

147 PARROCK STREET

DA12 1EY

Ventilation Statement



GOYA WORKS

15<sup>th</sup> NOV 2022  
Project No: G0095



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 | <b>Unit 1 - Dimensions of the filter name</b>                                                              | Carbon Filters           |
| 12 | Total number of filter panels in the filter bed / lambs                                                    | 6                        |
| 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 | <b>Unit 2 - Dimensions of the filter name</b>                                                              | 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 |
|----|---------------------|--------------|

## 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<br>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 <sup>3</sup> /s) at the proposed rate of extract. | 1 m <sup>3</sup> / s                                                          |
| 27 | The volume of the space to be ventilated in m <sup>3</sup>                          | 120m <sup>3</sup>                                                             |
| 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<br>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 GBW450 - Lw Details Breakout 62 db Intake 75db<br>Exhaust 77 db<br>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      |

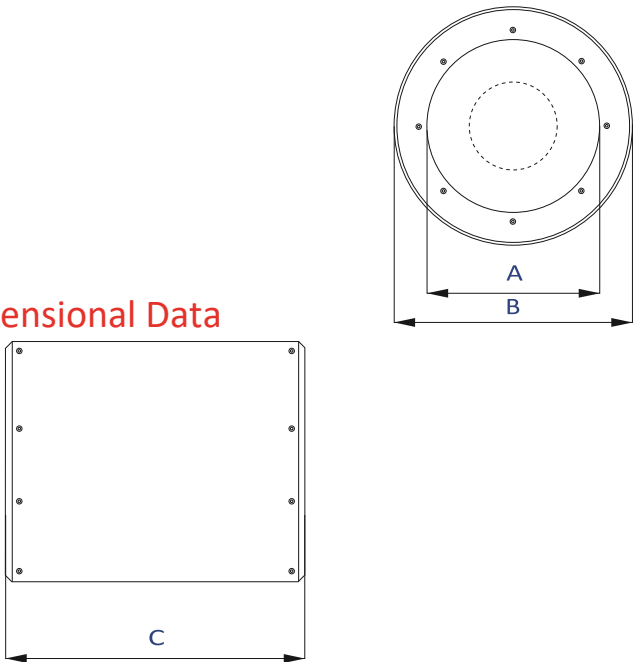
Replace \* in code with A or B for connection pattern. Insertion loss data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you 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

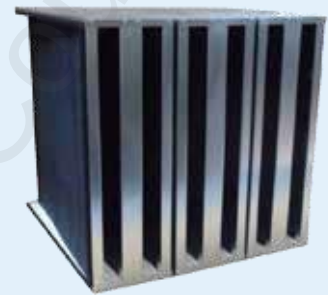
|                      |                         |
|----------------------|-------------------------|
| <b>Size</b>          | 594 x 594 x 597         |
| <b>Gross Weight</b>  | 68.2Kg                  |
| <b>Carbon Weight</b> | 50Kg                    |
| <b>Rated Airflow</b> | 3600m <sup>3</sup> /hr* |
| <b>Pressure Drop</b> | 120Pa                   |

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



### Sitesafe PA240824

|                      |                         |
|----------------------|-------------------------|
| <b>Size</b>          | 594 x 196 x 597         |
| <b>Gross Weight</b>  | 17.95Kg                 |
| <b>Carbon Weight</b> | 16.6Kg                  |
| <b>Rated Airflow</b> | 1200m <sup>3</sup> /hr* |
| <b>Pressure Drop</b> | 120Pa                   |



### Sitesafe 3 x PA240824

|                      |                         |
|----------------------|-------------------------|
| <b>Size</b>          | 594 x 594 x 597         |
| <b>Gross Weight</b>  | 53.85Kg                 |
| <b>Carbon Weight</b> | 50Kg                    |
| <b>Rated Airflow</b> | 3600m <sup>3</sup> /hr* |
| <b>Pressure Drop</b> | 120Pa                   |

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

| Carbon Filter Cell<br>Part Number | Nominal<br>Size<br>(inches) | Height<br>(mm) | Width<br>(mm) | Depth<br>(mm) | Weight of<br>Encased<br>Carbon (Kg) | Weight of<br>Entire Cell<br>(Kg) | Capacity @ 0.1<br>Second Dwell<br>Time M3/h |
|-----------------------------------|-----------------------------|----------------|---------------|---------------|-------------------------------------|----------------------------------|---------------------------------------------|
| PA-240824-7C<br>"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

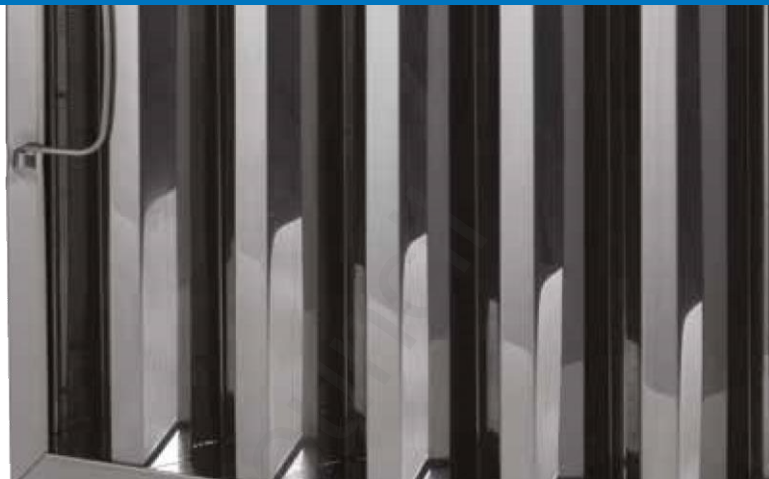
- Fit products, handles in direction of air in.
- Product vertical in air stream.

### 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



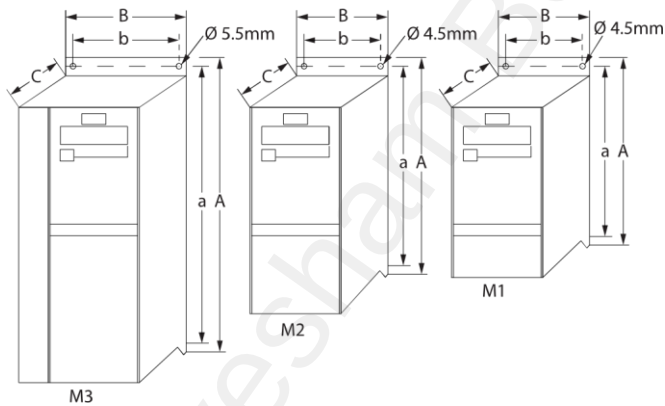
### Ready - Steady - Go!

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



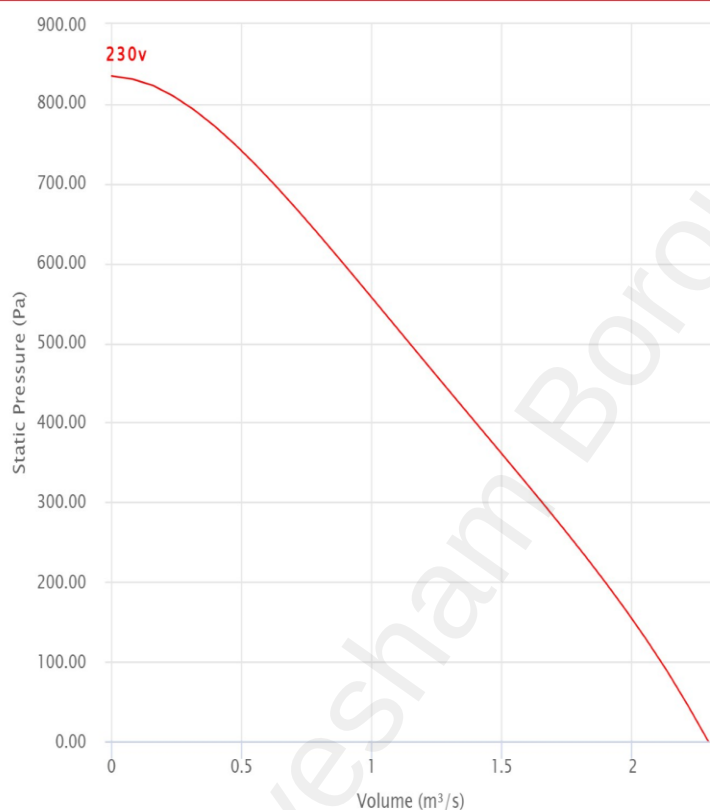
| Part Number | Inverter Model | Enc. | Ph. | V        | Amps | kW   | Power [kW]  | Height [mm]<br>A (incl. conversion kit) | B  | Width [mm] | Depth [mm] | Max. Weight |
|-------------|----------------|------|-----|----------|------|------|-------------|-----------------------------------------|----|------------|------------|-------------|
|             |                |      |     |          |      |      | 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 |
|-------------------|----------|

### Motor

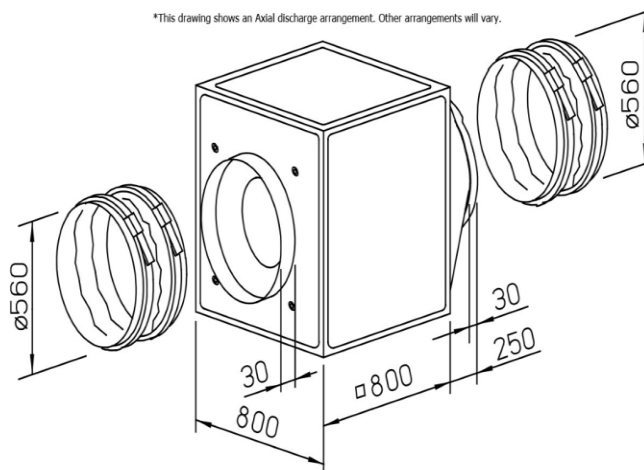
|                   |               |
|-------------------|---------------|
| Rating            | 1.83 kW       |
| Poles             | 4             |
| Electrical Supply | 230v/1Ph/50Hz |
| Full Load Current | 7.93 A        |
| Starting Current  | 28.548 A      |

### 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.