Choosing Your Fume Extraction Arm

A low energy cost fume extraction system is only economical if it efficiently removes your indoor pollution. The best way of reducing potentially dangerous airborne pollutants is by capturing them at source. APC extraction arms have been designed to achieve that, however care must be taken in deciding which APC arm will best provide the solution to your problems. The ability to position an arm correctly is paramount, so is its capacity to extract efficiently. Different lengths and diameters of arm can be specific to certain processes and applications.

Why size matters

Diameter

The diameter of an arm affects airflow and 'pickup velocity' and therefore determines the process for which a certain arm is suitable.

125/160/200 mm diameter

125/160/200 mm diameter, 1000 m^3/h, low vacuum. Extraction arms with a relatively wide diameter will extract fumes, airborne dust and gases from an area of 0.5 m^2, if the extraction hood is positioned 0.3 - 0.4 m from the source. This means you can be less precise when positioning the hood.
For gases and vapours the use of 200 mm arms is recommended.

75/100 mm diameter

75/100 mm diameter and about 150-500 m^3/h, low vacuum. Extraction arms with a medium diameter can be used where low volumes are required, such as soldering, laboratory fumes and spot-welding. Used with a higher airflow, these arms are suitable for dust, welding in restricted spaces and oil mist applications.

Up to 50 mm diameter

Up to 50 mm diameter and about 150 m^3/h, high vacuum. Extraction arms with 'narrower diameters' or those with small nozzles will extract only at a distance of 5 - 10 cm from the nozzle. Because the positioning of arms of this diameter must be very precise they are suitable only for portable units.

Length

The length of arm determines where it can be mounted in relation to the process and its ability to reach the areas required around your workpiece. Wall or column mounted extraction arms are always preferable, being easier to position and not subject to the wear and tear associated with portable or mobile units.

Industrial Strength Fume Arms for capturing welding fumes, grinding dusts, dry dusts, soldering fumes and other airborne particles.

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