

# CANOPY CLEANING UK LTD

33 YORK CRESCENT

WEST BROMWICH

B70 0JT

Te [REDACTED]

05<sup>th</sup> October 2023

29 Regent Street  
Leamington Spa  
CV32 5EJ

## Extraction system quote

Following my visit to your premises this morning and our discussions regarding new extraction system at 29 Regent Street  
Please find details of the quotation and full breakdown of material and labour required below.

The new canopy will be 4000mm long 500mm deep 1200mm width

Canopy will come fitted with 6 baffle filters. Fan we will install will be a long-cased s&p fan 500 in diameter double bladed which will be more than sufficient for the canopy size. All ducting will come fitted 400 diameter.

Bello is full list material required for the job.

4000mm canopy with 3 baffle filter.

500 diameter long-cased double bladed extractor fan with a 1 years guarantee

10amp flakt wood speed controller (I shall be doing all wiring from the fan to the control panels)

9000mm-meter length of spiral ducting 400 diameter

2 90 degrees 400 diameter

2 fan silencers 500 diameter

1 jet cow 500 diameter

4 cantilevers arms

4 support split rings (for securing and duct work)

1 carbon filter box

15 stainless steel sheets

[REDACTED]  
Omed Amanj /

# ACE FILTRATION LTD

## TECHNICAL DATA SHEET: AF101

### DISPOSABLE PLEATED PANEL FILTERS

#### TYPE AP

#### Construction

**Media:** Non-woven fibres manufactured to give high dust holding capacity. The media is bonded to an expanded metal support grid.

**Frame & Facia:** Frame and facia are manufactured from AquaKote cardboard 530 g/m<sup>2</sup>, with diamond lattice facia. Frames are glued together with grade J2013 adhesive.

#### Technical Data (Based on 50mm panels)

**Maximum Temperature:** 100°C  
**Maximum Humidity:** 80%  
**Rated Volume:** Based on 2 m/s face velocity  
**Maximum Volume:** 2.5 m/s face velocity  
**Initial Resistance:** 50mm panels 40 Pa  
100mm panels 75 Pa  
**Final Resistance:** 250 Pa  
**BS EN 779 Classification:** G4

#### Standard Sizes & Rated Volumes

Nominal Size	Rated Volume		Initial Resistance	
	50mm	100mm	50mm	100mm
600 x 600 x 50	0.72 m <sup>3</sup> /s	1.44 m <sup>3</sup> /s	40 Pa	75 Pa
600 x 300 x 50	0.36 m <sup>3</sup> /s	0.72 m <sup>3</sup> /s	40 Pa	75 Pa
500 x 500 x 50	0.50 m <sup>3</sup> /s	0.76 m <sup>3</sup> /s	40 Pa	75 Pa

#### Servicing

Filters should be changed when the final resistance is reached. These filters are only as efficient as the installation. Please check that all holding frame seals are intact and replace as necessary.

**Notes:** Non-standard sizes are available. For specific performance data, please contact the Sales Office on 01474 325666

# ACE FILTRATION LTD

## TECHNICAL DATA SHEET: AF111

### BAFFLE GREASE FILTER

#### TYPE VEEVENT

#### Construction

**Outer frame:** Rolled stainless steel section with safety edge. Drain holes in both top & bottom leading edge, allowing filters to be installed either way up.

**Baffle plates:** Unique profiled stainless steel section ensuring maximum airflow and optimum grease retention.

**Handles:** Fitted as standard on short side.

#### Maintenance:

As the VEEVENT baffle filter is self draining, all that is required is to wash the filter occasionally in a mild detergent.

#### STANDARD SIZES AND TECHNICAL DATA

Nominal Size (w x h x d)	Actual Size (w x h x d)	Rated Airflow	Operating Pd
500x250x50	495 x 241 x 48	0.23 m <sup>3</sup> /s	80 Pa
500x400x50	495 x 394 x 48	0.36 m <sup>3</sup> /s	80 Pa
500x500x50	495 x 495 x 48	0.45 m <sup>3</sup> /s	80 Pa
450x450x50	445 x 445 x 48	0.36 m <sup>3</sup> /s	80 Pa
400x400x50	394 x 394 x 48	0.29 m <sup>3</sup> /s	80 Pa

**Notes:** In order to get good grease retention a slot velocity of between 4.5 and 5.5 m/s is recommended. Standard sizes only available. For specific performance data please contact the Sales Office on 01474 325666.



# TCBBX2/TCBTX2

5605764700 - TCBBX2/4-450 (230V50HZ) V5 - CYLINDRICAL CASED AXIAL FLOW FANS



Cased axial fan . Casing manufactured from galvanised sheet steel. Fitted with 2 contrarotating fan assemblies with aluminium blades. Single phase - IP65 - F motor with thermal protector and terminal box with capacitor out of the air stream. Brand S&P model TCBBX2/4-450 (230V50HZ) V5 for an airflow 1,60 m<sup>3</sup>/s and static pressure 300 Pa.

## Theoretical Working Point

Airflow	1,60 m <sup>3</sup> /s
Static Pressure	300 Pa
Temperature	20 °C
Altitude	0 m
Density	1,2 kg/m <sup>3</sup>
Frequency	50 Hz

## Working Point

Airflow	1,60 m <sup>3</sup> /s
Static Pressure	300 Pa
Dynamic pressure	60 Pa
Total Pressure	361 Pa
Input power	1,24 kW
Outlet speed	10 m/s
Fan speed	1366 rpm
Specific Fan Power	0,78 W/l/s

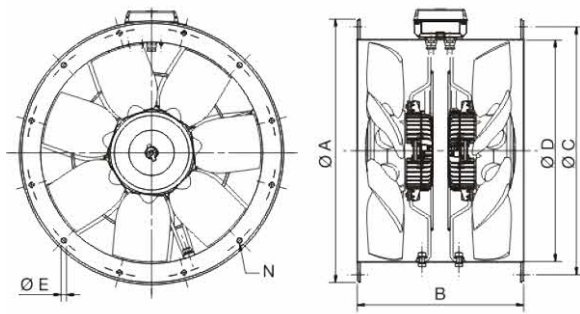
## Construction

Discharge diameter	450 mm
Fan size	450
Blades	7
Weight	42,00 kg

## Motor Characteristics

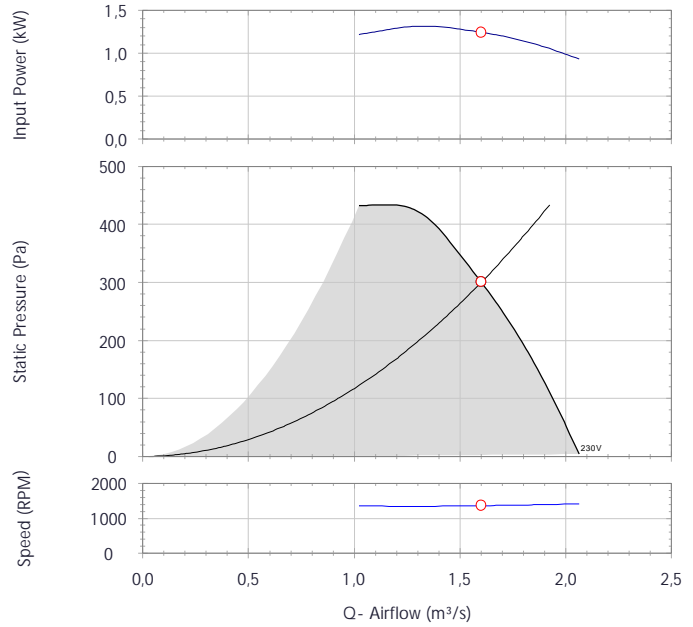
Number of poles	4
Voltage	1-230V-50Hz
Maximum absorbed current	5,7 A
IP Rating	IP65
Motor insulation class	F

## Drawing



A	B	C	D	E	N
537	375	500	450	12	8

## Performance Chart



## Sound Performance

	63	125	250	500	1k	2k	4k	8k	Overall
Inlet (LwA)	52	72	82	81	83	79	71	64	88
Inlet LpA @ 3m	31	51	62	60	62	58	50	43	67
Outlet (LwA)	55	72	84	84	87	81	74	67	90
Outlet LpA @ 3m	35	51	63	63	66	61	53	46	70

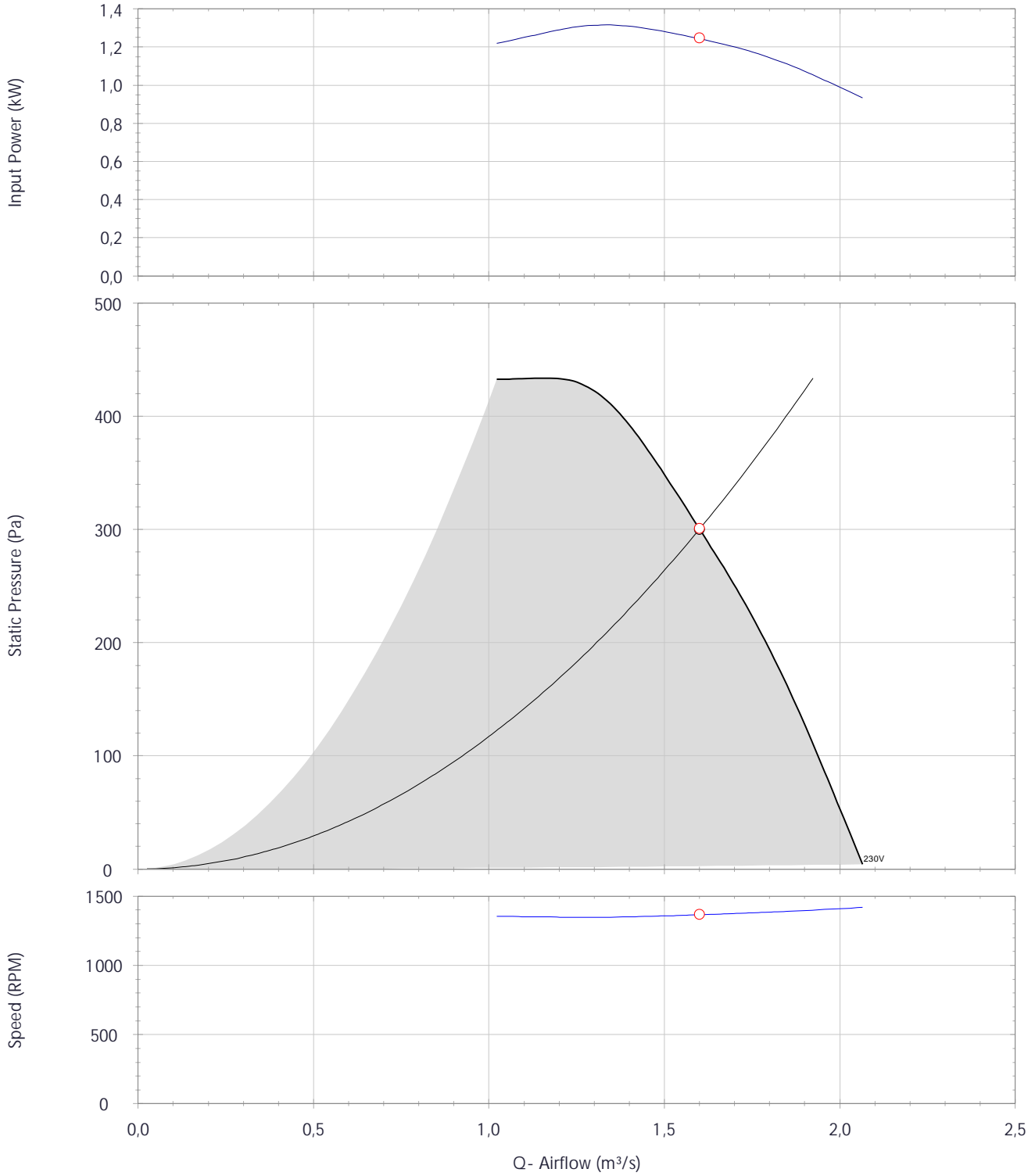




# TCBBX2/TCBTX2

5605764700 - TCBBX2/4-450 (230V50HZ) V5 - CYLINDRICAL CASED AXIAL FLOW FANS

## Performance Chart





# TCBBX2/TCBTX2

5605764700 - TCBBX2/4-450 (230V50HZ) V5 - CYLINDRICAL CASED AXIAL FLOW FANS

## Sound Performance

	63	125	250	500	1k	2k	4k	8k	Overall
Inlet (LwA)	52	72	82	81	83	79	71	64	88
Inlet LpA @ 3m	31	51	62	60	62	58	50	43	67
Outlet (LwA)	55	72	84	84	87	81	74	67	90
Outlet LpA @ 3m	35	51	63	63	66	61	53	46	70

## With sound attenuator

Inlet (LwA)	52	69	72	58	44	43	50	49	74
Inlet LpA @ 3m	31	48	52	37	23	22	29	28	53
Outlet (LwA)	55	69	74	61	48	45	53	52	75
Outlet LpA @ 3m	35	48	53	40	27	25	32	31	54

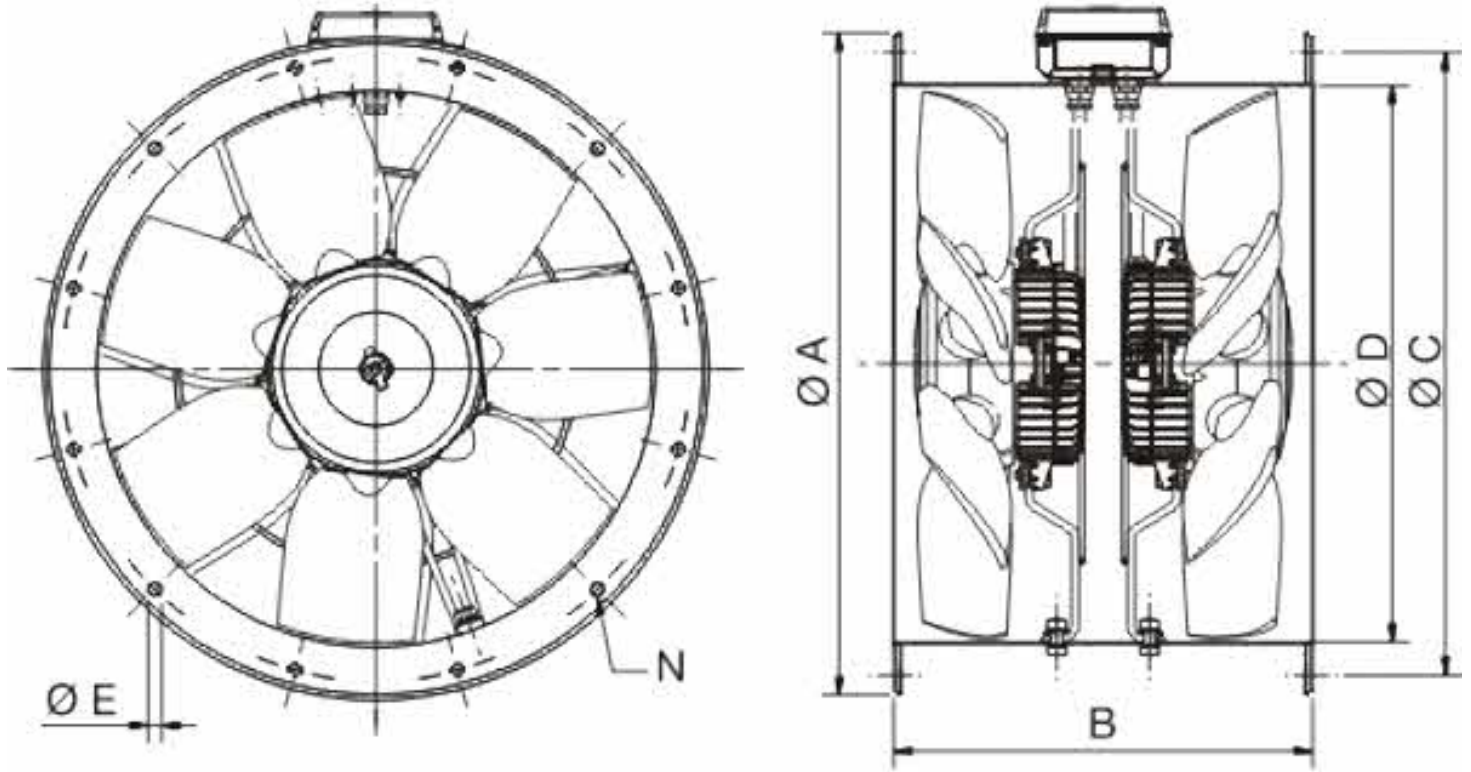




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5605764700 - TCBBX2/4-450 (230V50HZ) V5 - CYLINDRICAL CASED AXIAL FLOW FANS

## Drawing



A	B	C	D	E	N
537	375	500	450	12	8



# TCBBX2/TCBTX2

5605764700 - TCBBX2/4-450 (230V50HZ) V5 - CYLINDRICAL CASED AXIAL FLOW FANS

## Accessories

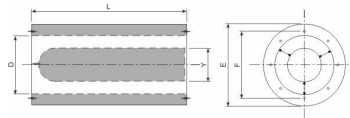
5211813800 - SIL CZO 450-20



As SIL CZ but with internal pod for extra attenuation. On request: Version with stainless steel casing.

Corrections							
63	125	250	500	1k	2k	4k	8k
-0	-3	-10	-23	-39	-36	-21	-15

### Dimensions



D	E	F	No	L	Y
450	610	500	8	900	250





# TCBBX2/TCBTX2

5605764700 - TCBBX2/4-450 (230V50HZ) V5 - CYLINDRICAL CASED AXIAL FLOW FANS

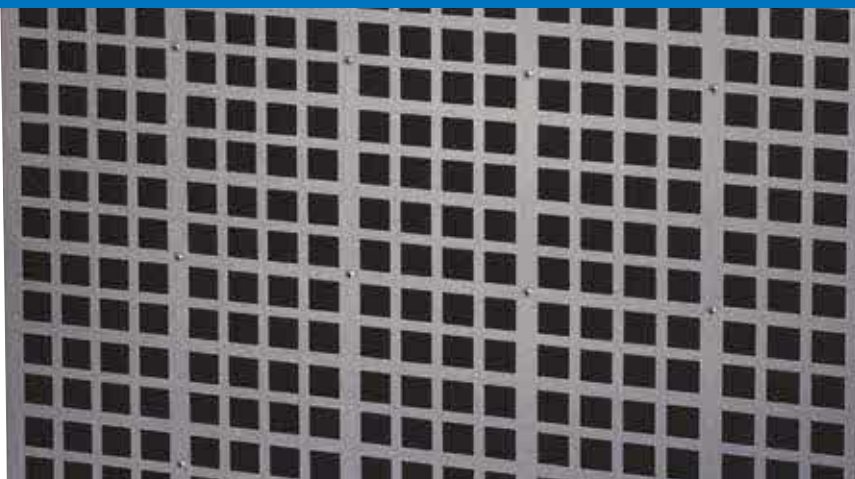
## ErP Data

Maximum efficiency $\eta$ [%]	41,9
Installation type	C
Category efficiency	Static
N	N47,5
Variable speed drive	+
Year of manufacture	Product Rating Plate
Manufacturer's Info	S&P
Product code	5605764700
Input power at optimum efficiency point (kW)	1,316
Airflow at optimum efficiency point [m <sup>3</sup> /h]	4.842
Pressure at optimum efficiency point [Pa]	411
Speed at optimum efficiency point	1349
Specific Ratio	1
Recycling/disposal	Instruction Manual
Maintenance	Instruction Manual
Additional components	Catalogue and according to ISO 5801

## Warnings

This dimensional drawing may not match with the selected product, especially in the discharge orientation

# LONGAR® Type 8 Activated Carbon Filters



## LONGAR® TYPE 8 FEATURES:

- High grade carbon / High carbon content / Low pressure loss
- Robust modular construction
- Carbon Unit or panel format / Standard and Custom sizes available
- CNC manufactured / Precision products every time

## APPLICATIONS

- Reduction of Cooking Odours
- Removal of Kerosene Exhaust Fumes
- General Odour Reduction
- Neutralisation of Ammonia and its Derivatives
- Removal of Formaldehyde
- Removal of Airborne Pollutants and Contaminants
- Removal of Acid Gases (please enquire as top specific contaminant)

## LONGAR® TYPE 8 ACTIVATED CARBON FILTERS

Activated carbon has for many years been used to remove airborne noxious fumes and gases. Its origins date back to the First World War, when gas masks were first filled with Activated carbon to remove chlorine gas. Today Longar produces a wide range of carbon filters to deal with a variety of air pollution scenarios.

There are many situations where carbon filtration is used to eliminate toxic or offensive odours, some of these are sewage works, hospitals, slaughterhouses, restaurant kitchens, airports, toilets, wash rooms, laboratories, and office blocks.

## PRE FILTRATION

Carbon filters are designed to remove fumes and odours, they are not suitable for removing dust and fine particles. If left unprotected, the life of the carbon product is severely reduced. To protect the filters use the correct pre filtration. If you are unsure please enquire for further information.

## LONGAR® TYPE 8 ACTIVATED CARBON PANELS

The Activated carbon panel are sealed into a galvanised steel frame; a scrim is then added to protect the carbon surface from dust contamination. Sealing the carbon panel stops any air by-pass; our panels are manufactured using CNC technology to ensure precision manufacture with exact tolerances.

Our panels are the strongest on the market place with a wide range of standard sizes available, custom sizes are also available on request.

## LONGAR® TYPE 8 ACTIVATED CARBON UNITS (ACU)

For a modular approach to fume removal the ACU is the ideal solution. The ACU unit is manufactured from a number of carbon panels held in place by a CNC made corrosion proof metal casing. The carbon panels inside the units are 25mm thick, sealed into the frames using polymer which eliminates the possibility of any air by-pass around the carbon.

## LONGAR® TYPE 8 CYLINDRICAL FILTER

These are constructed from perforated galvanised steel then formed into cylindrical cartridges containing high grade or impregnated carbon. The cylinders have a bayonette fit into the filter mounting plate.

All cylinders have a unique feature of having the option to replace any spent carbon and then refill with new replenished carbon.

For technical specifications, part numbers and ordering information, please see overleaf.

# LONGAR® Type 8 Activated Carbon Filters

## FITTING INSTRUCTIONS

- Fit products in accordance with installation contractor's specifications. Observe direction of airflow.

## HANDLING

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

## MAINTENANCE

- Carbon filters cannot be cleaned upon reaching the end of their service life. They must be replaced.
- All maintenance and replacement schedules will be set by the original equipment installer. Please refer to this for more information.
- When handling any components suitable PPE should be used –gloves, eye protection and access equipment.
- Carbon filters may be recycled.

## PACKAGING

All units are packaged in double wall boxes, stapled closed for protection whilst in transit against contamination.

## TECHNICAL SPECIFICATIONS

SIZE ORDERING GUIDE (TOLERANCES +/- 2mm)					
Part Number	Actual Size HxWxD	Nominal Size HxWxD	Weight	Airflow M <sup>3</sup> /SEC @0.12 Contact	Pressure Loss - Pascals
CARBONCUBE242424	597 x 597 x 597mm	609 x 609 x 609mm	60.00kgs	1.00	97
	23.50 x 23.50 x 23.50"	24 x 24 x 24"	132.00lbs		
CARBONCUBE242418	597 x 597 x 450mm	609 x 609 x 457mm	44.00kgs	0.75	97
	23.50 x 23.50 x 17.72"	24 x 24 x 18"	96.80lbs		
CARBONCUBE241824	597 x 450 x 597mm	609 x 457 x 609mm	46kgs	0.75	97
	23.50 x 17.72 x 23.50"	24 x 18 x 24"	101.20lbs		
CARBONCUBE182424	450 x 597 x 597mm	457 x 609 x 609mm	46kgs	0.75	97
	17.72 x 23.50 x 23.50"	18 x 24 x 24"	101.20lbs		
CARBONCUBE242416	597 x 597 x 395mm	609 x 609 x 406mm	40.00kgs	0.67	97
	23.50 x 23.50 x 15.55"	24 x 24 x 16"	88.00lbs		
CARBONCUBE242412	597 x 597 x 292mm	609 x 609 x 305mm	33.00kgs	0.50	97
	23.50 x 23.50 x 11.50"	24 x 24 x 12"	72.60lbs		
CARBONCUBE241224	597 x 297 x 597mm	609 x 304 x 609mm	32.00kgs	0.50	97
	23.50 x 11.69 x 23.50"	24 x 12 x 24"	70.40lbs		
CARBONCUBE24824	597 x 197 x 597mm	609 x 203 x 609mm	19.00kgs	0.33	97
	23.50 x 7.76 x 23.50"	24 x 8 x 24"	41.80lbs		
CARBONCUBE202018	495 x 495 x 445mm	508 x 508 x 457mm	36kgs	0.52	97
	19.49 x 19.49 x 17.52"	20 x 20 x 18"	79.20lbs		
CARBONCUBE181818	450 x 450 x 450mm	457 x 457 x 457mm	28.00kgs	0.42	97
	17.72 x 17.72 x 17.72"	18 x 18 x 18"	61.60lbs		
FINAL RECOMMENDED PRESSURE DROP: 450 PASCALS					

Pressure drop and airflow information available on request.



**LONGAR INDUSTRIES**

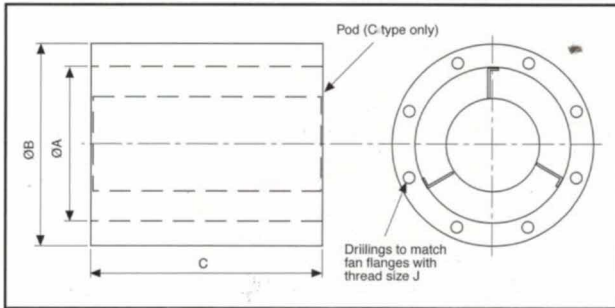
FILTERS AND FABRICATIONS FOR A CLEANER ENVIRONMENT

Longar Industries Limited, Unit 25, Glenmore Business Park, Colebrook Way Weyhill Road, Andover, Hampshire SP10 3GZ United Kingdom  
 T +44 (0)1264 332 993 F +44 (0)1264 332 994 E info@longarind.com W www.longarind.com

As part of our program for continuous improvement, Longar Ltd reserves the right to change specifications without notice. 15-01-2016.

# Ancillaries

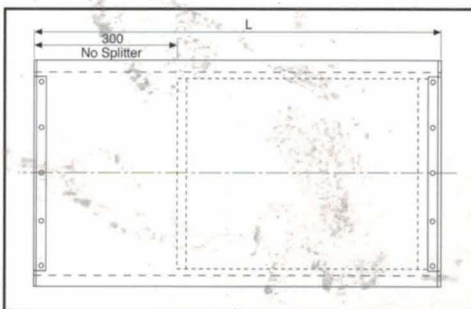
## Silencer



The above silencers give the following approximate dB(A) reductions:  
 B Type 1 diameter length - 7 to 10 dB(A)    C Type 1 diameter length - 12 to 15 dB(A)  
 For full acoustic details see publication AF1.3/C

Suitable for fan ØA	Product Numbers		B	C	J	Weight (kg)	
	B Type	C Type (Pod Kit)				B Type	C Type
315	211401	415792	415	315	M8	10	13
355	221401	415793	455	355	M8	12	15
400	241401	415794	500	400	M10	15	18
450	251401	415795	600	450	M10	20	24
500	271401	415796	650	500	M10	25	29
560	281401	415797	710	560	M10	30	35
630	301401	415798	780	630	M10	35	42
710	311401	415799	860	710	M10	44	53
800	331401	416212	1000	800	M10	55	66
900	341401	416213	1100	900	M12	70	84
1000	351401	416214	1200	1000	M12	82	100

## Silencer - Axcet 3



Fan Code	Silencer Code	L	Weight (kg)
200	AXS20/90	900	29
	AXS20/120	1200	31
250	AXS25/90	900	32
	AXS25/120	1200	41
330	AXS33/90	900	34
	AXS33/120	1200	45
400	AXS40/90	900	37
	AXS40/120	1200	51
500	AXS50/90	900	41
	AXS50/120	1200	62
630	AXS63/90	900	55
	AXS63/120	1200	83
760	AXS76/90	900	85
	AXS76/120	1200	97

All dimensions shown in mm

**Standard**    **Super Standard**    **Same Day**

Same Day & Super Standard Service are only available through our nationwide stockist network  
 - Call us on Freephone 0800 244391 for further details.



For further information, please contact your local sales centre





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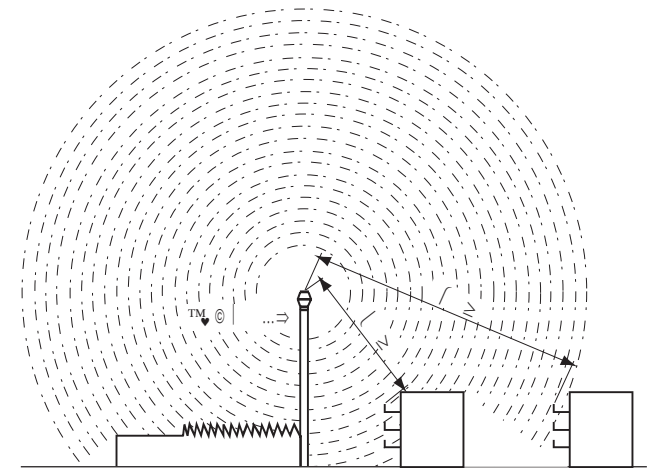
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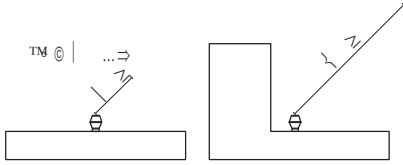
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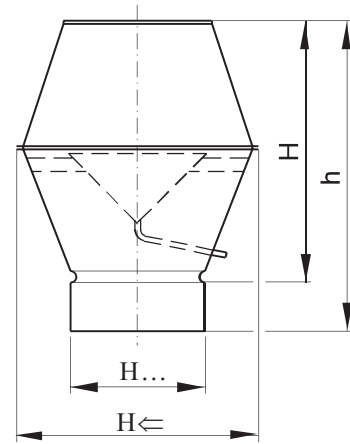
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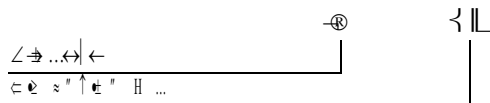
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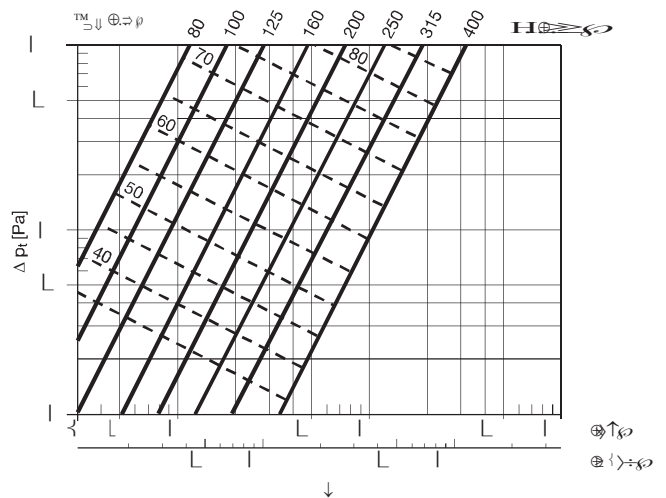
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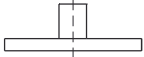



















Technical drawing symbols: arrow, dimension line, and tolerance symbols.





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