

EcoClean™ Kitchen Exhaust Ecology Unit

PureAIR
FILTRATION



PureAir's EcoClean™ Kitchen Exhaust Ecology Unit (EcoClean™) eliminates and removes kitchen grease, odors, and gases without spraying additional chemicals into the environment. Kitchen odors stay where they belong...in the kitchen.

Exhaust airstreams carry a complex array of gaseous compounds at elevated concentrations and temperatures that can cause customer and neighborhood odor complaints.

Using a multi-stage filtration system to filter particulates and gases, commercial buildings get a high-performance, cost effective, UL Rated system for interior and exterior odor and smoke protection.

Standard Equipment

Filter differential pressure monitoring system contains DWYER Series 2000 gauges that monitor pressure drops across the pre-filter, all particulate filters, and system.

EcoClean™ units are filled with CPS12 Blend adsorbent media. With the combined benefits of PureAir 12 and activated carbon, CPS12 Blend is designed for the broadest removal of odorous gases.

Model	Max Airflow CMH (CFM)
EC-202	2000 (1100)
EC-402	4000 (2300)
EC-404	8000 (4600)
EC-604	12000 (7000)
EC-606	18000 (10000)
EC-707	24500 (14000)
Larger and custom sizes available by special order	

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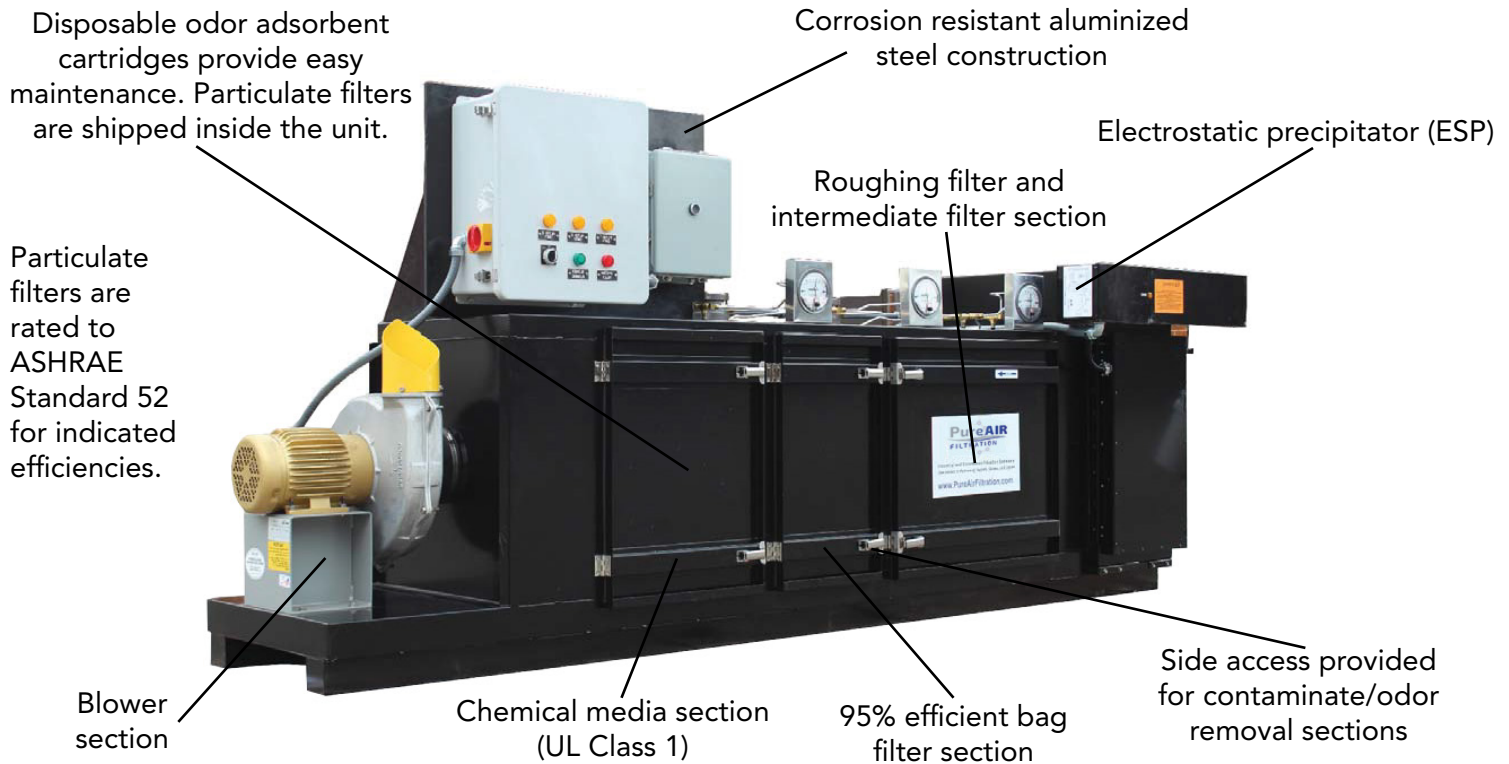
www.PureAirFiltration.com | 6050 Peachtree Pkwy, Suite 240-187, Atlanta, GA, 30092 USA

BENEFITS	FEATURES
High Filtration Efficiency	<ul style="list-style-type: none"> • 95% removal efficiency • Specially formulated kitchen odor adsorbent media • Suitable for exhausting into car parks and other non-critical zones as required by local codes • Exhaust fan and final filters • Special kitchen application fans with TEFC motors located 'outside airstream' • Motors Class F insulation, TEFC, high efficiency induction type meeting voltages for 50 and 60 Hz applications
Quick Access	<ul style="list-style-type: none"> • Dual-side access doors and panels
Low Maintenance	<ul style="list-style-type: none"> • Minimizes filter replacement service costs with a specially designed filter sequence
Customizable	<ul style="list-style-type: none"> • Optional UV for microbial sterilization • Optional electrostatic precipitation stage • Custom designs and modular sections available • Optional fire dampeners • Optional control package with filter monitoring
Multiple Applications	<ul style="list-style-type: none"> • Improve Indoor Air Quality • Commercial Odor Control
UL and NFPA Compliant	<ul style="list-style-type: none"> • NFPA 96 • UL 762 • UL 1046 • UL 723 • UL 900

Notable Customers:

- Al-Bayt Stadium
- Atlanta Smokehouse
- Curio Stromberg Metal Works
- JGB International
- Jabal Omar Development Company
- Jeddah Hospital
- Taif Hospital

Well-designed technology that performs the way you need it to



Filter Sequence

1st Stage (Optional)	<ul style="list-style-type: none"> • Electrostatic Precipitation (autowash ESP or manual) • Dry type and wet type self-cleaning ESP available to remove 95% of smoke.
1st Stage	<ul style="list-style-type: none"> • Roughing grease pre-filter, rated at average efficiency 30%; 51 mm (2 in) thick aluminum filters are supplied. • Filters are rated UL Class 2 • Quantity and sizes of filters as per unit selection. • This section has a drain pan and drain pipe. • Connections are available on the bottom of the unit on both sides.
2nd Stage	<ul style="list-style-type: none"> • Intermediate filter, rated at average efficiency 30%; 51 mm (2 in) thick filters are Koch Multi-pleat • Filters are rated UL Class 1 • Quantity and sizes of filters as per unit selection.
3rd Stage	<ul style="list-style-type: none"> • Bag filter, rated at average efficiency 95% by the DOP test method (0.3 micrometer particles); 36 in. (914 mm) thick filters • Filters are rated UL Class 2 • Quantity and sizes of filters as per unit selection.
4th Stage	<ul style="list-style-type: none"> • Chemical Media Section, PP18 modules, complete with CPS Blend Media. • Quantity and sizes of filters as per unit selection • UL Class 1 rated
5th Stage	<ul style="list-style-type: none"> • Chemical Media Section, PP18 modules, complete with CPS Blend Media • Quantity and sizes of filters as per unit selection • UL Class 1 rated
6th Stage	<ul style="list-style-type: none"> • External or internal blower. External blowers must be Class 2, UL762 approved. Internal blower must use smoke extraction motor.

The best odor, gas, and grease removal system on the market

Blower (Internal or External)

The blower features a centrifugal backward inclined single width, single inlet arrangement 9/10 depending on the application. The TEFC motor is located outside the exhaust air stream and is completely enclosed with a weather guard. The cleanout door, drain, and shaft cooler that protect the bearings are available on all blowers. Fan and motor feature fixed sheaves drive assemblies.

The blower/motor efficiency is based on maximum airflow volume (cfm) in the listed range. Other selections with different wheels and motors are available based on required cfm and external static pressure (ESP).

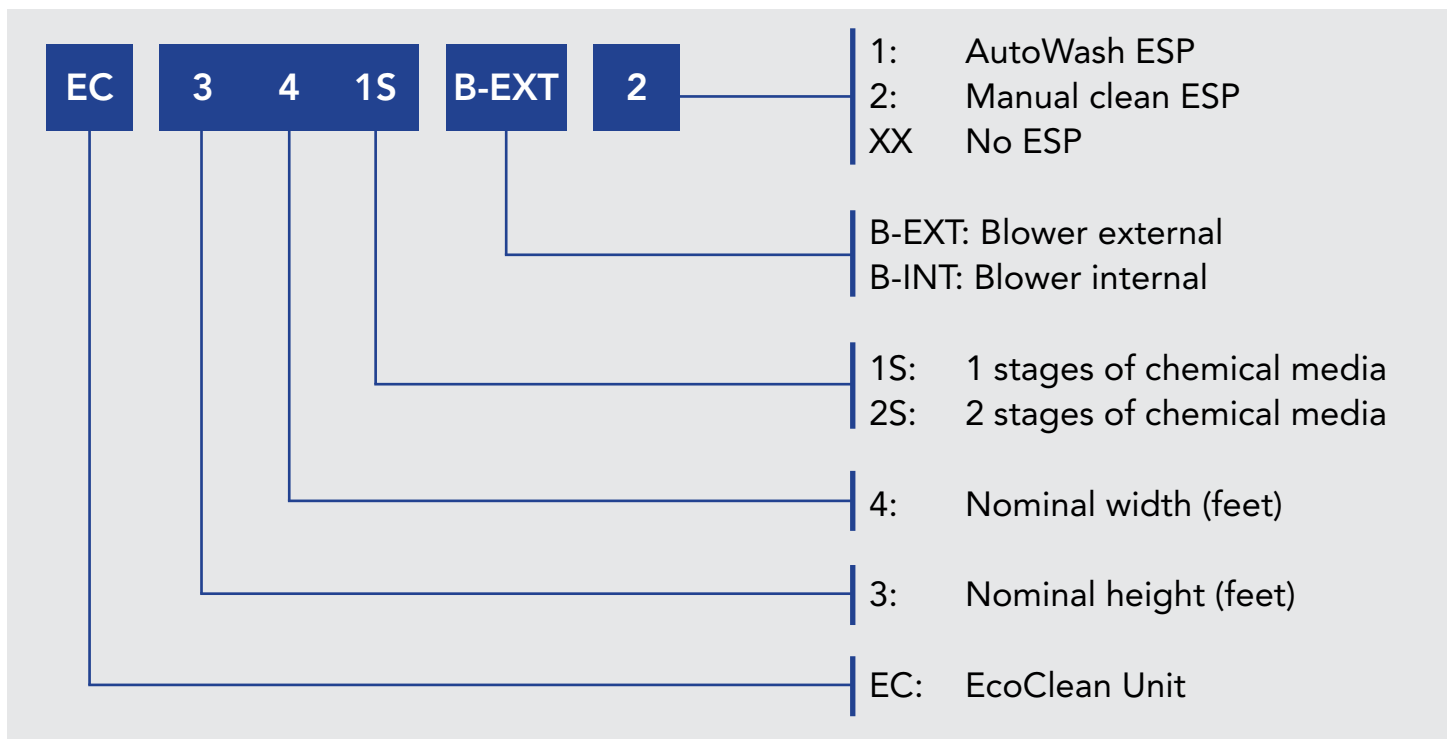
E-MAGIC Control System

The PureAir E-MAGIC PLC Control system is a unique system designed to provide complete control of PureAir EcoClean™ units. The E-MAGIC system ensures all critical components are operating at peak performance and safely shut down during cleaning operations.

Features include real-time status, push button control, disconnect switch, safety lockout, emergency stop, automatic re-start and shutdown, compensation for DST, and digital output meters.

Complete cleaning cycles of filtering components are performed using easily-adjusted special detergent blends and oscillating sprayers. Fluids are drained from the unit followed by air drying from the unit's own blower.

Ordering Information



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