

## Frequently asked questions

### **What is the efficiency of UAS Smog-Hog® ESP's**

**Industry standards have been established for testing the efficiency of air cleaning devices. The two most common tests used for ESP's are the ASHRAE 52-76 and Cold DOP method.**

**As efficiency is critical in most system designs Smog-Hog® has been independently tested by approved testing laboratories under the standards mentioned above these results are available on request.**

### **Why is face velocity so important for ESP efficiency**

**Face velocity relates directly to retention time of the grease and smoke and attached odour in the ESP, as ESP's have no barrier across the airflow the particles charged by the ioniser are slowed and have more time to adhere to the positive (+) and negative (-) collection plates.**

**All Smog-Hog® ESP's models are designed with a face velocity of 2.5m/s at the given airflow for the model e.g. UA40-2594l/s @ 2.5m/s, PSG54 12970l/s @ 2.5m/s.**

**Some competitor ESP's have much higher face velocities V's the airflows quoted for their units, many of these units have less collection plates with smaller physical collection plate sizes than Smog-Hog® .**

**All independent Smog-Hog efficiency testing was done at 2.5m/s.**

### **What is the airflow resistance of the ESP filter (clean)**

**The resistance of the ESP filter (clean) is 40pa being the pressure at which all Smog-Hog® efficiency data was calculated by independent testing.**

## **What happens to the grease and oil particles collected by the Smog-Hog®**

**The particles slide off the plates into the sump of the Smog-Hog® and are drained away through the 38mm sump connection which can be plumbed to the grease trap or collected for disposal.**

## **Is the Smog-Hog® ESP “Green Friendly”**

**Effective removal of particles from the air stream is achieved by applying energy to the airstream. As a general rule as the particle size decreases the cost of removing it from the airstream increases, sometimes dramatically. This rule applies to most common air pollution control devices with one exception the ESP. The ESP operates only on the particulate and not the entire airstream therefore it is extremely cost-effective to operate especially since it yields such high efficiency e.g. less than 100 watts of power is required to achieve 97% efficiency on a 1420l/s airstream.**

## **In what sizes and airflows are Smog-Hog units available**

**Smog-Hog® ESP's are available from 470l/s to 18000l/s for sizes and airflows of the entire range please refer to - 'Smog-Hog® ESP RANGE - AIRFLOWS AND SIZES'.**

## **Where can a Smog-Hog® ESP be installed.**

**Smog-Hog ESP's can be installed in Plant Rooms, Kitchen Roof spaces (proper access hatch must be provided for service thru the ceiling 700mm x 700mm , on Building Roofs and can be configured for low level discharge in certain applications please refer to -**

## **'TYPICAL TYPES OF Smog-Hog® ESP INSTALLATIONS'**

**Where is the best place to install a Smog-Hog® ESP.**

**Smog-Hog® ESP's should be installed as close as possible to the canopy to keep duct cleaning to a minimum.**

**Service of Smog-Hog® ESP's.**

**UAS can provide service of Smog-Hog® ESP's by our trained service personnel in various locations. When the units are serviced they are electrically tested to ensure maximum performance.**

**Can UAS provide quotation for complete installations.**

**UAS can provide a quotation for Canopies, Ducting, Filters (ESP's) , Fans and Installation for your Commercial Kitchen Filtration application.**

**Can UAS provide assistance on Local Council approval of your application.**

**UAS can provide assistance to help you with Local Council(s) approval of your commercial filtration requirements.**

**Odour Control**

**UAS Recommend**

**United Air Specialists Smog-Hog® Systems utilizes proven, Effective and sustainable technologies for Kitchen Emissions and Odour Control..**

**The most proven and safe method of Odour Control is by the use of Activated Carbon Modules (sized for the system airflow) after the Smog-Hog® ESP.**

**Warranty.**

**All Smog-Hog® ESP machines are warranted against manufacturing faults for 12 months from installation. All Power Packs are warranted against failure for 12 months from installation**