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:
  - 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

<table>
<thead>
<tr>
<th>CA3000C</th>
<th>CA6000C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cabinet</strong></td>
<td>11 &amp; 16 Gauge Welded Galvanized Steel</td>
</tr>
<tr>
<td><strong>Color/Finish</strong></td>
<td>Blue Epoxy, Baked On, Oil Resistant</td>
</tr>
<tr>
<td><strong>Airflow</strong></td>
<td>Horizontal - Right to Left or Left to Right (Standard) Side Discharge (Optional)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>68” L x 46” W x 35” H</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td>Suspended or Frame Mounting</td>
</tr>
<tr>
<td><strong>Unit Weight</strong></td>
<td>750 lbs., Shipping Wt: 890 lbs. (Standard Unit)</td>
</tr>
<tr>
<td><strong>Motor Description</strong></td>
<td>TEFC, Ball Bearing, 3,450 RPM, Continuous Duty, U.L. Listed</td>
</tr>
<tr>
<td><strong>Motor</strong></td>
<td>HP 5</td>
</tr>
<tr>
<td><strong>Blower</strong></td>
<td>Direct Drive Backward Inclined Airfoil Blower Wheel</td>
</tr>
<tr>
<td><strong>Air Volume</strong></td>
<td>See Blower Curve</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Sound Rating</strong></td>
<td>72 dBA</td>
</tr>
<tr>
<td><strong>Pre-Filter</strong></td>
<td>Aluminum Mesh, Impinger or Perforated Plate</td>
</tr>
<tr>
<td><strong>Main Filter</strong></td>
<td>4-Cellulosic Pleated Cartridge Filters Filter Area: 226 sq. ft. (each) Efficiency to 99.9% @ 0.5 micron Other Filter Media Cartridges Available</td>
</tr>
<tr>
<td><strong>Plenum Options</strong></td>
<td>Source Capture with 14” Round Starting Collar Source Capture with Dual Arm Feature</td>
</tr>
<tr>
<td><strong>Optional Accessories</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>Pulse System</strong></td>
<td>Sequential Pulse Timer Control (115v Single Phase) 4 each - 3/4” Valves Compressed Air Required: 90 PSIG. 1.11 SCF/Pulse</td>
</tr>
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<table>
<thead>
<tr>
<th>CA6000C</th>
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</tr>
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<tbody>
<tr>
<td><strong>Cabinet</strong></td>
<td>11 &amp; 16 Gauge Welded Galvanized Steel</td>
</tr>
<tr>
<td><strong>Color/Finish</strong></td>
<td>Blue Epoxy, Baked On, Oil Resistant</td>
</tr>
<tr>
<td><strong>Airflow</strong></td>
<td>Horizontal - Right to Left or Left to Right (Standard) Side Discharge (Optional)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>99” L x 49” W x 53” H</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td>Suspended, Wall, or Frame Mounting</td>
</tr>
<tr>
<td><strong>Unit Weight</strong></td>
<td>1,100 lbs., Shipping Wt: 1,400 lbs. (Standard Unit)</td>
</tr>
<tr>
<td><strong>Motor Description</strong></td>
<td>TEFC, Ball Bearing, 1,750 RPM, Continuous Duty, U.L. Listed</td>
</tr>
<tr>
<td><strong>Motor</strong></td>
<td>HP 7.5</td>
</tr>
<tr>
<td><strong>Blower</strong></td>
<td>Belt Driven Backward Inclined Airfoil Blower Wheel</td>
</tr>
<tr>
<td><strong>Air Volume</strong></td>
<td>See Blower Curve</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Sound Rating</strong></td>
<td>72 dBA</td>
</tr>
<tr>
<td><strong>Pre-Filter</strong></td>
<td>Aluminum Mesh or Perforated Plate</td>
</tr>
<tr>
<td><strong>Main Filter</strong></td>
<td>9-Cellulosic Pleated Cartridge Filters Filter Area: 226 sq. ft. (each) Efficiency to 99.9% @ 0.5 micron Other Filter Media Cartridges Available</td>
</tr>
<tr>
<td><strong>Plenum Options</strong></td>
<td>Source Capture with 20” Round Starting Collar</td>
</tr>
<tr>
<td><strong>Optional Accessories</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>Pulse System</strong></td>
<td>Sequential Pulse Timer Control (115v Single Phase) 9 each - 3/4” Valves Compressed Air Required: 90 PSIG. 1.11 SCF/Pulse</td>
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CA3000C Dimensions

Top View

- 3/4" NPT Air Line Connection
- (13) 1/2" UNC Weldnuts (6 Places Top & Bottom)
- Junction Box For Electrical Connections To Pulse Cleaning Valves

Discharge End View

- 7/8" Dia. Hole For Conduit To Motor
- 4
- 1/2" Air Flow
- 22.56"
- 9.58"
- 26" 9.58"
- 31"
- 9"
- Slide Gate (Part of Optional Hopper)

Side View

- 68"
- 35"
- 24.38"
- 6" 21.13"
- Hopper (Optional)

Inlet End View

- 37.8" 9"
- 26" 9.58"
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

- Air Flow
- 3/4" NPT Air Line Connection
- 1/2" 13 UNC Weldnuts (6 Places on Top & 4 Places on Bottom)

Discharge End View

- 875" Knockout For Electrical Connections (4 Places)
- 4.09" TYP, 3.06" TYP

Side View

- Side Discharge Location (Both Sides)
- Optional Hopper

Inlet End View

- Junction Box For Electrical Connections To Pulse Cleaning Valves
- 7.625" TYP
- 4.69" Dia. Hole (20 Places)
- Slide Gate (Part of Optional Hopper)

www.troniaq.com
CA6000C Blower Performance

CA6000C Blower Curve

ADDED STATIC PRESSURE (INCHES OF WATER)

CFM

7-½ HP
5 HP
Our Cartridge Air Cleaners come with a three-year limited warranty.

Learn more about other TRION industrial products by contacting your local TRION representative or by visiting us on the web at www.troniaq.com.

T-Series Electronic Air Cleaner

Mini M.E. Mist Collector

TRION
Indoor Air Quality

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

Indoor Air Quality Since 1947
ISO 9001:2015 Certified
Industry Membership:

ASHRAE

To help serve you better, please contact us at:
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*Manufactured with domestic and foreign components.