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, 7R (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>
</tr>
</thead>
<tbody>
<tr>
<td>TA10-010-16-xx</td>
<td>1000</td>
<td>115VAC/60Hz</td>
<td>14.50</td>
<td>3.44</td>
<td>12</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-010-26-xx</td>
<td>1500</td>
<td>230VAC/60Hz</td>
<td>14.00</td>
<td>2.67</td>
<td>7</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA20-010-48D-xx</td>
<td>230VAC/60Hz</td>
<td>48VDC</td>
<td>-</td>
<td>3.5</td>
<td>8</td>
<td>(last acting)</td>
<td>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA20-010-16-xx</td>
<td>1000</td>
<td>115VAC/60Hz</td>
<td>10.10</td>
<td>2.70</td>
<td>5</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-015-16-xx</td>
<td>1500</td>
<td>115VAC/60Hz</td>
<td>14.60</td>
<td>3.44</td>
<td>12</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-015-26-xx</td>
<td>2000</td>
<td>230VAC/60Hz</td>
<td>13.30</td>
<td>2.67</td>
<td>7</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA20-020-16-xx</td>
<td>1000</td>
<td>115VAC/60Hz</td>
<td>10.63</td>
<td>4.1</td>
<td>5</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA20-020-26-xx</td>
<td>1500</td>
<td>230VAC/60Hz</td>
<td>8.84</td>
<td>2.00</td>
<td>4</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-020-16-xx</td>
<td>2000</td>
<td>115VAC/60Hz</td>
<td>23.42</td>
<td>5.15</td>
<td>12</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-020-26-xx</td>
<td>2500</td>
<td>230VAC/60Hz</td>
<td>13.85</td>
<td>3.07</td>
<td>7</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-020-46-xx</td>
<td>4000</td>
<td>560VAC/60Hz</td>
<td>5.86</td>
<td>1.30</td>
<td>3</td>
<td>160kA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-040-16-xx</td>
<td>1000</td>
<td>115VAC/60Hz</td>
<td>16.42</td>
<td>3.76</td>
<td>8</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-040-26-xx</td>
<td>1500</td>
<td>230VAC/60Hz</td>
<td>13.41</td>
<td>3.07</td>
<td>6</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-040-46-xx</td>
<td>2000</td>
<td>460VAC/60Hz</td>
<td>4.11</td>
<td>0.94</td>
<td>2</td>
<td>160kA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-050-16-xx</td>
<td>1000</td>
<td>115VAC/60Hz</td>
<td>23.42</td>
<td>7.26</td>
<td>12</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-050-26-xx</td>
<td>1500</td>
<td>230VAC/60Hz</td>
<td>19.15</td>
<td>3.76</td>
<td>10</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-050-46-xx</td>
<td>2000</td>
<td>460VAC/60Hz</td>
<td>9.18</td>
<td>1.86</td>
<td>5</td>
<td>160kA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-060-16-xx</td>
<td>1000</td>
<td>115VAC/60Hz</td>
<td>42.41</td>
<td>7.83</td>
<td>25</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-060-26-xx</td>
<td>1500</td>
<td>230VAC/60Hz</td>
<td>21.15</td>
<td>4.80</td>
<td>12</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA10-060-46-xx</td>
<td>2000</td>
<td>460VAC/60Hz</td>
<td>10.13</td>
<td>1.80</td>
<td>5</td>
<td>160kA</td>
<td></td>
<td></td>
<td></td>
</tr>
</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

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

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.

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>NEMA 4</th>
<th>NEMA 4X</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>
</tr>
<tr>
<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>
</tr>
<tr>
<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>
</tr>
<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>
</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>
</tr>
<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>
<td>TA10-2</td>
</tr>
<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>
<td>TA10-3</td>
</tr>
<tr>
<td>TA20-FILTER-1</td>
<td>$26.00</td>
<td>Replacement filter for TA20 series air conditioning units, 2000 BTU/H</td>
<td>TA20-1</td>
</tr>
</tbody>
</table>

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 -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
- UL
- Made in the USA

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

Seifert Thermoelectric Cooling Units
- For NEMA 4, 4X and 12 enclosures
- Stainless steel housing
- 170, 340, 510, 680 BTU/H cooling capacity
- Recessed mounting
- No maintenance required
- 24VDC and 120VAC power options