

# TRION<sup>®</sup>

Indoor Air Quality



## **CA3000C & CA6000C** *Cartridge Air Cleaners*

# Clean Air Solutions

Designed for high efficiency, self-cleaning, easy serviceability, and long filter life, TRION's CA3000C and CA6000C Cartridge Air Cleaners can be used in either source-capture or unducted applications.

## Features & Benefits

- Long-Life Filter Cartridges - Provide up to 99% efficiency at 0.5 microns. Cartridges have 8 times more surface collecting area than comparable bag media type air cleaners, resulting in greater dirt-holding capacity and longer filter life.
- In-place, Cartridge Cleaning Utilizing Compressed Air - Minimizes maintenance and reduces downtime.
- Each Filter is Pulsed Independently - Better cleaning of cartridge during cleaning cycle.
- Three Pulse Options:
  - Manual Pulse: Initiate when desired.
  - Timed Pulse with 7-Day-Clock: Initiate at predetermined intervals.
  - "On Demand" Sensed Pulse: Initiate at set static pressure.
- Side Access Doors - Simplifies maintenance and cartridge removal.
- Backward-inclined Airfoil Fan - Energy efficient and quiet operation.

## Applications

TRION Cartridge Air Cleaners are excellent for industrial applications where heavy smoke, powders, and dust create unhealthy and hazardous environments.



## How it Works

The CA3000C and CA6000C Cartridge Air Cleaners pull dirty, polluted air through high-efficiency cellulose pleated cartridge filters where the particulate is collected on the outside of the media. The filtered air then passes through a clean air plenum and is exhausted. To clean the cartridges: clean, dry, compressed air is connected, and the timer (which is actuated either manually or automatically) sequentially opens and closes air valves. The valves direct pulses or bursts of compressed air from the inside to the outside of the cartridge. This pulsing action dislodges the collected contaminants from the filters. The contaminants then fall to the bottom of the unit or into the hopper (optional accessory).

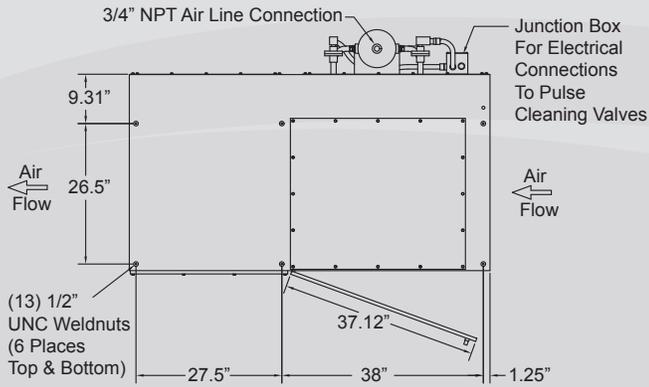


## Model Comparison

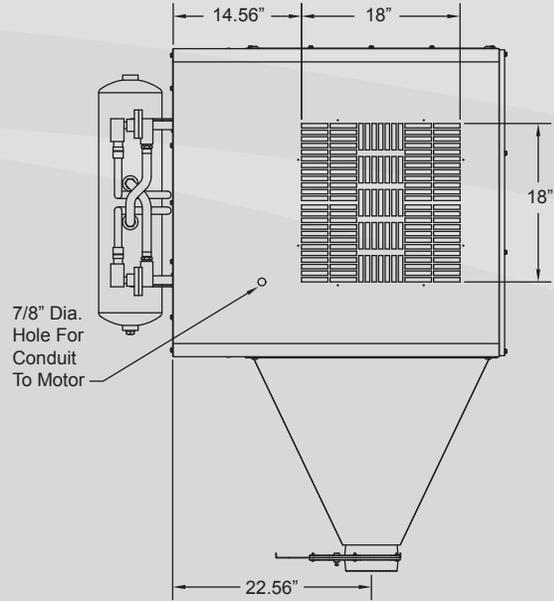
	CA3000C							CA6000C						
<b>Cabinet</b>	11 & 16 Gauge Welded Galvanized Steel							11 & 16 Gauge Welded Galvanized Steel						
<b>Color/Finish</b>	Blue Epoxy, Baked On, Oil Resistant							Blue Epoxy, Baked On, Oil Resistant						
<b>Airflow</b>	Horizontal - Right to Left or Left to Right (Standard) Side Discharge (Optional)							Horizontal - Right to Left or Left to Right (Standard) Side Discharge (Optional)						
<b>Dimensions</b>	68" L x 46" W x 35" H							99" L x 49" W x 53" H						
<b>Installation</b>	Suspended or Frame Mounting							Suspended, Wall, or Frame Mounting						
<b>Unit Weight</b>	750 lbs., Shipping Wt: 890 lbs. (Standard Unit)							1,100 lbs., Shipping Wt: 1,400 lbs. (Standard Unit)						
<b>Motor Description</b>	TEFC, Ball Bearing, 3,450 RPM, Continuous Duty, U.L. Listed							TEFC, Ball Bearing, 1,750 RPM, Continuous Duty, U.L. Listed						
<b>Motor</b>	HP 5	VAC 208/230/460	Hz 60	Phase 3	Amp. Max 13.3/12.0/6.0	Watts Max 4,288		HP 7.5	VAC 208/230/460	Hz 60	Phase 3	Amp. Max 22.8/20.6/10.3	Watts Max 7,098	
<b>Motor Sheave</b>	N/A							Variable Pitch						
<b>Blower</b>	Direct Drive Backward Inclined Airfoil Blower Wheel							Belt Driven Backward Inclined Airfoil Blower Wheel						
<b>Air Volume</b>	See Blower Curve							See Blower Curve						
<b>General</b>	Throw Distance: To 80 ft. Filter Access: Hinged side doors with sealing gaskets and easy open latches, no tools required, side mounted, pre-wired electrical junction box for valve connections.							Throw Distance: To 80 ft. Filter Access: Hinged side doors with sealing gaskets and easy open latches, no tools required, side mounted pre-wired electrical junction box for valve connections.						
<b>Sound Rating</b>	72 dBA							72 dBA						
<b>Pre-Filter</b>	Aluminum Mesh, Impinger or Perforated Plate							Aluminum Mesh or Perforated Plate						
<b>Main Filter</b>	4-Cellulosic Pleated Cartridge Filters Filter Area: 226 sq. ft. (each) Efficiency to 99.9% @ 0.5 micron Other Filter Media Cartridges Available							9-Cellulosic Pleated Cartridge Filters Filter Area: 226 sq. ft. (each) Efficiency to 99.9% @ 0.5 micron Other Filter Media Cartridges Available						
<b>Plenum Options</b>	Source Capture with 14" Round Starting Collar Source Capture with Dual Arm Feature							Source Capture with 20" Round Starting Collar						
<b>Optional Accessories</b>	Filter Change Indicator Gauge Automatic Pulse Control (Photohelic Switch/Gauge) 7-Day Time Clock Pulse Control Hopper Assembly 55-Gallon Drum Lid Cover 4-Way Diffuser For Directional Air Discharge							Filter Change Indicator Gauge Automatic Pulse Control (Photohelic Switch/Gauge) 7-Day Time Clock Pulse Control Hopper Assembly 55-Gallon Drum Lid Cover 4-Way Diffuser For Directional Air Discharge						
<b>Pulse System</b>	Sequential Pulse Timer Control (115v Single Phase) 4 each - 3/4" Valves Compressed Air Required: 90 PSIG. 1.11 SCF/Pulse							Sequential Pulse Timer Control (115v Single Phase) 9 each - 3/4" Valves Compressed Air Required: 90 PSIG. 1.11 SCF/Pulse						

# CA3000C Dimensions

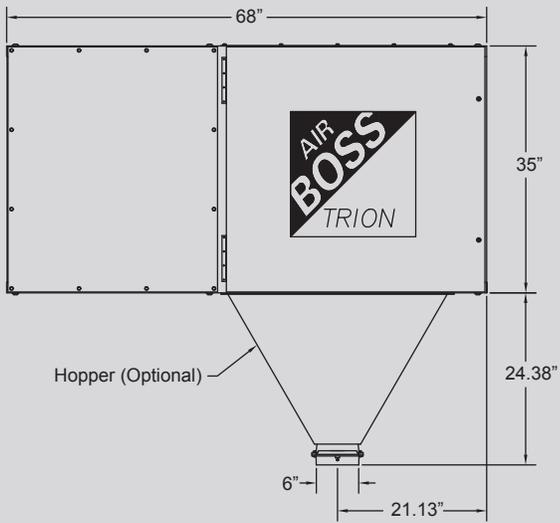
Top View



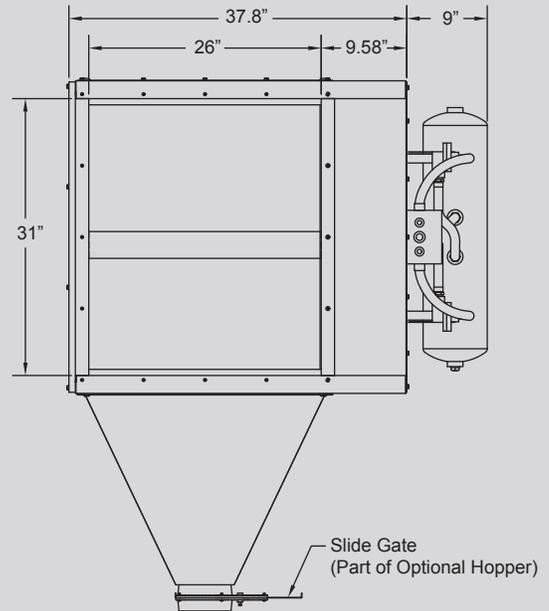
Discharge End View



Side View

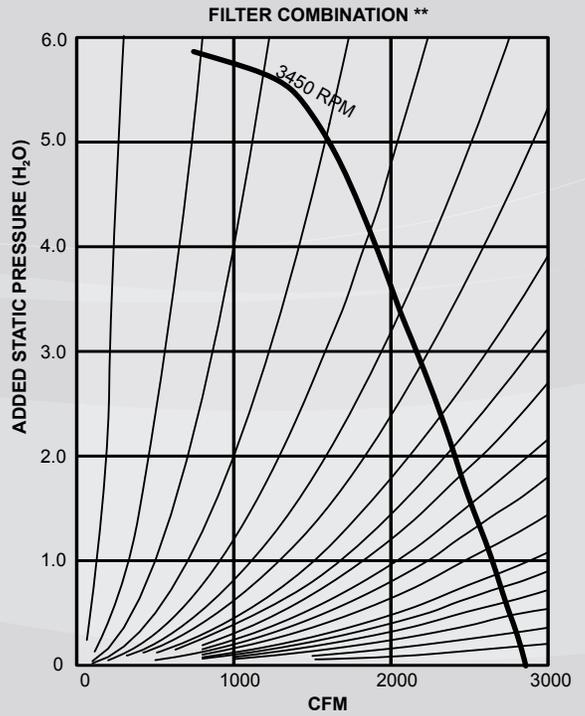
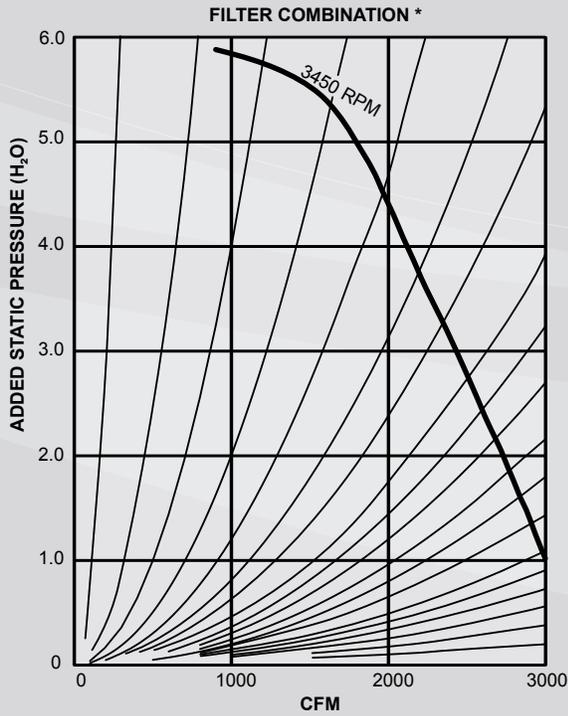


Inlet End View

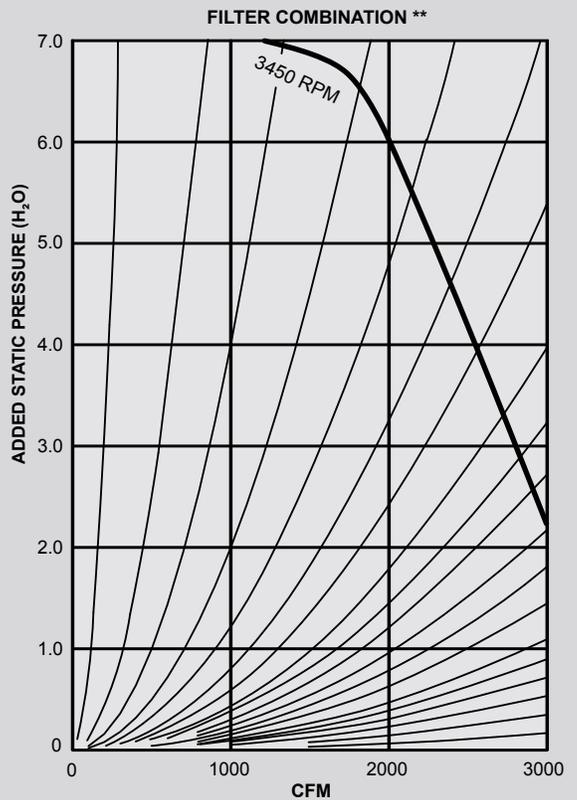
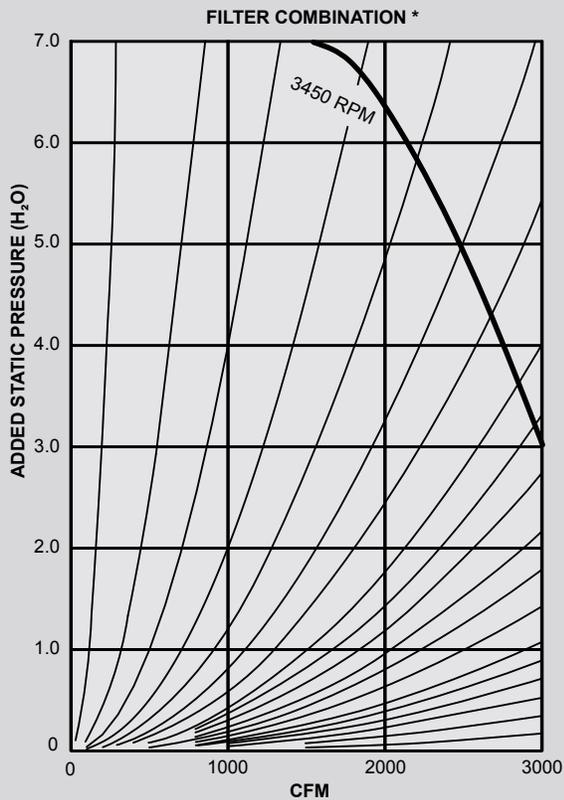


# CA3000C Blower Performance

## Standard Blower Assembly, Direct Drive



## High Static Blower Assembly, Direct Drive



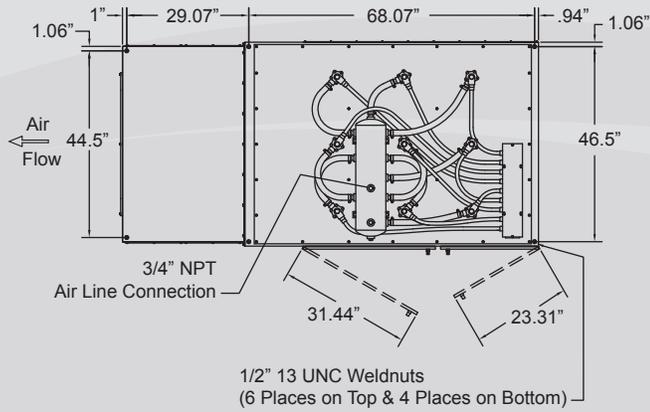
Note:

\* Preconditioned cartridge with either no prefilter, perforated baffle, or 2" aluminum mesh prefilter.

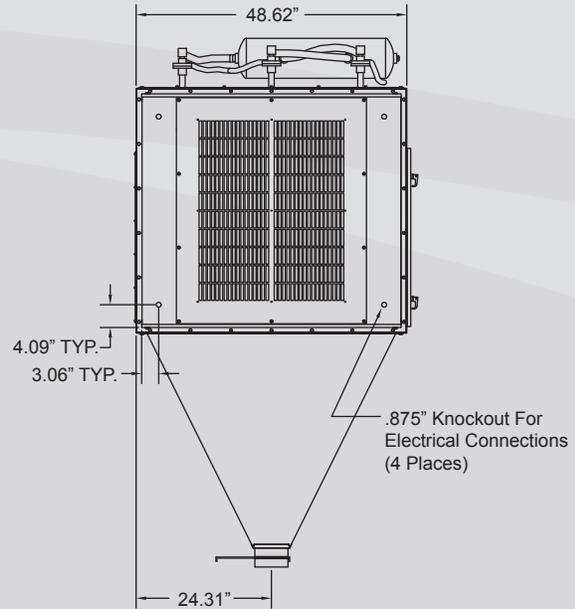
\*\* Preconditioned cartridge with impinger.

# CA6000C Dimensions

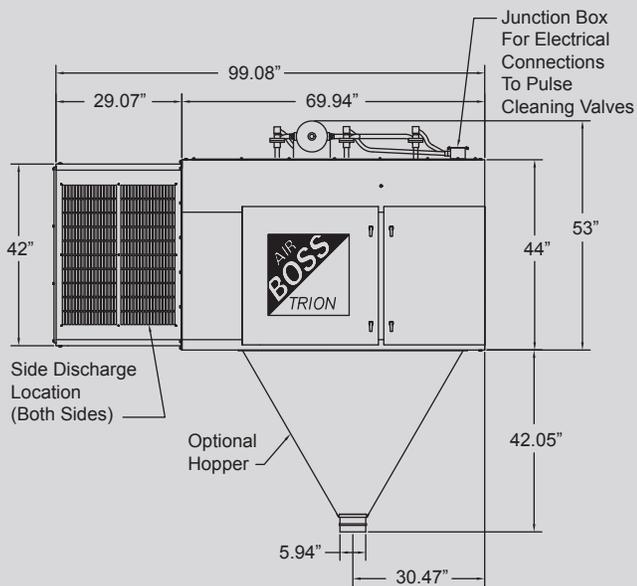
Top View



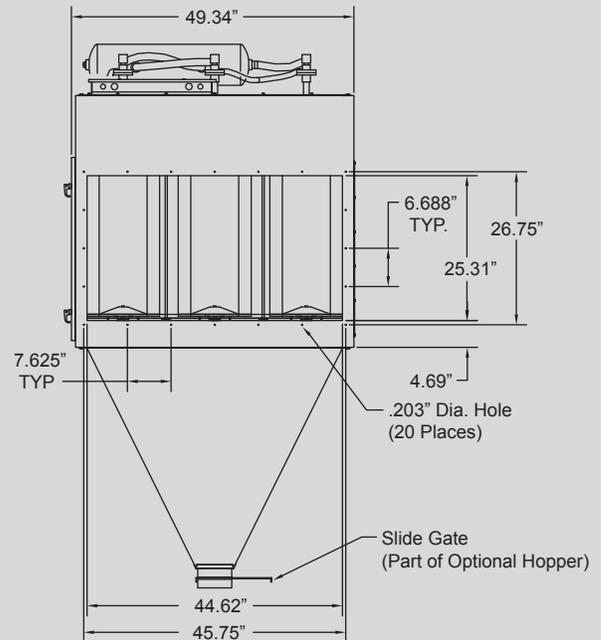
Discharge End View



Side View

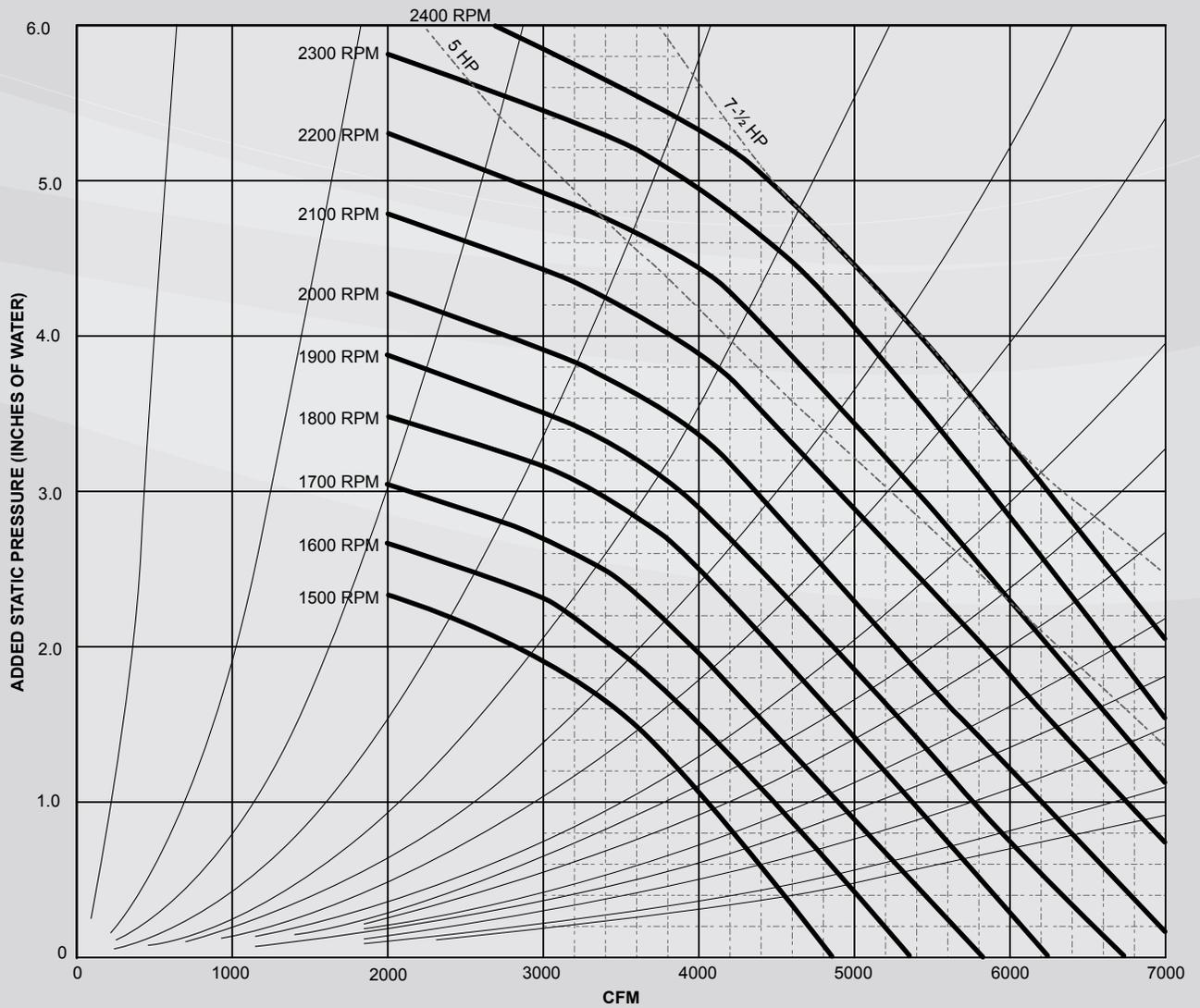


Inlet End View



# CA6000C Blower Performance

CA6000C Blower Curve





Our Cartridge Air Cleaners come with a three-year limited 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.com](http://www.trioniaq.com).



Mini M.E. Mist Collector

# TRION®

Indoor Air Quality

Indoor Air Quality Since 1948.

Industry Membership:



Proudly Designed,  
Engineered, and  
Manufactured in the USA.\*



*\*Manufactured with domestic and foreign components.*

To help serve you better,  
please contact us at:

800-884-0002 (tel)

800-458-2379 (fax)

TRION®

101 McNeill Road  
Sanford, NC 27330

[www.trioniaq.com](http://www.trioniaq.com)

[customerservice@trioniaq.com](mailto:customerservice@trioniaq.com)

TRION® is a registered trademark of Air System Components, Inc. Air System Components, Inc. is a subsidiary of Johnson Controls Inc. All product specifications reflect available information at the printing of this brochure. TRION® reserves the right to revise or modify products and/or specifications without notice. © 2017 TRION®