

TRION

Air Purification Systems



Air Boss® KES Series

Kitchen Exhaust Filtration System



Qualified to UL Category Code
YYXS-YYXS7
Hood and Duct Accessories

UL File #MH27669
New York City, Department of Buildings
MEA 288-01-E and 88-99-E

Air Purification Systems | www.trioniaq.com

Air Boss® KES Series

Kitchen Exhaust contains grease, smoke and odors which can be filtered properly to help meet EPA, state and local air quality standards. With the Trion KES system, you'll be on good terms with both city inspectors and your commercial and residential neighbors.

The KES is a multi-stage, self-contained filtration unit that ensures maximum effectiveness through the use of:

- An Electrostatic Precipitator
- A 95% DOP Media Filter
- Carbon Modules For Odor Control

Features & Benefits

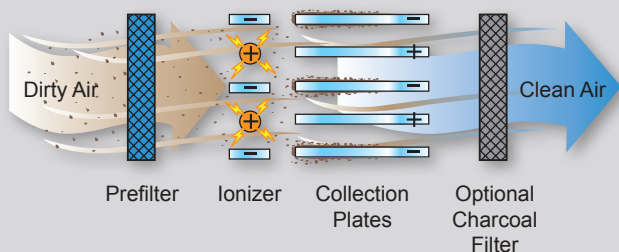
- High-Efficiency at Low, Constant Pressure Drop
- Compliance with EPA, State, and Local Air Quality Laws and Regulations
- Cleaner, Fresher Kitchen Exhaust that Fosters "Goodwill" with Commercial and Residential Neighbors along with Federal, State, and Local Government Agencies

Applications

- Restaurants
- Delis
- Hospitals
- Schools
- Sport & Entertainment Complexes

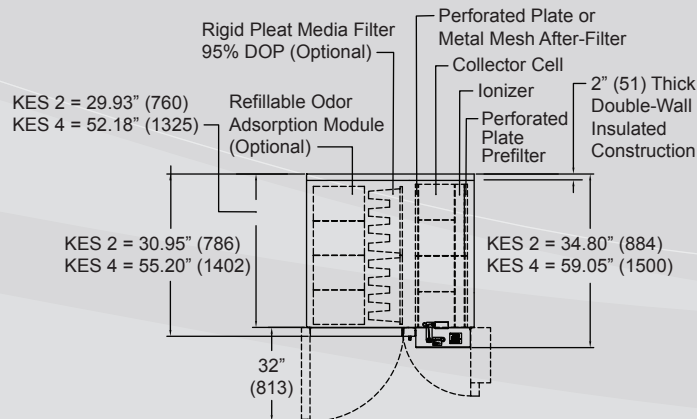
How It Works

As air enters the electrostatic filter, the particles pass through a high intensity electrical field that imparts an electrical charge to the particles, which range in size from 0.01 micron to 10 microns. The charged particles pass through a series of alternately charged collector plates. Particles are repelled by plates with the same polarity and attracted to plates with opposite polarity, similar to how a powerful magnet works.

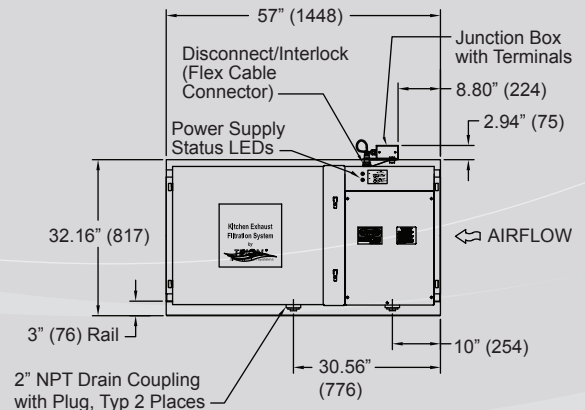


General Information

Top/Plan View



Side Elevation View



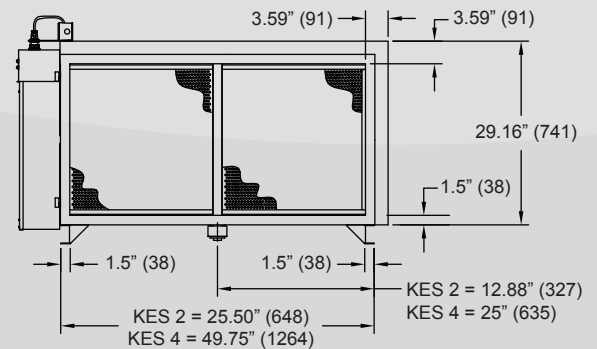
Electrostatic Efficiency/Capacity Data

DOP CFM Capacities	95%	94%	93%	92%	90%
KES 2	1200	1400	1750	2000	2550
KES 4	2400	2800	3500	4000	5100
Face Velocity (fpm)	372	434	542	620	790

Pressure Drop Data (Inches H₂O)

KES 2 CFM	1,200	1,400	1,750	2,000	2,550
KES 4 CFM	2,400	2,800	3,500	4,000	5,100
ESP*	0.09	0.14	0.20	0.27	0.42
Media**	0.15	0.21	0.33	0.43	0.70
Carbon	0.08	0.10	0.15	0.21	0.30
TOTAL**	0.32	0.45	0.68	0.91	1.42

Inlet View



* Includes perforated plate pre- and post filters.

** With clean media filters, allow up to 1.3" additional pressure drop for filter loading.

Specifications

Model	KES 2	KES 4
Input Voltage	120/220 VAC, 50/60 Hz	120/220 VAC, 50/60 Hz
Current	1.5 Amp Max.	1.5 Amp Max.
Output Voltage	12.5 - 13.0 KVDC Ionizer; 6.0-6.5 KVDC Collector	12.5-13.0 KVDC Ionizer; 6.0 - 6.5 KVDC Collector
Power Supply	(1) PMW with Status LED	(2) PMW with Status LED
Power Supply Status Light	LED, 5 Amp Max.	(2) LED, 5 Amp Max.
Standard Unit Weight	480 lbs (218 kg) Includes Ionizer and Pre/After Filters	650 lbs (296 kg) Includes Ionizer and Pre/After Filters
Pre-Filter	Perforated Plate, 2 lbs (0.9 kg) Total	Perforated Plate, 4 lbs (1.8 kg) Total
After-Filter	Perforated Plate or Metal Mesh, 2 lbs (0.9 kg)	Perforated Plate or Metal Mesh, 4 lbs (1.8 kg)
Ionizer	5 lbs (2.3 kg)	10 lbs (4.6 kg)
Collector Cells	Two Each - 60 lbs (27.3 kg) Total	Four Each - 120 lbs (54.6 kg) Total
Rigid Pleat Media	95% DOP (Optional), 17 lbs (7.7 kg)	(2) 95% DOP (Optional), 34 lbs (15.5 kg)
Optional Refillable Odor Absorbent Module	120 lbs (54.6 kg) Total	240 lbs (109 kg) Total



Our Air Boss® KES Series comes with a one-year limited warranty.



T-Series Electronic Air Cleaner

Learn more about other
Trion commercial products
by contacting your local
Trion representative or by
visiting us on the web at
www.trioniaq.com



Mini M.E. Mist Collector

TRION
Air Purification Systems

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