

## *Smoke-Free Operation Wherever You Need...*

### *The EURUS ESP10 M series mobile unit,*

is purpose-built to efficiently extract and filter welding fumes and other airborne emissions for;

- ◆ Work areas where large extraction hoods are not feasible,
- ◆ Operations that produce emissions are carried out occasionally,
- ◆ Flexible workflows where the operator moves between stations.

Its smart, mobile design ensures clean air and a healthier work environment — exactly where and when you need it.

The ESP10 M mobile unit features advanced Electrostatic Precipitator (ESP) technology, capturing electrically charged smoke particles directly within its filter system.

Washable and reusable aluminium filter elements eliminate costly filter replacements, cutting operational expenses while boosting efficiency.

Its large industrial wheels and ergonomic handles allow smooth relocation between work areas, while lockable front casters ensure stability during use.

A fully rotatable, 3-joint acrobat arm – available in 2 m, 3 m, or 4 m lengths – provides flexibility in positioning for optimal fume extraction.



### *ESP10 M — Clean Air, Healthy Workplace*

- ◆ The ergonomic **acrobat arm** can be easily positioned by the operator over the fume source, capturing the fumes directly at their origin to protect operator health.



- ◆ Since the unit draws in air, filters it, and recirculates it into the work environment, it contributes to energy savings of the facility.
- ◆ Filtered air is discharged upward toward the ceiling, keeping the operator's breathing zone clear and comfortable.
- ◆ By trapping dust and smoke particles before they spread, the ESP10 M prevents these particles from accumulating on the facility's machinery equipment and thereby reduces related maintenance/cleaning costs.



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CLEANER ENVIRONMENT**



# Technical Details

## Filter Units:

### 1 – Mechanical Aluminium Pre Filter

The drawn-in air first passes through this filter component. The pre filter consists of an aluminium frame and aluminium wire material. Its function is to capture coarse dust, droplets, fibers, etc., present in the air before it reaches the collector and ionizer.

### 2 – Ionizer

The contaminated air, from which coarse particles have been removed by the pre mechanical filter, then passes through the ionizer component. The ionizer is made of aluminium material. Smoke/fume, fine dust, and similar particles in the air are positively/negatively charged via its ionization wires.

### 3 – Collector

The collector is made of thin aluminium plates arranged side-by-side within an aluminium frame. As in the ionizer wires, a high voltage passes through the aluminium plates inside the collector, and the smoke, fine dust, and similar particles charged in the ionizer are attracted and retained on these plates.

### 4 – Dust Drawer

\*An **optional** activated carbon filter module can be added to the unit for elimination of gaseous contaminants.

### Wash, Reinstall, Reuse — It's That Simple

Dust-like welding fumes or other residues accumulated on the filter components are cleaned by removing and washing them. The washed and cleaned filter components are reinstalled in the unit and continue to be used — delivering consistent performance without any costly replacements.

### Unit Dimensions:

1180 mm x 660 mm x 1080 mm (L x W x H)

Unit Weight : 168 kg

Nominal Airflow: 1.700 m<sup>3</sup>/h



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