



ECOLOGY UNIT EV ECU



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ECOLOGY UNIT

The ecology unit's filtration system stands as a pivotal component in meeting the stringent criteria of kitchen ventilation. Recognizing that cooking exhaust encompasses a medley of grease particles, dust, vapor, and organic compounds, relying solely on a hood and fan proves inadequate in achieving comprehensive ventilation. Enter Boton Air Industries, offering cutting-edge ecology units engineered to tackle the challenge of exhaust emissions head-on

Our high-efficiency ecology units are meticulously designed to address the multifaceted nature of cooking exhaust. Employing a sophisticated multi-stage filtration system, these units effectively capture particulates and eliminate grease and smoke generated during culinary endeavors. The components of our multi-stage filtration system include pre-filters, electrostatic precipitators bag filters, and carbon filters, each playing a crucial role in ensuring pristine air quality ,(ESP) .within kitchen environments

The journey begins with pre-filters, strategically positioned to swiftly remove dust and larger particles, laying the foundation for subsequent filtration stages. Next, the exhaust traverses through ESP filters and bag filters, diligently engineered to trap grease particles with unparalleled .efficiency, thereby safeguarding ducts and ventilation systems from debilitating buildup

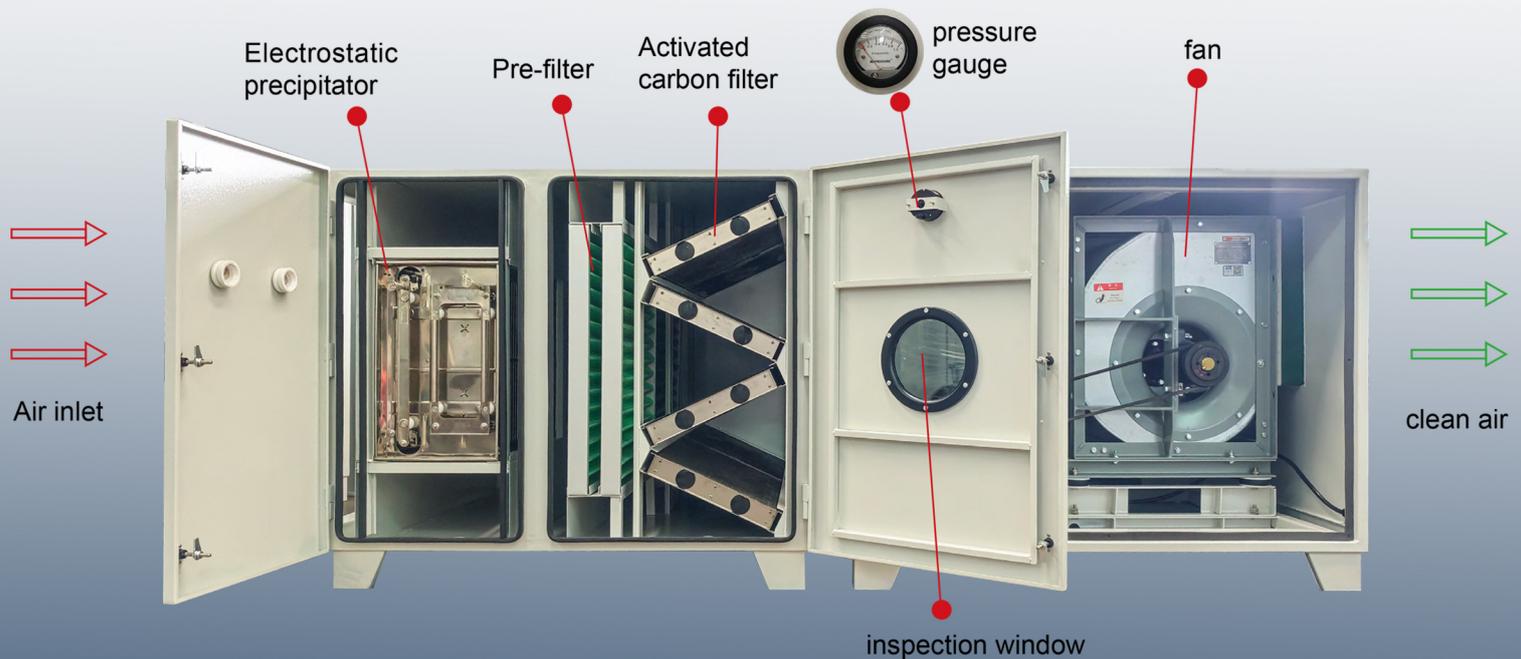
To address olfactory concerns, our ecology units are equipped with carbon filters, meticulously .crafted to neutralize and eliminate odors, ensuring a fresh and inviting culinary atmosphere Moreover, our adaptable system allows for customizable combinations tailored to meet the unique requirements of each customer, ensuring optimal performance and satisfaction. With Boton Air Industries' ecology units, rest assured, your kitchen ventilation needs are met with precision and .efficacy, fostering a cleaner, safer, and more enjoyable culinary experience for all



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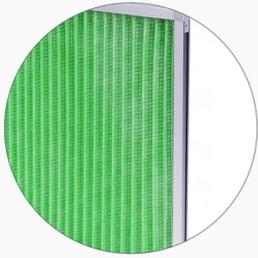
The ecology unit is combined with an electrostatic precipitator (ESP), pre-filter, activated carbon filter and fan. High efficiency in removing big particles and fine particles and reducing the odor hazard. Filters increase efficiency by stage





Electrostatic precipitator

Our ESP filters utilize high voltage electrostatic ionization technology to capture the majority of grease particle in cooking fume.



Pre-filter

The G4 grade filters for capturing of large air-borne articles. The average efficiency is 90%.



Activated carbon filter

It's designed for odor control system. The activated carbon filter module box is reusable. Only the activated carbon particles need to be replaced during routine maintenance.



Fan

Proper centrifugal fan is selected for different models to provide enough suction.

Features and Benefits

- * The ESP section and the pre-filter section are designed with double doors for easy maintenance.**
- * A detachable VFD control box with flexible installation options**
- * The pressure gauge monitors pressure changes, which indicate the fabric filter's contamination level and when it needs replacement.**
- * The filtration unit and the fan unit are connected by flanges, which facilitates transportation, installation, and offers customers a variety of choices**
- * Inspection window made by aluminum alloy with glass for durability and better appearance.**
- * The Fan section designed with front and rear doors for easier maintenance.**
- * Added front and rear flanges for easier duct installation.**
- * Oil drain outlet at the bottom**
- * The fan section includes handles for easier handling.**

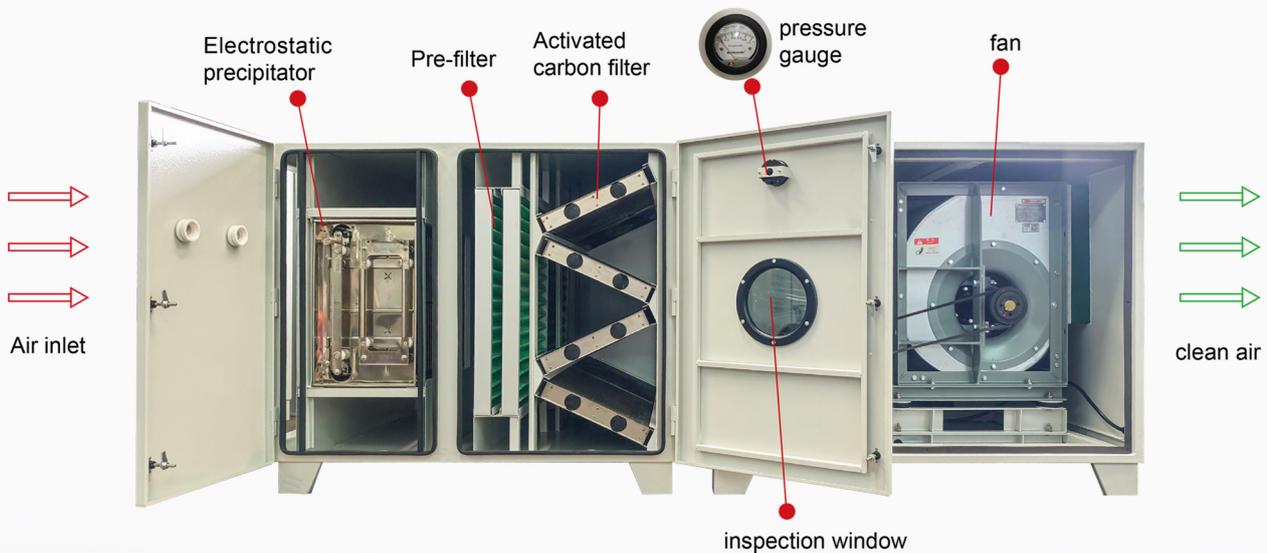
Specification

MODEL	EV ECU-6000	EV ECU-8000	EV ECU-12000	EV-ECU-16000
SIZE(MM)	2625*1230*1020	2625*1450*1020	2925*1230*1370	2925*1450*1370
airflow (CMH)	6000 ~ 4000	8000 ~ 6000	12000 ~ 8000	16000 ~ 10000
Casing	inspection window: ✓ air pressure gauge: ✓ bottom support feet: ✓ oil drain: ✓ VFD control box: detachable air flow: from left to right color: ivory white connecton way of filtration part and fan part: external flange maintenance space requirment: 700 mm			
ESP Filter	Cell type: plate type Input: 1P+N+PE AC220-240V 50Hz Output: high voltage :11~17 KVdc, low voltage: 4~7 KVdc Constant current output high-frequency power supply Smoke Temperature Rating: ≤60°C Pre-Filter:Washable Perforated Steel Plate (if choose AWS, there is no pre-filters)			
ESP Filter power system	600 W *1	600 W *1	600 W *2	600 W *2
Pre filter	① .G4 grade ② .650*525*46 mm x4 ③ .disposable	① .G4 grade ② .650*635*46 mm x4 ③ .disposable	① .G4 grade ② .550*525*46 mm x8 ③ .disposable	① .G4 grade ② .550*635*46 mm x8 ③ .disposable
carbon filter	① .525*350*50mm x8 ② .structure: piece ③ .Activated carbon type: granulate ④ .cycle use: ✓ (replace carbon granulate)	① .635*350*50mm x8 ② .structure: piece ③ .Activated carbon type: granulate ④ .cycle use: ✓ (replace carbon granulate)	① .525*350*50mm x12 ② .structure: piece ③ .Activated carbon type: granulate ④ .cycle use: ✓ (replace carbon granulate)	① .635*350*50mm x12 ② .structure: piece ③ .Activated carbon type: granulate ④ .cycle use: ✓ (replace carbon granulate)
Fan	① .model: TDFT-355 ② .rotation: 2300 r/min ③ .airflow: 2556-11500 cmh ④ .Total Pressure (TP): 1212-384 pa ⑤ .Static Pressure (SP): 1205-237 pa ⑥ .Shaft power: 1566-3153 W ⑦ .Motor power: 3 KW ⑧ .VFD: 3 KW ⑨ .Fan vibration isolator: ✓ ⑩ . Power input: 380V/50Hz	① .model:TDFT-355 ② .rotation: 2500 r/min ③ .airflow: 2778-12500 cmh ④ .Total Pressure (TP): 1432-453 pa ⑤ .Static Pressure (SP): 1424-280 pa ⑥ .Shaft power: 2010-4050 W ⑦ .Motor power: 4 KW ⑧ .VFD: 4 KW ⑨ .Fan vibration isolator: ✓ ⑩ . Power input: 380V/50Hz	① .model:TDFT-500 ② .rotation: 1600 r/min ③ .airflow: 4267-22356 cmh ④ .Total Pressure (TP): 1173-369 pa ⑤ .Static Pressure (SP): 1168-229 pa ⑥ .Shaft power: 2660-5598 W ⑦ .Motor power: 5.5 KW ⑧ .VFD: 5.5 KW ⑨ .Fan vibration isolator: ✓ ⑩ . Power input: 380V/50Hz	① .model:TDFT-500 ② .rotation: 1800 r/min ③ .airflow: 4800-25150 cmh ④ .Total Pressure (TP): 1485-467 pa ⑤ .Static Pressure (SP): 1478-290 pa ⑥ .Shaft power: 3787-7971W ⑦ .Motor power: 7.5 KW ⑧ .VFD: 7.5 KW ⑨ .Fan vibration isolator: ✓ ⑩ . Power input: 380V/50Hz
Option	1. casing material: SS 304 2. Automatic washing system for ESP filters			

Ecology Unit

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The overall structure is simple and it's very easy on installation and maintenance. The ecology unit can be installed in the ceiling space, on the roof, on the ground. An integrated casing makes the whole unit look tidy. The casing material is made of carbon steel and insulating foam which is beneficial to reduce the noise and fire risk. Besides, on the access doors, there are inspection windows. You can observe the filters' condition through them without opening the doors. For the fabric filters, we equip a pressure gauge for each section so that customers know when to replace a new filter. According to the gauges data. For the fan, the VFD control systems can be optional for energy saving.

Application

- Hotel, restaurant kitchen cooking exhaust gas
- Food factory waste gas & grease
- Shopping mall, flat ventilation system
- coffee roaster smoke
- welding and soldering fume

otonair's ecology unit is designed with a multi-stage filtration system to eliminate smoke, dust, oil and odor. We strive to provide our customers with effective air-handling units for HVAC systems. We have a professional engineering team to offer support and service. Should you encounter any issues or require maintenance, we offer prompt troubleshooting and support to keep your ecology unit running smoothly. And our team is dedicated to continuous improvement, staying ahead of the curve to provide you with the latest advancements in air pollution treatment.



Germany
Main branch
Euroventus Max, Planck
Str. 5 -97944 Boxberg

Kuwait
Alrai Industrial Area, Block 3
Building 1510
TEL : +965-25741850
Email : Info@euroventus.com

UAE
Dubai
P.O.BOX263832
Jebel Ali First Industrial
Alshaali Warehouse Premises
No: 599016426 Plot No: 0599-0896
Warehouse No:5
TEL.: +971-569779722
Email : Sales@euroventus.com

Sharjah
Industrial No. 13, Plot 5968
Ali Demyati building
Shop No. 14
TEL.: +971-569779722
Email : Sales@euroventus.com

Italy
Euroventus Via Fratelli Ugoni 36
Brescia, Italy 25126
Email : Info@euroventus.com

GCC Editon



www.EuroVentus.com



info@euroventus.com



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