TOTAL FILTRATION USA



ESPi 4000 AAC AMBIENT AIR CLEANER

Ceiling-suspended electrostatic air cleaning for open shop areas.

2,354 CFM max airflow

Tested to 99% efficiency

Up to 80% less airborne particulate

PRODUCT BROCHURE | VERSION 1.0

total-filtration.com

CLEAN AIR FOR US MACHINE SHOPS

Total Filtration USA LLC supplies industrial air filtration to manufacturers across the US. Our ESPi range captures oil mist, smoke and fumes at the machine. The units are built by a manufacturing partner that has made electrostatic precipitators since 1984, and our founding team brings over 40 years of manufacturing and engineering experience.

ONE PARTNER FOR THE LIFE OF THE SYSTEM

One US point of contact from the first conversation through installation, service parts and support. We only distribute proven products from specialist manufacturers.

WHAT YOU GET FROM TFUSA

US BASED
A US company with sales and technical support here in the US.

BUILT FOR MACHINE SHOPS
Units sized for CNC machine tools, from one machine to a full shop floor.

LOWER RUNNING COSTS
No consumable filters to buy, and less heated or cooled air exhausted outside.

HELP WHEN YOU NEED IT
We help you choose, size and install the right unit, then supply the parts after.

Tested to 99%
Filtration efficiency
Captures smoke, fumes and oil mist down to sub-micron levels.

Up to 80%
Less airborne particulate
When the unit is properly installed and operated.

No filters
Low operating costs
Washable collector plates, no consumable filters.

Figures are the manufacturer's published data. Results vary by machine, fluid and process.

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HOW THE ESPi AAC WORKS

The Ambient Air Cleaner hangs above open work areas and cleans the air already in the building. It uses the same electrostatic process as our machine-mounted ESPi units.

1

DRAW IN

The unit draws in air from the open shop around it.

2

CHARGE

A high-voltage ionizer gives each particle an electrical charge.

3

COLLECT

Charged particles stick to the grounded collector plates.

4

RETURN

Clean, tempered air goes straight back into the building.

Tested to 99%
Filtration efficiency

Up to 80%
Less airborne particulate

No consumables
Washable collector plates

WHY CLEAN THE AIR INSIDE

Exhausting contaminated air also exhausts air you have paid to heat or cool. The AAC filters the tempered air and returns it to the building, which can mean substantial savings on heating and cooling costs.

TYPICAL APPLICATIONS

Open applications in machine shops and plants
General shop air between machines
Smoke, fumes and oil mist
Facilities working to stay below recommended exposure limits

SUPPORTS OSHA COMPLIANCE

The AAC helps keep plant air quality below recommended exposure limits and supports compliance with OSHA permissible exposure limits (PELs) for airborne particulates (29 CFR 1910.1000).

ESPi 4000 AAC

An ambient air cleaner that hangs above open applications and filters the air in the building, helping keep plant air quality below recommended exposure limits.



WHERE IT FITS

- Above open applications in machine shops and plants
- Facilities that want to recirculate tempered air instead of exhausting it

KEY FEATURES

- Tested to 99% efficiency, down to sub-micron particles
- Reduces airborne particulate matter (PM) by up to 80%
- No consumable filters, for low operating costs
- Energy efficient, using no more than 1,080 W
- Easy to install, with minimal maintenance

CEILING SUSPENDED

Designed to hang above open applications.

SPECIFICATIONS

Max airflow	Up to 2,354 CFM
Filtration efficiency	Tested to 99%
Particulate reduction	Up to 80% less airborne PM
Dimensions	W 41.7 x H 27.2 x D 32.3 in
Weight	280 lb
Max power consumption	1,080 W
Electrical supply	220/240 V, single phase, 50/60 Hz
Mounting	Suspended above open applications
Consumable filters	None
Removes	Smoke, fumes and oil mist

INSTALLATION AND SUPPORT

ESPi 4000 AAC hangs above the area it serves, and our US team helps from selection to service.



HOW IT'S INSTALLED

The AAC is suspended above the open area it serves and returns cleaned, tempered air directly to the building.

AT A GLANCE

Mounting	Suspended from above
Position	Over open applications
Air path	Clean air returns to the space

SUPPORT AND SELECTION

We help you choose the right unit for the machine, the process and the space around it.

1. **ASSESS**
   We look at the floor area, the processes and where the mist and smoke collect.
2. **SIZE**
   We recommend how many AAC units you need and where to hang them.
3. **INSTALL**
   We provide install guidance and can recommend qualified install partners in most US regions.
4. **MAINTAIN**
   Wash the collector plates as needed. There are no consumable filters to buy.

US-BASED TECHNICAL SUPPORT | PARTS AND CONSUMABLES | SERVICE GUIDANCE



TOTAL FILTRATION USA

Industrial air cleaning for US manufacturers.

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