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 contaminates 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 \([14.5 \times 7.3 \text{ mm}]\) 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

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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<td>48VDC</td>
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<td>8 (last acting)</td>
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<tr>
<td>TA10-020-16-xx</td>
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<td>5.15</td>
<td>12</td>
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<td>TA10-020-26-xx</td>
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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.
TA10 Series Enclosure Air Conditioners, Frame Size TA10-3

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 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 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

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<table>
<thead>
<tr>
<th>TA10 Enclosure Air Conditioners, Frame Size TA10-3</th>
<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>
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<tbody>
<tr>
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<td>TA10-050-16-04</td>
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<td>TA10-050-26-04</td>
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<td>TA10-050-26-4X</td>
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<td>$3,579.00</td>
<td>TA10-050-46-04</td>
<td>$3,723.00</td>
<td>TA10-050-46-4X</td>
<td>$4,194.00</td>
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<td>$3,263.00</td>
<td>TA10-060-16-04</td>
<td>$3,306.00</td>
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<td>TA10-060-46-12</td>
<td>$3,851.00</td>
<td>TA10-060-46-04</td>
<td>$4,021.00</td>
<td>TA10-060-46-4X</td>
<td>$4,388.00</td>
<td>6000</td>
<td>460VAC/60Hz</td>
<td>142</td>
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</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 TA10-3

Air Conditioner Performance Curves

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

Air Conditioner Dimensions

Dimensions in inches [millimeters]
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

### Part Number | Price  | Description                                               | Frame Size |
---             | ------ | ---------------------------------------------------------- |------------|
TA10-FILTER-1  | $22.50 | Replacement filter for TA10 series air conditioning units, 1000 to 1500 BTU/H | TA10-1      |
TA10-FILTER-2  | $24.50 | Replacement filter for TA10 series air conditioning units, 2000 to 4000 BTU/H | TA10-2      |
TA10-FILTER-3  | $28.00 | Replacement filter for TA10 series air conditioning units, 5000 to 6000 BTU/H | TA10-3      |
TA20-FILTER-1  | $26.00 | Replacement filter for TA20 series air conditioning units, 2000 BTU/H | TA20-1      |

#### Dimensions

**Dimensions in inches [millimeters]**

- **TA10-FILTER-1**
- **TA10-FILTER-2**
- **TA20-FILTER-1**
- **TA10-FILTER-3**

Please see our website www.AutomationDirect.com for complete engineering drawings.
2” Louvered Frame and Filter Kits

2-inch louvered frame and filter kits are ideal in food processing or dirty environments where filter maintenance is crucial. Stratus offers extended surface, 2-inch deep filter and sliding filter frame assemblies. In wash-down applications, stainless steel filters are preferred over aluminum filters.

Features

- 2in louvered frame and filter kit
- 250 micron stainless steel mesh filter
- 97% efficiency extends filter capacity 400%
- Washable and reusable
- Deep filter frames easily retrofitted on existing units with standard filters using the same mounting hole and screws on your unit

### Air Conditioner Filters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Description</th>
<th>Frame Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA10-LVFIL-2-04</td>
<td>$333.00</td>
<td>Stratus louvered filter frame assembly, carbon steel, ANSI 61 gray finish, with filter, washable, 2in filter depth, 250 micron stainless steel mesh, 97% filter efficiency. For use with 2000-4000 BTU/H TA10 series enclosure air conditioners on NEMA 4 or NEMA 12 enclosures.</td>
<td>TA10-2</td>
</tr>
<tr>
<td>TA10-LVFIL-3-04</td>
<td>$362.00</td>
<td>Stratus louvered filter frame assembly, carbon steel, ANSI 61 gray finish, with filter, washable, 2in filter depth, 250 micron stainless steel mesh, 97% filter efficiency. For use with 5000-6000 BTU/H TA10 series enclosure air conditioners on NEMA 4 or NEMA 12 enclosures.</td>
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</tr>
<tr>
<td>TA10-LVFIL-2-4X</td>
<td>$345.00</td>
<td>Stratus louvered filter frame assembly, 304 stainless steel, with filter, washable, 2in filter depth, 250 micron stainless steel mesh, 97% filter efficiency. For use with 2000-4000 BTU/H TA10 series enclosure air conditioners on NEMA 4X enclosures.</td>
<td>TA10-2</td>
</tr>
<tr>
<td>TA10-LVFIL-3-4X</td>
<td>$382.00</td>
<td>Stratus louvered filter frame assembly, 304 stainless steel, with filter, washable, 2in filter depth, 250 micron stainless steel mesh, 97% filter efficiency. For use with 5000-6000 BTU/H TA10 series enclosure air conditioners on NEMA 4X enclosures.</td>
<td>TA10-3</td>
</tr>
<tr>
<td>TA20-LVFIL-1-04</td>
<td>$256.00</td>
<td>Stratus louvered filter frame assembly, carbon steel, ANSI 61 gray finish, with filter, washable, 2in filter depth, 250 micron stainless steel mesh, 97% filter efficiency. For use with 2000 BTU/H TA20 series enclosure air conditioners on NEMA 4 or NEMA 12 enclosures.</td>
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<td>TA20-LVFIL-1-4X</td>
<td>$264.00</td>
<td>Stratus louvered filter frame assembly, 304 stainless steel, with filter, washable, 2in filter depth, 250 micron stainless steel mesh, 97% filter efficiency. For use with 2000 BTU/H TA20 series enclosure air conditioners on NEMA 4X enclosures.</td>
<td>TA20-1</td>
</tr>
</tbody>
</table>

### Dimensions

Dimensions in inches [millimeters]

**TA10-LVFIL-2-XX**

- 7.30 x 2.00 (185.4 x 50.8)
- 0.75 (19.1)

**TA10-LVFIL-3-XX**

- 11.30 x 2.00 (287.0 x 50.8)
- 16.50 (419.0)
- 0.75 (19.1)

**TA20-LVFIL-1-XX**

- 9.00 x 2.00 (228.6 x 50.8)
- 11.00 (279.4)

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

For the latest prices, please check AutomationDirect.com.
1-800-633-0405

Enclosures Thermal Management

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: UL94-V0
- 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
- 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