

# Kitchen Exhaust Air Cleaning Systems



AIR QUALITY  
ENGINEERING



## Keeping Pace

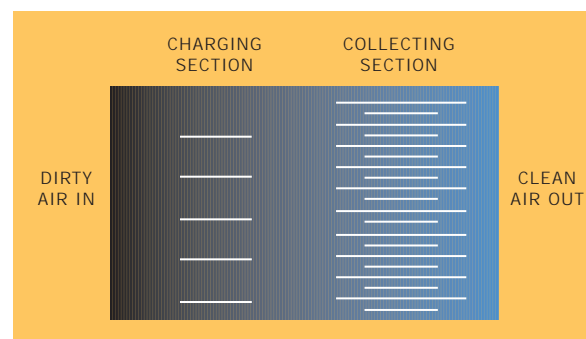
In today's busy world, more people are going out to eat. For restaurants this growing trend not only increases traffic and revenues but the kitchen hazards associated with this new volume. As kitchen cooking production grows, restaurants will exhaust more smoke, grease, and odors into the air. Local neighbors may raise concerns about air quality, and restaurants may put their roofs at risk with grease pooling that attacks roof materials.

To help restaurants keep pace, Air Quality Engineering offers its Kitchen Air Cleaning Exhaust Systems. These systems use a proven dual-stage electronic air cleaning technique—electrostatic precipitation—to remove smoke, grease, mist, and other particulates from the air.

## Eliminating Emissions

Dual-stage electrostatic precipitators include two parts: the charging and the collecting sections. In the charging section, the incoming smoke, grease, mist, and other particulates pass by ionizer wires which impart a positive electrical charge to these contaminants. The positively charged contaminants are then drawn through the collection section which contains a secondary electrical field with negatively charged aluminum plates. Since opposite charges attract, the positively charged contaminants collect on the negatively charged aluminum plates, removing them from the airstream.

### Electronic Air Cleaning



## Making a Choice

In order to meet the diverse needs of restaurants, Air Quality Engineering offers two electrostatic precipitator product lines—the AutoClean™ and the F72.

**For the ultimate in quality and features, choose the AutoClean—a premier, multi-jet, programmable self-washing system.**



### AUTOCLEAN

- + Self-wash cycle to eliminate filter replacement and electrostatic precipitator cell cleaning
- + Energy efficient units minimize electrical costs
- + Superior quality and construction virtually eliminates maintenance costs
- + Stackable customized modules provide design and installation flexibility for any size installations
- + Clean HVAC coils increase thermal efficiency for energy savings
- + Up to 99% efficient to ensure clean air
- + Optional carbon filters control odors

## STANDING OUT ABOVE THE REST

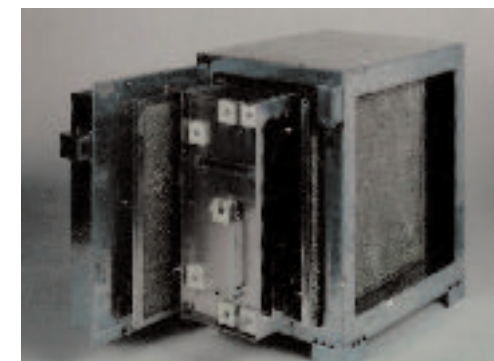
### AUTOCLEAN SELF-WASH

Basic electrostatic precipitators remove grease, odors, and smoke from the air. In order to maintain efficient air cleaning, their electronic cells must be manually removed and cleaned.

Only one electrostatic air cleaner on the market today, AutoClean, features a self-washing function. For the ultimate in convenience and dependability, AutoClean employs a wash bar that rotates back and forth while shuttling the bar laterally within the cabinet. This dual-motion

provides complete cleaning coverage of dual-stage electronic cells and when used with our environmentally friendly, concentrated cell cleaner, the AutoClean multi-jet wash system provides superior air cleaning efficiency and cost control.

**For an easy, economical solution, choose the F72 non-wash system.**



### F72

- + Economical, non-wash system requires no plumbing
- + Galvanized finish withstands the demands of restaurant environments
- + Side access door for easy maintenance
- + Stackable customized modules provide design and installation flexibility for any size installations
- + Up to 99% efficient to ensure clean air
- + Optional carbon filters control odors

Rooftop installation of AutoClean with Optional outdoor housing.



For more detailed specifications go to [www.air-quality-eng.com](http://www.air-quality-eng.com)

### AUTOCLEAN SPECIFICATIONS

AutoClean 2000			AutoClean 4000			AutoClean 8000		
CFM	Efficiency	Pressure Drop (inches water)	CFM	Efficiency	Pressure Drop (inches water)	CFM	Efficiency	Pressure Drop (inches water)
1000	99%	0.06"	2000	99%	0.06"	4000	99%	0.06"
1500	99%	0.12"	3000	99%	0.12"	6000	99%	0.12"
2000	95%	0.22"	4000	95%	0.22"	8000	95%	0.22"

### F-72 SPECIFICATIONS

F72 A			F72 B		
CFM	Efficiency	Pressure Drop (inches water)	CFM	Efficiency	Pressure Drop (inches water)
1000	99%	0.06"	2000	99%	0.06"
1500	99%	0.12"	3000	99%	0.12"
2000	95%	0.22"	4000	95%	0.22"

#### OPTIONAL ACCESSORIES

- Double-pass electrostatic module
- Carbon after filter for odor control
- Outdoor housings
- Fans and motors
- Cell cleaner



For over 30 years, Air Quality Engineering has designed and manufactured air cleaners for industrial, commercial, and residential users. For more information contact:



**AIR QUALITY  
ENGINEERING**

**Air Quality Engineering, Inc.**  
 7140 Northland Drive North  
 Brooklyn Park, MN 55428-1520  
 Phone 800.328.0787  
 FAX 763.531.9900  
 Email [info@air-quality-eng.com](mailto:info@air-quality-eng.com)  
[www.air-quality-eng.com](http://www.air-quality-eng.com)

Specifications subject to change without notification

PN 51787 07/04