

TRION[®]

Indoor Air Quality



Residential Products
Clearing the Air

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About TRION

Since 1947, TRION has provided quality products for the commercial, industrial, and residential markets, which are engineered specifically to provide a clean, safe, and comfortable indoor air environment. Dependable performance, superior product quality, and excellent customer service are essential to our long-term success.

TRION has developed a level of technical expertise that allows us to create innovative products and cost effective solutions to serve our customers' air cleaning problems worldwide. Our products can be found in homes, offices, factories, clubs, hospitals, and sea vessels - just to name a few.

Headquartered in Sanford, NC, TRION manufactures products in a dedicated 263,000 square foot facility. TRION's European, Middle East, and African operations are based in Winnall Close, Winchester in the United Kingdom. TRION (Deutschland) GmbH was formed in 1998 to focus more closely on European markets.

In 1996, TRION added HERRMIDIFIER to the company's capabilities, the well known manufacturer of commercial, industrial, and residential humidification solutions. Later in 2003, ENVIRCO Corporation was added to TRION to provide clean air technologies to industries requiring ultra-clean environments.

Today, TRION IAQ is a division of Air System Components, Inc., a leading global manufacturer of air distribution and ventilation solutions. Our goal is to provide environmentally sound solutions for all our customers.

Our Quality Policy: Air System Components, Inc. is committed to providing products and services that meet or exceed customer requirements. This shall be accomplished through continuous review and improvement of the quality process.

History

With the three founders, "Bud" Meyers, Paul Aikenhead, and George Landgraf, TRION was formed. The name of the new company would be "TRION", a combination of "tri" for the three founders, and "ion" for the ionization process that charges and traps particles moving through an electronic air cleaner. The first plant, founded back in 1947, was located in McKees Rocks, PA. In 1964 Meyers opened his second production facility, Middlestates Metal Mfg. Corp., in Middlestates, NY. A 100 percent owned subsidiary, Middlestates gave TRION additional manufacturing area and an exceptionally high quality painting facility.

By 1966, it had become obvious that expansion was required, and the company decided that the area of Sanford, NC was ideally suited to its needs. For TRION, North Carolina has meant room in which to expand, an alert and skilled labor pool, and all other benefits that accompany immigrating industry with room and attitude to accommodate it.

It is all too evident that the problem of air pollution is going to get much worse before it starts to get better. Consequently, the need and the market for electronic air cleaners can be expected to grow at an ever-increasing rate. As Bud Meyers, Founder, put it in 1972, "Ours is one of the few industries in the world where we can honestly say we wish the market didn't exist; but, as long as the problem of air pollution is with us, TRION air cleaners provide an immediate and individual solution to the air pollution problem."



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Shipping Damage / Shortage Claims Policy

Each shipment from TRION® is carefully inspected and packed; it is delivered to the transportation carrier in good condition. All shipments should be inspected upon receipt for completeness and damage. Under no circumstances should merchandise be returned to TRION® without a Material Return Authorization. Except in special cases with prior written authorization, equipment is sold F.O.B. factory, Sanford, North Carolina. The purchaser assumes the risk of loss or damage from the time of delivery to the carrier and is responsible for filing claims with the carrier. Claims for loss or damage must not be deducted from our invoice, nor payment of the invoice withheld awaiting adjustment. In special instances where the terms of sale are F.O.B. destination, TRION® owns the merchandise in transit and will file any claims with the transportation carrier. If the merchandise is damaged or if the carrier fails to deliver the entire shipment as shown on the shipping papers, the Bill of Lading shall be marked by the authorized receiver with a description of the damage or shortage, signed by the carrier's agent and forwarded to TRION®'s Customer Service department. On TRION® product purchased from or shipped by a distributor, any questions relating to shortage, damage or loss must be referred to the distributor from whom the product was purchased.

Material Return Policy

1. To return merchandise to TRION®, a Material Return Authorization (MRA) must be obtained from Customer Service. Requests for MRAs can be made by telephone, fax or mail. Unauthorized returns will be refused.
2. To receive an MRA, Customer Service will need pertinent information, including complete customer identification, reason for return, part number, description, quantity, date code, and serial number of the merchandise to be returned.
3. Returns must be packed carefully and the MRA number marked clearly on the outside of the shipping container. Returns should be shipped, freight prepaid, to TRION®. Special ordered equipment cannot be returned to TRION® for credit.
4. Returns must be received at TRION® within 30 days of MRA issuance. The MRA will be canceled for merchandise not received within 30 days and a new MRA must be requested.
5. In-warranty replacements will be shipped from TRION® freight prepaid. If the returned merchandise performs to its design and manufacturing specifications, TRION® will charge \$50.00 per hour for testing, with a minimum charge of \$100.00 and return the goods freight collect.
6. Returned product which is out of warranty or performs to its design and manufacturing specifications will not be credited.
7. If material is returned to TRION® for a repair cost estimate, Customer Service will provide estimated repair charges upon receipt of the material. If Customer Service is not notified of the desired disposition within 60 days, the material will be returned freight collect.
8. All new, non-defective merchandise returned for credit is subject to a restocking charge. Restocking charges may vary based on the condition of the goods when received.

A Material Safety Data Sheet (MSDS) covering the collected contaminant must accompany all used equipment being returned to TRION®, for evaluation or repair.

Small Freight Policy

Policy 07-0148
August 12, 2015

Small Package Freight Policy

Definitions:

1. UPS Shipment – Any small package that can be shipped via UPS carrier and not a truckload, LTL or larger shipment. Generally less than 150 lbs. weight. This is our preferred carrier of choice.
2. FedEx Shipment – Any small package that can be shipped via FedEx carrier and not a truckload, LTL or larger shipment. Generally less than 150 lbs. weight. FedEx is not a TRION® IAQ preferred carrier. Shipments are not made via FedEx unless specially instructed by the purchase order and the customer supplies their account number for billing.

Small Package Shipments:

1. TRION® IAQ Standard policy is that all small package shipments will be shipped via UPS, as our preferred carrier of choice, and will be billed to the purchaser when applicable.
2. No shipments will be made using FedEx unless the customer specifically requests this service and provides their account number for the billing. This will allow the customer to obtain their best rates by using their carrier and their account number.
3. All orders received that indicate to ship “Best Way, Prepaid and Charge” will be shipped via UPS and the customer will be billed at the UPS rate.
4. Any order received that indicates to ship via “FedEx” must have the customer FedEx account number annotated on the order. If no account number is provided, Customer Service will hold the order and contact the customer to obtain their FedEx account information or permission to ship via UPS.
5. Any deviation from this policy must be addressed by the Customer Service Manager or appropriate National Sales Manager for resolution.



Air Bear® Media Whole House Air Cleaners

Media Air Cleaners

Is your home's air a danger to your family?

EPA studies indicate that the air inside your home may contain up to 10 times more pollution as that outside your door. Indoor air pollution can irritate the eyes, nose, and throat, cause headaches, dizziness, and fatigue as well as aggravate asthmatic and allergic conditions.

The average central forced heat or air conditioning system typically performs some form of air cleaning; such systems only capture large particles and are not efficient enough to catch microscopic airborne pollutants and particles. TRION® media air cleaners are rated at MERV 8 and MERV 11 filtration standards to eliminate airborne pollutants. The American Lung Association® and the EPA® both recommend reducing indoor air pollution to improve health; a TRION® media air cleaner can help.

Dirty air does not just harm the health of your home's inhabitants, it is also harmful to your heating or air conditioning equipment. Dirty air particles stick to the internal components of the system and damage internal motors and fans, causing poor heat and cooling transfer on the system's components. In addition to the benefits of breathing clean air, TRION® media air cleaners keep your system clean and operating at constant peak energy efficiency.

Pollutant Facts

- 350 Million particles of pollutants are inhaled everyday - which is equivalent to 2 teaspoons.
- 50 Million Americans suffer from allergies.
- 20 Million Americans suffer from asthma.
- 6 Billion dollars each year are spent on treating respiratory problems.
- Poor ventilation accounts for more than half of all indoor air quality problems.



Voted #1 Best Buy
by Consumers Digest | 2010 & 2013

Media Air Cleaners

Air Bear® Whole House Air Cleaners

TRION® air cleaners feature media filters that effectively capture large and small airborne pollutants to MERV 8 or MERV 11 filtration standards. High-efficiency media air cleaners can clean large amounts of air while offering whisper-quiet operation. The TRION® Air Bear® line of ducted media air cleaners easily attach to your home's existing or new heating and cooling unit.

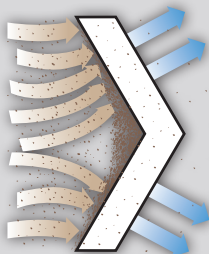
TRION® Air Bear® Supreme, Air Bear® Right Angle and Air Bear® Cub media air cleaners offer outstanding performance, effectively removing mold spores, pollen, and other airborne contaminants. Using highly efficient, omnidirectional, synthetic material and an extended surface-pleat filter design, the Air Bear® media filters have been proven to have a higher dirt holding capacity than competitive filters and are over 10 times more efficient than traditional 1" throw-away filters.

The Air Bear® Supreme and Air Bear® Cub are both one-piece wrap around, 20-gauge cabinets. The Air Bear® Right Angle space-saving design is ideal for installation situations that require a 90° duct adapter. Air Bear® media air cleaners are available in 5 cabinet sizes, 2 filter efficiencies (MERV 8 and MERV 11), and 3 airflow capacities (up to 1,200, 1,400, and 2,000 cubic feet per minute - CFM). Also available for all models (except the Air Bear Right Angle) are an optional washable, removable pre-filter for large particles and an optional charcoal after-filter that removes common household odors such as pet and smoke odors.

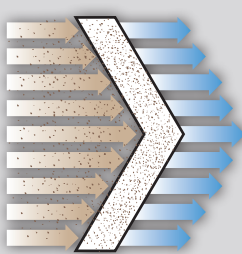


How It Works

The air cleaner is mounted directly to the home's heating and cooling system. A high efficiency Air Bear® media filter captures the smaller, invisible particles that are present in your home's air. Air Bear® outperforms the competition because of its highly efficient synthetic material, radial pleating and an omnidirectional airflow design. It has been proven to have a higher dirt holding capacity than competitive filters. That means fewer filter changes and money in your pocket!



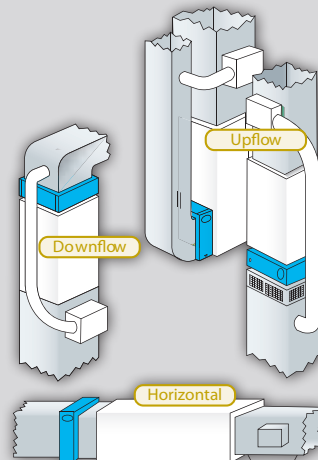
Most Media
Air Filters



Air Bear®
Media Air Filter

Installation Methods

TRION® media 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.



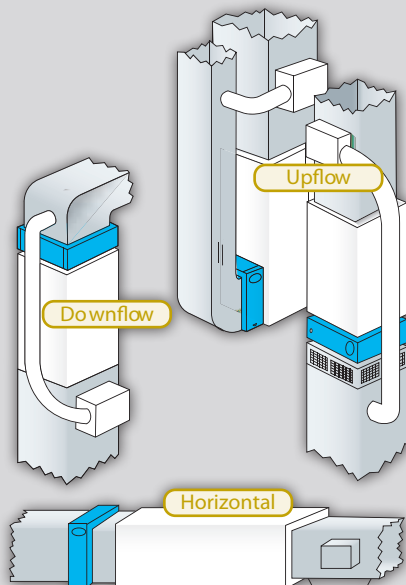
Air Bear® Supreme

Air Bear® Supreme

Media Whole-House Air Cleaners



Air Bear® Media Air Cleaners
also available in Warm Grey



Performance:

- Rated airflow up to 2000 CFM.
- Non-woven, 5-inch thick, pleated Air Bear® media filter traps particles as small as one micron.
- Tested using ANSI/ASHRAE 52.2 - 2007 standard procedures.
- Efficiency rating of MERV 8 or MERV 11.

Features:

- Quick and easy installation.
- Air Bear® filters capture and hold pollutants inside the filter, allowing air to flow freely through the system.
- Mechanical MERV 8 filter maintains efficiency under all operating conditions.
- Highly-efficient MERV 11 filter, electrostatically-charged synthetic material, provides superior efficiency with minimal added pressure drop.
- Available in a wide variety of sizes.
- Mounts directly to heating and cooling systems.
- Suitable for use with all types of forced-air HVAC configurations.
- Rugged cabinet construction for long life.

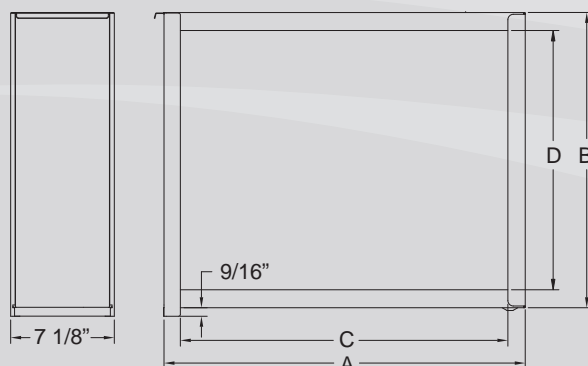
Warranty:

- Lifetime limited warranty on cabinet.



Another True Member of
the Air Bear® Family

Air Bear® Supreme Dimensions



Model	Air Bear® Supreme 2000		Air Bear® Supreme 1400		Air Bear® Supreme 20 x 20	
	MERV 8	MERV 11	MERV 8	MERV 11	MERV 8	MERV 11
Part No. (British White)	455602-025	455602-525	455602-125	455602-625	455602-225	455602-725
Part No. (Warm Grey)	455602-027	455602-527	455602-127	455602-627	455602-227	455602-727
Rated Airflow	2000 CFM		1400 CFM		1400 CFM	
Media Size	5" D x 20" H x 24 1/4" W		5" D x 16" H x 24 1/4" W		5" D x 20" H x 20 1/4" W	
Shipping Weight	20 lbs		15 lbs		19 lbs	
Optional Accessories	Pre-Filter		Pre-Filter		Pre-Filter	
	Charcoal After-Filter		Charcoal After-Filter		Charcoal After-Filter	
Dimensions (Inches)						
A	24 7/8"		24 7/8"		21 3/8"	
B	20 1/4"		16 1/4"		20 1/4"	
Duct Openings (Inches)						
C	22 1/2"		22 1/2"		19"	
D	17 7/8"		13 7/8"		17 7/8"	
Resistance (Inch W.G.)						
CFM	MERV 8	MERV 11	MERV 8	MERV 11	MERV 8	MERV 11
1200	0.09	0.12	0.17	0.23	0.15	0.17
1400	0.12	0.17	0.22	0.28	0.18	0.22
1600	0.17	0.21	-	-	-	-
1800	0.20	0.26	-	-	-	-
2000	0.23	0.31	-	-	-	-

Air Bear® Air Filters have been tested using ANSI / ASHRAE 52.2-2007 standard test procedures.

Air Bear® Right Angle

Air Bear® Right Angle Media Whole-House Air Cleaners

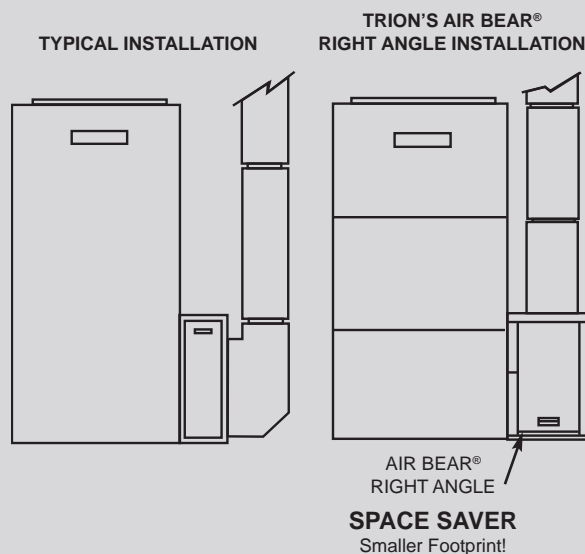


Performance:

The Air Bear® Air Cleaner uses a combination of four filtering principles including impingement, interception, diffusion and straining. Its high performance, nonwoven, reinforced media captures a wide range of airborne particulate matter. Most pleated air filters capture pollutants primarily by surface loading. This can restrict airflow through your comfort system and result in higher heating and cooling costs.

The Air Bear® Air Cleaner grasps contaminants much like a sponge. Its radial pleating and state of the art fiber design provides maximum dust holding capacity.

- Rated airflow of up to 2000 CFM.
- Non-woven, 5" thick, pleated Air Bear® media filter traps particles as small as 1 micron.
- Tested in accordance with ANSI/ASHRAE 52.2-2007.
- Efficiency rating of MERV 8 or MERV 11.



Features:

- Quick and easy installation.
- Air Bear® filters capture and hold pollutants inside the filter, allowing air to flow freely through the system.
- Mechanical MERV 8 filter maintains efficiency under all operating conditions.
- High efficiency MERV 11 filter, electrostatically-charged synthetic material, provides superior efficiency with minimal added pressure drop.
- Designed for installations that require a 90° duct adapter.
- Mounts directly to heating and cooling systems.
- Suitable for use with all types of central forced-air configurations.
- Space-saving design is ideal for basement applications.
- Rugged cabinet construction for long life.

Warranty:

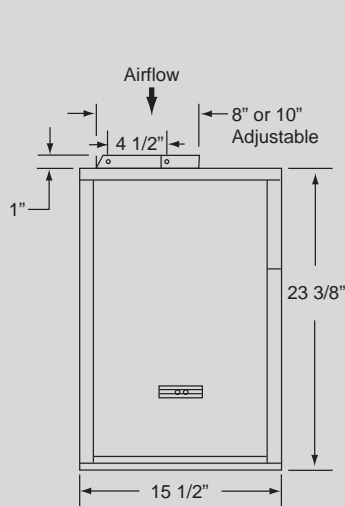
- Lifetime limited warranty on cabinet.



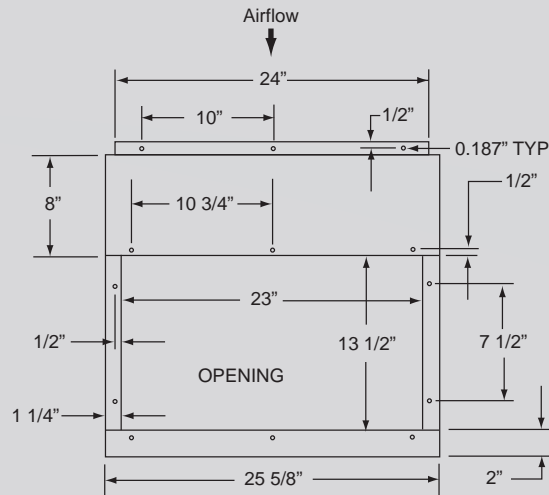
Another True Member of
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Air Bear® Right Angle

Air Bear® Right Angle Dimensions



Door Side / Side View



Rear Side / Air Handler Side



Air Bear® Right Angle				
Model	Supreme		Supreme-HD	
Duty	26 ga Standard Duty		20 ga Heavy Duty	
Shipping Weight	24 lbs		35 lbs	
Unit Part Number (British White)	447380-010	447380-510	266380-010	266380-510
Unit Part Number (Warm Grey)	447380-011	447380-511	266380-011	266380-511
Media Part No. (3 Pack)	255649 -102	259112-102	255649 -102	259112-102
MERV Rating	8	11	8	11
Rated Airflow	Up to 2000 CFM			
Media Size	5" D x 20" H x 24 1/2" W			
Media Type	Polyester	Polyolefin	Polyester	Polyolefin
Media Construction	Radial Multi-Pleat and Omnidirectional Fiber			
Media Listing	UL Class 900			
Outside Unit Dimensions	25 5/8"D x 24 3/8 " H x 15 1/2" W			
Adjustable Duct Opening	24" x 8" or 24" x 10"			
Furnace Opening	23" X 13 1/2"			
Cabinet Finish	Powder-Coated Paint Finish			
Universal Application	Right or Left-Hand Installation			

Air Bear® Cub

Media Whole-House Air Cleaners



Performance:

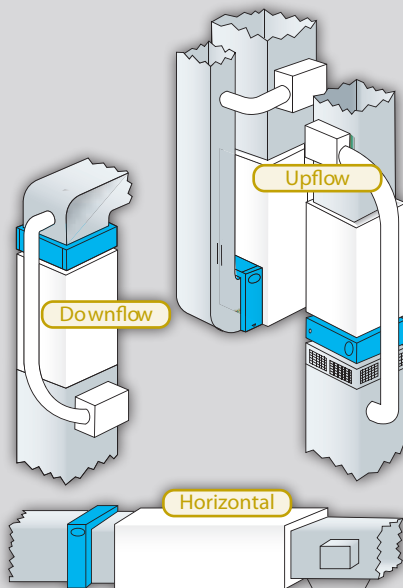
- Rated airflow up to 1200 CFM.
- Non-woven, 3" thick, pleated Air Bear® media filter traps particles as small as 1 micron.
- Tested using ANSI/ASHRAE 52.2 - 2007 standard procedures.
- Efficiency rating of MERV 8 or MERV 11.

Features:

- Quick and easy installation.
- Air Bear® filters capture and hold pollutants inside the filter, allowing air to flow freely through the system.
- Mechanical MERV 8 filter maintains efficiency under all operating conditions.
- Highly-efficient MERV 11 filter, electrostatically-charged synthetic material, provides superior efficiency with minimal added pressure drop.
- Narrow Profile: Fits in tight spaces.
- Mounts directly to heating and cooling systems.
- Suitable for use with all types of central forced-air configurations.
- Rugged cabinet construction for long life.

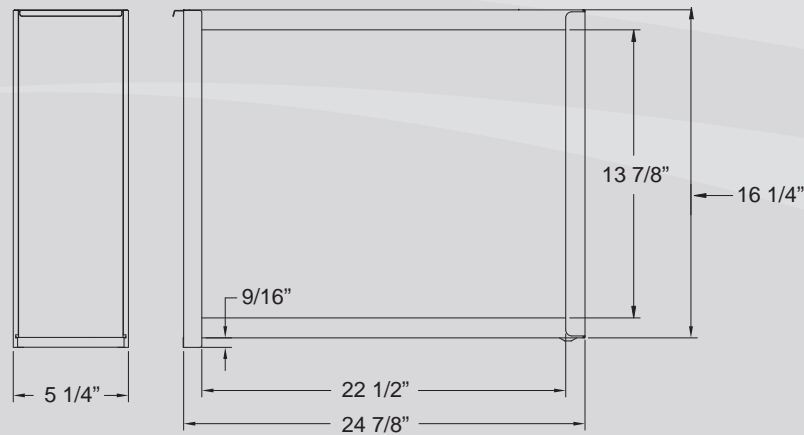
Warranty:

- Lifetime limited warranty on cabinet.



Another True Member of
the Air Bear® Family

Air Bear® Cub Dimensions



Model	Air Bear® Cub	
	MERV 8	MERV 11
Part No.	455602-425	455602-925
Media Part No. (6 Pack)	255649-101	259112-101
Rated Airflow	1200 CFM	
Media Size	3" D x 15 3/4" H x 24 1/4" W	
Media Type	100% Synthetic Disposable / Factory Assembled	
Media Listing	UL Classified (See complete marking on product.)	
Shipping Weight	12 lbs	
Cabinet Finish	Powder-Coated Paint Finish	
Universal Application	Right/Left-Hand Installation	
Optional Accessories	Pre-Filter	
	Charcoal After-Filter	
Resistance (Inch W.G.)		
CFM	MERV 8	MERV 11
600	0.08	0.09
800	0.12	0.14
1000	0.16	0.19
1200	0.22	0.26

Air Bear® Air Filters have been tested using ANSI/ASHRAE 52.2-2007 standard test procedures.

Air Bear® Accu-Fit

Media Whole-House Air Cleaners



Performance:

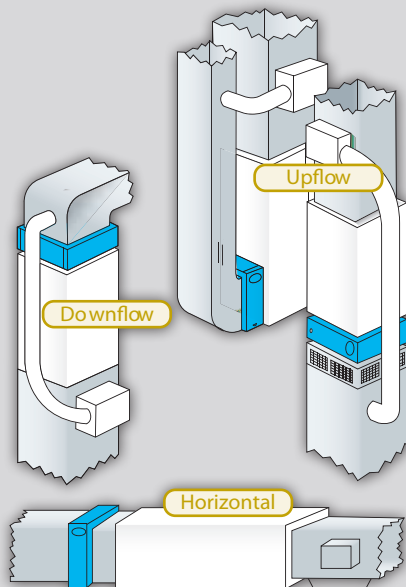
- Rated airflow up to 2000 CFM.
- Non-woven, 5-inch thick, pleated Air Bear® media filter traps particles as small as one micron.
- Tested using ANSI/ASHRAE 52.2 - 2007 standard procedures.
- Efficiency rating of MERV 8 or MERV 11.

Features:

- Quick and easy installation specifically for Honeywell® and Rheem® air handlers and gas furnaces.
- Special sizes include: 17½ x 21, 21 x 21, and 24½ x 21 (air handlers), and 17½ x 28, 21 x 28, and 24½ x 28 (gas furnaces) - see table on following page.
- Air Bear® filters capture and hold pollutants inside the filter, allowing air to flow freely through the system.
- Mechanical MERV 8 filter maintains efficiency under all operating conditions.
- Mounts directly to heating and cooling systems.
- Suitable for use with all types of forced-air HVAC configurations.
- Rugged cabinet construction for long life.

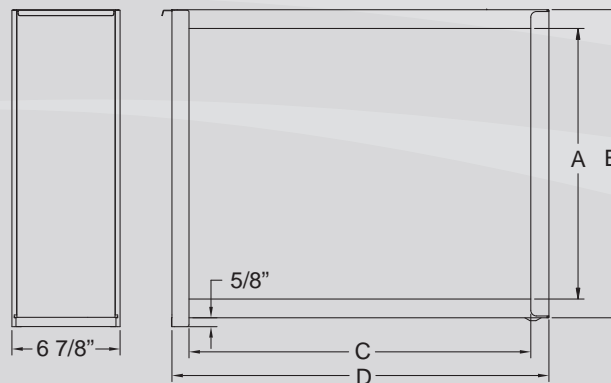
Warranty:

- Lifetime limited warranty on cabinet.



Another True Member of
the Air Bear® Family

Air Bear® Accu-Fit Dimensions



	Air Handlers			Gas Furnaces		
Unit	17 ½ x 21	21 x 21	24 ½ x 21	17 ½ x 28	21 x 28	24 ½ x 28
Part No.	266944-12117	266944-12121	266944-12124	266944-12817	266944-12821	266944-12824
Capacity	1400 CFM	1800 CFM	2000 CFM	1800 CFM	2000 CFM	2000 CFM
Filter Resistance to Airflow (Inches W.G.)						
600 CFM	0.06	0.04	0.04	0.04	0.04	0.04
800 CFM	0.09	0.08	0.07	0.08	0.07	0.07
1000 CFM	0.13	0.12	0.09	0.12	0.09	0.09
1200 CFM	0.17	0.15	0.11	0.15	0.11	0.11
1400 CFM	0.22	0.18	0.14	0.18	0.14	0.14
1600 CFM	-	0.21	0.17	0.21	0.17	0.17
1800 CFM	-	-	0.20	-	0.20	0.20
2000 CFM	-	-	0.23	-	0.23	0.23
Cabinet Outside Dimensions in Inches (Reference Drawing Above)						
Dim A	15.00	18.50	22.00	15.00	18.50	22.03
Dim B	17.50	21.06	24.50	17.50	21.06	24.50
Dim C	18.69	18.69	18.69	25.69	25.63	25.69
Dim D	21.00	21.00	21.00	28.00	28.00	28.00
Cabinet Duct Opening Dimensions						
Height	15.02	18.58	22.02	16.25	19.81	23.25
Width	18.67	18.67	18.67	26.20	26.20	26.20

Air Bear® Air Filters have been tested using ANSI / ASHRAE 52.2-2007 standard test procedures.

Air Bear® Filters

Air Bear® Filters

Aftermarket Media Air Filter Cross Reference

FITS MODELS FROM GENERALAIRE®, SKUTTLE®, ULTRAVATION®, AND OTHERS



Performance:

- Non-woven, 5" thick, pleated Air Bear® media filter traps particles as small as one micron.
- Tested using ANSI/ASHRAE 52.2 - 2007 standard procedures.
- Efficiency rating of MERV 8 or MERV 11 available.
- Fits models from Generalaire®, Skuttle®, Ultravation®.
- Fits other popular models of media air cleaners.



Features:

- Mechanical MERV 8 filter maintains efficiency under all operating conditions.
- Highly-efficient MERV 11 filter, electrostatically-charged synthetic material, provides superior efficiency with minimal added pressure drop.
- Available in a wide variety of sizes.
- Finger supported vertical pleats remain evenly spaced while maximizing dirt holding capacity at the lowest pressure drop.
- Suitable for use with all types of forced-air HVAC configurations.
- Factory installed, double gasket, top and bottom, eliminates filter bypass.
- Galvanized rust-resistant wire mesh, integral width filter media, supports media and retains pleat shape even when dirty.
- Moisture resistant frame retains strength and shape even in high humidity.
- UL900 listed.

Air Bear® Filter Information:

Nominal Size	TRION® Part No.		Replaces Competitors	
	MERV 8	MERV 11	Part Number	Model Number
Air Bear® Fits Generalaire®				
16x25x3	255649-101	259112-101	3FM1625	MAC1200
16x25x5	255649-105	259112-105	5FM1625	MAC1400
20x25x5	255649-102	259112-102	5FM2025	MAC 2000, MAC-L
Air Bear® Fits Skuttle®				
16x25x5	255649-105	259112-105	448-1	DB-25-16
20x20x5	255649-103	259112-103	448-3	DB-20-20
20x25x5	255649-102	259112-102	448-2	DB-25-20
Air Bear® Fits Ultravation®				
16x25x3	255649-101	259112-101	91-007	90-005
16x25x5	255649-105	259112-105	91-005	90-006, 90-031
20x25x5	255649-102	259112-102	91-006	90-007, 90-008 90-010, 90-026 90-035, 92-001 92-002, 92-003

TRION Air Bear® Filters also fit other popular air cleaners. Match filter dimensions below:

Nominal Size (HxWxD)	20x25x5	16x25x5	20x20x5	16x25x3
Actual Size (HxWxD)	19.75x24.25x4.94	15.75x24.25x4.94	19.75x20.75x4.94	15.75x24.25x3.06
TRION® Part No. MERV 8	255649-102	255649-105	255649-103	255649-101
TRION® Part No. MERV 11	259112-102	259112-105	259112-103	259112-101

Dimensions do not include 0.25 inch gasket located along the top and bottom edges of the filter.

If your whole-house air cleaner is not listed, contact TRION® customer service at 800-884-0002 to see if an Air Bear® filter will fit your air cleaner.

Generalaire is a registered trademark of General Filters, Inc. | Skuttle is a registered trademark of Skuttle Mfg. Co.
Ultravation is a registered trademark of Ultravation, Inc.



Electronic Air Cleaners HE Series

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 ionization 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.

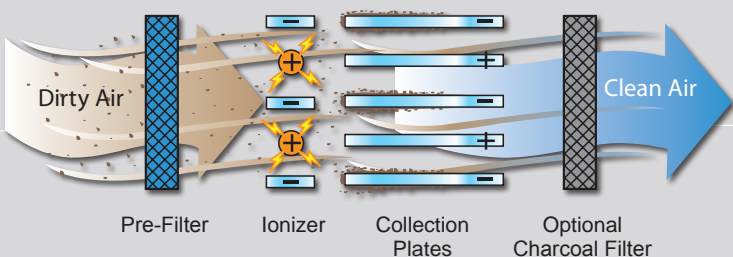
Available in two sizes and capable of cleaning 1,400 to 2,000 cubic feet per minute (CFM), TRION® air cleaners feature a standard, built-in airflow sensor so that the air cleaner is only running when the heating or air conditioning equipment is running to reduce energy consumption.

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!

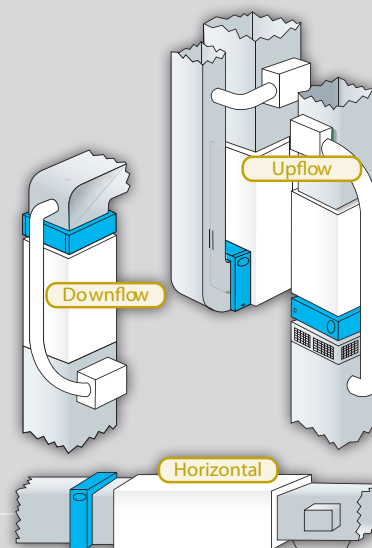
How It Works

A high-voltage ionizer 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 ionized 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.

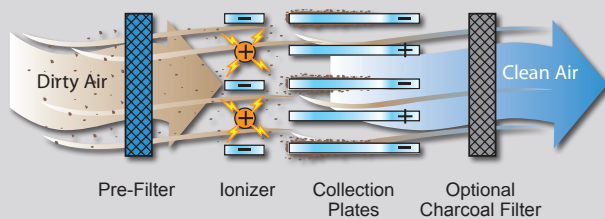


HE Plus

Electronic Whole-House Air Cleaners



Electronic Air Cleaning Process:



Performance:

- Rated airflow up to 2000 CFM.
- Tested in accordance with ANSI/ASHRAE 52.1-1992.
- Aluminum mesh pre-filter traps large particles such as dirt, lint, and pet hair.
- Minimal Pressure Drop: Less than 0.02 W.G. at rated airflow.

How Electronic Air Cleaners Work:

The HE Plus Electronic House Air Cleaner uses a high-voltage ionizer within the air cleaner that 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 ionized particles. The negative filter plate then attracts and captures these microscopic particles, preventing them from being recirculated in the home. TRION® systems offer high performance and efficiency, ultra-quiet operation and no filters to replace.

Features & Benefits:

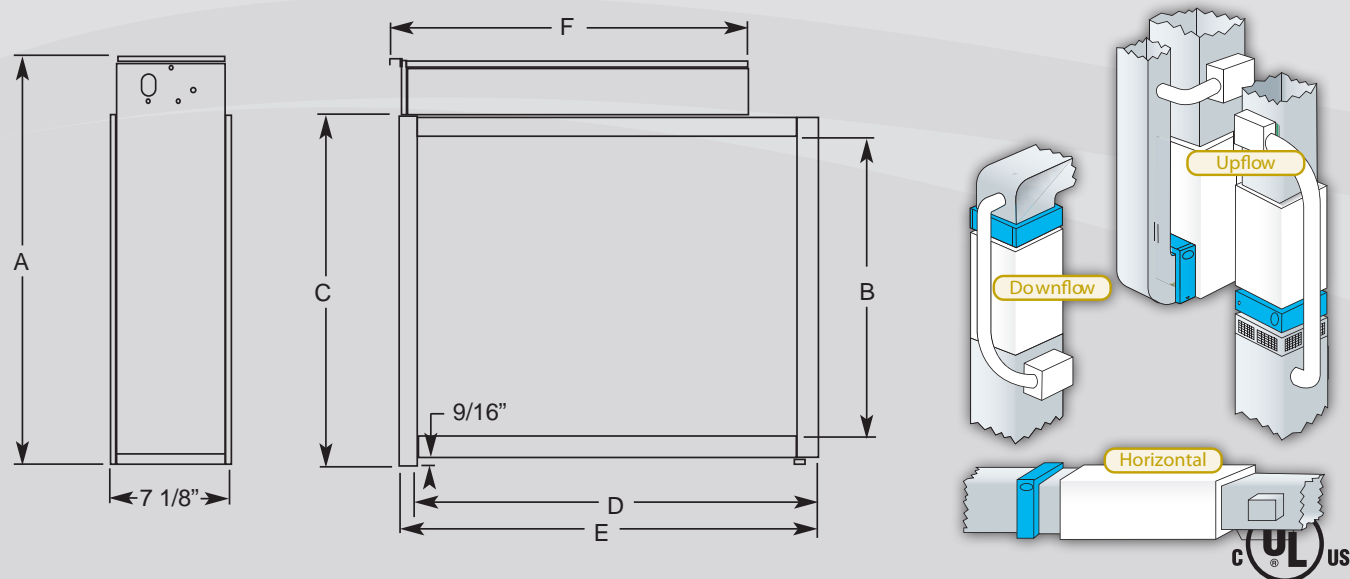
- The strongest, most reliable power supply and the sturdiest cell in the industry – recognized by dealers nationwide.
- Forever Filter® never needs replacing – just clean and reuse.
- Connects directly to all types of heating and cooling systems.
- Permanent, washable aluminum collection cells deliver longer service life and are easy to clean.
- Greater overall HVAC system efficiency because units keep cooling coils clean.
- Electronic Airflow Sensor: Automatically senses air movement within the duct, resulting in reduced power usage.
- Built-In Internal Fuse: Protects the 24v transformer in the event of a power supply failure.
- All units are UL/C-UL Listed and are easily converted to 240v.
- Rugged cabinet construction for long life.
- Optional Charcoal After-Filter reduces common household odors.

Warranty:

5 Year Limited Warranty



HE Plus Dimensions



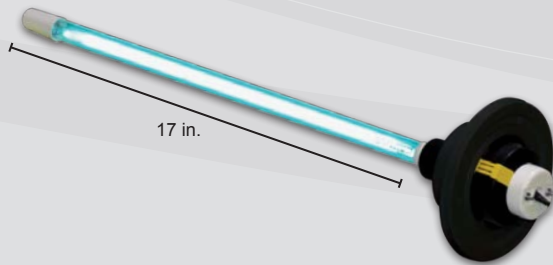
HE Plus Product Information

Model	HE PLUS 16x25	HE PLUS 20x25
Part No. (British White)	455600-125	455600-025
Part No. (Warm Grey)	455600-129	455600-029
Max. Capacity	1400 CFM	2000 CFM
Cell Weight	(2) 10 lbs each	(2) 12 lbs each
Shipping Weight	36 lbs	42 lbs
Electrical Input	120 V, 50 Hz / 60 Hz, 1 ph	120 V, 50 Hz / 60 Hz, 1 ph
Electrical Output	2.5 MADC	3.2 MADC
Dimensions		
A	20 1/4"	24 1/4"
B	13 7/8"	17 7/8"
C	16 15/16"	20 15/16"
D	22 1/2"	22 1/2"
E	24 7/8"	24 7/8"
G	21 7/16"	21 7/16"

ComfortBreeze™ UV360-1

ComfortBreeze™ UV360-1

High-Efficiency UV-C Lamp



Overview:

Indoor air quality (IAQ) continues to be a growing health concern. Mold, bacteria, pet dander, and mites are all linked to a host of health problems including eye irritation, headaches, allergies, and respiratory problems. The U.S. Environmental Protection Agency (EPA) says these pollutants are often two to five times higher indoors than outdoors!

Air conditioning (A/C) systems are a reservoir for mold, bacteria, and slime that can circulate throughout any dwelling. According to the American Academy of Asthma and Immunology, more than 1 out of 4 Americans suffer from these pollutants. The ComfortBreeze™ UV360-1 provides a powerful ultra-violet defense against these harmful airborne particulates.

Features:

UV-C has been disinfecting surfaces, air, and water in hospitals, pharmaceuticals, and many U.S. Military and NASA applications for over a century. Hospital studies even show that it substantially decreases infection, reduces infant death, and protects healthcare workers.

Now you can have this same technology at home or work. The UV360-1 employs a high efficiency, high-output UV-C lamp that can last for up to two years. Once installed, it enables noticeably cleaner air by attacking mold, reducing allergens, and eliminating A/C odor.

Product Benefits:

- Enables noticeably cleaner air by attacking mold, reducing allergens, and eliminating A/C odor
- Combats dangerous bio build-up occurring inside the air handler and coils
- Lowers A/C cost by removing bio-film on the coils, making them more efficient

Operational Benefits:

- Reduces A/C run time - and thus energy use - while improving comfort and health
- Delivers disinfected air for pennies a day
- Safe 24V low-voltage system
- Convenient, reliable, and affordable
- Fast and easy to install and service

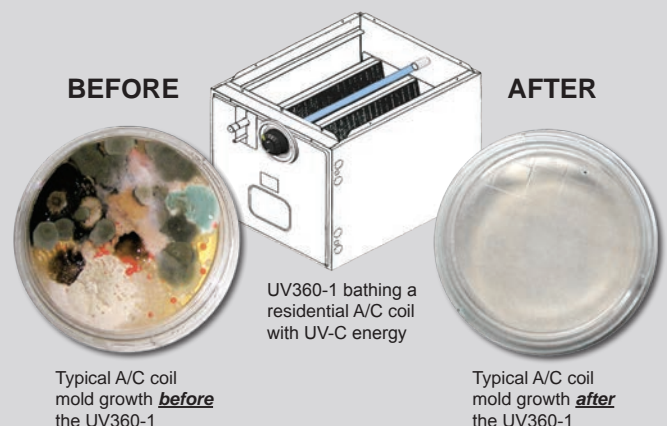
Includes:

- Replaceable, high-output 17" UV-C lamp
- Affixable mounting hole template and hole saw
- 120V to 24V plug adapter

Warranty:

1 Year Limited Warranty

Before and After:



ComfortBreeze™ UV360-1

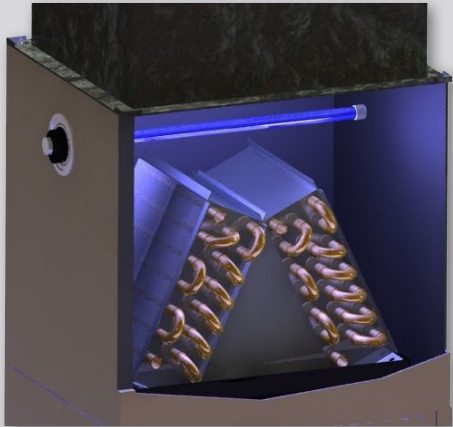
Installation Options:

The ComfortBreeze™ UV360-1 24V UV-C fixture can be placed in several locations in the A/C system. See Figures 1-5 at right for typical installation locations.

A = Best installation location

B = Better installation location

C = Good installation location



Typical Upflow Coil

Typical Horizontal A-Coil: Right Airflow (Figures 1 and 2)

Figure 1

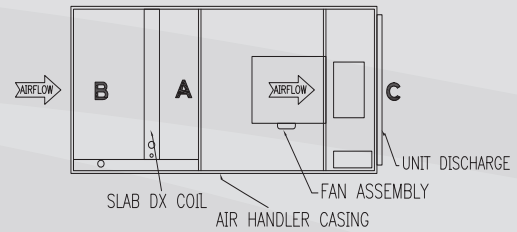
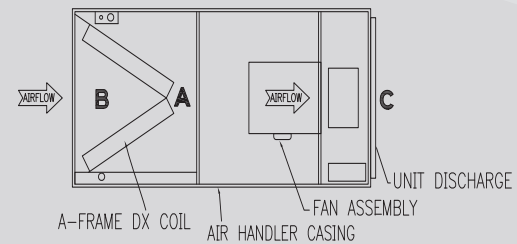


Figure 2



Typical Horizontal Slab Coil (Figures 3 and 4)

Figure 3

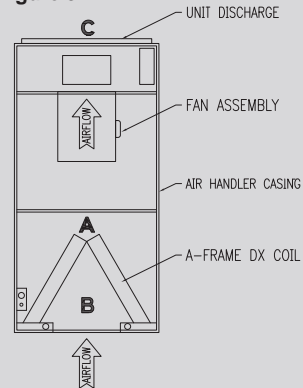
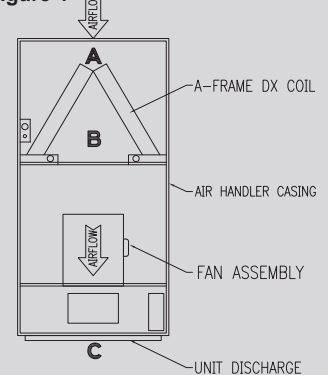
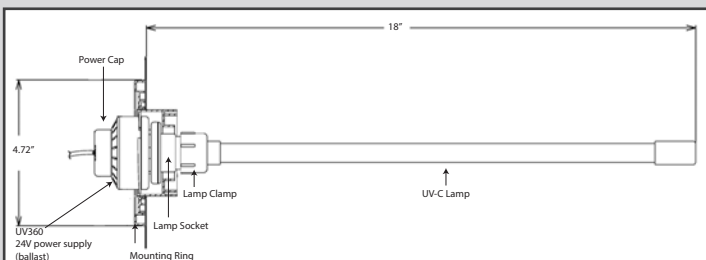


Figure 4



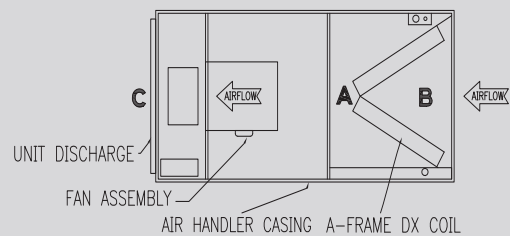
ComfortBreeze™ UV360-1 Specifications:

Model	UV360-1
UV-C Light Kit	167315-001
UV Bulb, 17" Phillips	167315-102
Bulb Style	T5 4-Pin
Type of Unit	UV-C Air Cleaner
Voltage (Amps) & Power	24V @ 20 Watts
Shipping Weight	4.5 lbs



Typical Horizontal A-Coil: Left Airflow (Figure 5)

Figure 5





Humidifiers

Atomizing, Evaporative, & Electric Steam

Air Purification Systems | www.trioniaq.com

Low Humidity Effects

Would you like to improve the quality of the air you breathe, reduce your heating bill this winter, and protect your home's interior furnishings?

Humidity is defined as the amount of moisture in the air. Your home's overall indoor air quality and your health are largely influenced by humidity control.

If the air in your home is dry, then irritated skin, chapped lips, nasal congestion and a dry mouth are the result. Low humidity in your home can also cause or aggravate respiratory ailments such as allergies and asthma.

Low humidity can also affect your home, drying out your furniture as well as the wood in your floors, walls and structural beams - which, as they shrink, can creak and crack. Dehydrated plants and increased static electricity are also caused by low humidity.

You can also feel the effects of low humidity in your wallet. During cold winter weather, outside air that naturally enters the home acts to reduce the indoor humidity levels. The dry air will actually make the air in your home feel colder; causing you to raise your furnace temperature, using more energy and increasing your heating bill.

TRION® products deliver optimal humidity levels that improve indoor air quality and comfort, reduce your heating bills and protect your home.

Humidity Facts

- Low humidity makes people more susceptible to infection.*
- Low humidity aggravates the skin, respiratory system, allergies and asthma.
- Humidity control is one of the most important steps you should take in creating a healthy indoor environment. Humidity control is not only effective in preventing mold growth, but it's also effective in curbing the dust mite population in your home.**

*The American Society of Otolaryngology

** Dr. Clive Brown, The Centers for Disease Control



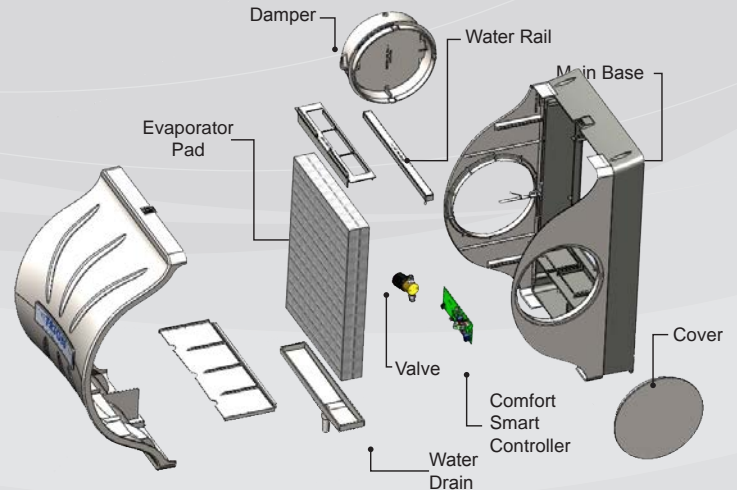
Controlled Humidity...

- Reduces air-borne dust.
- Inhibits the build-up of static electricity.
- Makes your home feel more comfortable.
- Helps relieve dry skin, dry mouth, and chapped lips.
- Reduces the occurrence of nose bleeds due to dry air.
- Helps asthma sufferers minimize respiratory discomfort.
- Reduces the growth of bacteria, fungus, mold, and livelihood of viruses.
- Prevents wood floors from cracking and can help prevent squeaky, creaking floors.
- Protects wood furnishings from the damaging effects of drying out. It prevents cracking and peeling of wood and finishes.
- Creates a suitable environment for houseplants to flourish.
- Protects wallpaper from peeling.
- Allows homeowners to feel comfortable with a lower thermostat setting which translates into energy savings.

ComfortBreeze™ CB300

ComfortBreeze™ CB300

By-Pass Evaporative Humidifier



Overview:

As warm air passes across the moist humidifier pad, water is evaporated into the air stream. This raises the relative humidity of the air and contributes to the overall indoor air quality. Controlled humidity helps alleviate respiratory ailments as well as protect home furnishings and woodwork from the damages associated with dry air. ComfortBreeze™ humidifiers consume minimal electricity and are available with optional patent-pending ComfortSmart™ Technology to minimize water consumption and maximize output capacity. ComfortSmart™ controls are equipped with fault annunciation and a service indicator to assist in troubleshooting any problems that may occur. When used with warm air furnaces, ComfortBreeze™ CB300S humidifiers deliver a peak capacity* of 22 gallons per day.

Features:

- ComfortSmart™ Technology - ComfortSmart™ controls self adjust to compensate for variations in temperature, airflow, and water pressure allowing the CB300S to provide maximum performance and water savings regardless of system conditions.
- Environmentally Friendly - ComfortBreeze™ humidifiers consume less than 10 watts of electricity and ComfortSmart™ Technology translates into greater than 80% water savings versus conventional competing units.
- Versatile Installation - By-Pass models include a summer/winter shut-off damper and can deliver a peak capacity* of 22 gallons per day.
- Push-To-Lock Fittings - Water connections provide quick and easy installation and worry-free operation.
- Fault Annunciation - The CB300S provides LED indication of fault codes and when evaporative pad replacement is necessary.
- Independent Operation - The CB300S can be installed so that a "call for heat" is not required for the unit to deliver humidification. ComfortSmart™ equipped models feature a relay that can power the HVAC blower.

Operational Benefits:

- ComfortSmart™ Technology maximizes humidification capacity while conserving water across all temperature conditions.
- Increasing a home's relative humidity can make it feel comfortable at a lower temperature. (68°F can feel equivalent to a dry 73°F)
- Lower thermostat settings can deliver substantial savings on monthly energy bills. Every degree of setback represents about a 3% savings on heating costs.
- Save on energy costs while improving comfort.
- No need to plumb to hot water lines as is recommended for other evaporative humidifiers to "help" improve their performance. ComfortSmart™ technology automatically maximizes evaporative performance without the added cost of using hot water.

Warranty:

- 5 Year Limited Warranty

Voted #1 in IAQ
by Contracting Business | Aug 2012

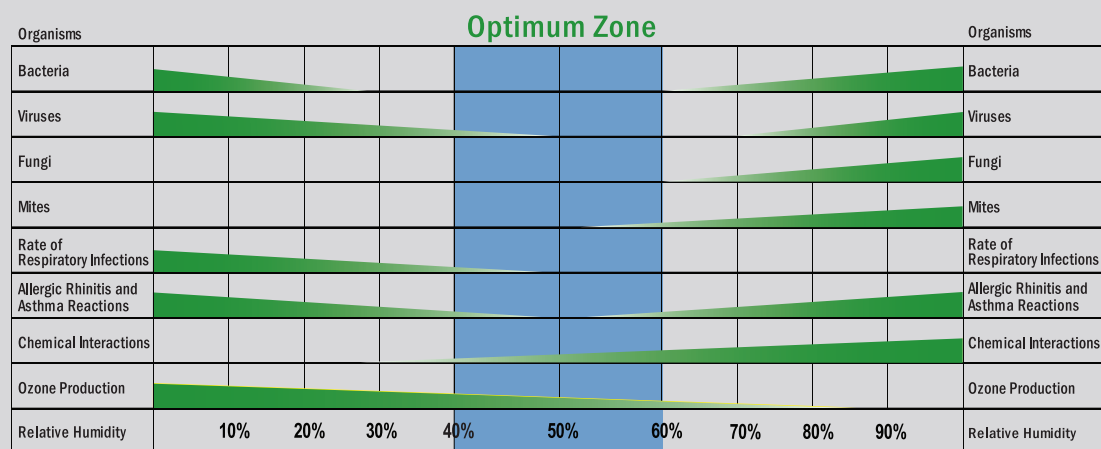
ComfortBreeze™ CB300

ComfortBreeze™ CB300

Model	CB300S with ComfortSmart™ Technology	CB300
Part No.	265686-001	265686-002
Type of Unit	By-Pass Evaporative	By-Pass Evaporative
Peak Capacity (GPD)*	22 Gallons per Day	22 Gallons per Day
Humidistat Type	Electronic	Mechanical
ComfortSmart™ Technology	Yes	No
Capacity Reduction	Yes	No
Water Supply	20-100 PSI	20-100 PSI
Voltage (Amps)	24VAC (0.25A)	24VAC (0.25A)
Unit Dimensions	14.13"W x 10.00" D x 19.00" H	14.13"W x 10.00" D x 19.00" H
Water Connection	1/4" OD Tubing	1/4" OD Tubing
Overflow Connection	1/2" ID Tubing	1/2" ID Tubing
Ducted Opening	9.75"W x 13.00"H	9.75"W x 13.00"H
By-Pass Duct Size	6.00" Round	6.00" Round
Shipping Weight	11.25 Lbs.	11.25 Lbs.
Operating Weight	8.5 Lbs.	8.5 Lbs.

* Peak capacity as tested at 140°F air temperature. Nominal capacity at 120°F is 18 GPD.

Optimum Humidity Zone:



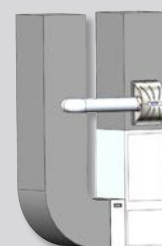
Upflow
Bottom
Return



Down Flow



Horizontal Flow



Upflow Side Return

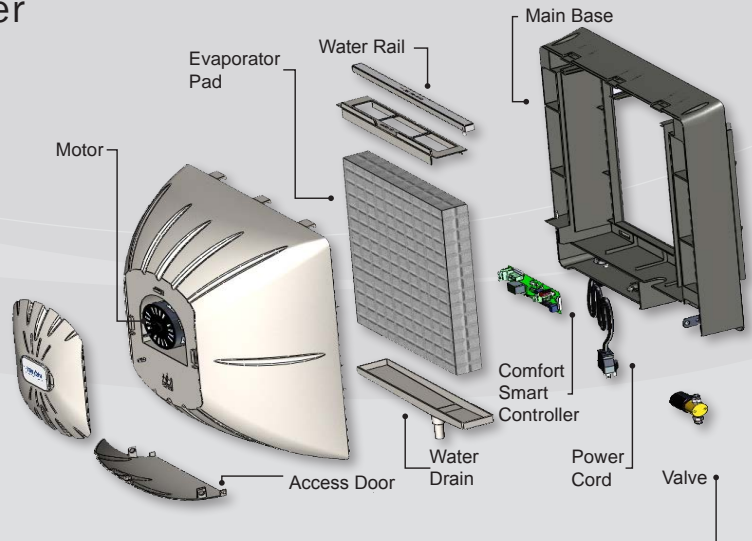


Green Solutions for Healthy Air

ComfortBreeze™ CB100

ComfortBreeze™ CB100

Fan Powered Evaporative Humidifier



Overview:

As warm air passes across the moist humidifier pad, water is evaporated into the air stream. This raises the relative humidity of the air and contributes to the overall indoor air quality. Controlled humidity helps alleviate respiratory ailments as well as protect home furnishings and woodwork from the damages associated with dry air. ComfortBreeze™ humidifiers consume very little electricity and are available with optional patent-pending ComfortSmart™ Technology to minimize water consumption and maximize output capacity. ComfortSmart™ controls are equipped with fault annunciation and a service indicator to assist in troubleshooting any problems that may occur. Since the CB100 is powered by its own fan, it may be used on any type furnace system and its capacity, operation and performance won't suffer due to minimal air volumes present with variable speed furnace systems.

Features:

- **ComfortSmart™ Technology** - ComfortSmart™ controls self adjust to compensate for variations in temperature, airflow, and water pressure allowing the CB100S to provide maximum performance and water savings regardless of system conditions. ComfortSmart™ equipped humidifiers have the highest peak capacity* and are the only humidifiers available with a constant drain water ratio.
- **Environmentally Friendly** - ComfortBreeze™ humidifiers consume less than 100 watts of electricity and ComfortSmart™ Technology translates into greater than 80% water savings versus conventional competing units.
- **Versatile Installation** - Fan-powered models are compatible with any type furnace system: single stage, variable speed, or modulating.
- **Push-To-Lock Fittings** - Water connections provide quick and easy installation and worry-free operation.
- **Fault Annunciation** - The CB100S provides LED indication of fault codes and when evaporative pad replacement is necessary.
- **Independent Operation** - The CB100S can be installed so that a "call for heat" is not required for the unit to deliver humidification. ComfortSmart™ equipped models feature a relay that can power the HVAC blower.

Operational Benefits:

- **ComfortSmart™ Technology** maximizes humidification capacity while conserving water across all temperature conditions.
- Increasing a home's relative humidity can make it feel comfortable at a lower temperature. (68°F can feel equivalent to a dry 73°F)
- Lower thermostat settings can deliver substantial savings on monthly energy bills. Every degree of setback represents about a 3% savings on heating costs.
- Save on energy costs while improving comfort.
- No need to plumb to hot water lines as is recommended for other evaporative humidifiers to "help" improve their performance. ComfortSmart™ technology automatically maximizes evaporative performance without the added cost of using hot water.

Warranty:

- 5 Year Limited Warranty

Voted #1 in IAQ
by Contracting Business | Aug 2012

ComfortBreeze™ CB100

ComfortBreeze™ CB100

Model	CB100S with ComfortSmart™ Technology	CB100
Part No.	265713-001	265713-002
Type of Unit	Fan Powered Evaporative	Fan Powered Evaporative
Peak Capacity (GPD)*	20 Gallons per Day	20 Gallons per Day
Humidistat Type	Electronic	Mechanical
ComfortSmart™ Technology	Yes	No
Capacity Reduction	Yes	No
Water Supply	20-100 PSI	20-100 PSI
Voltage (Amps)	120VAC (0.8A)	120VAC (0.8A)
Unit Dimensions	11.6"W x 10.12" D x 18.12" H	11.6"W x 10.12" D x 18.12" H
Water Connection	1/4" OD Tubing	1/4" OD Tubing
Overflow Connection	1/2" ID Tubing	1/2" ID Tubing
Ducted Opening	13.13"W x 14.25"H	13.13"W x 14.25"H
Shipping Weight	17 Lbs.	17 Lbs.
Operating Weight	13 Lbs.	13 Lbs.
Approvals (Pending)	ETL (US & Canada)	ETL (US & Canada)

* Peak capacity as tested at 140°F air temperature. Nominal capacity at 120°F is 18 GPD.



Upflow
Bottom
Return



Down
Flow

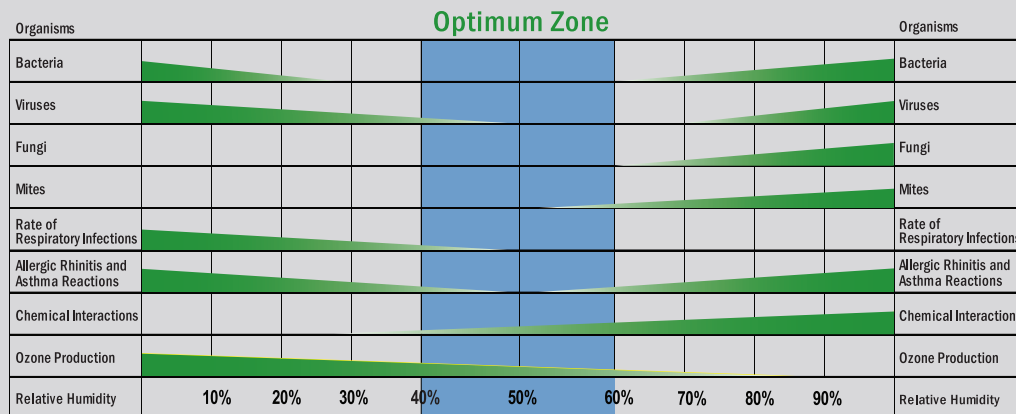


Horizontal Flow



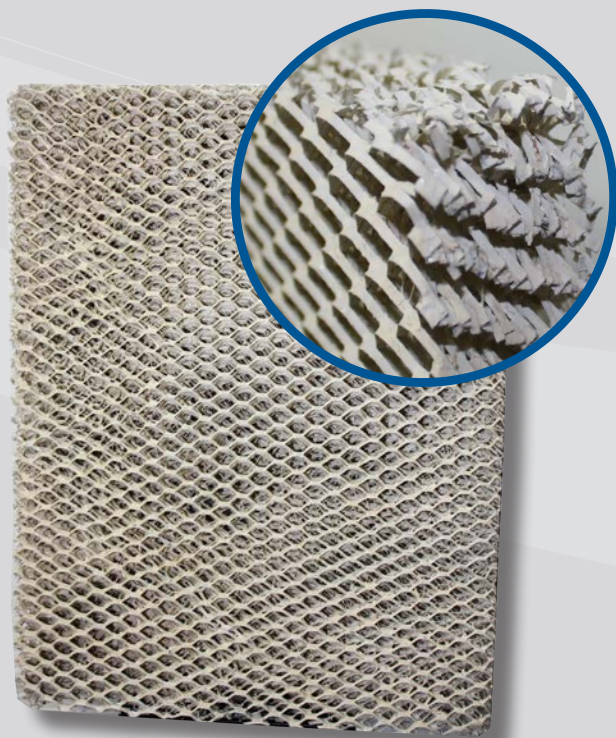
Upflow Side Return

Optimum Humidity Zone:



Green Solutions for Healthy Air

Evaporative Replacement Pads



Overview:

Water pad evaporator filters are the heart of your humidifier. It is the component that generates the important humidity to keep you comfortable during the heating season. It is recommended that the whole house humidifier filter is replaced at least once per heating season. Hard water areas may require two changes per season to ensure peak performance. This high quality product is manufactured to replace the humidifier filter (AKA evaporator pad) in many makes and models of whole-house humidifier filters. This product is found in large bypass and fan-powered humidifiers manufactured by TRION® IAQ, Aprilaire, Honeywell, Bryant, Carrier, Totaline, Lennox, and many others. The humidifier filter is constructed using an expanded aluminum mesh pad covered with a special clay-like coating that absorbs water and removes mineral deposits. The humidification process begins when water flows through a humidifier valve and soaks the pad. Hot, dry air from the furnace or fan coil passes through the filter and absorbs the water. This moist air is distributed through the home via the forced-air duct system.

Benefits:

- Provides a healthier home environment
- Improves the comfort of your home
- Disperses water in a uniform manner, enabling more effective evaporation

Features:

- Measures approximately 10" x 13" x 1½"
- High performance and high output
- Guaranteed to fit most whole-house humidifiers
- Made of high quality components

Evaporative Replacement Pads

Evaporative Replacement Water Pad for use with the following models:

TRION P/N 265470-001					
Aprilaire®	Bryant®	Carrier®	Honeywell®	Lennox®	Totaline®
350	HUMBBLFP1218	HUMBALFP1218	HE200A	WB217	P110-LFP-1218
360	HUMBBLFP1218-A	HUMCCLFP1218	HE250A	WB218	P110-LFP-1318
560	HUMBALFP1318	HUMCALFP1318	HE260A		P110-LFP-1318-A
560A	HUMBBLFP1318	HUMCCLFP1318	HE260B		P110-LFP-1418
568	HUMBBLFP1318-A	HUMCCLBP2217	HE265A		P110-LBP-2217
600	HUMBBLFP1418	HUMCCLBP2317	HE265B		P110-LBP-2317
700	HUMBALBP2217	HUMCALBP2317	HE360A		P110-LBP-2417
760	HUMBBLBP2217-A	HUMCCLBP2417	HE360B		
760A	HUMBALBP2317	HUMCALBP2417	ME360		
768 (35)	HUMBBLBP2317	49BA00100	HE365A		
	HUMBBLBP2317-A	ZIHUMCCLBP2217A	HE365B		
	HUMBALBP2417				
	HUMBBLBP2417				

Aprilaire®, Bryant®, Carrier®, Honeywell®, Lennox®, and Totaline® are registered trademarks of their respective companies.

ComfortBreeze™ CB707

ComfortBreeze™ CB707 Centrifugal Atomizing Humidifier



Overview:

Centrifugal atomizing humidifiers operate by dispersing a fine mist into the return air supply duct of your heating system or directly into the space. Heightened indoor air quality and increased comfort are the result. ComfortBreeze™ CB707 humidifiers feature microprocessor controls with a status LED that indicates operating status, fault indication and when service is required. The universal humidistat, installed either on the wall or in the cold air return duct, turns on the unit when the humidity level is below the set point.

Features:

- Environmentally Friendly - The CB707 humidifier wastes no water during normal operation and consumes less than 75 watts.
- Versatile Installation - Can be duct mounted, ceiling mounted, wall mounted or shelf mounted.
- Push-To-Lock Fittings - Water connections are easy and provide simple, worry-free operation.
- Fault Annunciation - The integrated microprocessor controls continuously monitor the humidistat status, float switches and operating hours to indicate when service is required and facilitate troubleshooting.
- Independent Operation - The CB707 can be installed so that a “call for heat” is not required for the unit to deliver humidification.

Benefits:

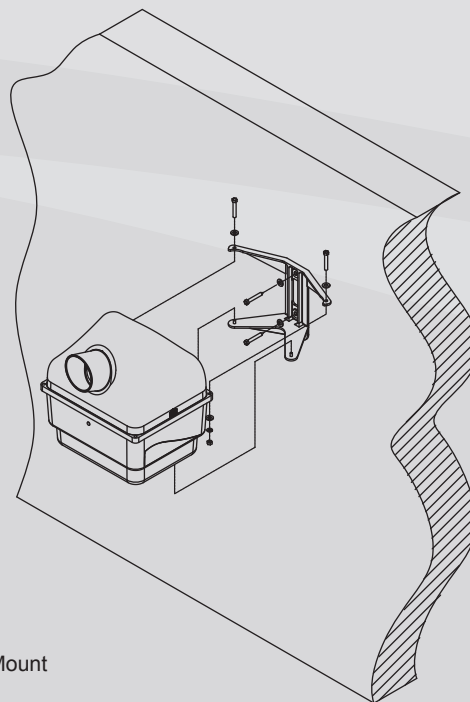
- Increasing a home’s relative humidity can make it feel comfortable at a lower temperature. (68°F can feel equivalent to a dry 73°F)
- Reduced Heating Bills - In addition to improving comfort and indoor air quality, the CB707 can help reduce heating bills. Since humidified air feels warmer, a lower thermostat setting may translate into energy savings.
- More economical than steam humidifiers when installed on heat pump systems.
- Compatible with all forced air HVAC systems.

Warranty:

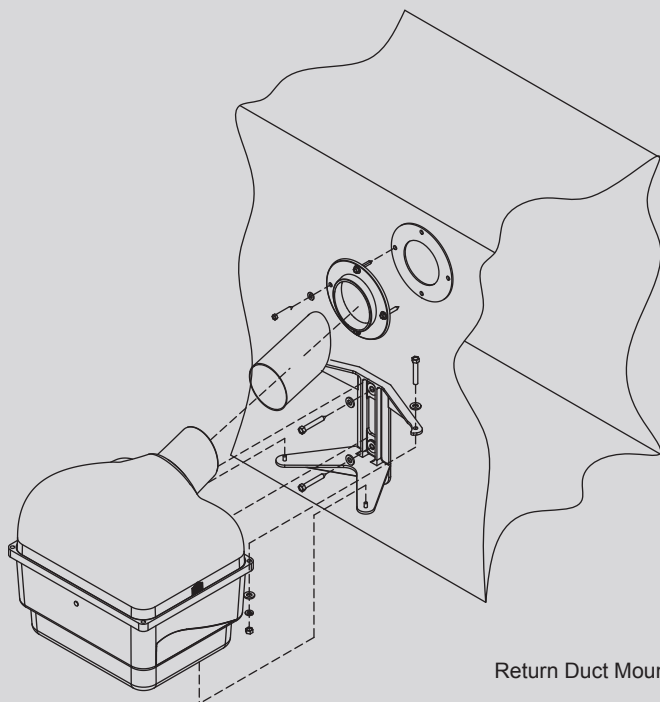
- 5 Year Limited Warranty

ComfortBreeze™ CB707

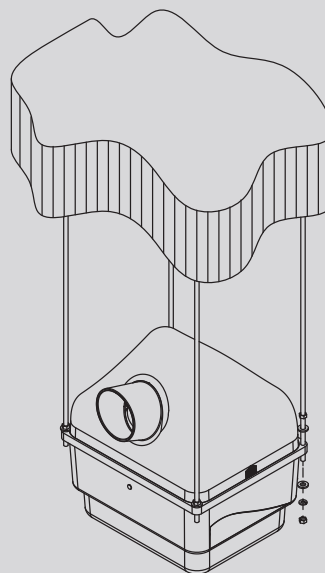
Model	CB707
Part No.	265562-001 (120V) & 265562-002 (220V)
Type of Unit	Centrifugal - Atomizing
Capacity (GPD)	6.0 Gallons per Day
Water Supply	20-80 PSI
Voltage (Amps)	120VAC (0.6A), 220VAC (0.3A)
Unit Dimensions	11"W x 9.5"D x 12"H
Water Connection	1/4" OD Tubing
Overflow Connection	1/2" ID Tubing
Ducted Connection	2 7/8" Round
Shipping Weight	12.75 Lbs.
Operating Weight	9 Lbs.
Approvals (Pending)	ETL (US & Canada) CE (220V)



Wall Mount



Return Duct Mount



Ceiling Mount

CM200

Flow-Through Humidifier



Features:

- Easy to install, compact, and durable design.
- Adjustable, precision duct or wall mounted humidistat allow the unit to be set for optimum relative humidity.
- Universal mounting allows for left or right side air intake when installed.
- 2" evaporator pad expands the evaporative area for water supply and increases performance.
- Accessible from the front, making pad changes easy.
- Serviceable internal water filter protects solenoid.
- Self-piercing saddle valve and a 24v brass solenoid valve makes installation easy.
- Wide 6" duct collar for ease of installation.
- Uses standard humidifier 24VAC power input.
- Complete installation kit and humidistat control included for immediate installation.
- Single screw secures cover.

Overview:

The compact, durable CM200 evaporative humidifier was designed for homes up to 2800 square feet, where there may be limited space available for mounting. The evaporated water is released into the home by the furnace or air handler. The adjustable, humidistat allows the user to choose the optimum humidity level for maximum indoor comfort. As warm air passes across the moist humidifier pad, water is evaporated into the air stream. This raises the relative humidity of the air and contributes to the overall indoor air quality. Controlled humidity helps alleviate respiratory ailments as well as protect home furnishings and woodwork from the damages associated with dry air. When used with warm air furnaces, CM200 humidifiers deliver a peak capacity of 13 gallons per day.

Benefits:

- Saves on energy costs and improves comfort.
- Increasing a home's relative humidity 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.

Warranty:

- 5 Year Limited Warranty



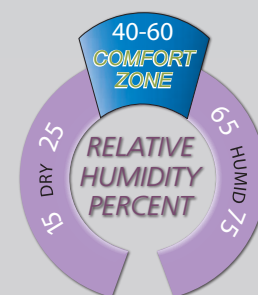
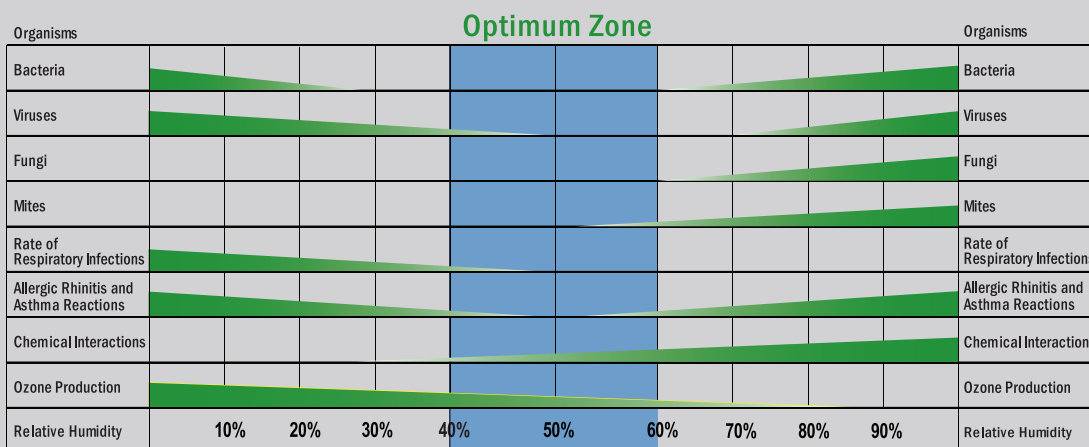
CM200

Model	CM200
Part No.	266816-001
Sizing	Up to 2800 sq ft/260m ³
Nominal capacity**	13 GPD/1.9 liters/hr
By-pass duct	6"/15cm Ø x 24"/61cm
Plenum opening	9 1/4"/235mm W x 8 1/4"/210mm H
Unit dimensions	13"/330mm W x 12"/305mm H x 8 3/4"/222mm D
Evaporative surface	9.75"/250mm W x 9.75"/250mm H x 1 5/8"/40mm D
Electrical supply	24 VAC/60Hz
Solenoid	24 VAC
Water Connection	0.25"/64mm Ø OD
Drain requirement	Yes
Shipping dimensions	13.5"/343mm W x 12 3/4"/324mm D x 13 1/4"/337mm H
Shipping weight	8 lbs/3.6Kg

* Based on tight construction, 8 foot ceilings as per ARI Guideline F

**Based on 120F/49C entering air temperature, 165CFM air flow

Optimum Humidity Zone:



Zones

The typical heated home's relative humidity is less than 15% during the winter months. Relative humidity should be between 40 and 60% in order to maximize comfort.

Mister-MINI®

Duct-Mounted Atomizing Humidifier



How Humidifiers Work:

Mister-MINI® humidifiers operate by dispersing a fine mist into the warm air supply duct of your heating system. The water is evaporated by the warm air from the furnace and carried into your home by the furnace air flow. The result is improved indoor air quality and increased comfort. The Mister-MINI® humidistat and built-in temperature switch automatically control the operation of the humidifier to ensure that the proper amount of humidity is achieved. The built-in temperature switch prevents operation if the temperature in the warm air duct is not high enough to ensure effective evaporation. The universal humidistat, installed either on the wall or in the cold air return duct, turns on the unit when the humidity level in the home is below the set-point.

Performance:

- Ideally designed for use with fossil fuel fired furnaces, Mister-MINI® is equipped to humidify homes up to 2000 sq. ft.**
- Mister-MINI® includes a mechanical humidistat that will cycle the humidifier to maintain an accurate and comfortable humidity level.
- Capacity Output: 12.5 Gallons Per Day @ 60 PSI.
- 100% of the atomized water is introduced into the air stream ensuring that no water is wasted.
- A “green”, environmentally friendly humidifier uses less water than conventional flow-through humidifiers.
- No water is wasted during operation and no drain connection is required.

Features & Benefits:

- Fast & Easy Installation: Mounts directly to the duct in only a 3.125" x 3.125" opening.
- Compact Construction: The unit is small enough to fit into areas where larger humidifiers won't.
- Push-To-Lock Fittings: Water connections are easy and provide simple, worry free operation.
- Tilt-out Nozzle Assembly: Ensuring simplified maintenance by allowing quick access to the key parts of the unit.
- Clean Humidity: Mister-MINI® introduces atomized water directly to the airstream, so there is no standing water to become stagnant.
- Versatile Sizing: Capacity is easily increased or decreased by simply changing the nozzle.

Warranty:

- 5 Year Limited Warranty

MISTER-MINI®

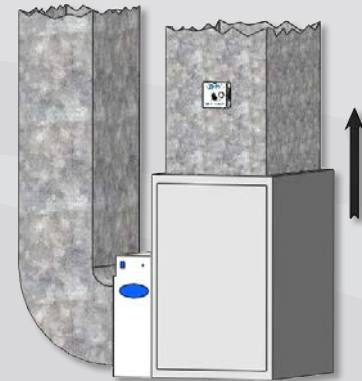
MISTER-MINI®	
Part No.	265000-001
Type of Unit	Atomizing - Evaporative
Capacity @ 140°F Air	12.5 Gallons per day @ 60 psi
Capacity @ 120°F Air	12.5 Gallons per day @ 60 psi
Capacity @ 100°F Air	Not Recommended for Air Temperatures <100°F
Volts / Hz	24 V / 60 Hz
Dimensions	Packaging: 6.25" W x 6" H x 9.25" D Unit: 4.25" W x 4.25" H x 3.88" D
Weight	1 1/2 lbs / Shipping – 3 lbs
Standard Nozzle	0.75 GPH 60° Hollow Cone Nozzle

Supply Capacity

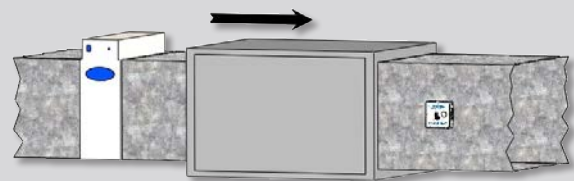
Nozzle Pressure (PSI)	Nozzle Size*							
	0.4		0.5		0.75		1	
	GPH	GPD	GPH	GPD	GPH	GPD	GPH	GPD
40	0.23	5.5	0.28	6.8	0.43	10.2	0.57	13.7
45	0.24	5.8	0.30	7.2	0.45	10.9	0.60	14.5
50	0.25	6.1	0.32	7.6	0.48	11.5	0.64	15.3
55	0.27	6.4	0.33	8.0	0.50	12.0	0.67	16.0
60	0.28	6.7	0.35	8.4	0.52	12.5	0.70	16.7
65	0.29	7.0	0.36	8.7	0.54	13.1	0.73	17.4
70	0.30	7.2	0.38	9.0	0.56	13.6	0.75	18.1
75	0.31	7.5	0.39	9.4	0.58	14.0	0.78	18.7
80	0.32	7.7	0.40	9.7	0.60	14.5	0.80	19.3
85	0.33	8.0	0.41	10.0	0.62	14.9	0.83	19.9
90	0.34	8.2	0.43	10.2	0.64	15.4	0.85	20.5
95	0.35	8.4	0.44	10.5	0.66	15.8	0.88	21.1
100	0.36	8.6	0.45	10.8	0.68	16.2	0.90	21.6

* Mister-MINI® comes equipped with a 0.75 gallon nozzle as standard.

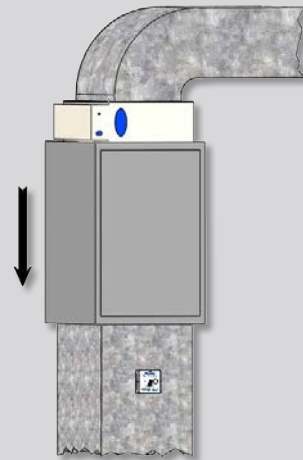
** Installation variables, such as, available water pressure, home air-tightness, and outdoor climate impact the maximum home size that the unit can humidify.



Upflow Configuration



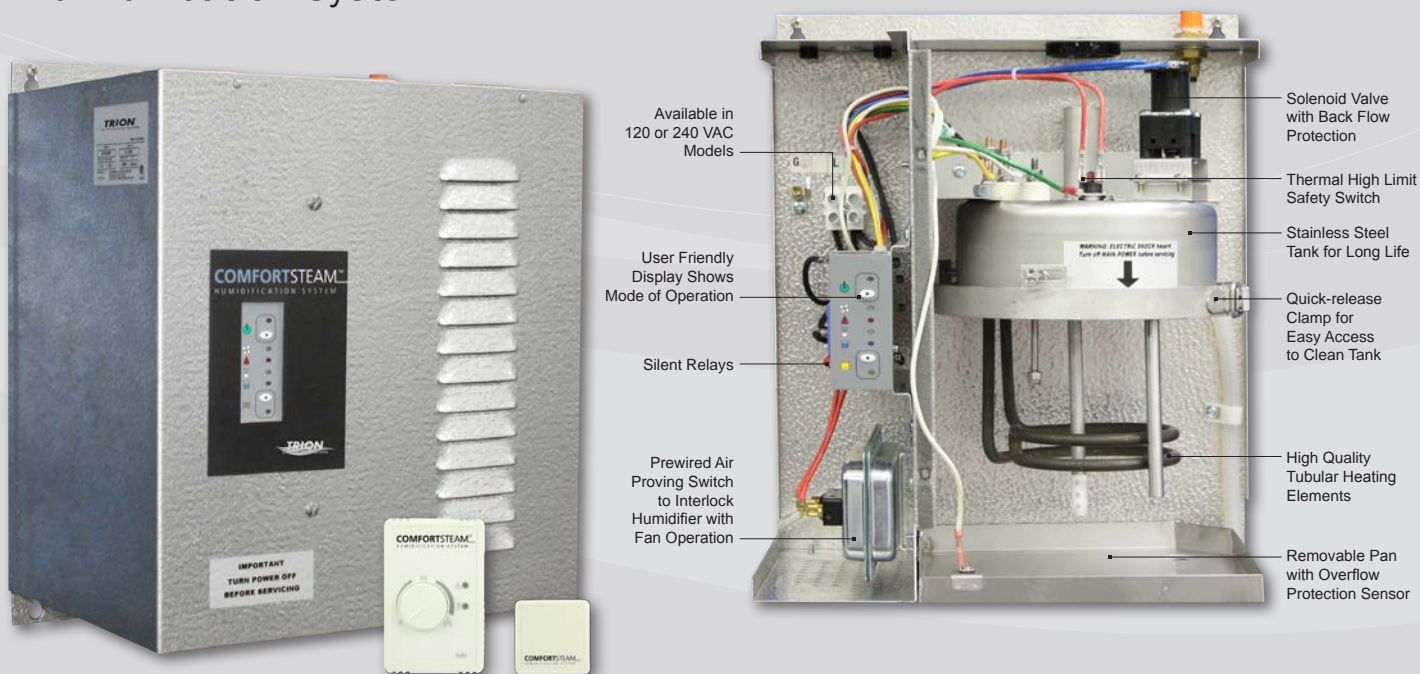
Horizontal Configuration



Downflow Configuration

COMFORTSTEAM™

COMFORTSTEAM™ Humidification System



Performance:

COMFORTSTEAM™ is an isothermal system that produces odorless, sterile, and bacteria-free humidification. Steam is produced at atmospheric pressure and dispersed into the HVAC ductwork via a steam nozzle or perforated steam diffuser. Selection includes three capacities ranging from 13 GPD to 34.5 GPD (4.5 – 12 lbs/hr steam). Units are available in 120 VAC and 240 VAC. An available electronic humidistat with outdoor reset automatically reduces the humidity setpoint as the outdoor temperature falls. Each unit is factory tested and CSA certified.

Features:

- Clean Steam: Odorless, sterile, bacteria-free humidification.
- Installation Flexibility: Duct or remote mountable.
- On-Board Diagnostics: User friendly display shows mode of operation and status.
- Fault Annunciation: LED blinks to simplify fault diagnosis.
- Ease of Service: Quick release, stainless steel tank.
- Versatile Microprocessor Controls: Adaptable to various water qualities.
- Siphon Draining System: Eliminates the chance of blocked solenoid valves and drains at a safe temperature.
- Compact Chassis Design: Light weight and simple to install.
- Silent Operation
- Full Complement Of Accessories
- CSA Certified

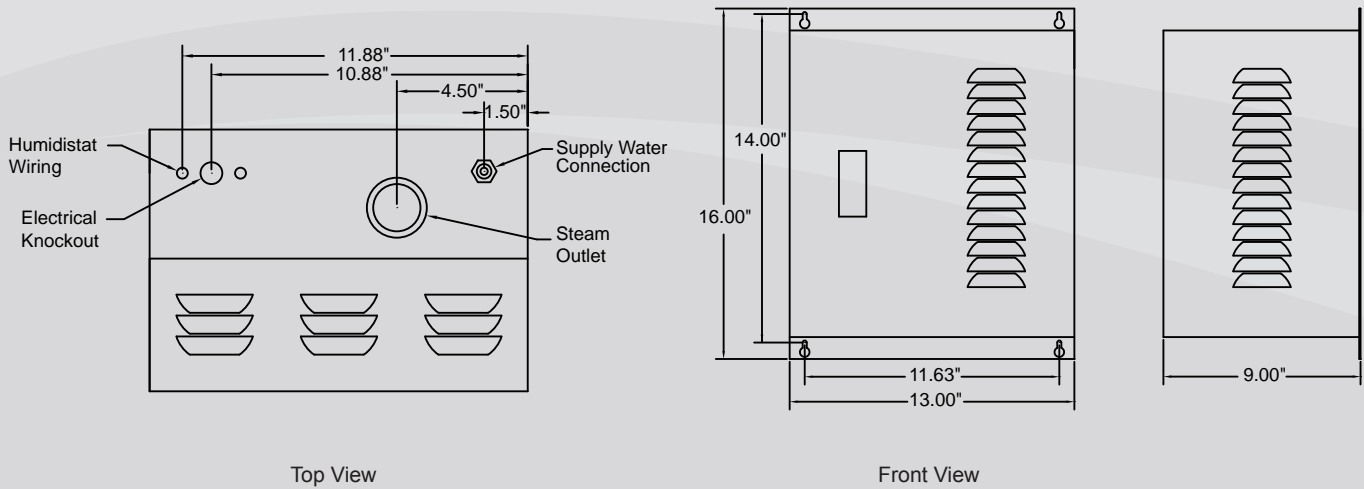
Applications:

- Residential
- Commercial
- Hospitals
- Computer Rooms
- Laboratories
- Clean Rooms
- Telecommunications
- Switch Gear Facilities
- Humidors

Warranty:

- 5 Year Limited Warranty

COMFORTSTEAM™ Dimensional Data



COMFORTSTEAM™ Specifications

Specifications	CFS-05B	CFS-05D	CFS-05R	CFS-05	CFS-10	CFS-15
Capacity (GPD/PPH)¹	13/4.5	13/4.5	13/4.5	13/4.5	26/9	34.5/12
Kilowatts (KW)	1.5	1.5	1.5	1.5	3.0	4.0
Voltage	VAC 120	VAC 120	VAC 120	VAC 120	240 VAC	240 VAC
Full Load Amps (FLA)	12.5	12.5	12.5	12.5	12.5	16.6
Dimensions	16" H x 13" W x 9" D					
Airflow Switch	No	Yes	Yes	Yes	Yes	Yes
Water Hammer Absorber	No	Yes	Yes	Yes	Yes	Yes
Electronic Humidistat	Not Included	Duct	Room	Not Included	Not Included	Not Included
Shipping Weight	23 Lbs.	23 Lbs.	23 Lbs.	23 Lbs.	23 Lbs.	23 Lbs.
Tight Home²	4000 Sq. Ft.	4000 Sq. Ft.	4000 Sq. Ft.	4000 Sq. Ft.	8000 Sq. Ft.	10600 Sq. Ft.
Average Home³	2000 Sq. Ft.	2000 Sq. Ft.	2000 Sq. Ft.	2000 Sq. Ft.	4000 Sq. Ft.	5300 Sq. Ft.
Loose Home⁴	1300 Sq. Ft.	1300 Sq. Ft.	1300 Sq. Ft.	1300 Sq. Ft.	2600 Sq. Ft.	3500 Sq. Ft.

1. Gallons Per Day/Pounds Per Hour (steam)

2. A "Tight Home" is assumed to be well insulated with vapor barriers, tight storm windows and doors, and a dampered fireplace. Air exchange rate of .5 changes per hour.

3. An "Average Home" is insulated and has a dampered fire place, but there are no vapor barriers, storm doors, or storm windows. Air exchange rate of 1.0 change per hour.

4. A "Loose Home" is generally one constructed before 1930, has little or no insulation, no storm doors, storm windows, weather stripping or vapor barriers, and often no effective dampering of fireplaces. Air exchange rate is as high as 1.5 changes per hour.

Comfort-D75 & D95 Dehumidifiers

Comfort-D75 & D95 Whole-House Dehumidifiers



Overview:

Controlling humidity in your indoor environment is one of the single most beneficial things you can do for your health and comfort. Too much humidity leads to a sticky uncomfortable environment ripe for dust mites, bacteria and mold growth. Too little leaves you open for dry uncomfortable conditions and static electricity. As with most things in life, moderation is the key. The optimum zone for indoor humidity levels is between 40 and 60 percent. Conditions outside of these parameters can lead to uncomfortable or unhealthy indoor environments.

Operational Benefits:

TRION®'s D75 and D95 dehumidifiers are designed to deliver dehumidified, filtered air to the living space. Equipped with an onboard adjustable humidistat (20% - 80% RH) and fan control, both units will optimize ambient humidity between 48% to 60% when interlocked with the air handler.

Air conditioners are designed to cool the air and are more efficient when cooling drier air. By using a dehumidifier, it will reduce the humidity to more optimal levels while increasing system performance and comfort. The use of both together will provide cool, dry air in the summer while optimizing your system's efficiency and reducing overall energy costs.

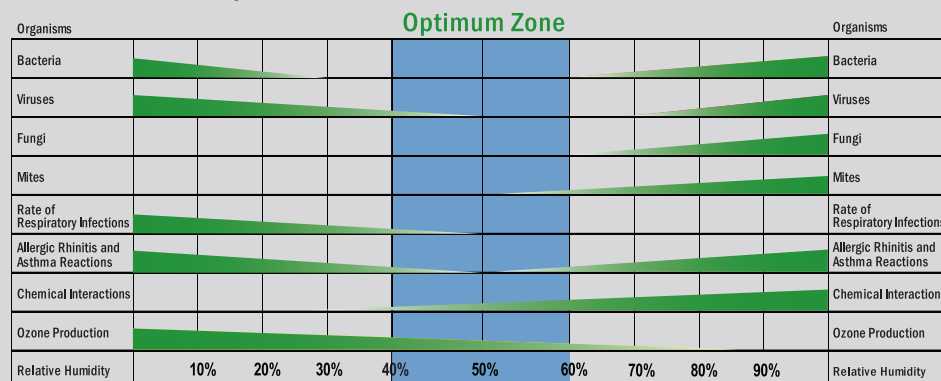
Warranty:

- 5 Year Limited Warranty

Features:

- 75 or 95 Pint per Day Capacity - Choose the right size for the home.
- Free Standing - For crawl spaces and basements.
- Ducted - Used with whole-house HVAC systems.
- Round Supply and Discharge Collars
- Piped Drain (NPT) - Reduced homeowner maintenance.
- Easily Removable Access Panels
- 3 Prong, Grounded Cord with Plug
- Integral Fan/Motor - No reduction of air handler performance.
- Energy Efficient - 9 Amps or less at 120V.
- Energy Savings - Up to 40% less energy than stand-alone units.
- Energy Star Listed (D75 Only)
- Built-in Adjustable Humidistat - No external controls required.
- Auto-Defrost/Anti-Freeze Protection - Prevents coils from freezing.
- Highly Efficient MERV 11 Filter - Coils kept cleaner, optimizing efficiency.
- R-410A Refrigerant - Environmentally friendlier than R-22. No chlorine and improved heat transfer capacity.
- Test to ANSI/UL STD 474, to CAN/CSA STD. C22.2 No.-92-197, and applicable sections of ANSI/UL STD 1995.

Optimum Humidity Zone:

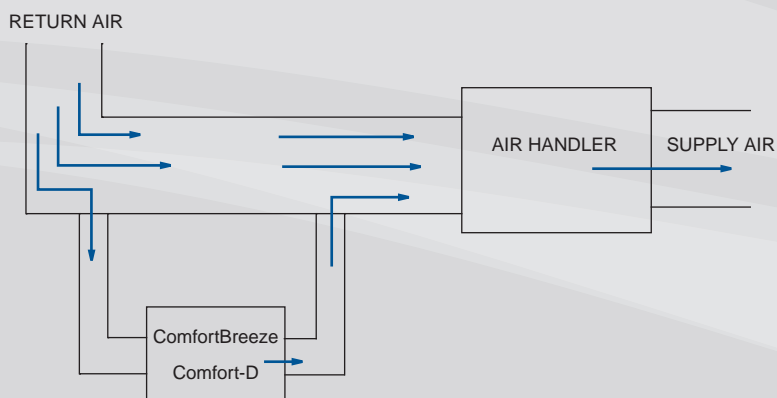


Comfort-D75 & D95 Dehumidifiers

D75 & D95 Overview

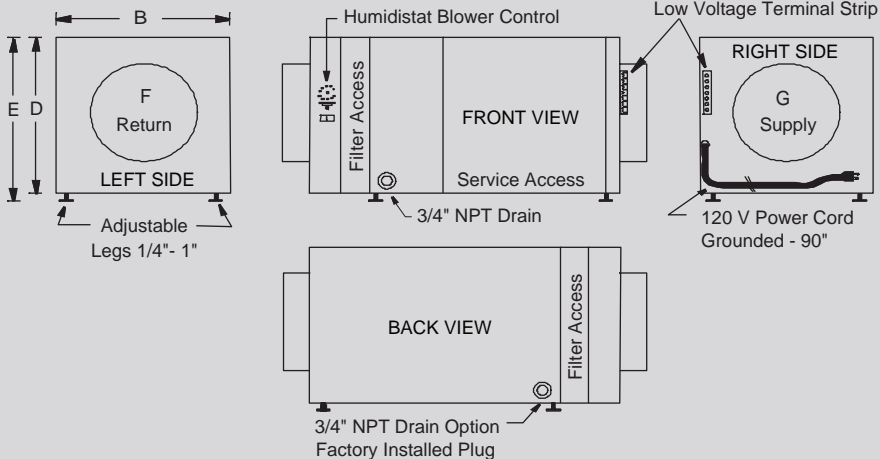
Model	D75	D95
Capacity (80°F, 60%RH)	74 Pints/Day	95 Pints/Day
Temperature Range (°F)	50 - 95 °F	50 - 95 °F
Volts/Hz	110-120V/60Hz	110-120V/60Hz
Power (Amps)*	6.7 FLA*	10.8 FLA*
Inlet	8" Dia.	10" Dia.
Outlet	8" Dia.	10" Dia.
Prefilter	MERV 11	MERV 11
Airflow		
@ 0.0" H ₂ O esp	280 CFM	375 CFM
@ 0.3" H ₂ O esp	235 CFM	295 CFM
@ 0.5" H ₂ O esp	195 CFM	235 CFM
Refrigerant	R-410A (16 oz)	R-410A (16 oz)
Weight	60 Lbs.	90 Lbs.
Tested	ETL USA/Canada	ETL USA/Canada

*FLA @ 80°F, 60% RH.



D75 & D95 Dimensions

	D75	D95
A	27.25"	29.25"
B	13.00"	14.25"
C	23.25"	25.25"
D	12.75"	14.25"
E	13.75"	15.25"
F	8.00"	10.00"
G	8.00"	10.00"



TMD520 Motorized Damper

TMD520

Whole-House Motorized Air Damper



Features:

- Adjustable damper position range stops
- Single-blade damper
- Galvanized steel
- Shipped as power open/spring closed
- Can be field-converted to power close/spring open
- Blade closes off tightly against gasket for minimal leakage
- Rated to operate up to 1 in. wc
- Male (crimped) and female (uncrimped) ends to connect to any rigid or flexible round duct

Applications:

- Apartments complexes
- Condominiums
- Single family residences
- Light commercial

Overview:

TRION® model TMD520 is a ventilation control system solution for residential applications up to 4,600 square feet. The system introduces outdoor ventilation air into the building envelope through an intake damper that is controlled by the microprocessor based ventilation control interface. The system controls the amount of outdoor ventilation air as required by the Ventilation and Air Quality Standard defined in ASHRAE 62.2, promoting healthier indoor air quality.

Benefits:

- Helps satisfy ventilation codes and standard ASHRAE 62.2
- Controls allow application specific ventilation set points
- Promotes healthier Indoor Air Quality (IAQ)
- Controller optimizes HVAC unit run times
- Exhaust fan control wiring option
- Quick and easy installation and setup

Warranty:

- 5 Year Limited Warranty



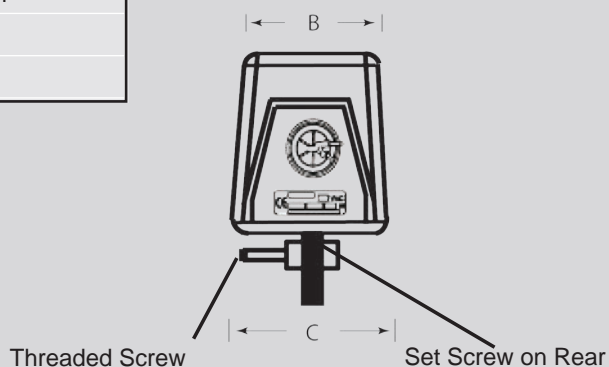
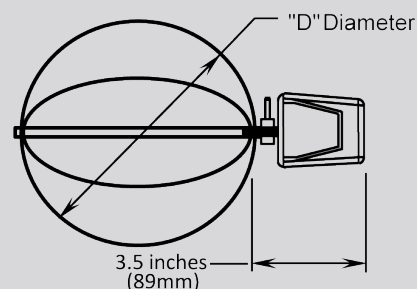
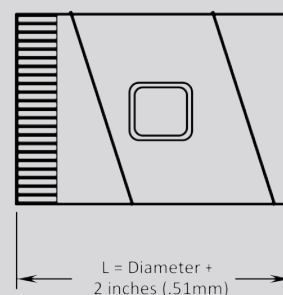
TMD520 Motorized Damper

Model	TMD520
Frame	Galvanized steel spiral duct, crimped on downstream side.
Sizes	5 in., 6 in., 8 in., 10 in., 12 in., 14 in., 16 in., 18 in., and 20 in. diameters
Cap Covers	Comes standard in plastic and is available in metal with #6 screws.
Gauges	24 Gauge frame, and 22 Gauge blade. 22 Gauge frame, and 20 Gauge blade.
Motor Electrical Rating	24 VAC, 60 Hz, 6VA
Motor Electrical Connection	4 in. lead wire
Motor Nominal Angular Rotation	90°
Motor Torque	Minimum 60 in.-oz. (423 milli-newton meters) output torque available when motor is energized and device is at the spring return initial start position.
Nominal Motor Timing at 77°F (25°C) Ambient	Energized at rated load: 30 seconds. De-energized (spring return): 10 seconds
Motor Ambient Temperature Rating	40° to 140°F (5° to 60°C)
Leakage	Less than 1% at 1/2 in. wc.
Pressure Drop	Maximum at full open: 0.0329 in. wc at 800 ft/min.
Maximum Static Pressure	1 in. wc for all models except 0.3 in. wc for TMD520.
Motor Shaft Rotation Direction	Clockwise, when energized and viewed from the base or shaft end.
Motor Mounting Means	Multi-poise
Motor Dimensions	See Fig. 2

The specifications given in this publication do not include normal manufacturing tolerances. Therefore, this unit may not exactly match the listed specifications. Also, this product is tested and calibrated under closely controlled conditions, and some minor differences in performance can be expected if those conditions are changed.

Dimensions				
	A	B	C	D
in	3.5	2.75	3	*
mm	88.9	69.85	76.2	*

*Diameter varies, see options to the left. The length is equal to the diameter plus 2 in.



Smoke Eliminators

SE400E & SE800E

Smoke Eliminator



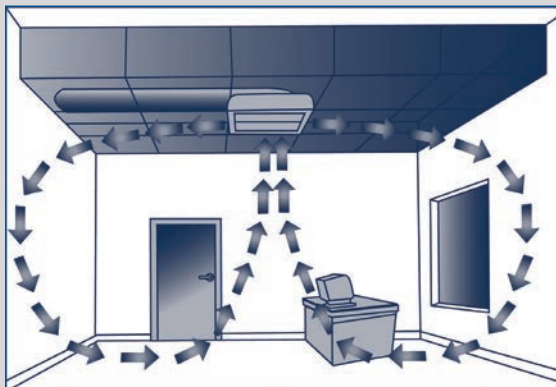
SE800E



SE400E

Airflow Diagram:

The SE400E and SE800E 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 cigarette smoke and other airborne pollutants to make the customers' experience more enjoyable is a worthwhile investment.

The Smoke Eliminator SE400E and SE800E work in conjunction with existing heating and air conditioning systems, fit in a 2'x2' or 2'x4' ceiling panel, or surface mounts.

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

Features:

- 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.

Warranty:

- 3 Year Limited Warranty

Smoke Eliminators

Specifications

Specifications	SE400E	SE800E
Dimensions	22.5" L x 22.5" W x 9.5" H	45" L x 22.5" W x 9.5" H
Installation	Flush Mount / Surface Mount / Wall Mount	Flush Mount / Surface Mount / Wall Mount
Weight	42 lbs. / Shipping 62 lbs.	80 lbs. / Shipping 105 lbs.
Electrical	120 VAC, 60 Hz, 1 Phase -130 Watts	120 VAC, 60 Hz, 1 Phase -260 Watts
Motor	1/25 Hp Ball Bearing, Direct Drive, Thermally Protected	(2) 1/25 Hp Ball Bearing, Direct Drive, Thermally Protected
Blower	(1) Propeller Fan	(2) Propeller Fans
Air Volume (CFM)	200, 300, 400	400, 600, 800
Controls	3 Speed, Power "ON" Light, Power "To Cell" Light	3 Speed, Power "ON" Light, Power "To Cell" Light
Sound Rating	38 dB, 55 dB, 62 dB	41 dB, 58 dB, 65 dB
Efficiency	Up to 95% Per ASHRAE 52.1 / Dust Spot	Up to 95% Per ASHRAE 52.1 / Dust Spot
Pre-filter	Aluminum Mesh	(2) Aluminum Mesh
Primary Filter	Forever Filter® (1/ea) Electrical Collector Cell	Forever Filter® (2/ea) Electrical Collector Cell

Standard Specifications for Each Unit

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



SE400E



SE800E



Ask us about current special offers!
800-884-0002

Common promotions throughout the year:

- Truckload pricing
- Free freight
- Bundle packages
- Buy some, get one
- Seasonal promotions
- Gift card programs

TRION®

Indoor Air Quality

Committed to Providing Clean, Comfortable and Safe IAQ Solutions

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Air System Components, Inc. is a market-leading supplier of heating, air conditioning, and ventilation system components for commercial, industrial, and residential applications. Constant investment in new tooling and processes, ongoing employee training and quality programs, and essential involvement in industry research and standards organizations ensures that our products provide the value and quality customers have come to expect.

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