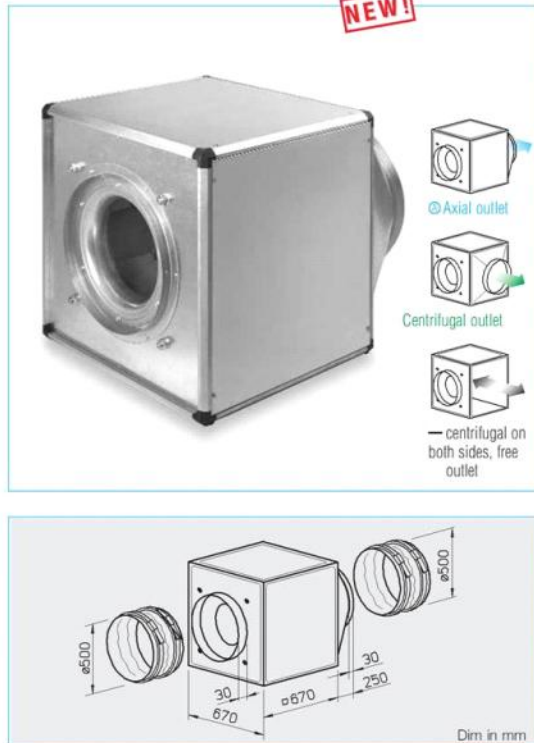


500 mm ø GigaBox centrifugal fan



■ Specification

■ Casing

Self-supporting frame construction made from aluminium hollow section. Double skinned, 20 mm strong side panel made from galvanised steel plate, soundproof and heat insulated through coating with non flammable mineral wool. Intake with mouth for ideal inlets as well as connectors and flexible sleeve for installation to ducts. Extract with spigot (from rectangular to circular) for low-loss escape and flexible sleeve for prevention of impact sound transfer. Simple positioning through load hooks as standard.

□ Impeller

Free-wheeling centrifugal high performance impeller with backwards curved polymer blades made from galvanised steel plate, direct powering. Energy-efficient at low noise development. It is dynamical together with the motor to DIN ISO 1940 T.1 – quality grade 2.5.

□ Motor

Maintenance-free external rotor motor in protection to IP 54. Thermal overload protection through built-in thermo contacts. Ball bearings and radio interference-free.

□ Electrical connection

Terminal box on the motor as standard, protection to IP 54.

□ Motor protection

Motors have thermal contacts wired to the terminal block and must be connected to a motor protection unit.

□ Speed control

All models are speed controllable using voltage reduction with transformer controller. The 3 ph.-models can operated on two speed controllers through Y/Δ wiring (accessories to DS 2 or full motor protection unit M4). The voltage steps are given in the performance curve.

□ Mounting

Mounting position in any position and flexible installation through five possible discharge directions of the spigot. For wall mounting the wall bracket has to be used (accessory). It is possible to set up an outlet water

repellent roof and grille (accessory).

■ Sound levels

Above the performance curves the sound power levels are given in total and spectrum for:

- sound level case breakout
- sound level intake
- sound level extract

Within the performance curve the sound power level (on intake) is given for the transformer speed steps. In the table below there is also to find

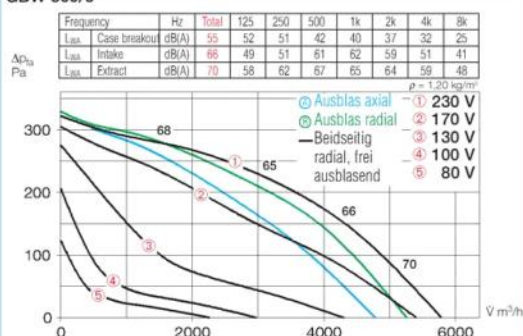
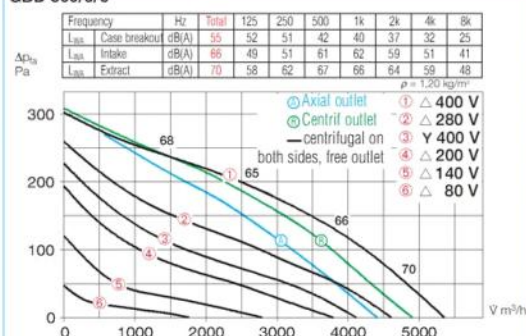
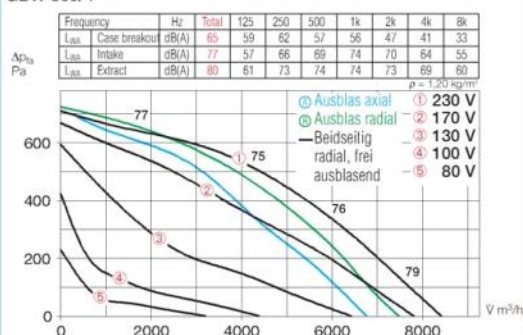
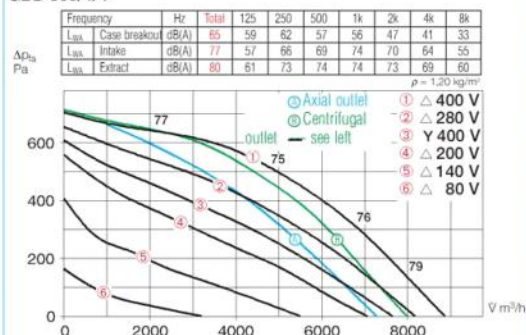
- case breakout level at 4 m (free-field conditions).

Type	Ref.No.	Air flow volume (FID)	R.P.M.	Sound press. level case breakout	Motor powering	Current full load	Current speed controlled	Wiring diagram	Maximum air flow temperature full load	Nominal weight (net)	5 step transformer controller with motor protect.unit	Full motor protection unit using the thermal contacts
		V m³/h	min⁻¹	dB(A) at 4 m	KW	A	A	No.	+°C	+°C	Type Ref.No.	Type Ref.No.
1 Phase motor, 1–, 230 V, 50 Hz, capacitor motor, protection to IP 54												
GBW 500/6	5519	5760	880	35	0,52	2,30	2,60	864	45	45	MWS 3 1948	TSW 3,0 1496 MW ¹⁾ 1579
GBW 500/4	5517	8400	1350	45	1,38	6,40	8,20	865	65	55	MWS 10 1946	– – – –
2 speed motor, 3 Phase motor, 3–, 400 V, 50 Hz, Y/Δ-motor, protection to IP 54												
GBD 500/6/6	5520	4500/5330	545/790	35	0,23/0,42	0,38/0,75	0,78	867	45	45	RDS 1 1314	TSD 0,8 1500 M4 ²⁾ 1571
GBD 500/4/4	5518	8000/8850	1075/1340	45	0,97/1,45	1,60/2,80	2,90	867	50	50	RDS 7 1578	TSD 5,5 1503 M4 ²⁾ 1571

¹⁾ incl. operation switch

²⁾ incl. operation and reversing switch

³⁾ required full motor protection unit: model MD, No. 5849

GBW 500/6

GBD 500/6/6

GBW 500/4

GBD 500/4/4

Accessory

Wall bracket for wall mounting.
GB-WK 500 Ref.No. 5626

Water repellent extract grille.
GB-WSG 500 Ref.No. 5639

Water repellent roof outlet.
GB-WSD 500 Ref.No. 5748

Condensate tray with spigot for duct/ hose connection.
GB-KW 500 Ref.No. 5644

Reversing and on/off switch for double-rotating Y/Δ-switchable 3 Phase fans.

Type DS 2³⁾ Ref.No. 1351

Information Pages

Design of systems, acoustic 12 ff.
 General techn. information, speed control 17 ff.

Accessory-Details Pages

Speed controller and full motor protection unit 348 ff.