Sitesafe Carbon Filters

purified air® since 1984

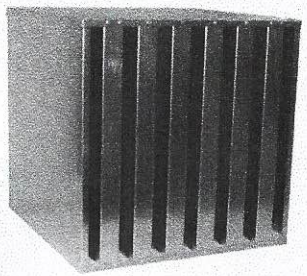
We manufacture Sitesafe carbon filters, these innovative carbon units measure 594x196x597mm, three combining to 594x594x597mm, directly replacing our original carbon blocks whilst providing exactly the same filter performance as an existing full size cell.

Their advantage is that they only weigh 18kg each against the 68kg of our original blocks. This takes the strain out of fitting and servicing, allowing only one engineer to complete the task where two had been previously required.

Our Sitesafe carbon filters use panels of activated carbon to remove the malodourous gases within the commercial kitchen extract duct through the process of chemical adsorption. By installing our ESP units before our Sitesafe filters, the carbon life span is greatly increased, allowing it to nullify malodours at optimum efficiency for much longer.

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

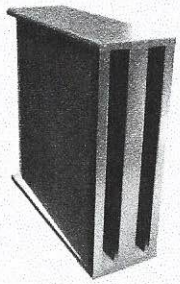




Carbon PA242424

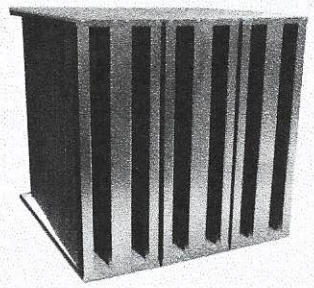
Size	594x594x597
Gross Weight	68.20kg
Carbon Weight	50.00kg
Rated Airflow	3600m³/hr*
Pressure Drop	120Pa

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



Sitesafe PA240824

Size	594x196x597
Gross Weight	17.95kg
Carbon Weight	16.6kg
Rated Airflow	1200m³/hr*
Pressure Drop	120Pa



Sitesafe 3 x PA240824

Size	594x594x597
Gross Weight	53.85kg
Carbon Weight	50.00kg
Rated Airflow	3600m³/hr*
Pressure Drop	120Pa

Please see below for the recommended minimum dwell times required for different applications and scale up accordingly.

It should be noted that filtration performance will be improved by increasing the dwell times applied.

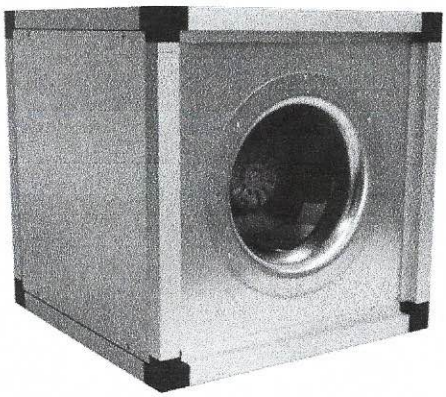
Application	Recommended Dwell Time	Grade
Cooking - Low Odour, Tea Shop, Canteens	0.1 to 0.2 Seconds	Carbon grade Enhanced for improved performance for light catering odours
Cooking - Moderate Odour. Pizza, Steak House, French, Italian, Pubs, Chinese, Japanese, Cantonese	0.2 to 0.4 Seconds	Enhanced Carbon grade suitable for many applications 65% Minimum CTC
Cooking High Odour, Indian, Thai, Vietnamese, Kebab	0.4-0.6 Seconds	Enhanced Carbon grade suitable for many applications 65% Minimum CTC
Cooking Very High Odour. Fried Chicken, Pubs with large fried food turnover, Fish and Chip Shops, Fast Food / Burgers	0.4-0.8 Seconds	Enhanced Carbon grade suitable for many applications 65% Minimum CTC
Reduction of Kerosene Exhaust fumes	0.1 to 0.2 Seconds	General Purpose Activated Carbon
Reduction of Ozone	0.1 to 0.2 Seconds	General Purpose Activated Carbon
Reduction of Diesel Fumes, including H_2S, SO_2, NOX, HCl	0.2 Seconds	Carbon Museum,Archive, Café Directive: SO2 SOX NO2 NOX Removal
Museum and Archives	0.2 Seconds	Carbon Museum,Archive, Café Directive: SO2 SOX NO2 NOX Removal

The cooking odour classes above are as classified by DEFRA in **Guidance on the Control of Odour and Noise from Commercial Kitchen Exhaust Systems, PB10527**

Purified Air Limited Lyon House, Lyon Road, Romford, Essex, RM1 2BG. Free Phone:- 0800 018 4000 Email:- enq@purifiedair.com Web:- www.purifiedair.com

Ventorn
Engineered Ventilation Services

Silent box fan unit AMF-630/1
Version: 4-pol; 50 Hz; 90°-180°airflow



ErP READY 2018

CE

UK CA

MADE IN UK

Silent box fan unit AMF-630/1

Variable direction discharge, backward curved centrifugal fan.

High efficiency IE2 external rotors motor and IE3 for induction rotor motors. Highest quality Electric motors with thermal protection will guarantee the long life and trouble free operation due to its construction and air cool system.

Free running High density HD backward curved Impeller is made of aluminium and dynamically balanced according to ISO10816 two plane CLASS 1.

The double skin Acoustic panels with 25 mm flame-retardant mineral wool noise and temperature insulated will help to reduce the noise level, they are easily removable which make it easy to install in any direction as well as easy to clean and maintain.

Aluminium frame and corners are highly shock-resistant.

Speed controllable 0 to 100% only by High efficiency variable frequency drive, pre-programmed and fully protecting the fan against any sort of harm.

Low sound level due to the 25mm thick acoustic panels, to absorb the noise to the highest level.

Casing and all corners are made of corrosion resistance aluminium for longer life.

Silent box fans can be used as extract and supply unit

Technical Data

Voltage	Δ 230 V
Frequency	50 Hz
Phase(s)	3 ~
Input power	3700 W
Input current	14.2 A
Impeller speed	1450 r.p.m.
Efficiency	IE 2
Air flow max	14100 m³/h
Maximum ambient Temperature	max 60 °C
Enclosure class	IP54
Insulation class	F
Motor type	AC
Weights	Weight 143 kg

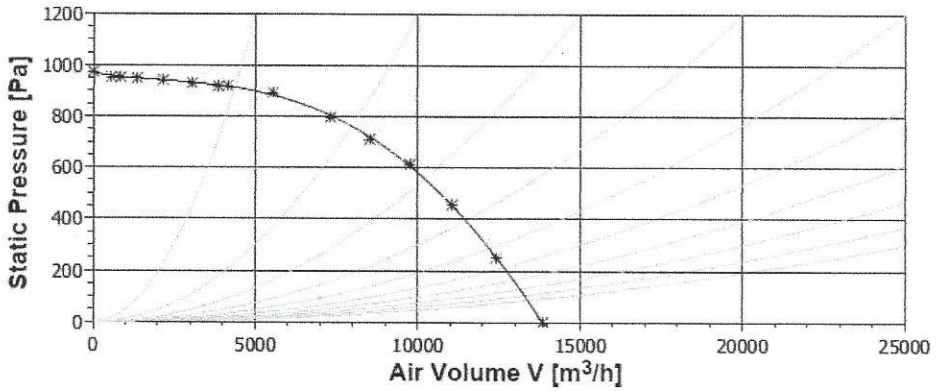
Speed control Data

Principe of control	Variable frequency Drive
Input voltage	1~ 200-240V
Input current	20 A
Output current	14.2 A
Output voltage	3~ 0-250V
Frequency	0 – 50 Hz
Enclosure class	IP20

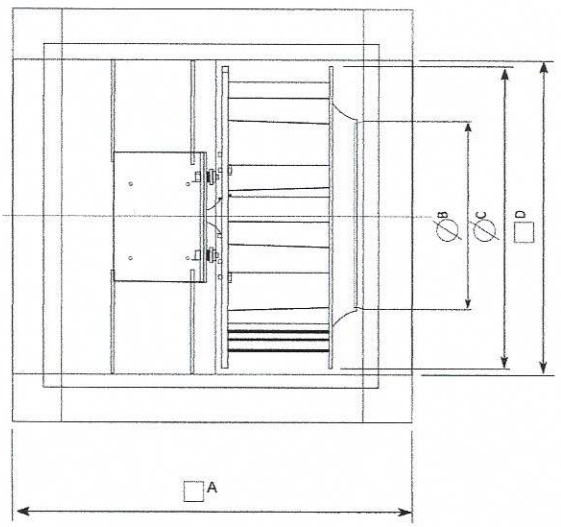
Mechanical characrtistic

Name	V m³/h	Δp sV Pa	Δp tV Pa	Pwe W	η s %	Lp(A) dB(A)	n 1/min	ErP
AMF630/1	14100	8	114	3700	1,6	87,4	1450	2018

Air volume flow rate



Dimensions



□ **A**	=	800 mm
B	=	360 mm
C	=	630 mm
□ **D**	=	720 mm

Sound data

Δpstat. Pa

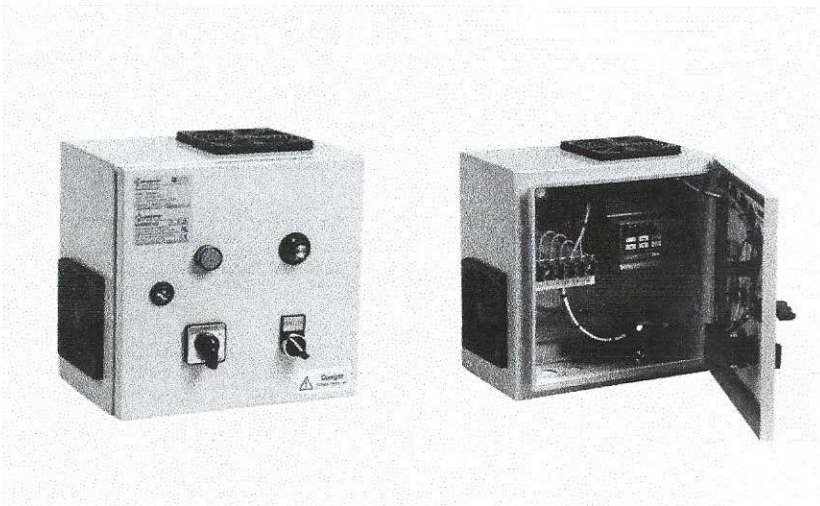
500/4	Hz	Tot	125	250	500	1k	2k	4k	8k
LwA Case breakout	dB (A)	63	63	63	47	49	45	42	36
LwA Inlet	dB (A)	76	56	65	68	73	69	63	54
LwA Outlet	dB (A)	80	61	72	74	74	73	69	60

ρ = 1.20 kg/m

Principle of control and protection:

Fully programmed and wired up ready to use inverters are the way we control the speed of our fans, Inverters are by far the best way to control the speed of fans, by using inverters you have the benefits of :

- High efficiency energy saving
- 0 to 100% controlling speed
- Fully protection of the fan



Speed control Data

Principe of control	Variable frequency Drive
Input voltage	1~ 200-240V
Input current	25 A
Output current	14.2 A
Output voltage	3~ 0-250V
Frequency	0 – 50 Hz
Enclosure class	IP20