



CK Direct

15 Tresham Road

Orton Southgate

Peterborough

PE2 6SG

Project Title – 67 Whitfield Street

Project Address - 67 Whitfield Street London W1T 4DE

Scope of Report – Call out for a ventilation issue with dB level on the existing system

Client - Culinary Lab Limited

Date Issued – 02/09/2024

Prepared By - Simon Locke-Wheaton

Introduction

CK Direct have been instructed by Enzo Mirto to attend site at the 67 Whitfield Street premises to evaluate and produce a report of the installed extract system.

The report will detail and investigate the areas listed below in accordance with DW172 regulations and specifications.

There will be SEFR sheets included within the report to show the flow rates that are required against the equipment installed.

Investigation of System

Following the noise assessment conducted on 31st July 2024 and issued to CK Direct on 16th August 2024, we recommend the installation of extraction silencers within the extract ductwork located in the staff area adjacent to the office.

Additionally, we advise replacing the existing external grill, which is situated within the louvered fenced area, with a mesh end panel. This change will reduce the pressure (Pa) within the system, allowing the extract fan speed to be lowered. As a result, this will decrease the fan noise.

To	CK DIRECT
Attention	SIMON LOCKE-WHEATON
Project Title	67 Whitfield Street, Fitzrovia, LB Camden
Quote Ref.	50K-0824-516
Date	27/08/2024
Prepared by	Maizie O'Connor
Page	1 of 1

Technical Data

This quotation is valid for acceptance for 30 days and is subject to Acoustica Products Limited terms and conditions of sale. The products described below have parameters of recommended use and may be required to be positioned in certain configurations in relation to other equipment. Detailed specifications and Installation & Maintenance instructions are available on request, if in doubt we will be pleased to furnish the relevant data.

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2 Condor Way, Whitehall Industrial Estate
Essex, CO2 8JN
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Reference	Model	Air Flow Vol. m ³ /s	Pressure Drop (Pa)	Weight	Melinex	Static Insertion Loss (dB) at Octave Band Centre Frequency							
						63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Outlet Silencer	R02 4-600	0.800	15	24 kg	No	5	8	12	23	30	30	23	18

Notes

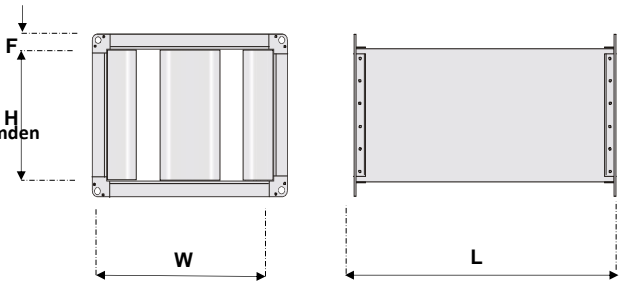
In order to achieve optimum performance, the ideal location of attenuators is inside the plantroom, adjacent to the penetration of the plant room structure. This ensures that noise breaking into the duct between the fan and the penetration is attenuated and also those noise levels in the ductwork outside the plantroom are at a minimum so that noise breakout is controlled. Where fans are not situated within a plantroom, attenuators should be fitted as close to the fan as possible, whilst allowing a suitable plenum space, in order to minimise noise breakout from the ductwork.

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*Full Technical Analysis
Available - Please Enquire*

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ELTA

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Reference	Model	Width (W)	Height (H)	Length (L)	Flange (F)	Bend	Melinex	Weight Each	Quantity	Notes
Outlet Silencer	R02 4	600mm	600mm	600mm	20mm	No	No	24 kg	1	

Notes
Silencers with dimensions over 1,500mm wide, 900mm high, 1500mm long may be manufactured in modules for assembly on site by the ductwork contractor.



Project Name:

Client:

Quote Number:

Item Reference:

Engineer:

Date:

23/08/2024

Item Quantity:

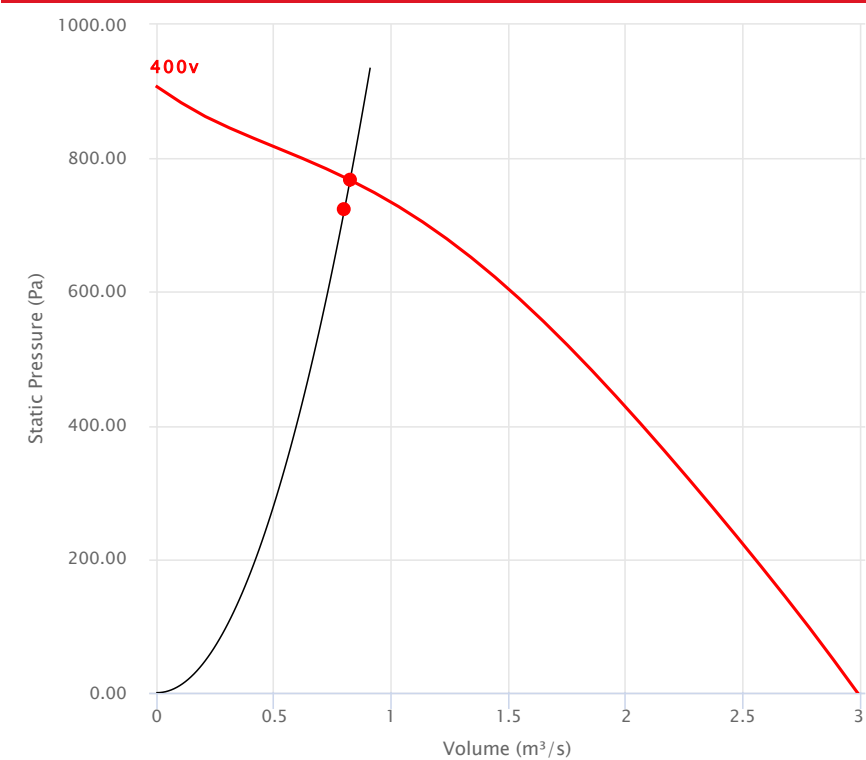
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GBD 560/4/4 AX GigaBox axial discharge box fan 2 Speed



Acoustic ventilation box with intake and extract spigots, with flexible connectors to reduce vibration transmission and variable applicable side panels to suit to structural conditions. Simple positioning by standard crane hooks. 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. Free-running backward curved centrifugal impeller from aluminium, direct driven. Energy efficient with low noise development. Dynamically balanced with the motor to DIN ISO 1940 Pt.1 - class 6.3 Totally enclosed, maintenance-free 3-phase external rotor motor, to be operated via delta-star connection for 2 speed steps, Speed controllable by voltage reduction or with Helios frequency inverter and sinus filter on all poles, thermal contact wired to the terminal box. Low-noise, long-lasting greased, sealed for life ball bearings. Mains supply via terminal box which is fitted externally on the motor as standard (IP 54).

Performance Chart



Product

Ref.No.	5521
Model Code	GBD 560/4/4 AX
Fan Size	560 mm
Temperature operation range	40 °C to 50 °C
Weight	90.0 kg

Performance

Requested Duty	0.800 m³/s @ 725 Pa (Static)
Actual Duty	0.823 m³/s @ 767 Pa (Static)
Fan Nominal Speed	1350 rpm
Specific Fan Power	2.88 W/l/s
Output Power	2.60 kW

Motor

Rating	2.60 / 1.70 kW
Poles	4
Motor Input Power	2.48 kWh
Electrical Supply	400v/3Ph/50Hz
Full Load Current	2.8 / 4.8 A
Starting Current	11.76 / 20.16 A

Sound

Sound Pressure Level		42 dB(A) at 3m							
Spectrum	Hz	Total	125	250	500	1k	2k	4k	8k
LwA Intake	dB(A)	76	56	65	68	73	69	63	54
LwA Extract	dB(A)	80	61	73	74	74	73	69	60
LwA Breakout	dB(A)	63	63	63	47	49	45	42	36

Dimension and Drawing

