



TYPICAL DUCT & EXTRACTOR LAYOUT FOR RESTAURANT

• Helios fan - Overview

The Gigabox GBW 450/4 comes complete with discharge adaptor and flexible connector. It is single phase (240V) and speed controllable.

All Helios fans are a very high quality product with a huge reputation for reliability. See the data-sheet links below for fan curves & accessories available.

This is an acoustically lined cubic ventilation box complete with intake and extract spigots and with flexible connectors to reduce vibration transmission. Variable applicable side panels can be arranged to suit almost any installation requirement. Simple positioning by use of standard crane hooks. External use possible with weather protection hood accessory.

Self-supporting frame construction made from hollow aluminum profiles, lined with 20 mm thick, double-walled side panels made from galvanised sheet steel.

Sound and thermally insulated with flame-retardant acoustic wool. The casing panels can be replaced as required with accessories, such as the external weather louvre and condensate collector. Other accessories, wall bracket and outdoor cover hood are available.

Smooth running backward curved centrifugal impeller highly efficient with steel blades on galvanised steel disc, direct driven. Dynamically balanced together with the motor to DIN ISO 1940 Pt.1 - class 6.3

Single phase external rotor motor, maintenance-free. Speed controllable through voltage reduction, with thermal contacts wired in series with the windings which automatically reset. With sealed, low-noise ball bearings with long-term lubrication. Terminal box fitted on the motor (IP 54).

Voltage - 230V - 50 Hz
 Motor Power - 660W
 Max. duty - 4600 m³/h
 Motor Speed - 1380 rpm
 Full Load Current - 2.90 A
 Terminal Box IP Rating - 54
 Motor IP Rating - 54
 Max. temp. - 45 °C.
 Sound Pressure Breakout @ 4M - 40db(A)

• 2 x Silencer - Overview

450mm dia x 900mm long straight through silencer (generally reduces a fan noise level by 10 – 13dB (A)* Can be supplied to either bolt directly to any manufacturer of cased axial or with spigots to mount inline with ducting.

The addition of this silencer to a system will act in the same way a silencer does on a car, so if you've ever heard a car with no silencer fitted, this gives you an idea of the impact a silencer can have on a system.

Please Note — for a straight through silencer to work to have the maximum impact on a system, a silencer should be fixed either side of the fan, this will give 3 benefits to the overall noise level of the system.

1. System side (usually the noise level inside a building) noise level is reduced
2. Atmospheric side (usually the noise level outside a building) noise level is reduced
3. The breakout from the fan is reduced, this could be a big factor depending where the fan is fitted, such as a false ceiling in a classroom or office area.

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PROPOSED EXTRACTOR FAN AND
 DUCTING

Client: Mr Devendar Manly Singh

3 cm ACTUAL
 IF THE ABOVE DIMENSION DOES NOT MEASURE THREE CENTIMETERS (3 cm) EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES.

BY	REVISIONS	DATE

Date:	08/04/2021
Scale:	1:100
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Job No:	0344
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EXTRACTOR FAN