

Industrial Electrostatic Air Cleaners - Smoke, Fume & Oil Mist Collectors

Introduction

Made for efficient high level control at source, these electrostatic air cleaners are suitable for a wide range of applications including:

- Kitchen extract particulate
- Oil mist and smoke generated by high speed machine tools
- Water based emulsion mist emitted from grinding and similar processes
- Welding smoke from automatic and manual welding
- Plasma and oxy-acetylene cutting of metals
- Soldering fumes emanating from flow-solder machines and manual processes
- Fumes from rubber molding machines
- Fumes arising from automatic wire coating machines
- Diesel smoke

Economical

Considerable energy savings can be made due to the fact that the Electrostatic Air Cleaner collectors remove the airborne pollution, returning only clean air to atmosphere. Expensive after filters can also be avoided as the wet/dry particulate and fumes are controlled in the one air cleaner. In addition, all filter components can be cleaned and re-used.

Health & Safety

Factory pollution, generated by moulding, machinery and welding processes, can be a potential health hazard to all personnel in the area. It can also cause damage to nearby computer systems and electrical equipment, resulting in increased maintenance costs. All collectors meet current COSHH regulations and HSE guidelines (subject to correct application/operation).



AAC 2500

Safety Features

- Front mounted isolator to control power supply to the unit
- Main switch on control panel to permit individual operation
- Automatic safety cut-out operated by main door
- Automatic high voltage decay

Maintenance

Our air cleaners require only routine maintenance as all filter components can be cleaned by means of steam, detergent or pressure jet.

Controls

A separate enclosure houses the HT supply, motor controls and operating lights, with individual indication of mains and filter operation.

Construction

The air cleaner is precision-engineered to current industrial standards. The case is fully welded and fitted with heavy duty hinges and bolt-on doors equipped with compression locks (adjustable on the main door) and fitted in conjunction with this are industrial neoprene seals. The air cleaner has been finished with a coat of hammer blue powder.

High Tension Supply

A fully encapsulated electronic high frequency switch mode is located inside the electrical enclosure of the main door. An Automatic HT monitor is present to provide continuous high voltage output to the cells and ioniser for maximum efficiency. For safety, an in-built sensor has been incorporated into the design with an external filter warning light. The HT contracts are located inside the main door. In addition the product is also electromagnetic interference/radio frequency Interference suppressed so as that any nearby machinery and equipment does not affect the performance of the air cleaner.

Efficiency

| Particulate Air volume | 100% | 80% |
|------------------------|------|-----|
| Micron | | |
| .01 | 97 | 98 |
| .1 | 95 | 97 |
| 10.0 | 98 | 98 |

Based on clean filter and media after filter.

Address: AAC Eurovent Ltd, AAC House, Unit K Maybrook Industrial Estate, Maybrook Road, Brownhills, West Midlands WS8 7DG. UK.

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Email: sales@aacurovent.co.uk **Website:** www.aacurovent.co.uk

AAC 1000SP and 1700SP - 'Single Pass' Filter

These industrial strength cleaners are the perfect partner for removing fumes at source.

They are ideal for:

- kitchen extract particulate
- oil mist and smoke generated by machining processes
- emulsion mists from high speed grinding
- rubber fumes arising from presses
- emissions from EDMS
- plastic smoke created by extrusion machines
- smoke generated by wire coating
- solder fumes emanating from flow solder machines and oil mist from pressure spraying of mould, strip etc.

Filtration

STAGE 1 Wet separator removes droplets and large particles from the air stream and ensures even distribution of the air across the whole filter.

STAGE 2 Media pre-filter designed to arrest small particulate (EU4).

STAGE 3 Electro-static collector removes sub-micronic pollution such as smoke, mist, fumes etc.

STAGE 4 Aluminium after filter safety screen.

For additional control of a wide range of odours a carbon element can be fitted in the fourth stage position in the place of the aluminium filter.



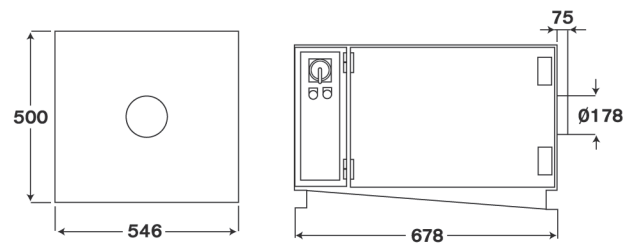
AAC 1000SP

Technical Details

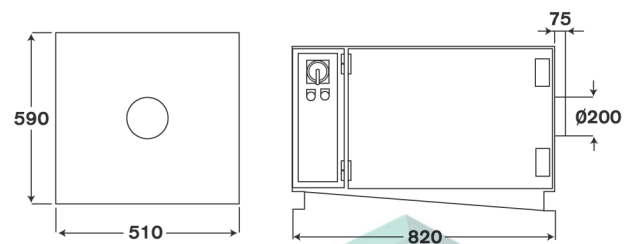
| | AAC 1000SP | AAC 1700SP |
|---------------------|----------------------|----------------------|
| Air volume | 1000m ³ h | 1700m ³ h |
| Pressure capability | 125Pa | 125Pa |
| Motor rating | 250 Watt | 510 Watt |
| Mains supply | 220/240 50Hz 1ph | 400v 50Hz 3ph |
| Weight | 60Kg | 80Kg |
| Sound level | 68dBA | 70dBA |
| Integral fan | YES | YES |

Other fan options available

DIMENSIONS



AAC 1000SP



AAC 1700SP

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AAC 1000DP and 1700DP - 'Double Pass' Filter

The AAC 1000DP and AAC 1700DP double pass filters are designed for even more demanding applications where the concentration of pollution is abnormally high, or where there are specific requirements for an air purity of up to 99.5%.

Both the AAC 1000DP and the AAC 1700DP incorporate a unique combination of 5 filter stages designed to remove tiny droplets, mist and smoke in one unit with an efficiency of up to 99.5%.

Filtration

STAGE 1 Wet separator removes droplets and large particles from the air stream and ensures even distribution of the air across the whole filter.

STAGE 2 Media pre-filter designed to arrest small particulate (EU4).

STAGE 3 Electro-static 1st pass collector removes sub-micronic pollution such as smoke, mist, fumes etc.

STAGE 4 Electro-static 2nd pass collector removes remaining sub-micronic up to 99.5%

STAGE 5 Aluminium after filter safety screen.

For additional control of a wide range of odours a carbon element can be fitted in the place of the aluminium filter.

It is also in compliance with current CE requirements, including Electromagnetic Compatibility.



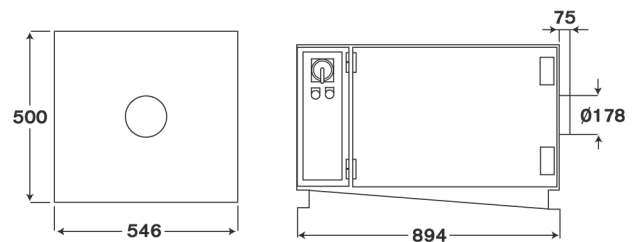
AAC 1000DP

Technical Details

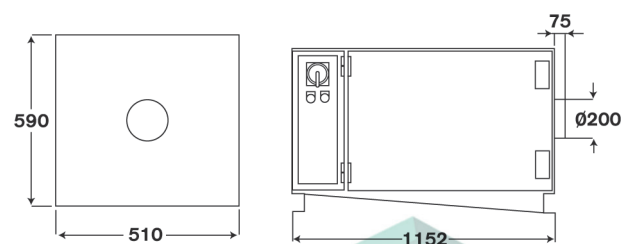
| | AAC 1000DP | AAC 1700DP |
|---------------------|----------------------|----------------------|
| Air volume | 1000m ³ h | 1700m ³ h |
| Pressure capability | 50Pa | 50Pa |
| Motor rating | 250 Watt | 510 Watt |
| Mains supply | 220/240 50Hz 1ph | 400v 50Hz 3ph |
| Weight | 75Kg | 100Kg |
| Sound level | 68dBA | 70dBA |
| Integral fan | YES | YES |

Other fan options available

DIMENSIONS



AAC 1000DP



AAC 1700DP

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AAC 2500, 2500F, 5000 and 5000F - with 3 stages of filtration

Filtration

The units guarantee an extremely high level of filtration efficiency. They incorporate a 3-stage filtration system consisting of:

1. **Pre-filter** - aluminium mesh or media type for removal of large particulate.
2. **Main Electronic collector** - designed to retain sub-micronic particulate (fumes, mist, etc).
3. **After filter** - aluminium mesh safety screen. Alternatively, media filter or activated carbon panel.

Optional Equipment

Model: 2500 & 2500F

- Mistmaster - For elimination of oil / emulsion mist.
- Canopy - For source extraction, complete with strip curtains.
- Stanchion - With top swivel to permit ready access to the machine tool.
- Hanging kit - For suspension from RSJ roof supports.

Models: 5000 & 5000F

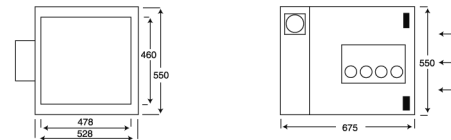
- Wet separators - For ducted applications, handling emulsion/oil mist.
- Plenum chambers - Transforming piece between duct and air cleaner (also with wet separator).
- Hanging kits - For suspension from standard RSJ roof supports.
- Stanchions - To locate air cleaner in correct position.
- Drains - To drain oil from sump.



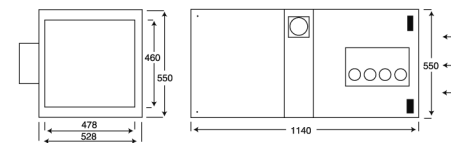
AAC 5000

Technical Data

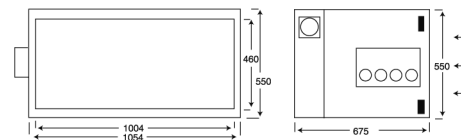
Dimensions



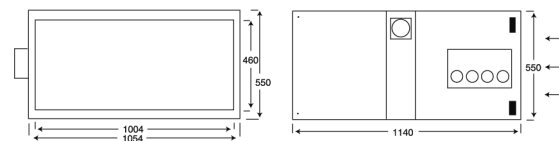
Model: AAC 2500



Model: AAC 2500F



Model: AAC 5000



Model: AAC 5000F

| | AAC 2500 | AAC 2500F |
|-----------------------------|----------------------|---------------------------------------|
| Air volume max | 2500m ³ h | 2500m ³ h |
| Weight | 80Kg | 180Kg |
| Power consumption | 50 Watt | 450 Watt |
| Integral fan | No | Yes |
| Electrical supply | 220/240V 50Hz 1ph | 220/240V 50Hz 1ph |
| Optional | 115V 50Hz 1ph | 380/440V 50Hz 3ph 115V 50/60Hz 1ph |
| Pressure capability (A.S.P) | | 600Pa |
| Motor rating std. | | 370 Watt |
| Motor rating options | | .75, 1.1, 1.5kW |

| | AAC 5000 | AAC 5000F |
|-----------------------------|----------------------|---------------------------------------|
| Air volume max | 5000m ³ h | 5000m ³ h |
| Weight | 100Kg | 200Kg |
| Power consumption | 50 Watt | 800 Watt |
| Integral fan | No | Yes |
| Electrical supply | 220/240V 50Hz 1ph | 220/240V 50Hz 1ph |
| Optional | 115V 50/60Hz 1ph | 380/440V 50Hz 3ph 115V 50/60Hz 1ph |
| Pressure capability (A.S.P) | | 600Pa |
| Motor rating std. | | 750 Watt |
| Motor rating options | | 1.1, 1.5, 2.2kW |

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