

KITCHEN VENTILATION REPORT

Pollution Control Units

Triple Filter Ecology Unit VS ESP Electrostatic

Both filter units and ESP units are great options when exhausting to the roof is not possible. They both have the ability to be put just about anywhere, from above the hood to a parking garage. They both will capture smoke and reduce odors. Often used in non-traditional buildings such as mixed use spaces, stadiums, convention centers, and apartment buildings.

The biggest differences between the two are that triple pass filter units utilize three stages of progressively higher performance filtration to remove smoke and grease particulate.

ESP units utilize charged electrical fields to remove smoke and grease particulate.

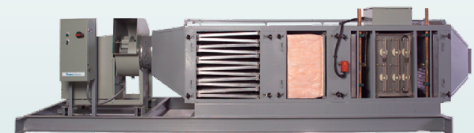
Triple filter units require replacement filters when they become saturated. ESP units have their own wash-down system for cleaning. Triple filter units cost less upfront and do not need a water line or drain. ESP units have a lower annual operating cost. However, adding a UV hood to a triple filter will drop operational cost down by 50% but will increase the initial cost. This is ideal if water and drain line to the PCU is not possible.

The question that often comes up is what is the right unit? Below are some questions to ask before sizing and picking the appropriate unit for your application.

- What is the effluent and cooking volume?
- What is the cooking fuel? (Live fuel must use ESP)
- What is the cooking equipment will be used?
- Where will the unit be placed?
- What is the required duct run?
- What CFMS will be needed (size of unit)?



Triple Filter CAS



Electrostatic Precipitator

Initial Installation & Annual Operating Cost Analysis		
ESTIMATE PROPOSAL		
POLLUTION CONTROL UNIT COMPARISON		
I. Initial Installation Costs		
	Triple Pass Filter	Electrostatic Precipitator
Initial PCU/ Control Panel Cost	\$40,152	\$65,208
Electrical Hookup: Control Panel (est)	\$550	\$1,200
Plumbing Hookup: Drains, Hot Water, Det.	\$0	\$2,000
Total	\$40,702	\$68,408
II. Annual Operating Costs		
Air Filter Replacement Cost	\$12,000	\$1,615
Carbon Filter Replacement Costs	\$9,020	\$6,013
Maintenance labor (est.)	\$5,400	\$3,000
Detergent Costs	\$0	\$7,284
Hot Water Costs (gas)	\$0	\$416
Hot Water Costs (electric)	\$0	\$0
Total	\$26,420	\$18,329
Simple payback ESP (yrs): 3.4		

Heavy duty cooking, 1.5 yrs.

Initial Installation & Annual Operating Cost Analysis		
ESTIMATE PROPOSAL		
POLLUTION CONTROL UNIT COMPARISON		
I. Initial Installation Costs		
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Initial PCU/ Control Panel Cost	\$40,152	\$65,208
Electrical Hookup: Control Panel (est)	\$550	\$1,200
Plumbing Hookup: Drains, Hot Water, Det.	\$0	\$2,000
Total	\$40,702	\$68,408
II. Annual Operating Costs		
Air Filter Replacement Cost	\$20,946	\$1,615
Carbon Filter Replacement Costs	\$13,630	\$12,027
Maintenance labor (est.)	\$7,800	\$3,000
Detergent Costs	\$0	\$7,284
Hot Water Costs (gas)	\$0	\$416
Hot Water Costs (electric)	\$0	\$0
Total	\$42,276	\$24,342
Simple payback ESP (yrs): 1.5		

Medium duty cooking, 3.4 yrs.



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