

# AQE4000 Overhead Cartridge System

Supplying Clean Air to Industry



The new Overhead Cartridge System from Air Quality Engineering Inc. is a self-contained, continuous-cleaning cartridge media air cleaner for use in source capture applications in industry. The Model AQE 4000 can be ordered in one and two arm configurations or permanently ducted to capture contaminants such as welding smoke, grinding dust, plastic dust and other fine particles. The AQE 4000 can be stand or ceiling mounted.



**AIR QUALITY  
ENGINEERING**

Air Quality Engineering, founded in 1973, is proud to offer a continued, superior level of experience in manufacturing complete air filtration systems that provide the highest performance, efficiency, and capacity for the money. Our sales and engineering team's mission is to identify the most cost-effective, high-quality solutions for our customers' needs, whether commercial, industrial or residential.

### Principles of Operation:

Airborne contaminants enter the AQE4000 through the optional hood/arm assembly at a rate of 1250 cubic feet of air per minute (cfm) per arm. Heavy particles are propelled downward through the venturi and into the clean out drawer. Small submicron particles are then trapped within the pleats of the four 99.8% efficient cartridge filters. The cleaned air is then discharged through the back of the unit. The cartridge filters are cleaned automatically using a reverse pulse system and a solid state automatic control timer.

### STANDARD FEATURES:

- Automatic cleaning system
- Solid state control timer
- 5hp motor
- 1100 square feet of media
- 99.8% efficient at .5 micron
- Overload protection
- Three year limited warranty.

### OPTIONAL FEATURES:

- Externally supported 13 arms with 360° rotation
- Double arm configuration (6' or 8' diameter)
- Photohelic controller
- Hood mounted halogen light and controls
- Silencer
- Sprinkler weldment
- Wide selection of filter options including flame retardant & hydro-oleophobic coated

### CONTROLS:

All models include control circuitry and thermal protection.

Specifications subject to change without notice.

This unit is required to be used in source capture configurations only when installed in California. Units purchased for installation in California must be purchased with Air Quality Engineering supplied and installed source capture plenums.



### AQE4000 FEATURES & SPECIFICATIONS

DIMENSIONS:	21" H x 58" W x 98" D
WEIGHT:	Unit 656lbs Optional Arm(s): 13 - 73lbs
ARM ASSEMBLY (OPTIONAL):	13 long x 6' or 8' diameter. Externally supported arm with full 360° arm rotation. Arm assembly incorporates a gas spring which provides easy up and down movement. 18ga aluminum hood with handle. Hood moves easily vertically and horizontally.
AIR FLOW VOLUME:	2500 cfm total. 1250 per arm
MOTOR:	5HP
BLOWER:	Direct drive BI. Air Foil Wheel 13.5" diameter:
CABINET CONSTRUCTION:	16Ga welded steel.
CONTROL TIMER:	Pulse frequency adjustable from 15 seconds to 8 hours
POWER:	208-240V 13.4 amps max 3 phase 440-480V 6.6 amps max 3 phase
FINISH:	Durable baked enamel paint.
FILTRATION:	Four HE cartridge filters 12 3/4" diameter x 30'. 1100sq ft. total. 99.8% efficient at .5 micron.
FILTER ACCESS:	End load through access covers
FILTER CLEANING:	Self-Cleaning Reverse Pulse Jet System which utilizes two, one inch diaphragm valves. Requires 80-120 psi of shop supplied compressed air.
NOISE LEVEL:	79 dBA at 6.
WARRANTY:	Limited 36 month warranty.

