INDUSTRIAL AIR FILTRATION

ESPi Range

600 | 1000 | 2000 | 4000 | CENTRALISED



COMPLETE METALWORKING SOLUTIONS (800) 991-4225 www.ahbinc.com ISO Certified customerservice@ahbinc.com



INDUSTRIAL AIR FILTRATION EXPERTS

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ESPi 600/1000

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ESPi 2000/4000 Product Information

Technical Specificatio

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Purified Air Ltd. has been manufacturing market leading air filtration technology since 1984.

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ESPi 600/1000

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. Specifically designed for the industrial market, this compact unit generates low vibrations, making it ideal for mounting onto fine finishing or highpressure/neat oil machine tools.

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

KEY FEATURES

- Filters particles down to sub-micron levels
 Tested to 99% efficiency
 Low operating costs
- Minimal maintenance required





- Energy efficient
- Removes oil, mist and smoke
- Compact design

HOW IT'S INSTALLED

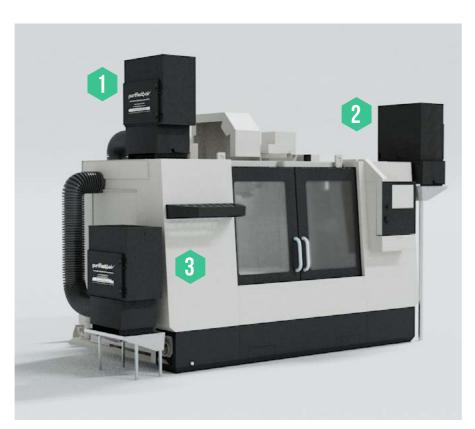
Installations will be directed by the customer and can be either:

Direct mounted 0 with plenum

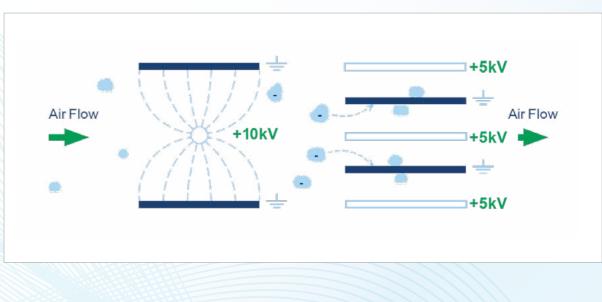
02 Side Mounted with plenum and gallows bracket

03 Stand mounted with plenum separate

Note: Purified Air do not recommend direct mounting



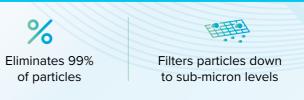
THE ELECTROSTATIC PROCESS



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,

THE BENEFITS OF ELECTROSTATIC TECHNOLOGY





Design







Oil



4 TECHNICAL OVERVIEW

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.





OUR SERVICES



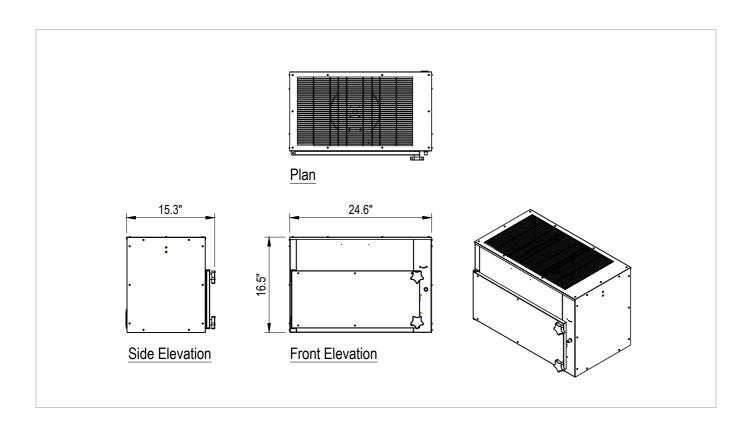


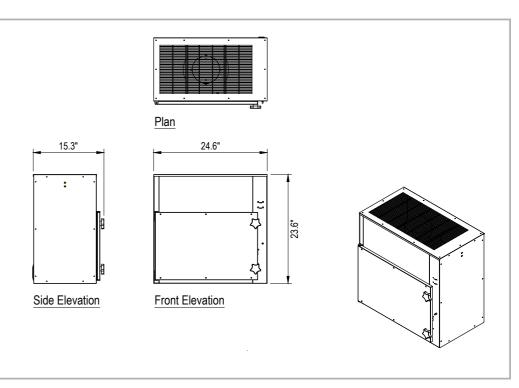
TECHNICAL SPECIFICATION

	ESPI 600	ESPi 1000
Electrical Supply	220/240 50/60Hz	220/240 50/60Hz
Max Air Volume (CFM)	353 CFM	589 CFM
Max Power Consumption	230w	280w
	24.61	24.61
Dimensions (inches)	16.54	23.62
	15.31	15.31
Weight (lbs)	66.15	90.41

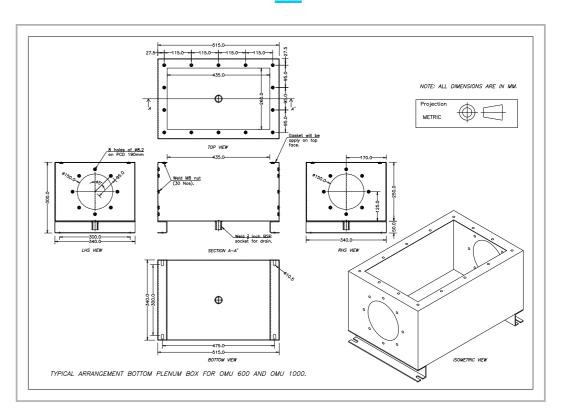
DRAWINGS

ESPi 600





PLENUM



6

ESPi 600 /1000

ESPi 1000

ESPi 2000/4000

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. Specifically designed to work with more significant airflow volumes of larger high-pressure neat oil machines, this highly efficient oil mist, smoke, and fume collector is effective in most manufacturing processes.

KEY FEATURES

- Filters particles down to sub-micron levels
- Tested to 99% efficiency
- Low operating costs
- Minimal maintenance required





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HOW IT'S INSTALLED

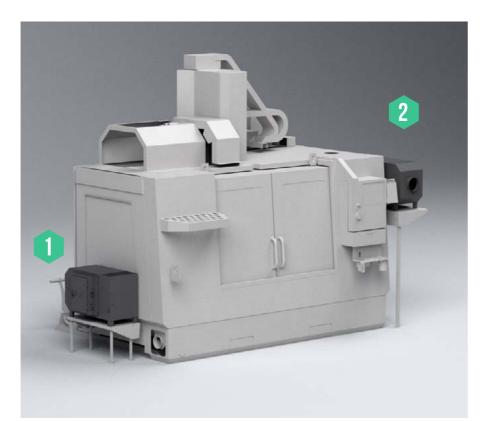
Installations will be directed by the customer and can be either:



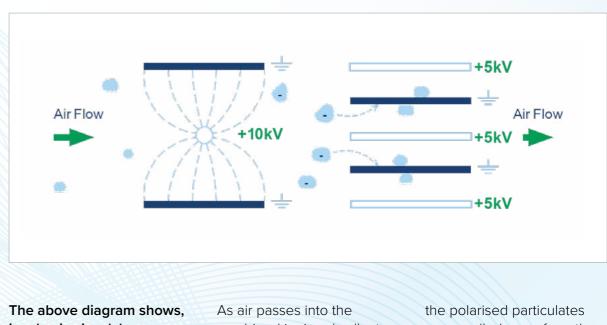
02 Stand mounted separate

2000/4000 unit can only be directly mounted on larger machinery.

Note: Purified Air do not recommend Direct mounting.



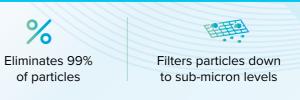
THE ELECTROSTATIC PROCESS



in a basic visual, how an electrostatic precipitator works:

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 BENEFITS OF ELECTROSTATIC TECHNOLOGY





Design







Oil



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OUR SERVICES



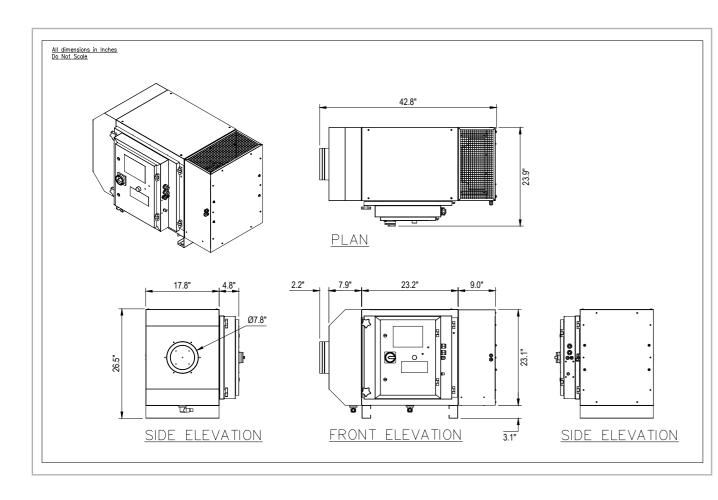


TECHNICAL SPECIFICATION

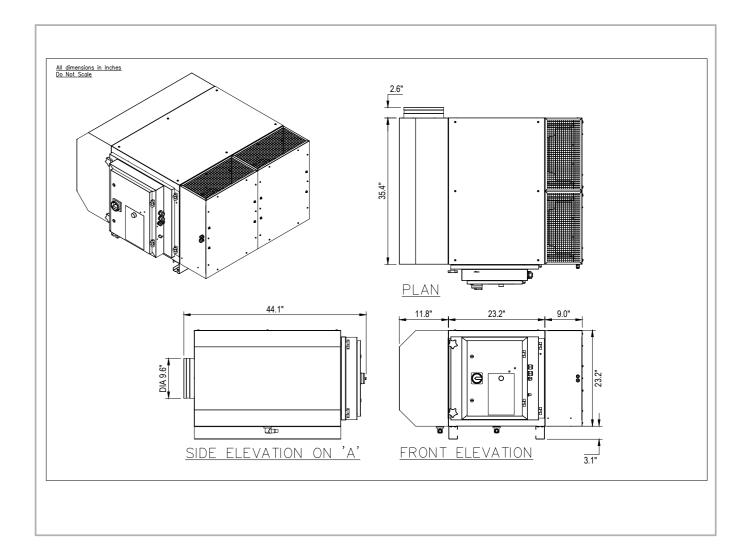
	ESPi 2000	ESPi 4000
Electrical Supply	220/240 50/60Hz	220/240 50/60Hz
Max Air Volume (CFM)	1177 CFM	2354 CFM
Max Power Consumption	540w	1080w
	23.98	41.61
Dimensions (inches)	27.17	27.17
	42.24	42.24
Weight (lbs)	145.53	291.06

DRAWINGS

ESPI 2000



ESPI 4000



ESP 2000/4000

ESP CENTRALISED

1500 | 3000 | 4500 | 6000

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 IP65rated 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, energyefficient 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 submicron levels
- Designed with an integral sump
- Modular in design

ESP CENTRALISED

¢	Designed for industrial	
	application	

Energy efficient: uses 20–50W

Quick and easy service accessreducing workshop down time

IP65 rated

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.

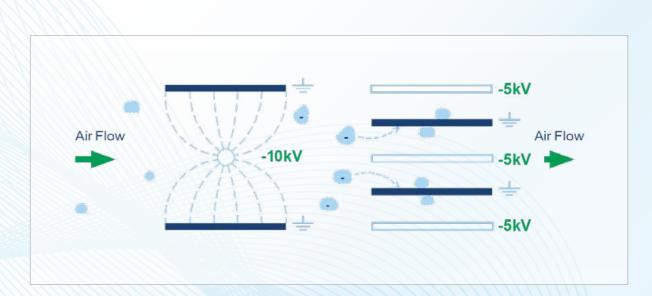
- O1 Smoke, fumes and oil mist particulates
 O2 Air drawn up through the ducting
 O3 ESP Particulate Control Unit
- U3 Control Unit
- 04 Purified air drawn out to exhaust



TECHNICAL SPECIFICATION

	ESP 1500	ESP 3000	ESP 4500	ESP 6000
Electrical Supply	220/240V 50-60Hz	220/240V 50-60Hz	220/240V 50-60Hz	220/240V 50-60Hz
Max Air Volume	1500 CFM	3000 CFM	45000 CFM	6000 CFM
Max Power Consumption	20w	30w	40w	50w
Dimensions (inches)	W 17.7 in	W 35.4 in	W 53.1 in	W 70.9 in
	H24.8 in	H 24.8 in	H 24.8 in	H 24.8 in
	D 25.2 in	D 25.2 in	D 25.2 in	D 25.2 in
Weight (lbs)	122lbs	188 lbs	260 lbs	338 lbs

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 BENEFITS OF ELECTROSTATIC TECHNOLOGY





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ESP CENTRALISED

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purifiedt air

ABOUT US

UK MANUFACTURER

Purified Air's ESPs have been used by some of the world's largest brands since 1984.

SINCE

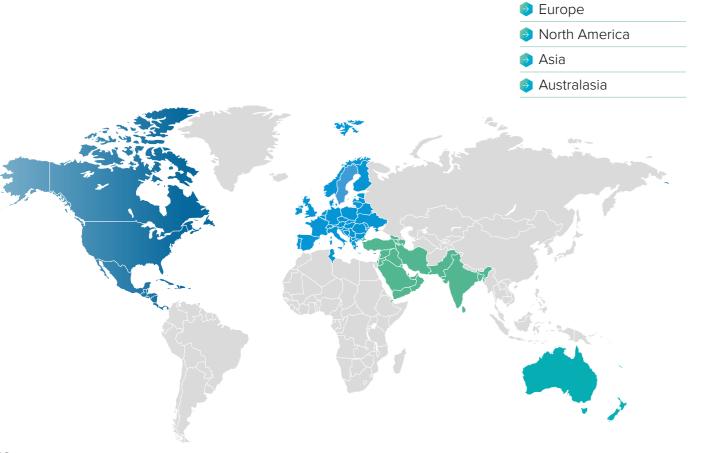
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In those 40 years we have developed a technology first approach allowing us to deliver highly efficient products supporting our partners in many different sectors, covering individual cellular extraction through to large turnkey projects. We are the only UK-based manufacturer of industrial/commercial electrostatic precipitators (ESPs). Modular, affordable, and scalable, our systems are unrivalled, with an efficiency of 99% down to 0.01µm.

WORLDWIDE COVERAGE

United Kingdom

Middle East



GET IN TOUCH



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purifiedair.com

AHB

TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS (800) 991-4225 www.ahbinc.com ISO Certified customerservice@ahbinc.com



purifiedair.com