

# Appendix B: Extraction Unit

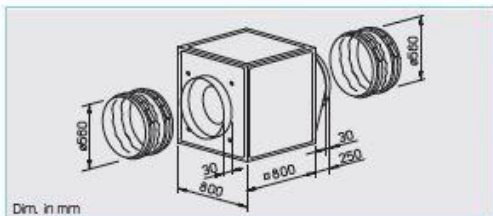
**Helios**



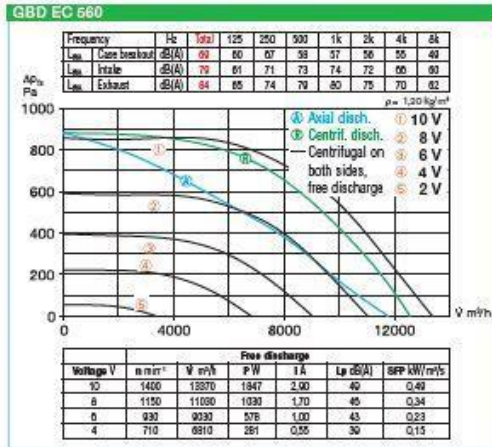
GigaBox EC centrifugal fans 560 mm ø

**GB EC**  
Arbitrary installation position and assembly in five possible discharge directions.

- ⊗ Axial disch.
- ⊙ Centrif. disch.
- Centrifugal on both sides, free discharge



- **Specification**
- **Casing**  
Self-supporting frame construction made from hollow aluminium profiles. Lined with 20 mm thick double-walled side panels made from galvanised sheet steel, sound and thermally insulated with flame-retardant mineral wool. Intake cone for ideal airflow, spigot and flexible connector for duct connection. With discharge adapter (from square to circular) on the pressure side for low-loss discharge and flexible sleeve to reduce vibration transmission. Simple positioning with standard crane hooks.
- **Impeller**  
Free-running backward curved centrifugal impeller from aluminium, direct driven. Energy efficient with a low noise development. Dynamically balanced together with the motor to DIN ISO 1940 Pt.1 – class 2.5.
- **Motor**  
Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 54. With ball bearings, maintenance-free and interference-free.
- **Electrical connection**  
Standard terminal box (IP 54) is mounted with a permanently attached cable.
- **Motor protection**  
Integrated electronic temperature monitoring for EC motor and electronics.
- **Speed control**  
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.



**65% Saving\***  
\* with speed control

EC BOX Fans

- **Installation**  
Arbitrary installation position and flexible assembly by five possible discharge directions via the discharge adapter. For wall mounting the wall bracket (accessories) has to be used. Outdoor installation is possible using outdoor cover hood and external weather louvers (accessories).
- **Sound levels**  
Total sound power levels and the spectrum figures in dB(A) are given for:  
– Sound level case breakout  
– Sound level intake  
– Sound level exhaust  
In the table below as well as underneath the performance curve you can find additionally the sound pressure levels at 4 m (free field conditions).
- **Accessories**  
**Anti vibration mounts** for installation indoors. 1 set = 4 pcs.  
**SDD-J** Ref. no. 5627  
**Wall bracket** for wall mounting.  
**GB-WK 560** Ref. no. 5626  
**External weather louvre** to cover exhaust opening.  
**GB-WSG 560** Ref. no. 5640  
**Outdoor cover hood** for protected outdoor installation.  
**GB-WSD 560** Ref. no. 5749  
**Condensate collector** with condensate spigot (centre) for pipe connection.  
**GB-KW 560** Ref. no. 5645
- **Accessory details** Page  
Universal control system, electronic controller, speed-potentiometer 539 on

Type	Ref. no.	Connection Ø	Air flow volume (FID)	R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system	Speed-potentiometer flush	Speed-potentiometer surface	
Three phase motor, 3-, 400 V, 50/60 Hz, EC motor, protection to IP 54														
GBD EC 560	5614	560	13370	1400	49	2.60	4.30	976	50	83.0	EUR EC <sup>1) 2)</sup>	PU 24 <sup>1)</sup>	1736 PA 24 <sup>1)</sup>	1737

1) several EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-slip speed switch (SLUSA, No. 4266/4267), see accessories