

AOM T Series ECOBOX+



An industry standard high efficiency commercial kitchen exhaust particle filtration and odour mitigation unit using AOM SCRUBBOX single pass electrostatic precipitators equipped with AutoWash features, secondary bag filters and activated carbon for odour mitigation

- **Comply to AS1668.2-2012 for horizontal discharge** of all cooking process types: guaranteeing compliance through AOM Performance Certification (Note: depending on the discharge point, heavy type 4 and type 5 cooking processes may not be adapted to the ECOBOX+ range)
- **Minimising the risk of nuisance of exhaust discharges:** through high efficiency particle filtration together with odour mitigation equipment (AOM OG Series Ozone Generator or AOM CARBONBOX activated carbon module) thus removing visible smoke and odour impacts at the discharge point
- **Decrease manual maintenance costs:** through in-built Autowash functions that ensure periodic cleaning of the electrostatic precipitators to maintain performance
- **Ensure monitoring of the filtration system:** through a PLC/BACnet connection to the BMS

Benefit from the AOM Australia advantage

Know-how: AOM Australia supplies a wide range of equipment for commercial kitchen exhaust systems. AOM Australia is not just a filter supplier: from exhaust hoods to filtration equipment through to fans and VSDs, AOM has supplied hundreds of projects in Australia over the course of the last 10 years and is able to support customers to efficiently use their equipment.

High Quality Manufacturing: All AOM ECOBOX+ Series filtration units are designed and manufactured in Australia. Units are manufactured in AOM standard sizes whilst custom manufacturing/sizes are also possible, to meet site constraints. Similar to a commercial kitchen exhaust hood, AOM ECOBOX Series filtration units are built in Stainless Steel to withstand the conditions of highly contaminated commercial kitchen exhaust.

National Sales and After Sales support: AOM Australia products are backed by a network of sales and after sales resources that no other company is able to offer. Our expertise in servicing filtration units means that our servicing teams currently carry out routine maintenance of competitor autoclean products.

Service and maintenance

AOM Australia can supply an upfront servicing cost and will offer warranty extensions when regular maintenance is carried out by our teams. Though these units are defined as AutoClean, they do require periodic maintenance, which AOM Australia is able to offer through its servicing department.

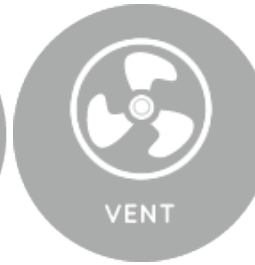
Certification and Testing

- Performance Certification supplied to fully comply with AS1668.2-2012 Section C3.10.3 Concessions to horizontal discharge of commercial kitchen exhaust
- Particle Filtration tested and certified to 98% at 0.3 micron to a range of international standards as well as local independent testing (University of Sydney)
- Odour mitigation tested and certified up to 90% based on relevant Australian Standard to Odour Assessments (AS 4323.3 - Determination of odour concentration by dynamic olfactometry)

Standard Configuration



FILTER

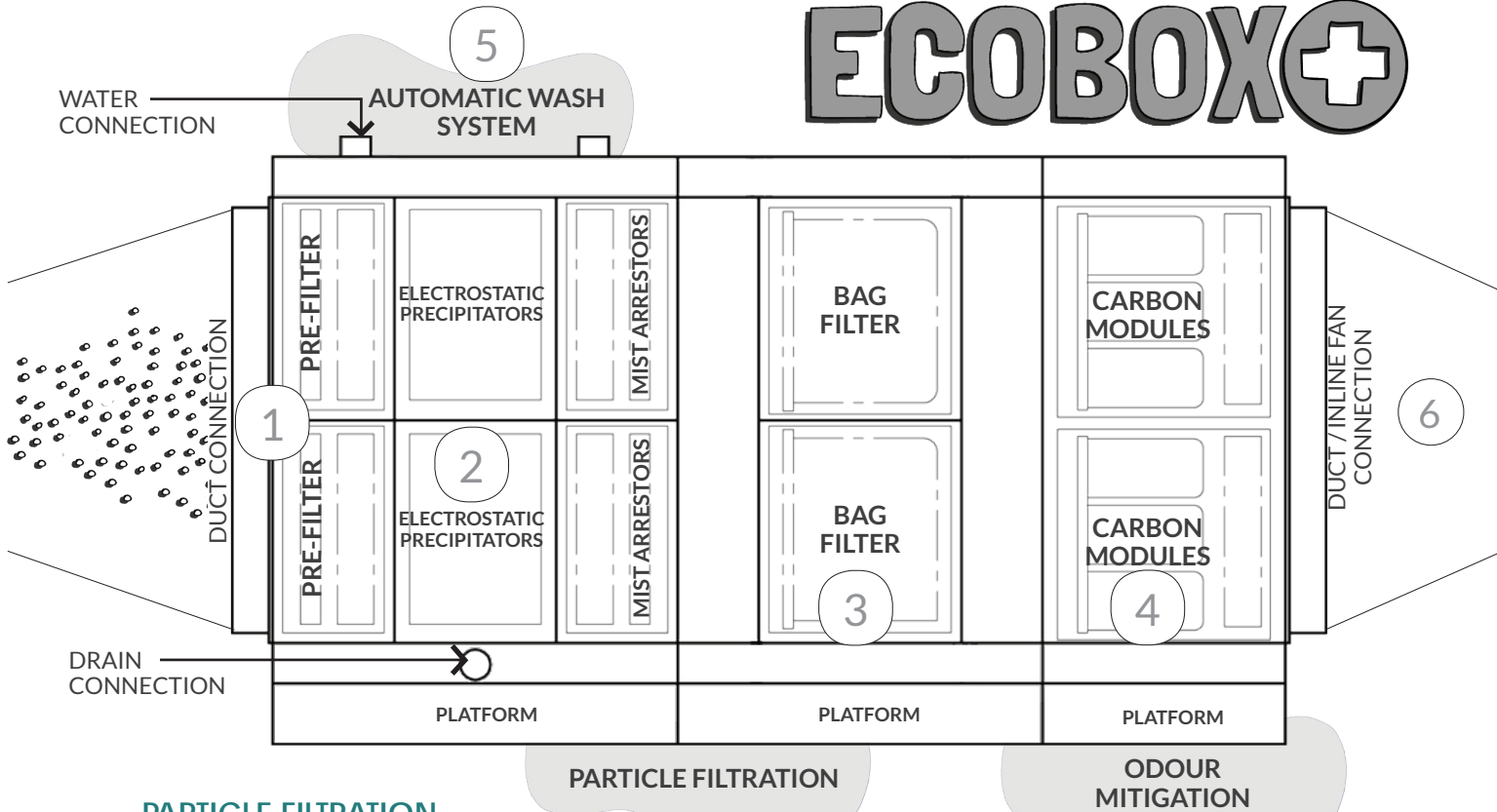


VENT



ODOUR

ECOBOX+



PARTICLE FILTRATION

- 1 **Pre filtration and Mist Filters:** 50 mm deep aluminium mesh pre filters/mist filters ensures that large particles and solid materials are stopped prior to entering into the electrostatic precipitator.
- 2 **Electrostatic Precipitator:** AOM electrostatic precipitators are performance tested and certified specifically to the extreme particle concentrations found in commercial kitchen exhaust. The 380 mm deep electrostatic precipitator UL 876 certified cells function as follows:
 - High Voltage 14 kV stainless steel spiked ionisers which are mounted within an aluminium frame distribute an electrical charge to particle matter.
 - Equally spaced 7kV low voltage aluminium collection plates attract the charged particles. The particles precipitate into the drain area below.
- 3 **Glass fiber bag safety filter:** M6 to F8 (depending on the cooking process) Eurovent certified glass micro bag filters offering greater performance than standard synthetic bag filters.

ODOUR MITIGATION

- 4 **Activated carbon modules:** Either cylinder or V Bank refillable carbon modules supplied with Australian sourced Acticarb activated carbon specifically manufactured for filtering of organic micropollutants from air. Optional ozone producing UVC lamps or remote ozone injection is available as a final disinfection step.

AUTOMATIC WASH SYSTEM

- 5 Programmable cleaning cycles and connections to water and waste allow for the units to run independently and minimise the need for third party cleaning of the cells and filters. BMS connections through BACnet protocols allow for the real time status information.

INTEGRATED INLINE FAN (option)

- 6 AOM Australia works either with Soler & Palau or Aerovent to select the most optimal inline exhaust fan. Integrated with a VSD and pressure sensor, the fan functions in harmony with the ECOBOX+ filtration unit.