

9 Brewhouse Yard

DA12 2EQ

Ventilation Statement



GOYA WORKS

21st Sep 2022

Project No: G0090



GOYA WORKS

DETAILS OF THE GEASE FILTER

1	Manufacturer's Name	Longar Industries LTD
2	Filter name and product code	Longar TYPE2 Baffle Filter
3	Dimensions of the filter	395x395x45mm
4	Nature of the filter media	Filters are manufactured with stainless steel 430 polished finish, MAX operating temp. 400°C
5	Manufacturer's recommendation of the frequency and type of maintenance of the pre filter	Filters should be cleaned by a trained operative either daily for heavy use or weekly for light use

DETAILS OF THE PRE-FILTER

6	Manufacturer's name	PurifiedAir
7	Filter name and product code/name	Bag Filter
8	Dimensions of the filter	610x610mm
9	Nature of the filter media	synthetic microfibres
10	Manufacturer's recommendation on the frequency and type of maintenance of the pre-filter	Replace it once every 4 months

CARBON FILTER OR OTHER ODOUR ABATEMENT METHOD

11	Unit 1 - Dimensions of the filter name	Carbon Filters
12	Total number of filter panels in the filter bed / lambs	3
13	Nature of the filter	Carbon
14	Dwell time of the gases in the filter compartment and the setting of the control at which this is achieved	0.2
15	Total mass of item expressed in kilograms	100kg
16	Unit 2 - Dimensions of the filter name	Odour Neutralizer ON100
17	Total number of filter panels in the filter bed / lambs	1
18	Nature of the filter	Gases
19	Dwell time of the gases in the filter compartment and the setting of the control at which this is achieved	0.2
20	Total mass of item expressed in kilograms	-
21	How to proposed to access the filter unit	From units access panels

22	Manufacturer`s name	Purified Air
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COOKER HOOD

23	The length the cooker hood overhangs the appliances	3800mm x 1100mm Stainless Steel
24	The face velocity at the cooker hood, expressed in metres per second	Canopy face area 4 m2 0.3 m/s face velocity
25	Dimensions of the opening of the cooker hood	3800x1100x300-600

SYSTEM OPERATION

26	The extract rate (expressed as m ³ /s) at the proposed rate of extract.	1 m ³ / s
27	The volume of the space to be ventilated in m ³	120m ³
28	The efflux speed at the flue terminal	15 m/s
29	The type of flue terminal to be fitted	Jet Cowl
30	Name and address of company to install system	N/A
31	Cleaning of washable grease filters. Frequency and method please describe.	Daily at least once of 2 day The filters should wash with warm soapy water
32	Frequency of inspection and replacement of the pre-filters please describe	Change filters every two weeks
33	Frequency of deep clean to fan and flue please describe.	Light use 12 months Moderate use 6 months Heavy use 4 months

NOISE

34	Specify the fan type, its sound power level and sound frequency characteristics and provide a manufacturer's specification sheet showing those values	Helios GBW560 - Lw Details Breakout 62 db Intake 76db Exhaust 82 db Sound press cage break out 38db in 4m
35	Describe how the fan and ducting will be isolated from the building	Duct work will be mounted on brackets, which will be fitted onto wall using anti vibration mounts. this will eliminate any vibration from the duct work to the building. Fan will also be fitted using anti vibration mounts and also there will be flexible connection between fan and duct work.

Available in two standard lengths C Series silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated liner. The central pod (code P) is an option to increase the insertion loss, however it will add resistance.

- Fits directly onto 560mm diameter fans
- Standard lengths 560mm (1D) & 1120mm (2D)
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals —Special lengths on request



CP03 C Series



CP03 - CA - 0560 Silencer

Insertion Loss (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP03 - C* - 0560 - 1D	2	4	7	14	14	9	9	7
CP03 - C* - 0560 - 2D	3	6	10	19	20	14	12	10
CP03 - C*P - 0560 - 1D	3	7	9	18	24	24	20	15
CP03 - C*P - 0560 - 2D	4	9	17	27	29	28	23	23

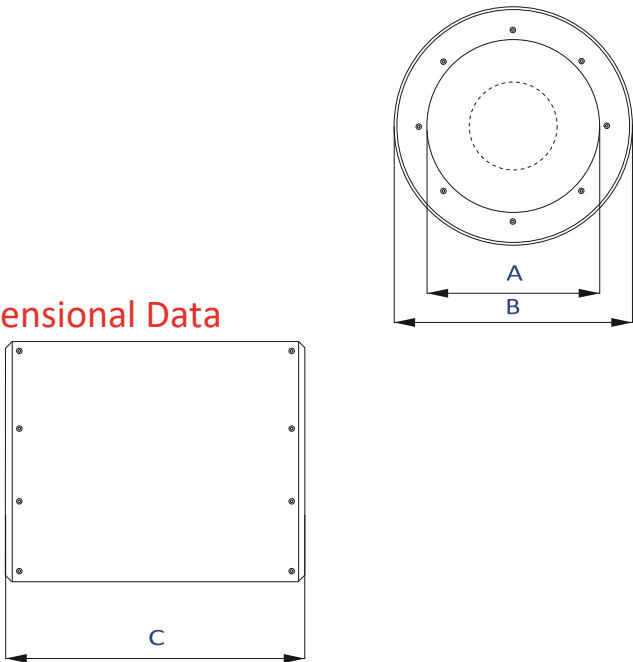
Replace * in code with A or B for connection pattern. Insertion loss data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

Product Code	A (mm)	B (mm)	(mm)	Weight (kg)
CP03 - CA - 0560 - 1D	560	712	560	22
CP03 - CA - 0560 - 2D	560	712	1120	48
CP03 - CAP - 0560 - 1D	560	712	560	26
CP03 - CAP - 0560 - 2D	560	712	1120	57

Pattern A
12 x M10 - 620 PCD

Pattern B
16- M8 - 605 PCD

Dimensional Data



Will require two people plus lifting equipment to carry and install.



Carbon PA242424

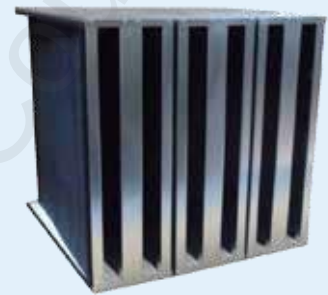
Size	594 x 594 x 597
Gross Weight	68.2Kg
Carbon Weight	50Kg
Rated Airflow	3600m ³ /hr*
Pressure Drop	120Pa

Safe for one person to carry.
No special lifting equipment required.



Sitesafe PA240824

Size	594 x 196 x 597
Gross Weight	17.95Kg
Carbon Weight	16.6Kg
Rated Airflow	1200m ³ /hr*
Pressure Drop	120Pa



Sitesafe 3 x PA240824

Size	594 x 594 x 597
Gross Weight	53.85Kg
Carbon Weight	50Kg
Rated Airflow	3600m ³ /hr*
Pressure Drop	120Pa

T: 01206 852389 E: info@acoustica.co W: acoustica.co

2 Conder Way, Whitehall Industrial Estate, Colchester, Essex CO2 8JN

*Rated Airflow based on a dwell time of 0.1 seconds. Available in all sizes to retrofit carbon cells

Carbon Filter Cell Part Number	Nominal Size (inches)	Height (mm)	Width (mm)	Depth (mm)	Weight of Encased Carbon (Kg)	Weight of Entire Cell (Kg)	Capacity @ 0.1 Second Dwell Time M3/h
PA-240824-7C "Site Safe"	24 x 08 x 24	594	196	597	17	18	1266
PA-242412-7C	24 x 24 x 12	594	594	297	25	36	1900
PA-242424-7C	24 x 24 x 24	594	594	597	50	61	3800

Please find our most popular sizes above, we do supply many different sizes and grades of carbon filters so please contact us with your requirements.

Absolute (HEPA) Filters

To qualify to be called a High-Efficiency Particulate Air or HEPA filter, the filter must be able to remove, from the air that passes through it, 99.97% of particles down to a sub-micron level. Our main use of HEPA filtration is the removal of smoke particles.

We do supply many different sizes and grades of HEPA filters so please contact us with your requirements.



Bag Filters

Our general purpose bag filters are manufactured using a galvanised steel header to retain the pocket sets.

The pockets are produced from synthetic micro-fibres specifically designed for use in air filtration. They can be applied as a pre filter to carbon cells in malodour extraction, taking out oil and grease particles ahead of the carbon filter stage.



LONGAR® TYPE 2 PREMIUM BAFFLE FILTER

For use in commercial kitchens and ventilation to extract grease laden air and act as a fire barrier. Fire barriers prevent any cooking flames traveling past the extract canopy. The new Type 2 is a development of customers requesting certain attributes for the baffle filter, the main ones being safety edges on frame and blades. LONGAR® Type 2 is available in standard depths of 20mm and 45mm depths, this is required for the filter to operate at a constant efficiency and to protect the system as a flame barrier as tested to European Standard DIN 18869-5 and American Standard UL1046. Custom sizes are available on request.

CONSTRUCTION / MATERIAL SPECIFICATIONS

As standard all baffles are manufactured with Stainless Steel 430 polished finish, (Other finishes and materials are available). Maximum Operating temperature 400C or 750F.

FITTING INSTRUCTIONS

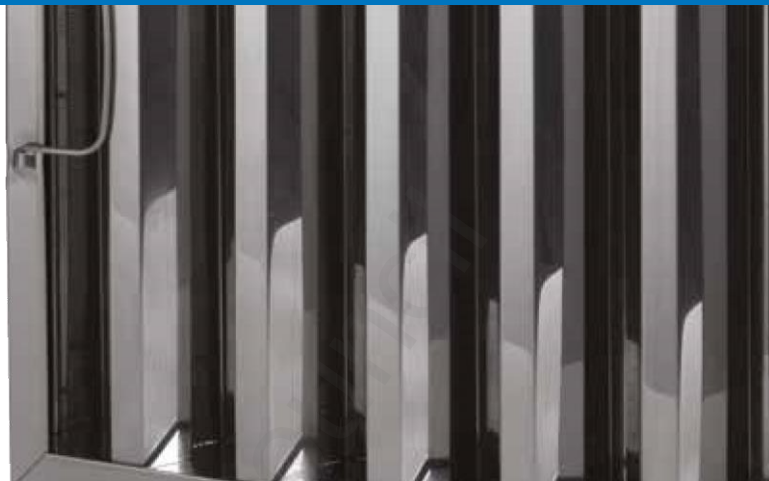
- Fit products, handles in direction of air in.
- Product vertical in air stream.

HANDLING

- Handle with care when unpacking.
- Store in dry and frost protected place.

LONGAR® Type 2

High Performance Premium Baffle Filter



LONGAR® TYPE 2 FEATURES:

- 100% Flame barrier protection to DIN 18869-5.
- Cutsafe safety edges.
- Fully welded construction – all stainless steel construction.
- Meets insurance requirements.
- Meets HVCA DW172 requirements.
- Folding handles and drainholes as standard.
- Robust baffle filter construction – built to last.
- Tested & certified to European standard DIN 18869-5.
- Tested & certified to American standard UL1046.
- Tested & certified to ASTM2519.

APPLICATIONS

- Commercial kitchens
- Water mist separation
- Spark arrestors
- Sand filtration
- Grease filtration

MAINTENANCE

- All maintenance should be carried out in accordance with the planned maintenance set by installation contractor.
- When handling any components suitable PPE should be used - gloves, eye protection and access equipment.
- Filters should be cleaned by a trained operative either daily for heavy use or weekly for light use.
- For more exact guide to cleaning you should contact a cleaning specialist.

PACKAGING

- All units are packaged in double wall boxes with separators for standard sizes, glued closed for protection whilst in transit against contamination.

FILTER CLASSIFICATION:

- Filter Class G2
- UL Class 2

TESTED TO:

- DIN 18869-5
- UL 1046
- ASTM 2519

MANUFACTURED TO:

- DW172• ISO9001

A.V.MOUNT (ANTI VIBRATION MOUNT)



Anti Vibration Mounts (A.V. Mounts) attach to the bottom of Mounting Feet. A.V. Mounts are used to isolate the fan from the system to prevent vibration transfer through fixings or structures. A.V. Mounts can be used to isolate any products from the main system to prevent vibration transfer. The main uses we supply A.V. Mounts for are, Axial flow fans, Box fans, Centrifugal fans, in fact A.V. Mounts can be used with anything that causes vibration.



Flexible Duct Connector

For damping vibration generated by fans or ventilation equipment and transferred to air ducts. For partial compensation of ductworks distortion resulting from temperature changes. Flexible vibration damping connectors are fixed to air ducts with clamps.



Universal Bracket For Wall Mounting



High Velocity Jet Cowl

High velocity jet cowl. This type of termination provides a higher efflux velocity over standard cowls. In simple terms any residual odours will be "Jetted" high above areas that may be affected by nuisance odours. DEFRA kitchen guidance 2018 actually lists this as a preferred method of extraction. Rainwater is captured in a dish within the cowl and is fed out through a drainage tube.



INVERTER - QUICK INSTALLATION GUIDE

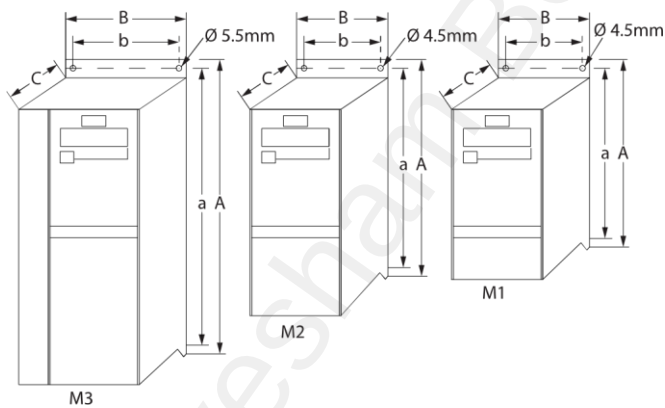


Ready – Steady – Go!
 Connect motor and power cables, turn the control knob, and watch the motor speed change.



RoHS compliant
 The VLT® Micro Drive does not contain lead, cadmium, hexavalent chrome, mercury, or flame retardant PBB and PBDE.

INVERTER - TECHNICAL & DRAWING DETAILS



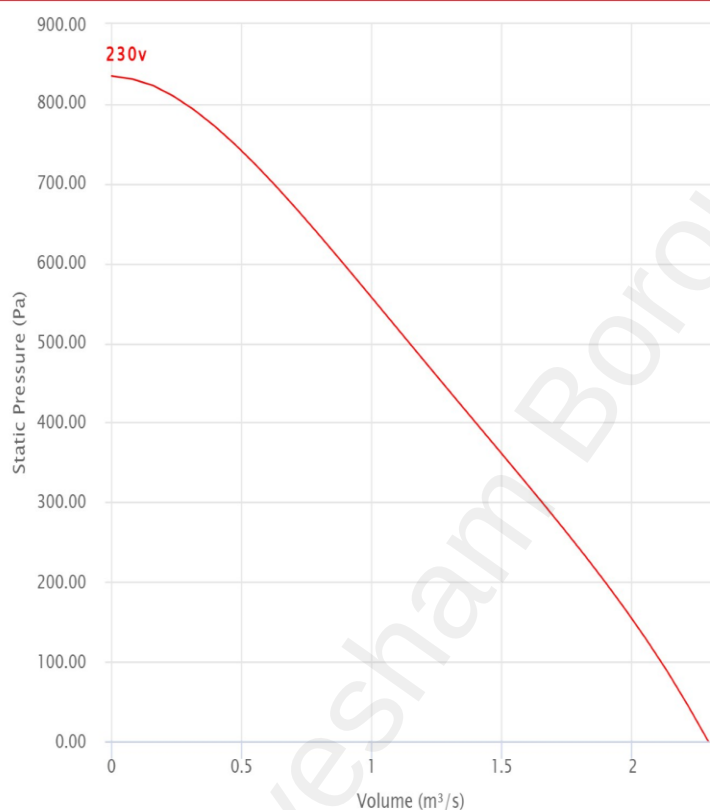
Part Number	Inverter Enc. Model	Ph.	V	Amps	kW	Power [kW]		Height [mm] A (incl. conversion kit)	B	Width [mm]		Depth [mm] C	Max. Weight kg
						1x200-240 V				b			
PK901092	4.2	M1	1-3	200-240V	4.2	0.75	0.75	219.3	70	55		148	1.1
PK901090	6.8	M2	1-3	200-240V	6.8	1.5	1.5	245.6	78	59		144	1.6
PK901091	9.6	M3	1-3	200-240V	9.6	2.2	2.2	297.5	95	69		210	3

GBW 560/4 (AX) GigaBox axial discharge box fan



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 Single phase, enclosed, maintenance free external rotor motor with thermal contacts wired to the terminal block, speed controllable by voltage reduction. Low-noise, 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.	5508
Model Code	GBW 560/4 (AX)
Fan Size	560 mm
Maximum airflow temp.	45 °C
Weight	92.0 kg

Performance

Fan Nominal Speed	1409 rpm
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Motor

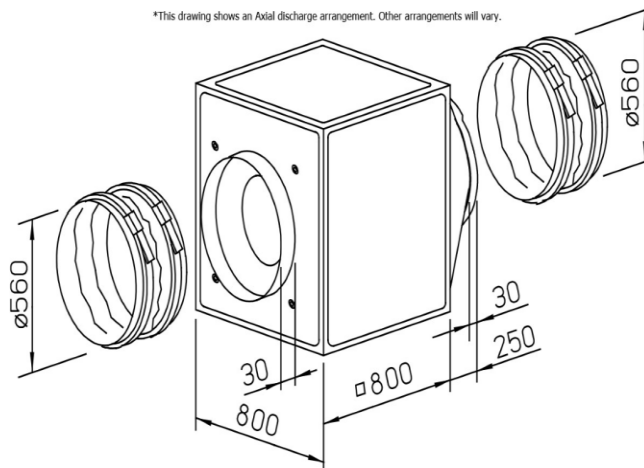
Rating	1.83 kW
Poles	4
Electrical Supply	230v/1Ph/50Hz
Full Load Current	7.93 A
Starting Current	28.548 A

Sound

Sound Pressure Level		44 dB(A) at 3m							
Spectrum	Hz	Total	125	250	500	1k	2k	4k	8k
LwA Intake	dB(A)	76	63	68	69	71	69	64	57
LwA Extract	dB(A)	82	71	73	76	77	74	70	61
LwA Breakout	dB(A)	65	62	61	51	50	48	44	38

Dimension and Drawing

*This drawing shows an Axial discharge arrangement. Other arrangements will vary.



*This drawing shows dimensions that should be used as a guide only and are subject to change. Certified drawings are available on request.