁻¹	dB(A) in 4m	kW	А	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Alternating curr	ent, 1~, 2	30 V, 50/60	Hz, EC mot	tor, protection	on category	IP54										
GBW EC 355	05809	355	3440	1500	30	0.35	1.55	973	50	33.0	EUR EC1)	2) 01347	PU 241)	01736	PA 241)	01737
∭T120 Altern	ating curi	rent, 1~, 23	0 V, 50/60 I	Hz, EC moto	r, protection	category IP	54									
GBW EC 355 T12	20 06372	315	2620	1500	32	0.20	0.9	973	55	31.0	EUR EC1)	2) 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
SST120 Three	-phase cu	rrent, 3~, 4	00 V, 50/60	Hz, EC mot	or, protectio	n category I	P54									
GBD EC 355 T12	20 06452	355	3840	1500	40	0.36	0.7	1214.1	120	44.0	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).









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 355 Ref. no. 05625

Weather protection grille for outlet-side coverage.

GB-WSG 355 Ref. no. 05638

Weather protection cover for protected outdoor installation.

GB-WSD 355 Ref. no. 05747

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 355 Ref. no. 05643 (a condensate tray with condensate drain is included in delivery for GB EC T120).

of r GB EC T120 series

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

GB-RA Ref. no. 09418

Power control

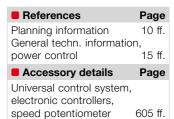
Continuously variable speed control with internal (delivery) or external potentiometer or continuously variable speed regulation with universal control system (see table).

Performance levels are shown in the performance curve as an example.

Noise

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

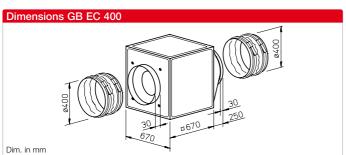
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- Outlet side sound power
 The case-radiated noise as
 sound pressure at 4 m (free field
 conditions) is also specified in
 the type table and the table below
 the performance curve.

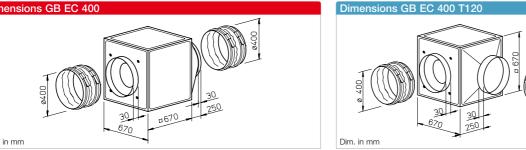












Special features of the GB EC T120 series

- 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

Electrical connection

Standard terminal box (IP54) mounted to external cable.

Description for both series

Casing

tion 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 trans-

standard crane hook

mission. Simple positioning with

Self-supporting frame construc-

Impeller

Condensate drain

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

Rain drain

View from below

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.

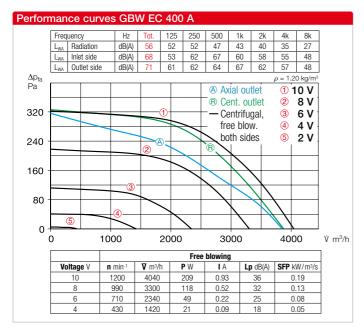
Motor protection

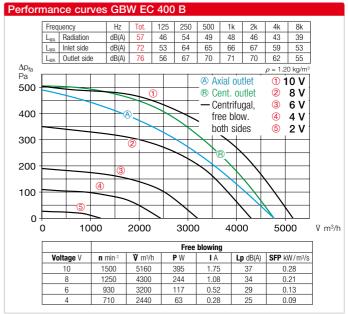
Integrated electronic temperature monitoring system for EC motor and electronics.

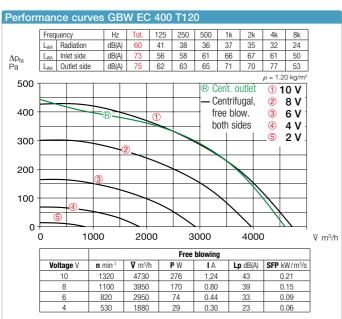
			/6	200033011	00).			otariaarc	a craine mov	JIV.						
Туре		Connection		Rated	Case-rad.	Power	Current	Wiring	Max. air flow			ersal		Speed po	tentiometer	
		V	free blowing	speed	sound pressure	consumption	consumption	diagram	temp.	net aprx.	COLLLO	system	Flush-n	nounted	Surface-	mounted
		mm	Ÿ m³/h	min ⁻¹	dB(A) in 4m	kW	А	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Alternating curre	ent, 1~, 2	30 V, 50/60	Hz, EC mot	tor, protection	on category	IP54										
GBW EC 400 A	05817	400	4050	1200	36	0.34	1.52	973	50	43.0	EUR EC1	2) 01347	PU 241)	01736	PA 241)	01737
GBW EC 400 B	05810	400	5155	1500	37	0.62	2.80	973	50	46.0	EUR EC1	2) 01347	PU 241)	01736	PA 241)	01737
>>> T120 Alterna	ating cur	rent, 1~, 23	0 V, 50/60 H	Iz, EC moto	r, protection	category IP	54									
GBW EC 400 T12	0 06453	400	4730	1320	43	0.43	1.80	1223.1	120	60.0	EUR EC1	2) 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
SST120 Three-	phase cu	ırrent, 3~, 4	00 V, 50/60	Hz, EC mot	or, protectio	n category I	P54									
GBD EC 400 T12	06454	400	5410	1500	46	0.62	1,20	1214.1	120	60.0	EUR EC1	2) 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735

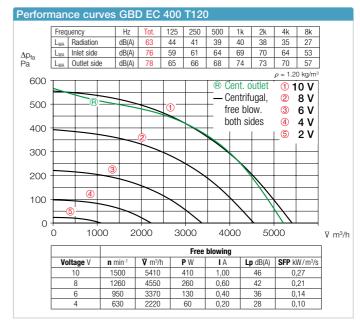
¹⁾ Multiple EC fans can normally be connected. 2) Alternative electronic diff. pressure/temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267).











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.

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 case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and the table below the performance curve.

Accessories for both series

Vibration dampers for indoor installation. 1 set = 4 pcs. Ref. no. 05627 SDD-II

GB-WK 400

Wall bracket for wall installation.

Ref. no. 05626

Weather protection grille for outlet-side coverage

GB-WSG 400 Ref. no. 05639

Weather protection cover for protected outdoor installation. GB-WSD 400 Ref. no. 05748

Special accessories

for GB EC series

Condensate tray with drain connectors (central) for duct/hose connection

GB-KW 400 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)

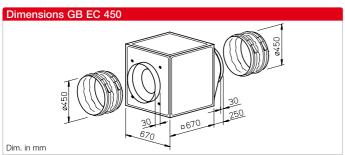
GB-RA Ref. no. 09418

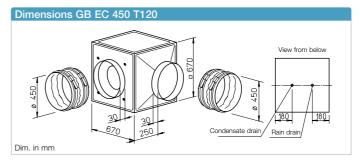
References **Page** Universal control system, electronic controllers, 605 ff. Speed potentiometer











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. permis-

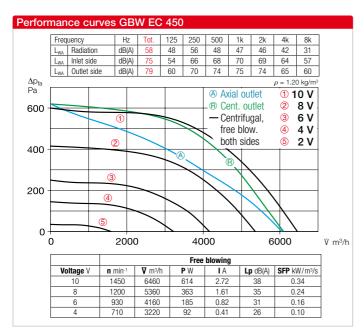
sible air flow temperature) for duct connection. Moulded part (square to round) on outlet side for low-loss outflow and flexible connecting sleeve to prevent structure-borne noise transmission. Simple positioning with standard crane hook.

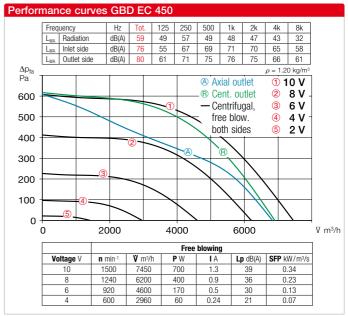
Impeller

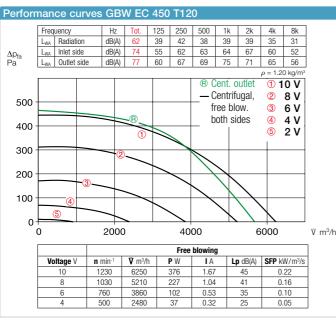
Free-running high performance centrifugal impeller made of aluminium, directly driven. Energy-efficient with low noise emission. Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 2.5.

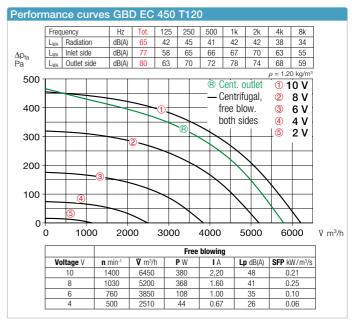
Туре		Connection	Flow rate	Rated	Case-rad.	Power	Current	Wiring	Max. air flow		Univ			Speed po	tentiometer	
		Ø	free blowing	speed	sound pressure	consumption	consumption	diagram	temp.	net aprx.	control	system	Flush-m	nounted	Surface-	mounted
		mm	Ϋ m³/h	min-1	dB(A) in 4m	kW	Α	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Alternating curr	ent, 1~, 2	30 V, 50/60) Hz, EC mo	tor, protecti	on category	IP54										
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 cu	rrent, 3~,	400 V, 50/6	0 Hz, EC m	otor, protect	tion category	y IP54										
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 Altern	ating curr	rent, 1~, 23	0 V, 50/60 I	Iz, EC moto	r, protection	category IPS	54									
GBW EC 450 T12	20 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
ST120 Three	phase cu	ırrent, 3~, 4	00 V, 50/60	Hz, EC mot	or, protectio	n category II	P54									
GBD EC 450 T12	0 06476	450	6450	1400	48	0.95	1.7	1214.1	120	66.0	EUR EC1)	2) 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735











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.

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 case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and the table below the performance curve.

Accessories for both series

Vibration dampers for indoor installation. 1 set = 4 pcs. Ref. no. 05627 SDD-II

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

for GB EC 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 EC T120).

☐ for GB EC T120 series

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

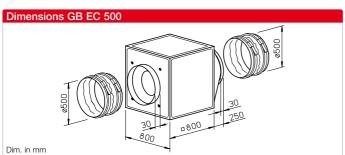
GB-RA Ref. no. 09418

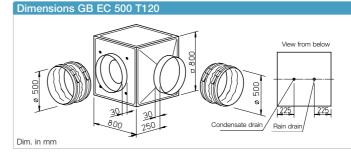
References **Page** Universal control system, electronic controllers, 605 ff. Speed potentiometer











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.

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.

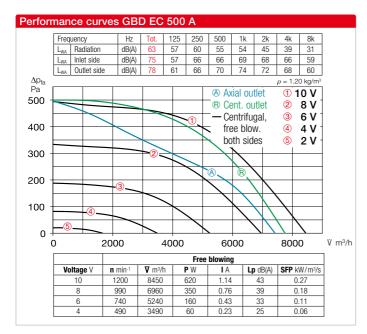
Motor protection

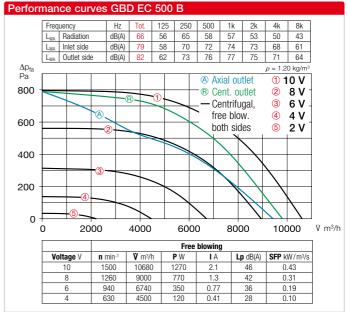
Integrated electronic temperature monitoring system for EC motor and electronics.

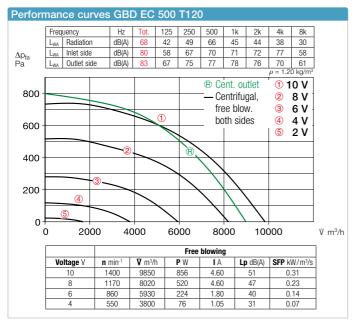
Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.		ersal system	Flush-m		tentiomete Surface-	r -mounted
		mm	Ÿ m³/h	min-1	dB(A) in 4m	kW	А	No.	+°C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Three-phase cur	rent, 3~,	400 V, 50/6	60 Hz, EC m	otor, protec	tion category	/ IP54										
GBD EC 500 A	05818	500	8450	1200	43	0.95	1.60	1415	50	80.5	EUR EC1)	2) 01347	PU 241)	01736	PA 241)	01737
GBD EC 500 B	05813	500	10680	1500	46	2.00	3.14	1415	60	82.0	EUR EC1)	2) 01347	PU 241)	01736	PA 241)	01737
>>> T120 Three-	phase cu	ırrent, 3~, 4	00 V, 50/60	Hz, EC mot	or, protectio	n category II	P54									
GBD EC 500 A T1	20 06477	500	9850	1400	51	1.45	2.4	1214.1	120	96.0	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).









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
- 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
 the performance curve.

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 EC 500 Ref. no. 05640

Weather protection cover for protected outdoor installation.

GB-WSD EC 500 Ref. no. 05749

Special accessories

ondensate tray with drain

connectors (central) for duct/hose connection.

GB-KW EC 500 Ref. no. 05645 (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).

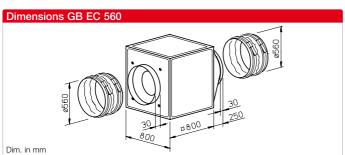
GB-RA Ref. no. 09418

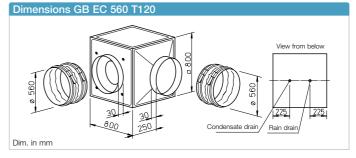
■ References Page
Universal control system,
electronic controllers,
Speed potentiometer 605 ff.











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.

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.

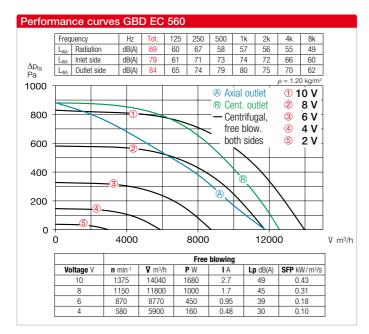
Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Univ control		Flush-m		entiometer Surface-	
		mm	Ÿ m³/h	min ⁻¹	dB(A) in 4m	kW	А	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Three-phase cu	Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP54															
GBD EC 560	05814	560	14040	1375	49	2.80	4.30	1415	50	83.0	EUR EC1)	²⁾ 01347	PU 241)	01736	PA 241)	01737
>>> T120 Three	-phase cu	ırrent, 3~, 4	00 V, 50/60	Hz, EC mot	or, protectio	n category II	P54									
GBD EC 560 T12	20 06481	560	12100	1400	5	2.30	3.60	1214.1	120	102.0	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).





Power control

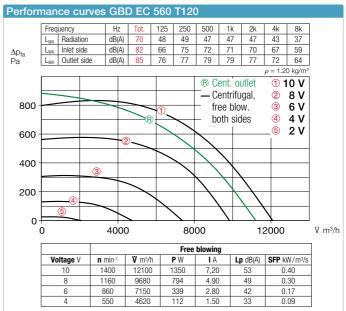
Continuously variable speed control with internal (delivery) or external potentiometer or continuously variable speed regulation with universal control system (see table).

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 powerOutlet 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 the performance curve.



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 560 Ref. no. 05626

Weather protection grille for outlet-side coverage. GB-WSG 560 Ref. no. 05640

Weather protection cover for protected outdoor installation.

GB-WSD 560 Ref. no. 05749

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 560 Ref. no. 05645 (a condensate tray with condensate drain is included in delivery for GB EC T120).

of r GB EC T120 series

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

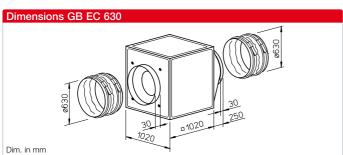
GB-RA Ref. no. 09418

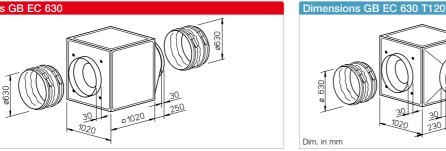
■ References	Page
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Accessory details Universal control system, electronic controllers, speed potentiometer	











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
- 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 compo-
- 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

Condensate drain

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

Rain drain

Drive

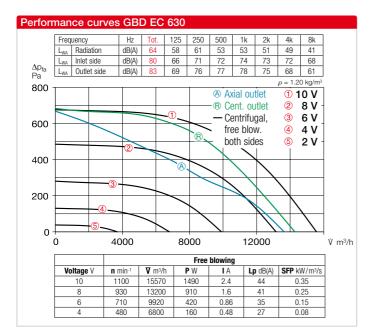
Energy-saving, speed-controllable EC external rotor motor in protection category IP54 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.		ersal system		Speed pot nounted	tentiometer Surface-	r mounted
		mm	Ÿ m³/h	min ⁻¹	dB(A) in 4m	kW	Α	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Three-phase cu	hree-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP54															
GBD EC 630	05815	630	15570	1100	44	2.49	3.87	1415	60	113.0	EUR EC1	01347	PU 241)	01736	PA 24 ¹⁾	01737
SST120 Three	e-phase cu	rrent, 3~, 4	00 V, 50/60	Hz, EC mot	or, protectio	n category II	P54									
GBD EC 630 T12	20 06485	630	15300	1350	54	3.60	5.50	1214.1	120	112.0	EUR EC1	²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735





Power control

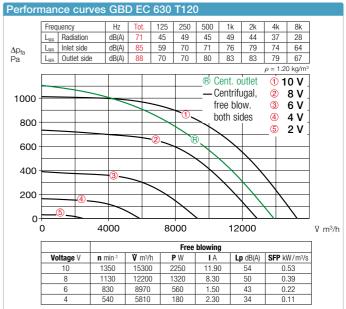
Continuously variable speed control with internal (delivery) or external potentiometer or continuously variable speed regulation with universal control system (see table).

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
- 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
 the performance curve.



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 630 Ref. no. 05626

Weather protection grille for outlet-side coverage. GB-WSG 630 Ref. no. 05641

Weather protection cover for protected outdoor installation.
GB-WSD 630 Ref. no. 05749

Special accessories

onnectors (central) for duct/hose connection.

GB-KW EC 630 Ref. no. 05646 (a condensate tray with condensate drain is included in delivery for GB EC T120).

of for GB EC T120 series

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

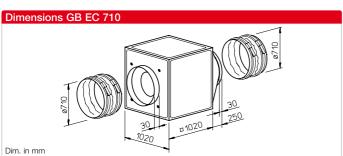
GB-RA Ref. no. 09418

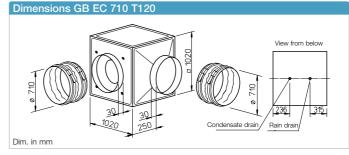
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Accessory details	Page
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Universal control system electronic controllers, speed potentiometer	- 3 -











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

tion 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.

Self-supporting frame construc-

Impeller

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

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.

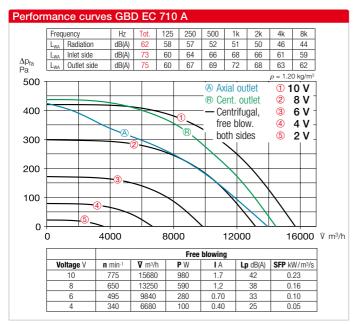
Motor protection

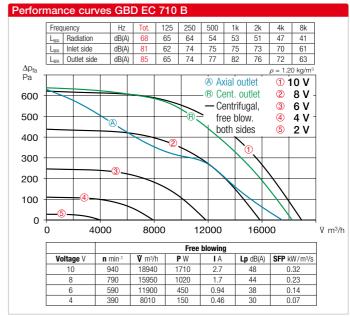
Integrated electronic temperature monitoring system for EC motor and electronics.

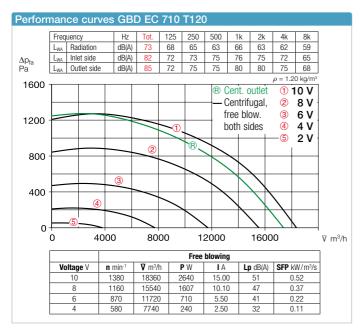
Туре		Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.		ersal system		Speed por nounted		r -mounted
		mm	Ÿ m³/h	min-1	dB(A) in 4m	kW	Α	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Three-phase cur	rent, 3~,	400 V, 50/6	60 Hz, EC m	otor, protec	tion category	/ IP54										
GBD EC 710 A	05816	710	15680	775	42	1.57	2.53	1415	60	117.0	EUR EC1	01347	PU 241)	01736	PA 241)	01737
GBD EC 710 B	05819	710	18940	940	48	2.78	4.30	1415	60	121.0	EUR EC1	²⁾ 01347	PU 241)	01736	PA 241)	01737
>>> T120 Three-	phase cu	ırrent, 3~, 4	00 V, 50/60	Hz, EC mot	tor, protectio	n category II	P54									
GBD EC 710 T12	0 06488	710	18360	1380	51	4.63	7.80	1214.1	120	207.0	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).









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
- 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
 the performance curve.

Special accessories

onnectors (central) for duct/hose connection.

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

Vibration dampers for indoor installation. 1 set = 4 pcs.

SDD-U Ref. no. 05627

of r GB EC 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. 05741

1161. 110. 03741

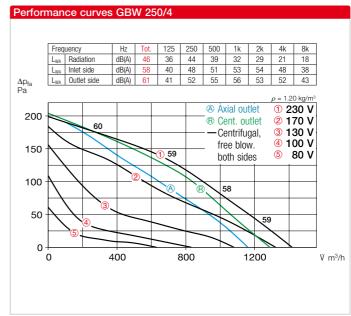
Weather protection cover for protected outdoor installation.

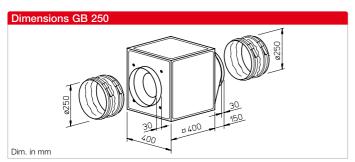
GB-WSD 710 Ref. no. 05750

■ References Page
Universal control system,
electronic controllers,
Speed potentiometer 605 ff.









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 steel with backward curved blades on galvanised steel plate, 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 in protection category

Ball bearing mounted, radio interference-free.

Electrical connection

Standard terminal box (IP54) on motor.

Motor protection

Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Power control

Through voltage reduction using 5-step transformer or electronically speed-controllable. Performance levels are shown in the performance curve as an example.

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 cover and grille (accessories).

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

Vibration dampers for indoor installation. 1 set = 4 pcs.

SDD-U Ref. no. 05627

Wall bracket for wall installation.

GB-WK 250 Ref. no. 05625

Weather protection grille for outlet-side coverage.

GB-WSG 250 Ref. no. 05637

Weather protection cover for protected outdoor installation. **GB-WSD 250** Ref. no. 05746

Condensate tray with drain connectors (central) for duct/hose connection.

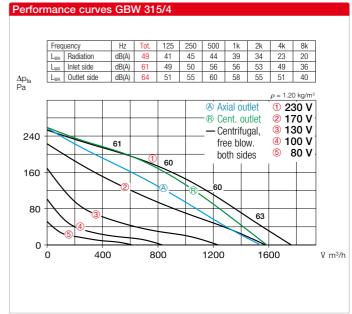
GB-KW 250 Ref. no. 05642

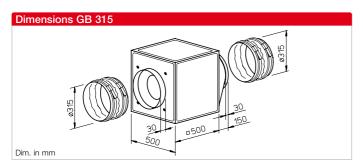
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Туре	Ref. no.	Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current co at rated voltage	in control mode	Wiring diagram	Maxim flow te Rat. vol.			Transformer spee 5-step without m tion circuit b	otor protec-	
		Ÿ m³/h	min ⁻¹	dB(A) in 4m	kW	А	Α	No.	+ °C	+ °C	kg	Туре	Ref. no.	
Alternating c	urrent, 1~,	230 V, 50 H	z, Capacitor	motor, prote	ection catego	ry IP44								
GBW 250/4	05509	1410	1340	26	0.095	0.44	0.44	923	70	70	18.0	TSW 1.5	01495	









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 steel with backward curved blades on galvanised steel plate, 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 in protection category IP44.

Ball bearing mounted, radio interference-free.

Electrical connection

Standard terminal box (IP54) on motor.

Motor protection

Through built-in thermal contacts wired in series to the winding, automatic deactivation and reactivation after cooling.

Power control

Through voltage reduction using 5-step transformer or electronically speed-controllable. Performance levels are shown in the performance curve as an example.

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 cover and grille (accessories)

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

Vibration dampers for indoor installation. 1 set = 4 pcs.

SDD-U Ref. no. 05627

Wall bracket for wall installation.

GB-WK 315 Ref. no. 05625

Weather protection grille for outlet-side coverage.

GB-WSG 315 Ref. no. 05638

Weather protection cover for protected outdoor installation.

GB-WSD 315 Ref. no. 05747

Condensate tray with drain connectors (central) for duct/hose connection.

GB-KW 315 Ref. no. 05643

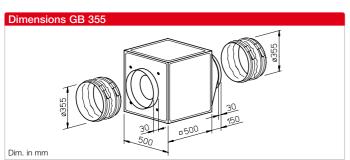
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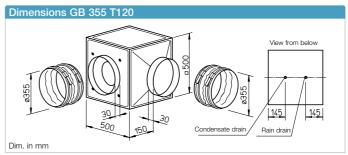
Туре	Ref. no.	Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current co at rated voltage	nsumption in control mode	Wiring diagram		flow temp. at		Transformer spee 5-step without m tion circuit b	otor protec-	
		Ÿ m³/h	min-1	dB(A) in 4m	kW	А	А	No.	+ °C	+ °C	kg	Туре	Ref. no.	
Alternating of	current, 1~,	230 V, 50 H	z, Capacitor	motor, prote	ection catego	ry IP44								
GBW 315/4	05510	1760	1230	29	0.123	0.55	0.55	923	55	55	31.0	TSW 1.5	01495	











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 on galvanised steel plate (aluminium impellers for GB T120), directly driven. Energy-efficient with low noise emission.

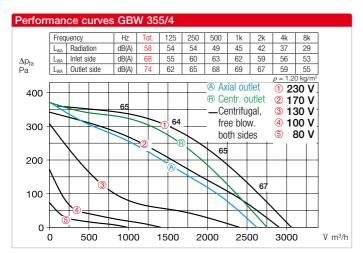
Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 6.3.

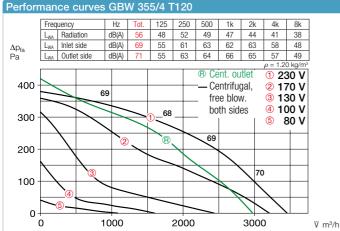
Drive

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

Туре		Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current co at rated voltage	in control mode	Wiring diagram	temperature at net Rat. vol. Control aprx.				tor prot.	roller 5-ste without m circuit b	otor prot.	break. fo ting built-	rot. circ. or connec- in thermal ntacts
		V m³/h	min ⁻¹	dB(A) in 4m	kW	Α	А	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Alternating curr	ent, 1~,	230 V, 50 Hz	z, Capacitor	motor, prote	ection catego	ry IP54											
GBW 355/4	05511	3060	1375	38	0.29	1.47	1.90	864	60	60	32.0	MWS 3	01948	TSW 3.0	01496	MW ¹⁾	01579
Two-speed, thro	ee-phase	current mo	tor, 3~, 400	V, 50 Hz, ∀/	/△ connectio	n, protectio	n category II	P54									
GBD 355/4/4	05512	2850/3100	1230/1405	34	0.25/0.34	0.41/0.75	0.75	867	55	55	35.0	RDS 1	01736	TSD 1.5	01737	MD	05849
>>> T120 Altern	ating cu	rrent, 1~, 23	30 V, 50 Hz,	Capacitor m	otor, protect	ion category	/ IP54										
GBW 355/4 T12	0 05770	3460	1340	36	0.32	1.55	1.75	935	120	120	38.0	MWS 3	01948	TSD 3.0	01496	MW ¹⁾	01579
>>> T120 Two-s	speed, th	ree-phase c	urrent moto	or, 3~, 400 V,	, 50 Hz, ∀/∆	connection,	, protection o	category II	P54								
GBD 355/4/4 T12	20 05771	2990/3470	1100/1360	36	0.22/0.33	0.40/0.75	0.75	947	120	120	38.0	RDS 1	01736	TSD 0.8	01500	MD	05849







■ Electrical connection

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

Motor protection

With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker.

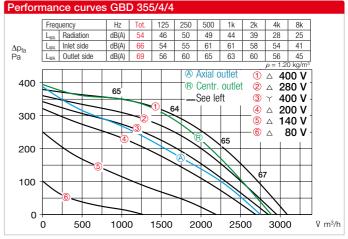
Power control

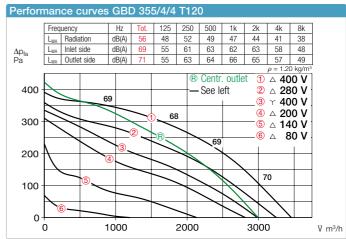
All types are speed-controllable using voltage reduction by means of transformer (accessories). The 3~ types can also be operated at two speeds using a Y/\(\Delta\) switch or motor protection circuit breaker M4. Performance levels are shown in the performance diagram.

Noise

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

- □ 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 355 Ref. no. 05625

Weather protection grille for outlet-side coverage.

GB-WSG 355 Ref. no. 05638

Weather protection cover for protected outdoor installation.

GB-WSD 355 Ref. no. 05747

Speed switch and on/off switch for two-speed \curlyvee/\triangle switchable

three-phase current fans.

DS 2²⁾ Ref. no. 01351

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

Special accessories

onnectors (central) for duct/hose

connection. **GB-KW 355** Ref. no. 05643
(a condensate tray with condensate drain is included in delivery for

☐ for GB T120 series

GB T120).

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

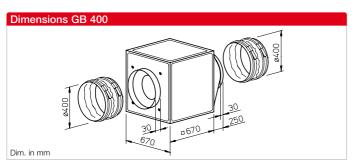
GB-RA Ref. no. 09418

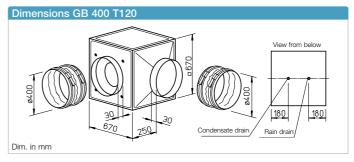
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Special features of the GB T120 series

- 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 on galvanised steel plate (aluminium impellers for GB T120), directly driven. Energy-efficient with low noise emission.

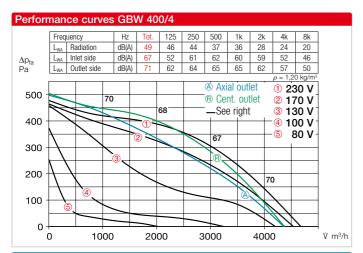
Dynamically balanced together with the motor in accordance with DIN ISO 21940-11 – quality grade 2.5.

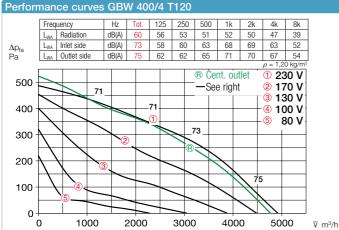
Drive

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

Туре		Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current co at rated voltage	nsumption in control mode	Wiring diagram	Max. a tempera Rat. vol.		Weight net aprx.		tor prot.	roller 5-ste without m circuit b	otor prot.	break. fo	rot. circ. or connec- in thermal
		V m³/h	min ⁻¹	dB(A) in 4m	kW	Α	А	No.	+ °C	+ °C	kg	Type	Ref. no.	Туре	Ref. no.	Type	Ref. no.
Alternating curi	rent, 1~,	230 V, 50 Hz	z, Capacitor	motor, prote	ection catego	ry IP54											
GBW 400/4	05513	4680	1400	29	0.51	2.45	3.26	864	60	60	52.0	MWS 5	01949	TSW 5.0	01497	MW ¹⁾	01579
Two-speed, thre	ee-phase	current mo	tor, 3~, 400	V, 50 Hz, ∀	/△ connectio	n, protectio	n category II	P54									
GBD 400/4/4	05514	4140/4650	1105/1355	28	0.31/0.44	0.51/0.88	0.92	867	60	60	52.0	RDS 2	01315	TSD 1.5	01501	MD	05849
≫T120 Alterr	nating cu	rrent, 1~, 23	30 V, 50 Hz,	Capacitor m	otor, protect	ion category	IP54										
GBW 400/4 T12	0 05772	4930	1280	40	0.54	2.50	2.50	935	120	100	62.0	MWS 3	01948	TSD 3.0	01496	MW ¹⁾	01579
∭T120 Two-s	speed, th	ree-phase c	urrent moto	or, 3~, 400 V	, 50 Hz, ∀/△	connection,	protection of	category II	P54								
GBD 400/4/4 T12	20 05773	4010/4870	975/1255	40	0.29/0.48	0.50/1.10	1.10	947	120	120	62.0	RDS 2	01315	TSD 1.5	01501	MD	05849







Electrical connection

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

Motor protection

With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker.

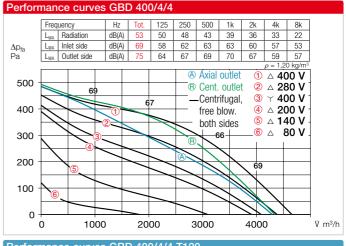
Power control

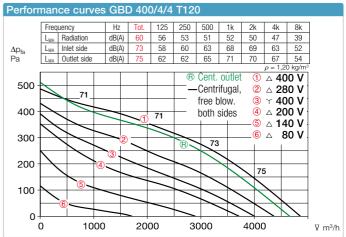
All types are speed-controllable using voltage reduction by means of transformer (accessories). The 3~ types can also be operated at two speeds using a Y/\(\Delta\) switch or motor protection circuit breaker M4. Performance levels are shown in the performance diagram.

Noise

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

- 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 400 Ref. no. 05626

Weather protection grille for outlet-side coverage.

GB-WSG 400 Ref. no. 05639

Weather protection cover for protected outdoor installation.

GB-WSD 400 Ref. no. 05748

Speed switch and on/off switch for two-speed Y/\triangle switchable

three-phase current fans.

DS 2²⁾ Ref. no. 01351

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

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 400 Ref. no. 05644 (a condensate tray with condensate drain is included in delivery for GB T120).

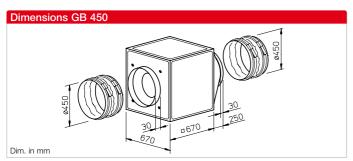
of r GB T120 series Rain drain for outdoor installation (Hole in casing base already provided). GB-RA Ref. no. 09418

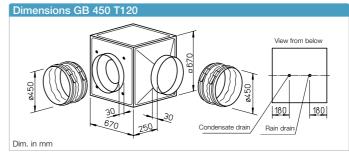
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Special features of the GB T120 series

- 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

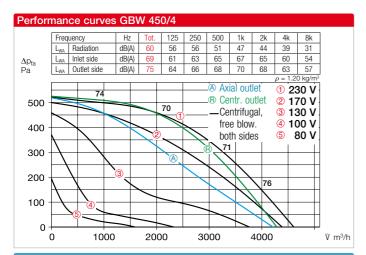
Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted, radio interference-free.

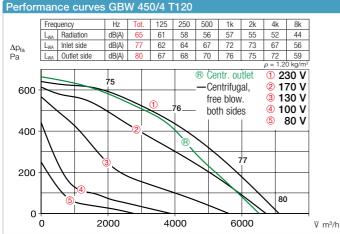
■ Electrical connection

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

Туре	Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current co at rated voltage	nsumption in control mode	Wiring diagram	temperature at Rat. vol. Control		Weight net aprx.	Sp with mo circuit b		withou prot.	ep It motor circuit aker	break. fo	orot. circ. or connec- in thermal ntacts
	Ÿ m³/h	min ⁻¹	dB(A) in 4m	kW	Α	Α	No.	+ °C	+ °C	kg	Туре	Ref. no.	Type	Ref. no.	Туре	Ref. no.
Alternating current,	1~, 230 V, 50 H	z, Capacitor	motor, prote	ection catego	ry IP54											
GBW 450/4 055	515 4600	1380	40	0.66	2.90	4.0	864	45	45	49.0	MWS 5	01949	TSW 5.	0 01497	MW¹)	01579
Two-speed, three-pl	nase current m	otor, 3~, 400	V, 50 Hz, ∀	/△ connectio	n, protectio	n category	IP54									
GBD 450/4/4 055	516 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~, 2	30 V, 50 Hz,	Capacitor m	otor, protect	ion category	y IP54										
GBW 450/4 T120 05	774 7110	1370	45	1.00	4.60	5.50	935	120	100	74.0	MWS 7.5	5 01950	TSD 7.	5 01596	MW ¹⁾	01579
≫T120 Two-speed	l, three-phase	current moto	or, 3~, 400 V	, 50 Hz, ∀/△	connection	, protection	category	IP54								
GBD 450/4/4 T120 05	775 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







Motor protection

With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker.

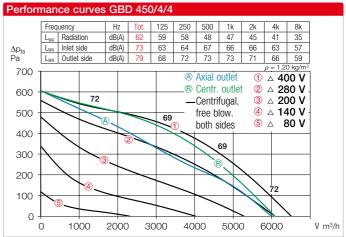
Power control

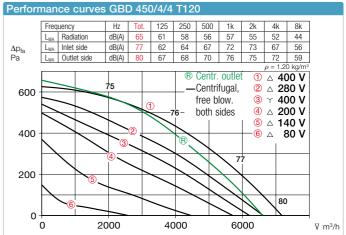
All types are speed-controllable using voltage reduction by means of transformer (accessories). The 3~ types can also be operated at two speeds using a Y/\(\Delta\) switch or motor protection circuit breaker M4. Performance levels are shown in the performance diagram.

Noise

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

- □ 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 2²⁾ Ref. no. 01351

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

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 450 Ref. no. 05644 (a condensate tray with condensate drain is included in delivery for GB T120).

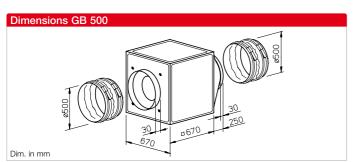
of r GB T120 series Rain drain for outdoor installation (Hole in casing base already provided). GB-RA Ref. no. 09418

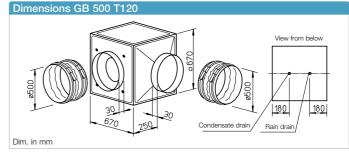
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Special features of the GB T120 series

- 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 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

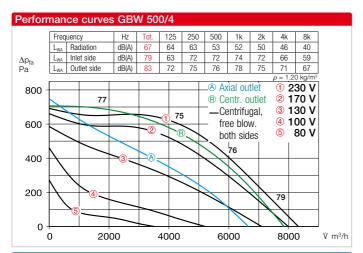
Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted, radio interference-free.

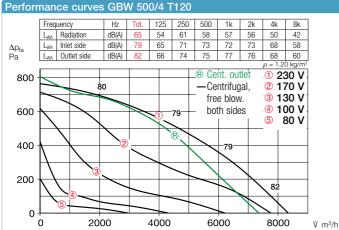
Electrical connection

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

Туре		Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current co at rated voltage	in control mode	Wiring diagram	Max. air flow temperature at Rat. vol. Control		Weight net aprx.	with mo		roller 5-ste without m circuit b	otor prot.	break. fo	orot. circ. or connec- in thermal ortacts
		V m³/h	min ⁻¹	dB(A) in 4m	kW	А	А	No.	+ °C	+ °C	kg	Type	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Alternating current, 1~, 230 V,			z, Capacitor	motor, prote	ection catego	ry IP54											
GBW 500/4	05517	8320	1400	47	1.50	6.70	9.60	865	65	55	61	MWS 1	0 01946	TSW 10	01498	MW ¹⁾	01579
Two-speed, the	ree-phase	current mo	tor, 3~, 400	V, 50 Hz, ∀	∕△ connectio	n, protectio	n category II	P54									
GBD 500/4/4	05518	8000/9200	1075/1340	45	0.97/1.45	1.60/2.80	2.90	867	50	50	57	RDS 7	01578	TSD 5.5	01503	MD	05849
ST120 Alter	nating cu	rrent, 1~, 23	30 V, 50 Hz,	Capacitor m	otor, protect	ion category	/ IP54										
GBW 500/4 T12	20 05776	8345	1340	45	1.40	6.1	7.0	301	120	100	75	MWS 1	0 01946	-		-	_
∭T120 Two-	speed, th	ree-phase c	urrent moto	r, 3~, 400 V,	, 50 Hz, ∀/△	connection,	, protection o	category II	P54								
GBD 500/4/4 T1	20 05777	7320/8350	1120/1370	45	0.95/1.30	1.60/2.50	2.5	947	120	110	75	RDS 4	01316	TSD 3.0	01502	MD	05849







Motor protection

With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker.

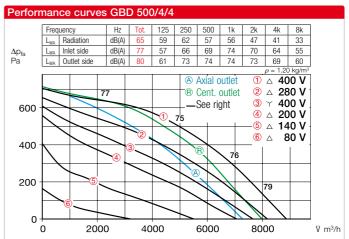
Power control

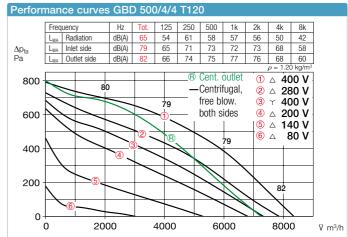
All types are speed-controllable using voltage reduction by means of transformer (accessories). The 3~ types can also be operated at two speeds using a Y/\(\Delta\) switch or motor protection circuit breaker M4. Performance levels are shown in the performance diagram.

Noise

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

- □ 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 500 Ref. no. 05626

Weather protection grille for outlet-side coverage. GB-WSG 500 Ref. no. 05639

Weather protection cover for

protected outdoor installation. **GB-WSD 500** Ref. no. 05748

Speed switch and on/off switch for two-speed Y/\triangle switchable

three-phase current fans. **DS 2**²⁾ Ref. no. 01351

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

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 500 Ref. no. 05644 (a condensate tray with condensate drain is included in delivery for GB T120).

of for GB T120 series Rain drain for outdoor installation (Hole in casing base already provided).

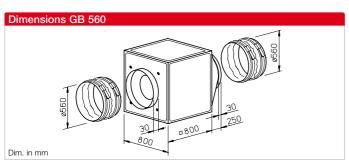
GB-RA Ref. no. 09418

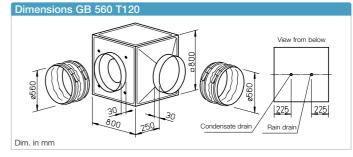
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Special features of the GB T120 series

- 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 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

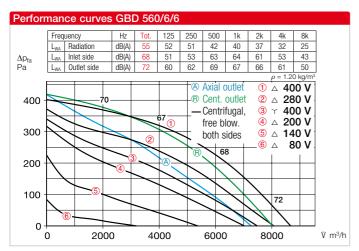
Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted, radio interference-free.

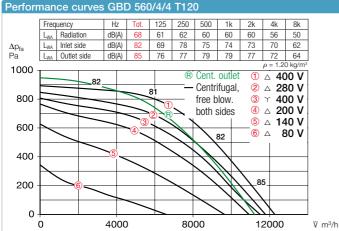
■ Electrical connection

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

Туре		Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current con at rated voltage	in control mode	Wiring diagram	Max. a temper Rat. vol.		Weight net aprx.			troller 5-step without motor prot. circuit breaker		break. for	orot. circ. or connec- i-in thermal ntacts
		Ÿ m³/h	min ⁻¹	dB(A) in 4m	kW	Α	Α	No.	+ °C	+ °C	kg	Type	Ref. no.	Туре	Ref. no.	Type	Ref. no.
Alternating cur	Alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP54																
GBW 560/4	05508	9120	1410	45	1.83	7.93	11.1	865	45	45	92	MWS 1	0 01946	TSW 10	01498	MW ¹⁾	01579
Two-speed, thr	ee-phase	current mot	tor, 3~, 400	V, 50 Hz, ∀/∠	\triangle connection	, protection	category II	P54									
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	01578	TSD 3.0	01502	MD	05849
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
"T120 Two-speed, three-phase current motor, 3~, 400 V, 50 Hz, Y/△ connection, protection category IP54																	
GBD 560/4/4 T1	20 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







Motor protection

With external thermal contacts on the terminal block, which must be wired to the motor protection circuit breaker.

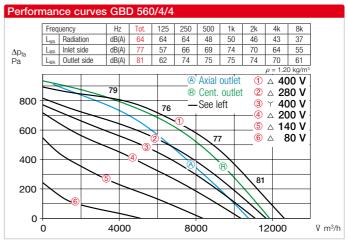
Power control

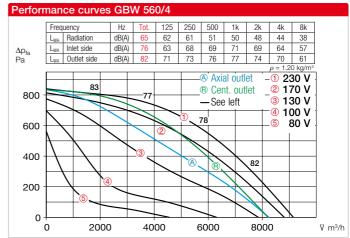
All types are speed-controllable using voltage reduction by means of transformer (accessories). The 3~ types can also be operated at two speeds using a Y/△ switch or motor protection circuit breaker M4. Performance levels are shown in the performance diagram.

Noise

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

- □ 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 560 Ref. no. 05626

Weather protection grille for outlet-side coverage.

GB-WSG 560 Ref. no. 05640

Weather protection cover for protected outdoor installation.

GB-WSD 560 Ref. no. 05749

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

three-phase current fans.

DS 2²⁾ Ref. no. 01351

Special accessories

onnectors (central) for duct/hose connection.

GB-KW 560 Ref. no. 05645 (a condensate tray with condensate drain is included in delivery for GB T120).

of for GB T120 series
Rain drain for outdoor installation
(Hole in casing base already
provided).
GB-RA
Ref. no. 09418

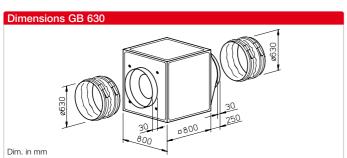
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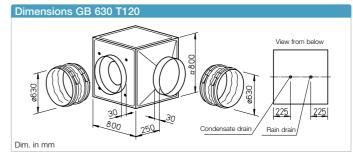
²⁾ required motor protection circuit breaker: Type MD, No. 05849.











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

GB 630 T120

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

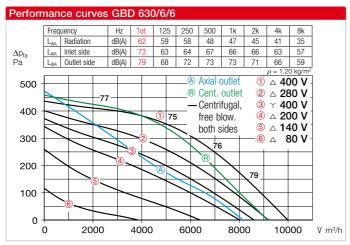
Through maintenance-free, speed-controllable external rotor motor or IEC standard motor in protection category IP54. Ball bearing mounted, radio interference-free.

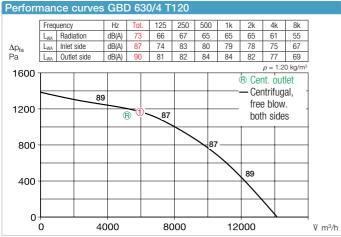
■ Electrical connection

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

Туре		Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current con at rated voltage	in control mode	Wiring diagram				with motor prot.		without motor prot		ting built-in thermal contacts	
		V m³/h	min ⁻¹	dB(A) in 4m	kW	Α	Α	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Two-speed, thr	ee-phase	current mot	or, 3~, 400	V, 50 Hz, ∀/∠	△ connection	n, protection	category II	P54									
GBD 630/6/6	05524	8600/9990	720/890	42	0.64/0.93	1.08/1.88	2.03	867	60	60	86	RDS 4	01316	TSD 5.5	01503	MD	05849
GBD 630/4/4	05523	12950/14430	1130/1380	51	2.40/3.45	4.10/6.20	7.20	867	75	50	105	RDS 11	01332	TSD 11.0	01513	MD	05849
T120 Three-phase current motor, 3~, 400 V, 50 Hz, protection category IP54																	
GBD 630/4 T12	0 05779	14200	1445	53	4.40	8.0	_	499	120	_	105	_	_	_	-	MD	05849







Frequency L_{wA} Radiation 57 54 dB(A) 68 57 56 50 44 L_{WA} Inlet side 72 77 dB(A) 76 75 75 72 66 73 Δp_{fa} 80 75 L_{WA} Outlet side 81 82 82 68 dB(A) Axial outlet 1 A 400 V 82 ® Cent. outlet ② △ 280 V 1000 -See left ③ Y 400 V 4 △ 200 V 80 800 ⑤ △ 140 V **⑥** △ 80 V 600 400 85 200 n 4000 8000 12000 16000 V m3/h

Performance curves GBD 630/4/4

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). The 3∼ types can also be operated at two speeds using a Y/∆ switch or motor protection circuit breaker M4; 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.

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 630 Ref. no. 05626

Weather protection grille for outlet-side coverage.

GB-WSG 630 Ref. no. 05640

Weather protection cover for protected outdoor installation.

GB-WSD 630 Ref. no. 05749

Special accessories

ondensate tray with drain

connectors (central) for duct/hose connection. **GB-KW 630** Ref. no. 05645

(a condensate tray with condensate drain is included in delivery for GB T120).

Speed switch and on/off switch for two-speed $\ \ \ '/\triangle$ switchable three-phase current fans.

DS 2¹⁾ Ref. no. 01351

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

of r GB T120 series

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

GB-RA Ref. no. 09418

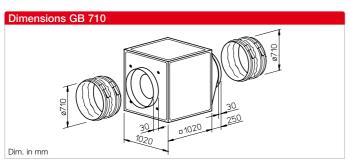
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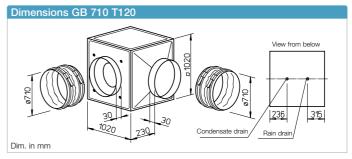












Special features of the GB T120 seriesT120

- 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		Max. flow rate	Rated speed	Case-rad. sound pressure	Power consumption	Current con at rated voltage	in control mode	Wiring diagram	tempera		Weight net aprx.			troller 5-step without motor prot. circuit breaker		break. fo	orot. circ. for connec- t-in thermal ntacts
		V m³/h	min ⁻¹	dB(A) in 4m	kW	А	А	No.	+ °C	+ °C	kg	Type R	ef. no.	Туре	Ref. no.	Type	Ref. no.
Three-phase cu	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, thre	ee-phase	current mot	or, 3~, 400	V, 50 Hz, ∀/.	△ connection	, protection	category I	P54									
GBD 710/6/6	05525	16500/19000	690/890	46	1.55/2.45	2.90/4.70	4.70	867	50	50	157	RDS 7	01578	TSD 7.0	01504	MD	05849
SST120 Three	T120 Three-phase current motor, 3~, 400 V, 50 Hz, prote																
GBD 710/4 T120	05756	18200	1465	55	5.89	10.4	-	499	120	-	188	-		-	-	MD	05849