

# TRION

Air Purification Systems



## Commercial Solutions



**Clearing the Air**  
*Air Purification Systems*

# Series 60/120 Smoke Eliminators



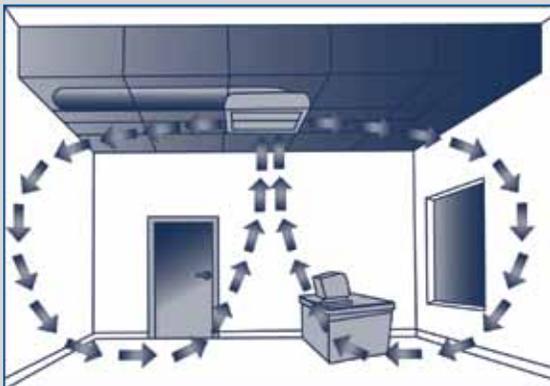
Series 60



Series 120

## Airflow Diagram:

The Series 60 and Series 120 models feature a Coanda effect airflow pattern - dirty air intake in the center and side discharges return clean air in four directions.



## Engineered Solutions for Cleaner Air:

In food service and hospitality, anything that controls airborne pollutants (e.g. cigarette smoke, dust in printer rooms and pollen amongst many) to make the customers' experience more enjoyable is a worthwhile investment.

The Series work in conjunction with existing heating and air conditioning systems, fits in a 60 x 60 x 120 cm ceiling tile, or surface mounts.

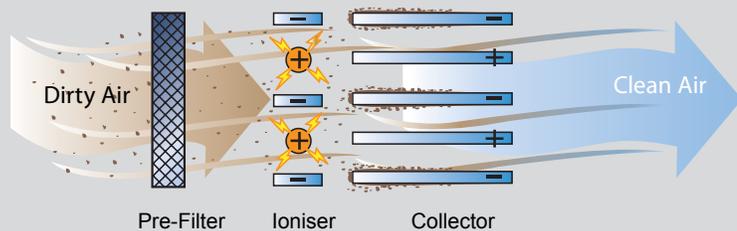
The Series 60 and Series 120 is ideally suited to rooms where people work or relax such as restaurants, bars, office spaces, computer rooms, and designated smoking areas.

## Features and Benefits:

- ARC Suppression Power Supply: Reduces disruptive snapping noise and extends life of power supply.
- Low Profile Design: Provides appealing unit with no elaborate ductwork or installation.
- Fits in a ceiling panel or surface mounts.
- Removes up to 95% of tobacco smoke, dust, pollen, lint, bacteria and mold spores.
- Recirculates Clean Indoor Air: No expense to reheat or cool air, as required with exhaust fans.
- Service Indicator Light: Indicated when unit is due for cleaning or when there is a power supply failure.
- Hinged Access Doors: Easy to maintain and remove filters.
- Can be flush, surface, or wall mounted if desired.
- CE Approved.

## How Electrostatic Precipitation Works:

The Trion® Series 60 and Series 120 Smoke Eliminator utilises the principle of Electrostatic Precipitation. Air is drawn by the motor/blower through a washable metal mesh pre-filter which traps large dust particles. The remaining particles, some as small as 0.01 microns, pass into a strong electrical field (ionising section) where the particulate receives an electrical charge. The charged particles then pass into a collector plate section made up of a series of equally spaced parallel plates. Each alternate plate is charged with the same polarity as the particles, which repel, while the interleaving plates are grounded, which attract and collect.



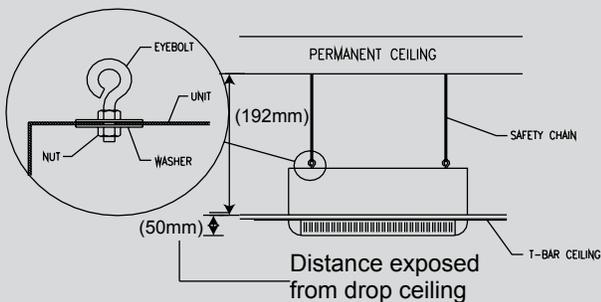
# Series 60/120 Smoke Eliminators

## Specifications

Specifications	Series 60	Series 120
<b>Dimensions</b>	572mm x 572mm x 242mm	1144mm x 572mm x 242mm
<b>Installation</b>	Flush Mount / Surface Mount / Wall Mount	Flush Mount / Surface Mount
<b>Weight</b>	19 kg	36 kg
<b>Electrical</b>	230V/1/50	230V/1/50
<b>Power</b>	130 Watts	260 Watts
<b>Blower</b>	(1) Propeller Fan	(2) Propeller Fans
<b>Air Volume (m<sup>3</sup>/h)</b>	340 - 680	680 - 1360
<b>Controls</b>	3 Speed, Power "ON" Light, Power "To Cell" Light	3 Speed, Power "ON" Light, Power "To Cell" Light
<b>Sound Rating</b>	38 dB, 55 dB, 62 dB	41 dB, 58 dB, 65 dB
<b>Efficiency</b>	Up to 95% Per ASHRAE 52.1 / Dust Spot	Up to 95% Per ASHRAE 52.1 / Dust Spot
<b>Pre-filter</b>	Aluminum Mesh	(2) Aluminum Mesh
<b>Primary Filter</b>	Forever Filter <sup>®</sup> (1/ea) Electrical Collector Cell	Forever Filter <sup>®</sup> (2/ea) Electrical Collector Cell

## Standard Specifications for Each Unit

Standard Specifications for Each Unit	
<b>Cabinet</b>	20-Gauge Galvanised Steel
<b>Finish</b>	Beige Urethane Polyester Coat Paint
<b>Airflow</b>	Coanda 4-Way Discharge
<b>Filter Access</b>	Hinged, Removable Filter Access Door
<b>Mounting Hardware</b>	(4) Eye Bolts, Trim Brackets
<b>Safety Device</b>	Access Door Safety Switch
<b>Accessory</b>	Remote ON/OFF Switch, optional IR Controller



# Spacesaver Electronic Air Cleaner

## Engineered Solutions for Cleaner Air:

The Space Saver is a commercial air cleaner specifically designed for rooms and areas where people work or relax. The Space Saver is designed to be mounted to a solid or into a suspended ceiling. When mounted from a suspended ceiling it extends less than 100 mm into the room, dropping into one-half of a standard 60 x 120 cm ceiling tile. The low profile design provides an appealing unit that does not require elaborate ductwork or expensive installation.

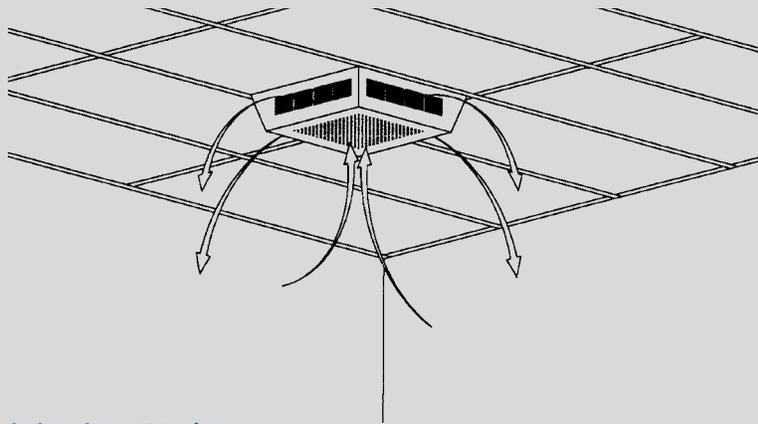
The Space Saver has the capacity to help remove up to 95% of tobacco smoke, dust, pollen, lint, bacteria and mold spores from recirculated indoor air. It features "center suction" air intake and 4-side return air discharge, 3 speeds, and optional charcoal after-filter.

The Trion Space Saver is the ideal air cleaner for installations such as restaurants, bars and taverns, offices, conference rooms, computer rooms, designated smoking areas, medical institutions, waiting rooms and retail outlets.



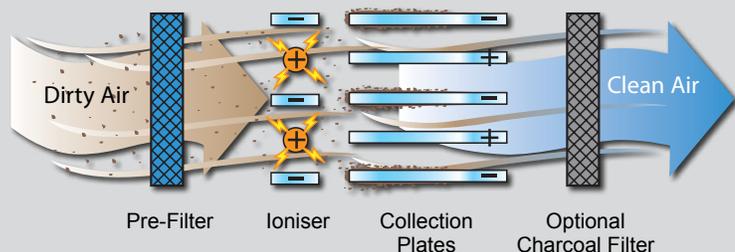
## Features and Benefits:

- Low Profile — provides appealing unit with no expensive duct work installation
- Coanda air pattern — engineered for optimum air volume changes
- Hinged access — no tools required for quick and easy service
- Remote variable speed control (option) — adjustment at finger tips
- "Forever Filter"™ — no replacement cost/clean, dry and reinstall
- Recirculates indoor air — no expense to reheat or cool air
- CE Approved



## How Electrostatic Precipitation Works:

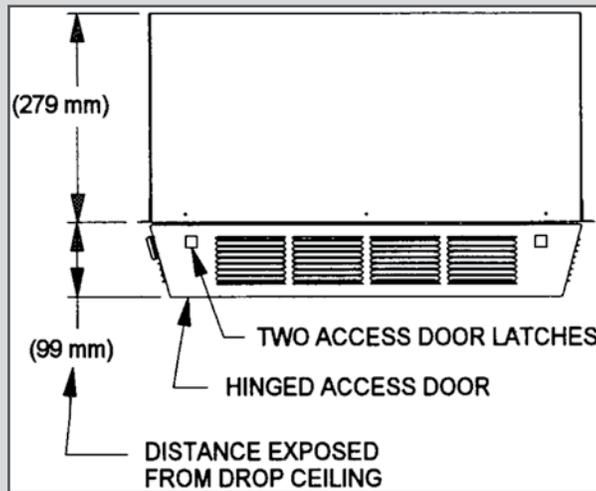
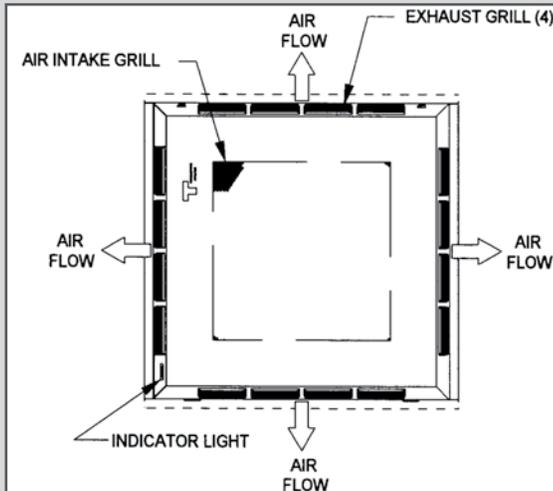
As air enters the filter, the particles pass through a high intensity electrical field that imparts an "electrical charge" to the particles. The charged particles then pass through a series of alternately charged collector plates. The charged particles are repelled by the plates with the same polarity and attracted by plates with opposite polarity – similar to how a powerful magnet works.



# Spacesaver Electronic Air Cleaner

## Specifications

Space Saver	
<b>Dimensions</b>	578mm x 578mm x 407mm
<b>Installation</b>	Above ceiling/flush mount/99mm exposed
<b>Weight</b>	32 kg
<b>Electrical</b>	230V/1/50
<b>Power</b>	290 watts
<b>Blower</b>	Direct Drive Propeller Fan
<b>Air Volume</b>	680-1110 m <sup>3</sup> /h
<b>Controls</b>	3 speed rotary switch & indicator
<b>Sound Rating</b>	45, 53, 58 dBA
Standard Specification for Each Unit	
<b>Cabinet</b>	18 gauge galvanised steel
<b>Finish</b>	Almond epoxy powder coat paint
<b>Air Flow</b>	4-way discharge, coanda flow
<b>Filter Access</b>	Push button release service access door
<b>Mounting</b>	4 Eyebolts
<b>Hardware</b>	Hard wired remote control
<b>Accessories</b>	Disposable charcoal after-filter
<b>Options</b>	IR Controller



# HE Plus 1400/2000 Electronic Air Cleaners

## HE Series of Trion® Electronic Air Cleaners

Trion® electronic air cleaners easily attach directly to your home's heating and cooling system ductwork, passing recirculated air through the air cleaner. A permanent, washable, aluminum mesh pre-filter captures large particles in the air pulled in by the furnace blower. High-voltage ionisation within the Trion® exclusive Forever Filter® purifying cell then attracts and captures the particles on alternately charged aluminum plates, filtering up to 95% of particles as minute as 0.1 micron and preventing harmful irritants from being constantly recirculated.

The permanent, aluminum air purifying cells can be easily removed for cleaning, so there are no replacement filters to buy – ever. An optional, replaceable charcoal after-filter greatly reduces common household odors.

Available in two sizes and capable of cleaning 1,400 CFM (2380m<sup>3</sup>/h) to 2,000 CFM (3400m<sup>3</sup>/h), Trion® air cleaners feature a standard, built-in airflow sensor so that the air cleaner is only running when the heating or air conditioning equipment is running to reduce energy consumption.

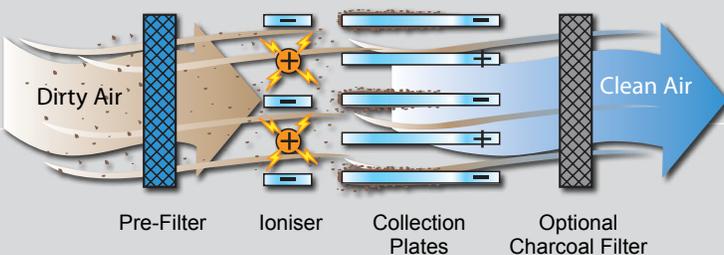


## Clean and Re-use

Our exclusive Forever Filter® attracts and captures charged dust and dirt particles on aluminum plates that are simply lifted out and rinsed off in the sink. Not only is this responsible to the environment but there are no expensive filters to replace!

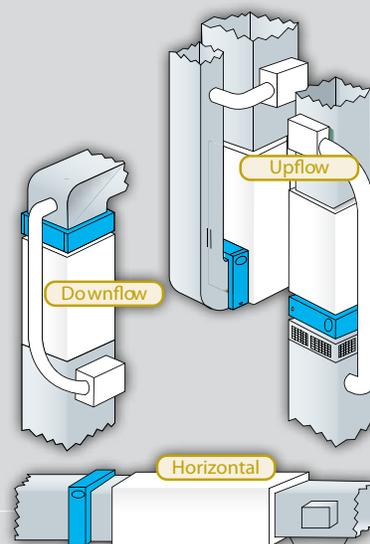
## How It Works

A high-voltage ioniser within the air cleaner electrically charges airborne pollutants and particles. Trion® electronic air cleaners feature electrostatic precipitators – a series of metal collection plates that are oppositely charged to the ionised particles. The negative filter plate then attracts and captures these microscopic particles, preventing them from being recirculated into the home. Trion® systems offer high performance and efficiency, ultra-quiet operation and no filters to replace.



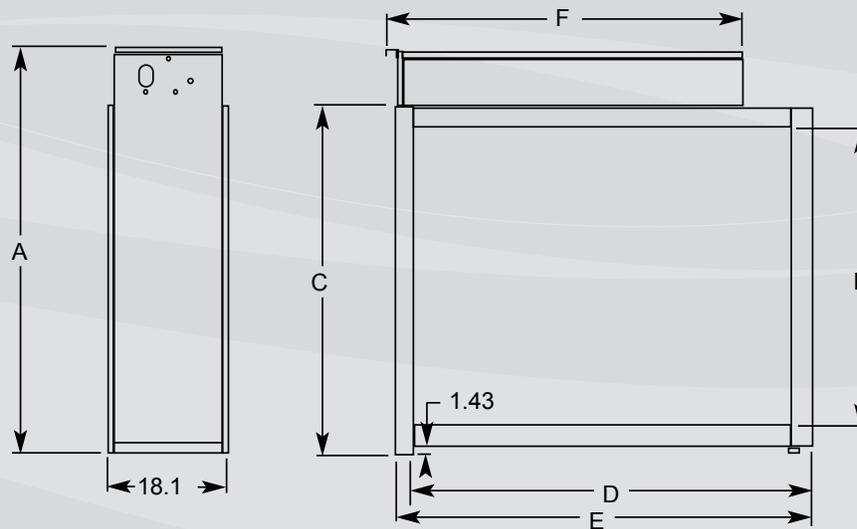
## Installation Methods

Trion® electronic air cleaners work within all types of heating and cooling system configurations. Trion® whole-house air cleaners can be easily installed and are suitable for use with all types of central forced-air heating and cooling system configurations. These illustrations show you where the air cleaners should be installed in four common setups.



# HE Plus 1400/2000 Electronic Air Cleaners

## HE Plus Dimensions



## HE Plus Product Information

Model	HE PLUS 1400	HE PLUS 2000
Part No.	HE1N2-A001	HE2N2-A001
Max. Capacity	2379 m3/h	3400 m3/h
Cell Weight	(2) 4.5 kg each	(2) 5 kg each
Shipping Weight	14.5 kg	19 kg
Electrical Input	230V/50Hz/1Ph	230V/50Hz/1Ph
Electrical Output	2.5 mADC	3.2 mADC
Maximum Pressure Drop	27Pa at 2379 m3/h	35Pa at 3400 m3/h
Classification	CE	
Optional Accessories	Charcoal After Filter	
Dimensions (cm)		
A	51.4	61.6
B	35.2	45.4
C	43.0	53.2
D	57.2	57.1
E	63.2	63.2
F	18.1	27.5
G	54.1	54.4

# 707U Atomising Humidifier

## Performance:

- Reduce energy costs and improve comfort.
- Increasing the home's relative humidity to 40% - 60% makes it feel more comfortable at 68°F / 20°C than it does at 73°F / 23°C at a low relative humidity level.
- Lower thermostat settings deliver substantial savings on monthly energy bills.
- Capacity Output: 22.71 litres per day at 49°C.

## Features:

- Installation is quick and easy.
- Easy Assembly - Just fit the dome snugly on top of the pan – and that's it!
- 240V wall or duct-mount humidistat is easily adjustable from 20% to 80% relative humidity.
- Centrifugal atomising humidifiers are installed onto the return duct or as a free-standing unit where a superfine mist is fed directly to a room.
- Includes an independent mounting bracket and discharge extension to extend through wall for installation flexibility.
- CE Approved.

## How Humidifiers Work:

The centrifugal atomising humidifiers are installed onto the return duct where a superfine mist is generated, quickly absorbed into the air, and distributed into the home. The 707 can also operate as a free standing unit where a superfine mist is fed directly in to a room. The humidistat automatically controls the operations to ensure that the proper amount of moisture is added in to the air. The humidistat is either installed on the interior wall or in the cold air return duct upstream from the unit. There are no pads or filters to change, so maintenance is minimised.



# 707U Atomising Humidifier

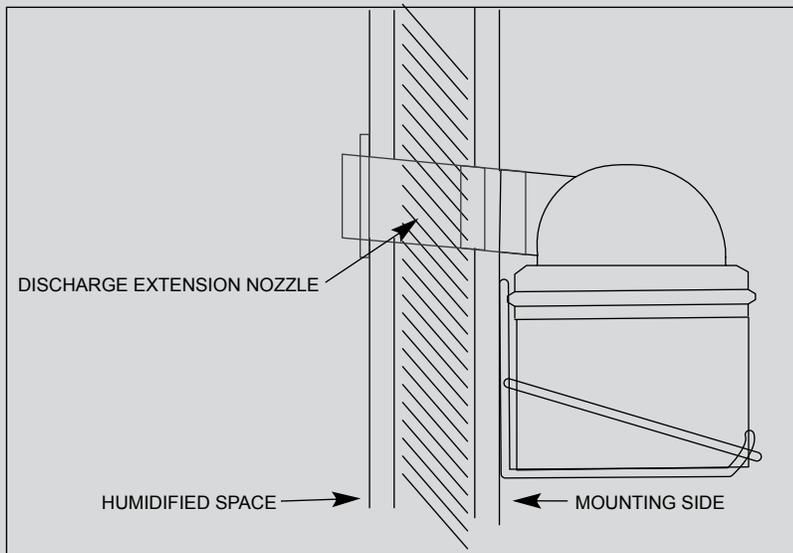
## 707U

Model	707
<b>Part No.</b>	356686-001
<b>Type of Unit</b>	Centrifugal Atomiser
<b>Max Evaporative Capacity</b>	22.71 Litres Per Day - (0.95 Lph)
<b>Voltage</b>	240V
<b>Dimensions</b>	10 1/2" Diameter x 12" H / Packaging - 13 1/4" W x 13 1/4" D x 16 3/4" H (276 x 305 mm) / (Packaging - 336 W x 336 D x 425 H mm)
<b>Water Supply</b>	6.4 mm Copper or Plastic, 125 PSI Maximum (8.6 Bar)
<b>Humidistat</b>	Adjustable from 20% to 80% Relative Humidity
<b>Drain</b>	12.8 mm O.D.

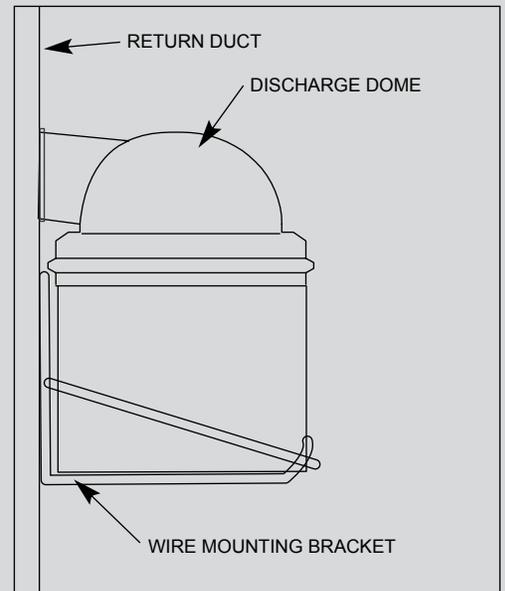
## Evaporative Supply Capacity

Furnace Temperature	Supply Side Litres/hr
37.7°C	0.95
48.8°C	0.95
60.0°C	0.95

## Through the Wall Installation



## Return Duct Installation



Our Commercial products come with a two-year limited parts only warranty.



T-Series Electronic Air Cleaner

Learn more about other Trion industrial products by contacting your local Trion representative or by visiting us on the web at [www.trioniaq-emea.com](http://www.trioniaq-emea.com)



Mini M.E.

# TRION

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