

INDUSTRIAL AIR FILTRATION

ESP RANGE

6 | 10 | 20 | 40 | CZ (Centralized)



INDUSTRIAL AIR FILTRATION EXPERTS

02

OUR SOLUTIONS

ES 6 /10 Product
Information Technical
Specifications

02

ES 20/40
Product Information
Technical Specifications

08

ES Centralised Product
Information Technical
Specifications

14

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CONTACT US

ES 6/10

VERTICALLY MOUNTED

Our Oil Mist Units features a double-pass ESP technology and is efficient at 99%. Due to their compact size and built in fan system, they can be directly mounted to a machine tool.

The ionisation voltage has been designed to run at a positive potential, reducing ozone production and making it ideal for indoor applications.

A highly efficient oil, mist and smoke collector is effective on all metalworking fluids.

ES 6 /10

KEY FEATURES

Filters particles down to sub-micron levels

Tested to 99% efficiency

Low operating costs

Minimal maintenance required

Specifically designed for industrial application

Energy efficient

Removes oil, mist and smoke

Compact design

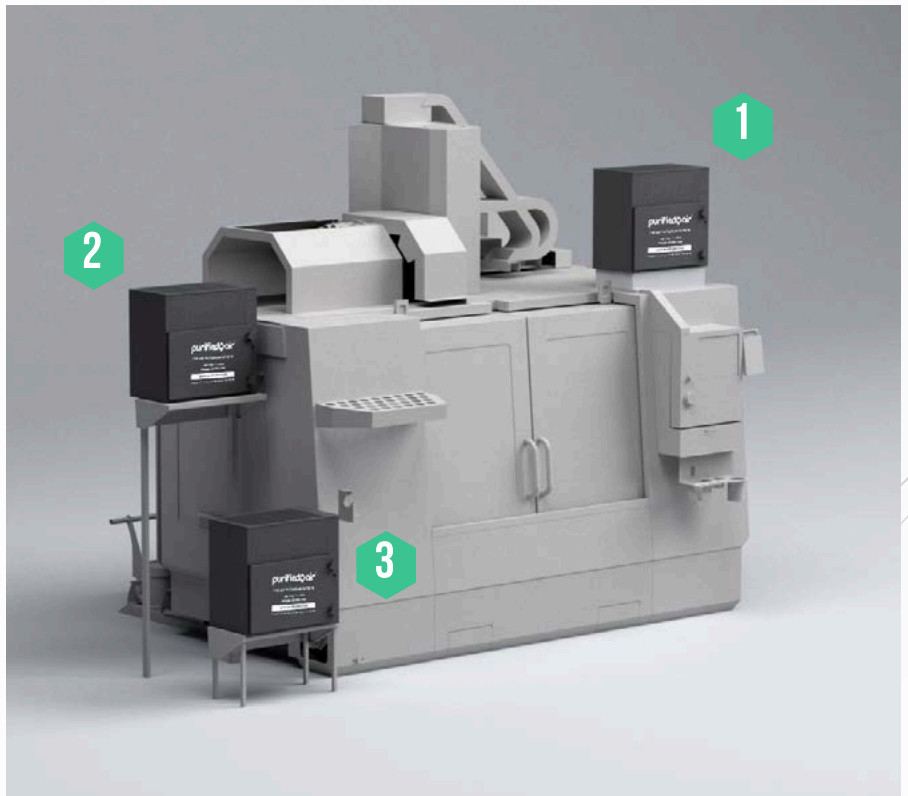


HOW IT'S INSTALLED

Installations will be directed by the customer and can be either:

-
- 01** Direct mounted with plenum
 - 02** Side Mounted with gallows bracket
 - 03** Stand mounted separate

Note: Purified Air do not recommend Direct mounting



FILTERS REMOVE



Smoke

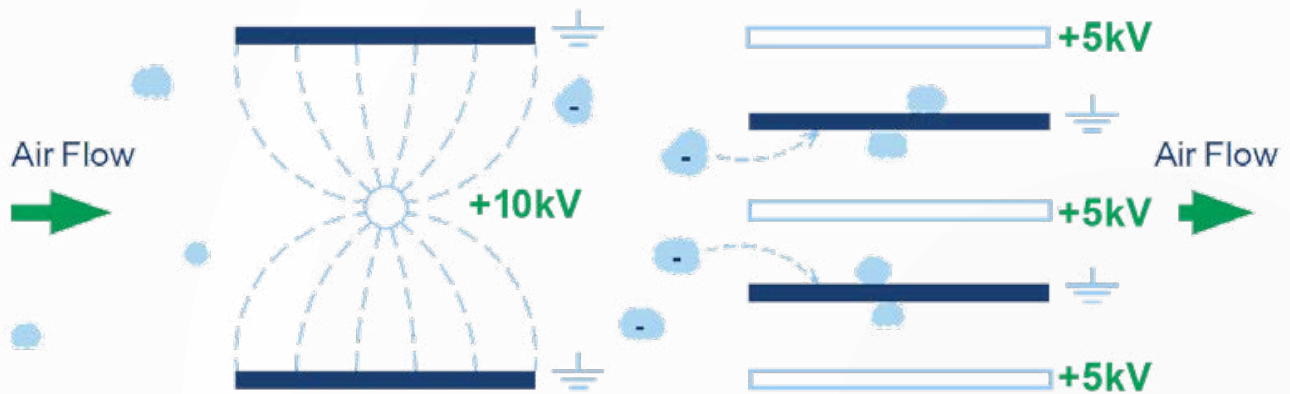


Oil



Mist

THE ELECTROSTATIC PROCESS



The above diagram shows, in a basic visual, how an electrostatic precipitator works:

As air passes into the combined ioniser / collector cell, the particulates in the air stream are polarised. As they continue through the ioniser and between the collector cell plates,

the polarised particulates are repelled away from the positively charged plates and attracted to the earthed plates where they stick and so are filtered out of the air flow.

THE BENEFITS OF ELECTROSTATIC TECHNOLOGY

Eliminates 99% of particles

Filters particles down to sub-micron levels

Compact design

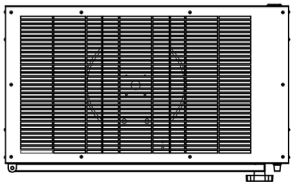
Energy efficient

TECHNICAL SPECIFICATION

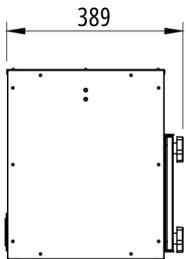
	ES 6	ES 10
Electrical Supply	220/240V 50Hz	220/240V 50Hz
Max Air Volume	up to 600m3/h	up to 1000m3/h
Max Power Consumption	180w	280w
Dimensions (mm)	W 625 mm	W 625 mm
	H 420 mm	H 600 mm
	D 389 mm	D 389 mm
Weight (kg)	30kg	41kg

DRAWINGS

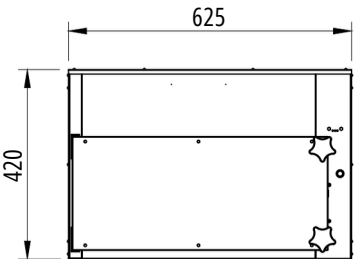
ES VERTICAL 6



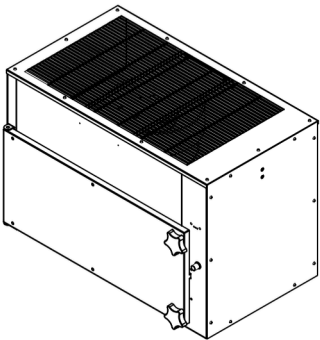
Plan



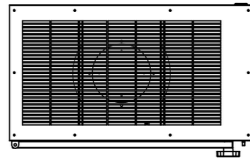
Side Elevation



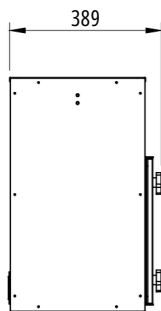
Front Elevation



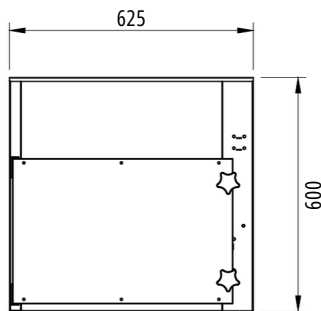
ES VERTICAL 10



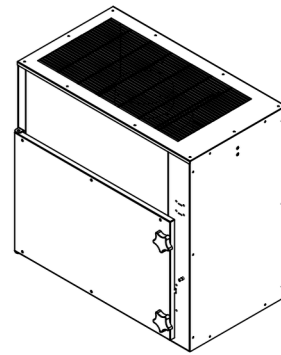
Plan



Side Elevation



Front Elevation



ES 20/40

HORIZONTALLY MOUNTED

Our Electrostatic Precipitators, or ESPs, are up to 99% efficient. Due to their modular design and built-in fan system, the units can be mounted on a machine tool, on a freestanding stand or via a transition to allow for venting to the atmosphere.



KEY FEATURES

Filters particles down to sub-micron levels

Tested to 99% efficiency

Low operating costs

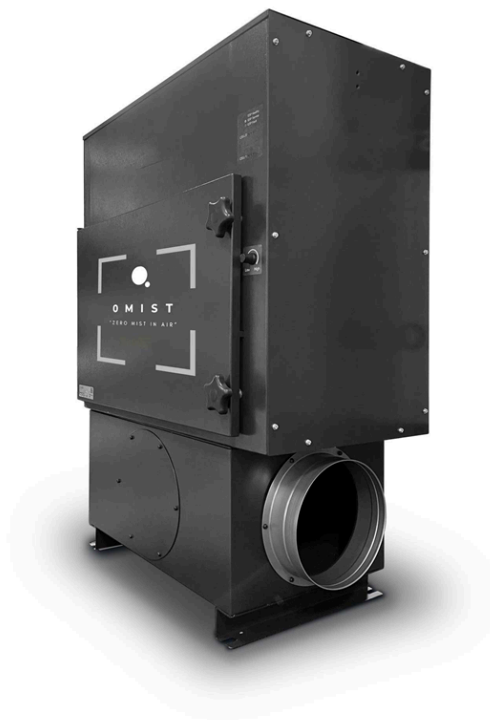
Minimal maintenance required

Specifically designed for industrial application

Energy efficient

Removes oil, mist and smoke

Compact design



The ionisation voltage has been designed to run at a positive potential, making it ideal for Industrial applications. This highly efficient oil mist, smoke and fume collector is effective in most manufacturing processes.

HOW IT'S INSTALLED

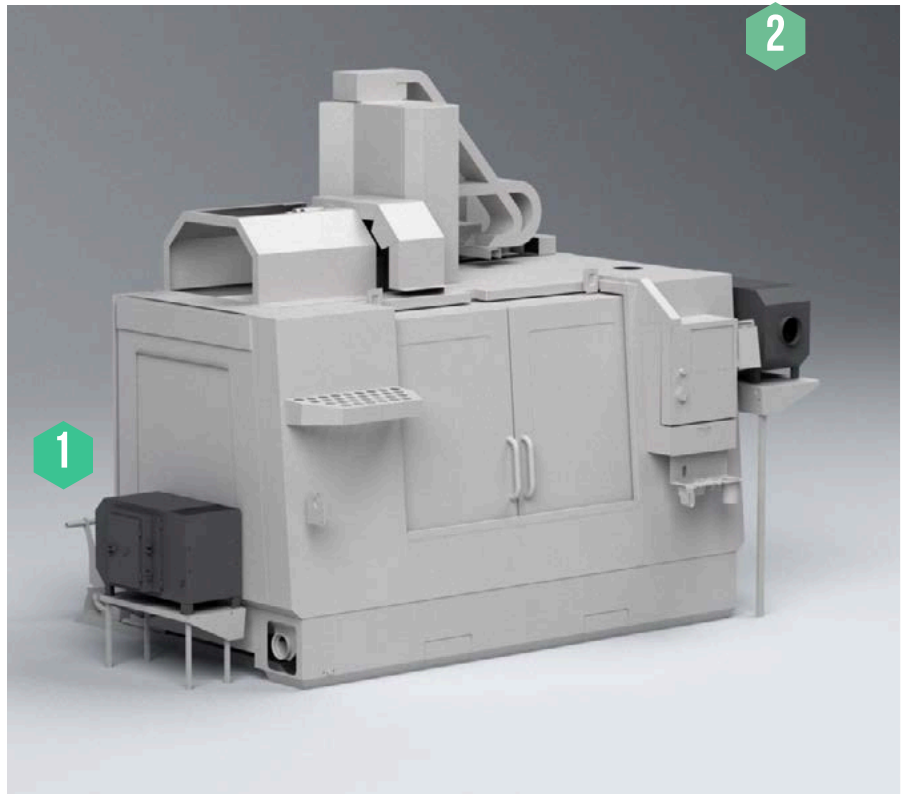
Installations will be directed by the customer and can be either:

01 Side Mounted
with gallows bracket

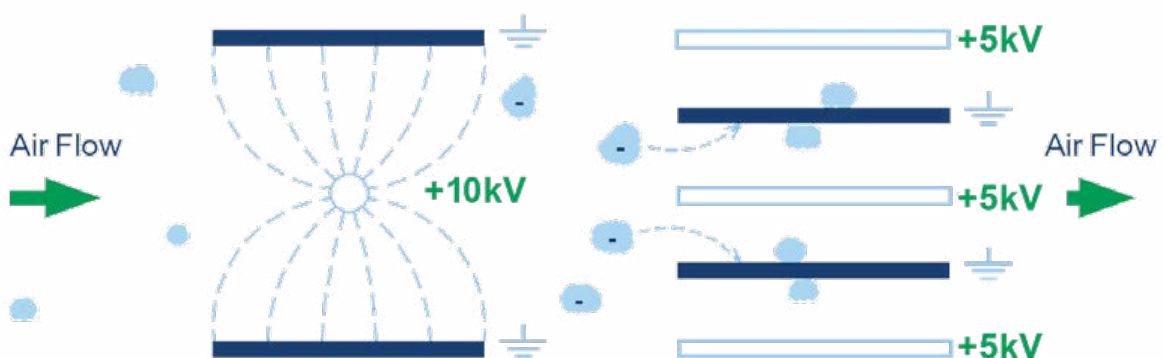
02 Stand mounted
separate

20/40 unit can be directly mounted on large machinery with plenum.

Note: Purified Air do not recommend Direct mounting.



THE ELECTROSTATIC PROCESS



The above diagram shows, in a basic visual, how an electrostatic precipitator works:

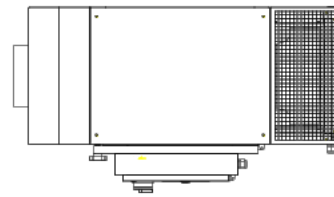
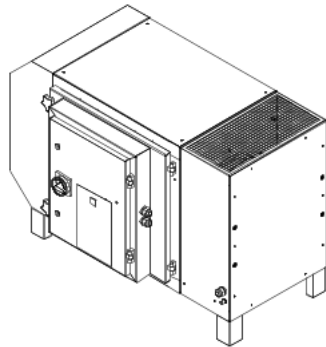
As air passes into the combined ioniser / collector cell, the particulates in the air stream are polarised. As they continue through the ioniser and between the collector cell plates,

TECHNICAL SPECIFICATION

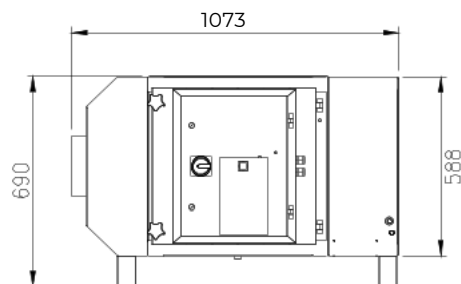
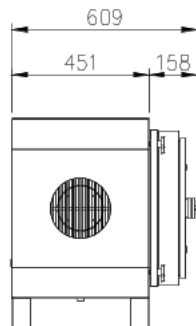
	ES 20	ES 40
Electrical Supply	220/240V 50Hz	220/240V 50Hz
Max Air Volume	up to 2000m3/h	up to 4000m3/h
Max Power Consumption	390w	780w
Dimensions (mm)	W 609 mm	W 1057 mm
	H 690 mm	H 690 mm
	D 1073 mm	D 1073 mm
Weight (kg)	66kg	132kg

DRAWINGS

ES HORIZONTAL 20

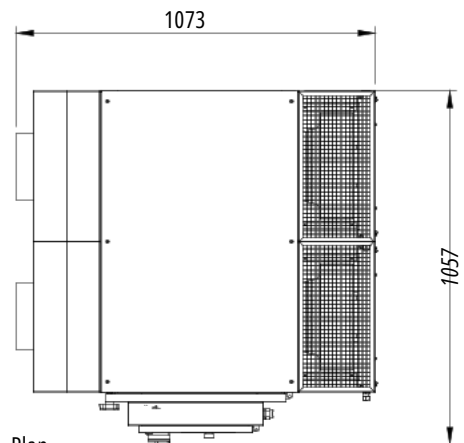
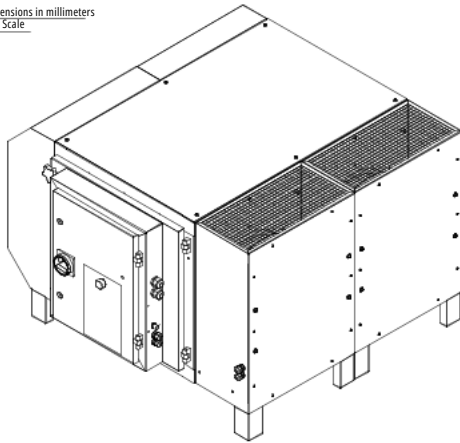


Plan

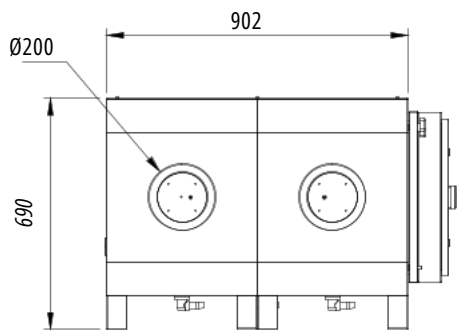


ES HORIZONTAL 40

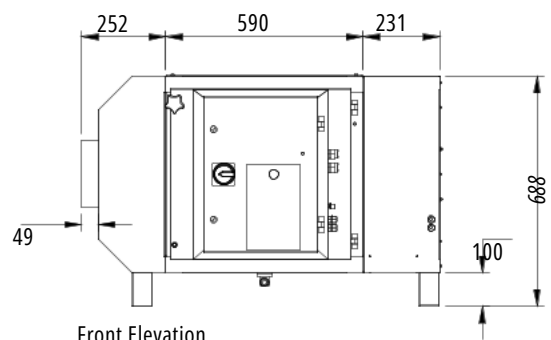
All dimensions in millimeters
Do Not Scale



Plan



Side Elevation



Front Elevation

ES CENTRALIZED

15 | 30 | 45 | 60

Our Electrostatic Precipitators, or ESPs, are ideally suited to larger volumes of smoke, fumes and oil mist. The unit's sizeable modular capacity can be configured from 2500m³/h up to 60,000m³/h. They are IP65- rated and have a built-in sump and drain point.

Access doors and replaceable components enable them to be serviced easily and quickly, reducing workshop downtime. In addition, systems can be configured to remove odour control to offer greater comfort within the workshop or industrial environment by lowering the contaminated air that is exhausted into the atmosphere.

Our products are compact, energy-efficient and affordable for small workshops (cellular) but scalable for large turnkey projects (centralised), delivering a significant ROI.



KEY FEATURES

- Eliminates up to 98% of oil mist, fumes and smoke particles
- Suited for large air volumes
- Filters particles down to sub-micron levels
- Designed with an integral sump
- Modular in design
- Designed for industrial application
- Energy efficient: uses 20–50W
- Quick and easy service access reducing workshop down time
- IP65 rated for outside location

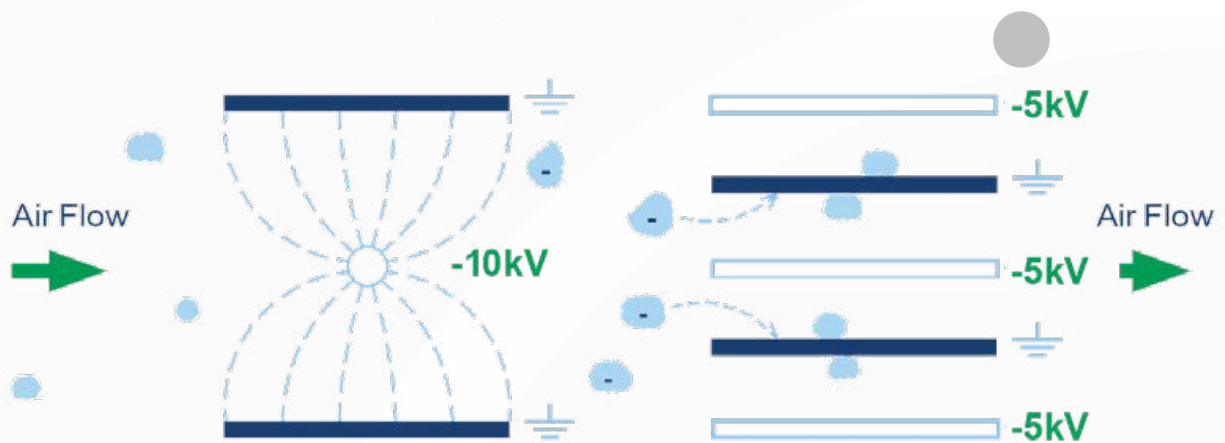
HOW IT WORKS

Our ESP units fit in-line with the workshop ducting and can be configured modularly to cope with all extract volume requirements.

- 01** Smoke, fumes and oil mist particulates
- 02** Air drawn up through the ducting
- 03** ESP - Particulate Control Unit
- 04** Purified air drawn out to exhaust



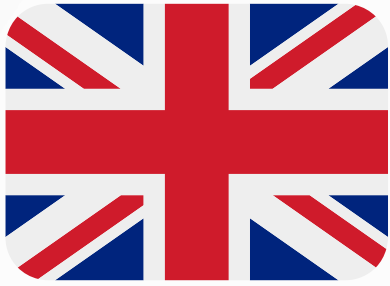
THE ELECTROSTATIC PROCESS



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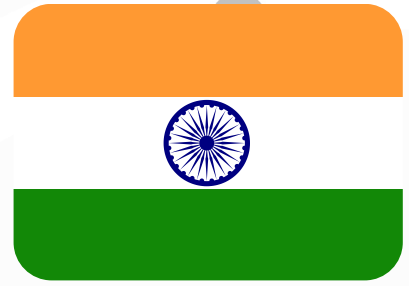
As air passes into the combined ioniser / collector cell, the particulates in the air stream are polarised. As they continue through the ioniser and between the collector cell plates,

the polarised particulates are repelled away from the negatively charged plates and attracted to the earthed plates where they stick and so are filtered out of the air flow.



TECHNOLOGY FROM UK

**MARKET LEADERS
S I N C E
1984**



ASSEMBLED IN INDIA



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