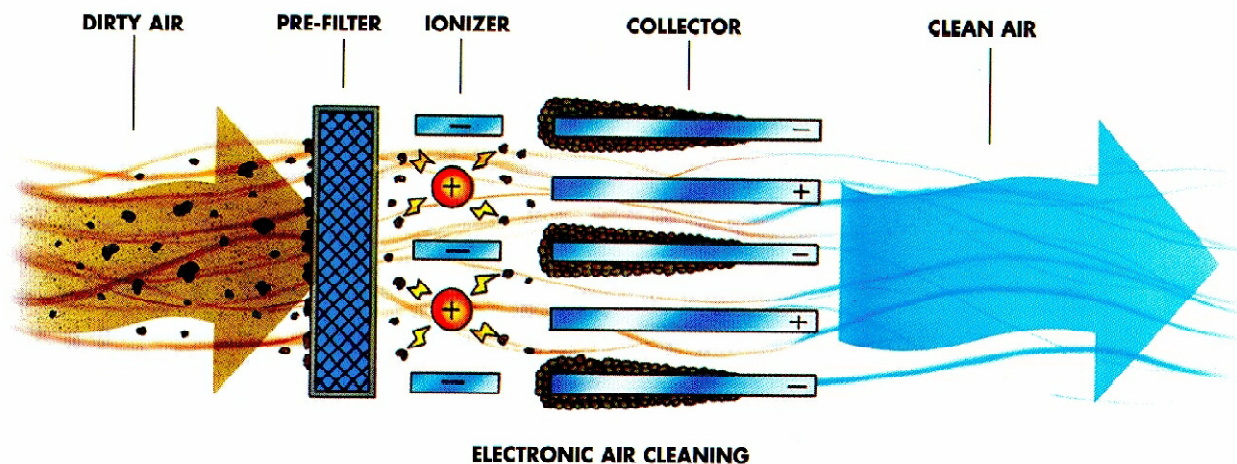


ESP is a new generation electrostatic precipitator used to control process generated airborne contaminants. ESP is a reliable solution for both indoor air quality problems and contaminated exhaust air. It's available in side access units for use with central air handlers or as stand alone fan powered unit.



Dependable high frequency electronics, safe/no-short charging system, rugged ionizer electrodes and improved automatic cleaning are just a few of the innovations developed to make ESP the most reliable ESP ever. High efficiency particle collection is delivered instantly and continuously. The extremely low resistance to airflow means less fan horsepower is needed, compared to conventional media filtration, and since resistance to airflow is constant, the system air volume is always maintained. Optional bonded activated carbon can be added for odor control, making ESP the **IDEAL SOLUTION** for ventilation or exhaust air quality problems.

Reliability, high performance and low operating cost make ESP an excellent choice for indoor air cleaning or exhaust air pollution control.

Key Features

- New Generation ESP designed for dependable operation
- Reliable high frequency electronics do not use fragile ionizing wires or insulators
- Specified efficiency is instant and constant
- Resistance to airflow is a constant 0.25" w.g., resulting in reduced fan horsepower
- Constant resistance to airflow prevents fluctuations in system air volume
- Permanent aluminum collector cells never need replacing
- Built-in automatic cleaning and PLC controls
- Optional bonded carbon for gas/odor control
- Optional custom blower/motor package
- Optional safety filter

Applications

ESP delivers dependable, continuous duty operation, controlling a broad range of process generated airborne contaminants.

Below is a partial listing of ESP applications:

- Commercial cooking kitchen exhaust
- Machine tool coolant mist
- Welding and soldering fume
- Cold heading smoke
- Forging lubricant effluent
- Heat treating smoke
- Vinyl extrusion plasticizers
- Rubber curing and molding smoke
- Textile finishing exhaust
- Commercial HVAC systems

ESP COMPONENTS



SYSTEM PLC CONTROL



HIGH VOLTAGE POWER



ESP
(metal mesh mist eliminators removed)



Detergent Dispenser



System Accessories
(solenoid valve, backflow preventer,

System Description

ESP Side Access Model (SA) is a factory packaged system including side access housing with upstream and downstream flanges, integral wash system, pre and post mist eliminators, electronic collectors, system control, detergent dispenser, and accessories. The factory assembled system is designed for mating to air handlers and ventilation systems or as a stand alone unit factory furnished blower/motor package.

The System PLC Control is programmed to start and stop the system according to customer requirements. At a predetermined schedule, the Control also initiates a water/detergent wash cycle to clean away collected contaminants. Spent wash water is drained from the bottom drain pan, ESP is forced dried and ready to continue operations. Start, stop and wash functions can also be initiated by manual push button.

System Accessories

Each ESP Model SA is furnished with the following standard accessories.

Pressure gage	1 each
Wash water strainer	1 each
Ball valve	1 each
Back flow preventer	1 each
Solenoid valve	1 each
Detergent	55 gal

Utilities

Electrical: Standard: 120Vac, 1 Ph, 60 Hz
 Optional: 208 - 230 Vac, 1 Ph, 50/60 Hz
 Wash Water: (See Selection Table) gpm @ 50 psig
 System Drain: Integral 3" FNPT

Options

Transitions, plenums and steel channel support base are furnished to the customers specifications.

Odor/Gas Phase Control: Bonded, Activated carbon panels are furnished to remove a broad range of both base and acid gases. Panels are held in place by gasketed, extruded aluminum tracks arranged in a Vee bank configuration.

Blower: Custom blower/motor and motor starter combinations are available in a variety of sizes and styles to meet system air volume and static resistance requirements.

