Enclosure Air Conditioners

Applications

Designed to maintain the temperature inside an electrical enclosure at or below a safe level for the enclosed equipment, while maintaining a closed loop environment inside the enclosure to keep out contaminants that can be in the ambient air. Can be used in environments such as steel, food processing, petro-chemical, cement, paper/pulp and plastics industries, provided there are no corrosive gases or liquids that could damage internal components.

Features

- Programmable temperature controller with visible alarm features in a 0.57 x 0.29 in [14.5 x 7.3 mm] panel
- 70˚F to 95˚F (20˚C to 35˚C) temperature control range
- 50˚F to 125˚F (10˚C to 52˚C) ambient temperature range
- Pre-wired for external alarm monitoring connections (22 AWG three-conductor cable, 7 ft (2.3 m) long)
- Active condensate evaporation system with safety overflow
- Protective coated condenser coils on NEMA Type 4 and 4X for corrosion resistance.
- Thermal expansion valve for maximum efficiency over wide range of temperatures and loads
- Anti short-cycle compressor protection
- High and low refrigerant cut-outs with fault indication
- Highly energy-efficient compressors
- UL/cUL listed

Construction

- Free-standing rigid chassis for easy installation and maintenance
- All mounting hardware, full-size template and instruction manual included
- Power input terminal block on all models
- All Type 4 and 4X models come with condenser coils coated with an electrically applied corrosion-resistant coating

Stratus Air Conditioners General Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal Cooling Capacity (BTU/H)</th>
<th>Operating Voltage</th>
<th>Inrush Current (A)</th>
<th>Running Current (A)</th>
<th>Recommended Fuse Size/Time Delay (A)</th>
<th>SCCR (A)</th>
<th>Connection</th>
<th>Refrigerant</th>
<th>Refrigerant Amount (oz)</th>
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</thead>
<tbody>
<tr>
<td>TA10-010-16-xx</td>
<td>1000</td>
<td>115VAC/60Hz</td>
<td>14.50</td>
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<tr>
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<td>2.67</td>
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<tr>
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<td>-</td>
<td>3.5</td>
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<td>5.15</td>
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<tr>
<td>TA10-050-26-xx</td>
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<td>5</td>
<td>160kA</td>
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</tbody>
</table>

Notes: *SCCR rating is based on the SCCR rating for the circuit protection device installed in the panel/enclosure per UL484 & UL4848a to protect the AC unit. Typically, 100kA - 200kA for Time-Delay Fuses. Atmosphere: No corrosive gases or liquids.
TA10 Series Enclosure Air Conditioners, Frame Size TA10-1

NEMA 12 Construction
• Fabricated from 16-gauge 304 cold rolled steel
• ANSI-61 gray polyester powder coating inside and out
• Pre-cut mounting gasket included, to be field installed
• All mounting hardware, full-size template and instruction manual included
• Power input terminal block on all models

Features
• Fits 12in deep enclosures that have smooth/flat sides. Check enclosure dimensions/specifications before ordering
• Protective coated condenser coils on NEMA Type 4 and 4X for corrosion resistance.

NEMA 4 Construction
• Fabricated from 16-gauge 304 cold rolled steel
• ANSI-61 gray polyester powder coating inside and out
• Pre-cut mounting gasket installed for NEMA/UL type rating on all units
• All mounting hardware, full-size template and instruction manual included
• Power input terminal block on all models

NEMA 4X Construction
• Fabricated from 16-gauge 304 stainless steel
• Pre-cut mounting gasket installed for NEMA/UL type rating on all units
• All mounting hardware, full-size template and instruction manual included
• Power input terminal block on all models

Listings
• UL File: SA33404
• UL 50, Type 12, 4, and 4X
• Made in USA

### TA10 Enclosure Air Conditioners, Frame Size TA10-1

<table>
<thead>
<tr>
<th>NEMA 12</th>
<th>Price</th>
<th>NEMA 4</th>
<th>Price</th>
<th>NEMA 4X</th>
<th>Price</th>
<th>Nominal Cooling Capacity (BTU/H)</th>
<th>Operating Voltage</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA10-010-16-12</td>
<td>$2,105.00</td>
<td>TA10-010-16-04</td>
<td>$2,124.00</td>
<td>TA10-010-16-4X</td>
<td>$2,574.00</td>
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<td>115VAC/60Hz</td>
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<td>TA10-010-26-12</td>
<td>$2,136.00</td>
<td>TA10-010-26-04</td>
<td>$2,155.00</td>
<td>TA10-010-26-4X</td>
<td>$2,598.00</td>
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<td>TA10-015-16-12</td>
<td>$2,113.00</td>
<td>TA10-015-16-04</td>
<td>$2,143.00</td>
<td>TA10-015-16-4X</td>
<td>$2,649.00</td>
<td>1500</td>
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<td>51</td>
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<tr>
<td>TA10-015-26-12</td>
<td>$2,144.00</td>
<td>TA10-015-26-04</td>
<td>$2,174.00</td>
<td>TA10-015-26-4X</td>
<td>$2,684.00</td>
<td>1500</td>
<td>230VAC/60Hz</td>
<td>53</td>
</tr>
</tbody>
</table>

Note: * Voltage variation no greater than ± 10% from nameplate rating and Frequency variation no greater than ± 3Hz from nameplate rating.
TA10 Series Enclosure Air Conditioners, Frame Size TA10-1

Air Conditioner Performance Curves

Air Conditioner Dimensions

Dimensions in inches [millimeters]

Please see our website www.AutomationDirect.com for complete engineering drawings.
Air Conditioners Filters

Replacement filters are identical to the original filters supplied with the air conditioners. Clean/replace the filter regularly to keep the air conditioner working at its highest efficiency.

Features
- 250 micron expanded aluminum filter element
- 60% filter efficiency
- Washable and reusable

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
<th>Frame Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA10-FILTER-1</td>
<td>$22.50</td>
<td>Replacement filter for TA10 series air conditioning units, 1000 to 1500 BTU/H</td>
<td>TA10-1</td>
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<tr>
<td>TA10-FILTER-2</td>
<td>$24.50</td>
<td>Replacement filter for TA10 series air conditioning units, 2000 to 4000 BTU/H</td>
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<tr>
<td>TA10-FILTER-3</td>
<td>$28.00</td>
<td>Replacement filter for TA10 series air conditioning units, 5000 to 6000 BTU/H</td>
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<td>$26.00</td>
<td>Replacement filter for TA20 series air conditioning units, 2000 BTU/H</td>
<td>TA20-1</td>
</tr>
</tbody>
</table>

TA10-FILTER-1

Dimensions

Dimensions in inches [millimeters]

Please see our website www.AutomationDirect.com for complete engineering drawings.
Industrial strength cooling options for your enclosure from AutomationDirect

- Both intake (FPI) and exhaust (FPO) fans are available.
- Exhaust fans and grilles available with air flaps or filters. Using air flaps on the exhaust reduces the number of filters to maintain.

**Filter Fan Kits**
- Easy filter change
- Outer door lock for outdoor models
- Impact resistant
- Weather/UV resistant -f1
- Flammability Rating: UL94V-0
- Adhesive mounting for non-screw installation (except outdoor models)
- Low noise
- 120VAC and 24VDC models available

**Filter Fan Plus**
- Easy filter change
- Hinged cover
- Impact resistant
- Weather/UV resistant-UL-f1
- Flammability Rating: UL94V-0
- Unique ratchet mechanism for no-screw installation
- Low noise
- 120, 230VAC and 12, 24, 48VDC models available

**Hose-Proof Filter Fan Hoods**
- Stainless steel hood with food-grade silicone seal
- Fits all Stego Filter Fan and Filter Fan Plus fans and exhaust grilles (except outdoor Filter Fans)
- Maintains an enclosure's NEMA/UL Type 4 or 4X rating in washdown environments

**Fan Kits**
- All models are 115V with an expected service life of 30,000 hours
  - High-performance fan motors and finger guards
  - Polycarbonate fire retardant plastic grilles, UL94-V0
  - Durable, reusable filter mat included
  - Patented “Click and Fit” system allows for rapid filter fan and exhaust filter installation without screws
Industrial strength cooling options for your enclosure from AutomationDirect

Heat Exchangers
• For NEMA 4 and 4X enclosures
• Closed loop cooling
• Energy efficient: uses approximately the same power as a filtered fan system
• 120VAC and 24VDC models available

Air Conditioning Units
• For NEMA 12, 4, 4X type enclosures
• Digital temperature controller
• Active condensate evaporation system
• High unit efficiency
• Tough industrial construction
• Compressor protection system

Enclosure Vortex Coolers
• For NEMA 12, 4, 4X type enclosures
• Operates on compressed air
• Stainless steel construction
• No moving parts, no maintenance required
• Vortex coolers can be “resized” for changing applications by simply replacing the generator inside the cooler. No need to purchase a new unit
• Replacing the vortex generator takes minutes