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>
</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>
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<td>R134a</td>
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<td>TA10-010-26-xx</td>
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<td>230VAC/60Hz</td>
<td>14.00</td>
<td>2.67</td>
<td>7</td>
<td></td>
<td>*</td>
<td></td>
<td>6.00</td>
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<tr>
<td>TA20-010-48D-xx</td>
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<td>-</td>
<td>3.5</td>
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<td>8 (last acting)</td>
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<td>7.75</td>
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<td>Spring cage terminal block 24-8 AWG</td>
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<td>14.60</td>
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<td>23.42</td>
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<td>13.05</td>
<td>3.07</td>
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<td>3</td>
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<tr>
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<td>1.80</td>
<td>5</td>
<td>160kA</td>
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</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.
TA20 Series Enclosure Compact Air Conditioners, Frame Size TA20-0

NEMA 12 Construction
- Fabricated from 16-gauge 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 7 or 8in 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.
- Dual condenser coils, does not require filters.

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

NEMA 4 Construction
- Fabricated from 16-gauge 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

<table>
<thead>
<tr>
<th>TA20 Enclosure Compact Air Conditioners, Frame Size TA20-0</th>
<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>
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<tbody>
<tr>
<td>TA20-010-16-12</td>
<td>$2,335.00</td>
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<td>TA20-010-48D-12</td>
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<td>$3,424.00</td>
<td>48VDC</td>
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<td>30</td>
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Note: * Voltage variation no greater than ±10% from nameplate rating and Frequency variation no greater than ±3Hz from nameplate rating.
TA20 Series Compact Air Conditioners, Frame Size TA20-0

Air Conditioner Performance Curves

Air Conditioner 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

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

For the latest prices, please check AutomationDirect.com.

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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

For the latest prices, please check AutomationDirect.com.

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Enclosures Thermal Management

Made in the USA

Compact & 48VDC models now available