

# 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



# 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.

## 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

## Features

- Programmable temperature controller with visible alarm features in a 0.57 x 0.29in [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 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



TA10-060-26-12 shown

### Stratus Air Conditioners General Specifications

| Part Number     | Nominal Cooling Capacity | Operating Voltage | Inrush Current (A) | Running Current (A) | Recommended Fuse Size/Time Delay (A) | SCCR (A) | Connection                        | Refrigerant | Refrigerant Amount (oz) |
|-----------------|--------------------------|-------------------|--------------------|---------------------|--------------------------------------|----------|-----------------------------------|-------------|-------------------------|
| TA10-010-16-xx  | 1480 BTU/H               | 115VAC/60Hz       | 14.50              | 3.44                | 12                                   | *        | Spring terminal block<br>24-8 AWG | R134a       | 4.00                    |
| TA10-010-26-xx  |                          | 230VAC/60Hz       | 14.00              | 2.67                | 7                                    | *        |                                   |             |                         |
| TA20-010-48D-xx | 1500 BTU/H               | 48VDC             | -                  | 3.50                | 8 (fast acting)                      | *        |                                   |             | 6.00                    |
| TA20-010-16-xx  | 1690 BTU/H               | 115VAC/60Hz       | 10.10              | 2.70                | 5                                    | *        |                                   |             |                         |
| TA10-015-16-xx  | 1725 BTU/H               | 115VAC/60Hz       | 14.60              | 3.44                | 12                                   | *        |                                   |             | 7.75                    |
| TA10-015-26-xx  |                          | 230VAC/60Hz       | 13.30              | 2.67                | 7                                    | *        |                                   |             |                         |
| TA10-027-16-xx  | 2680 BTU/H               | 115VAC/60Hz       | 10.00              | 3.20                | 8                                    | *        |                                   |             | 13.25                   |
| TA10-027-46-xx  |                          | 460VAC/60Hz       | 2.64               | 0.80                | 2                                    | *        |                                   |             |                         |
| TA20-020-16-xx  | 2705 BTU/H               | 115VAC/60Hz       | 10.63              | 4.10                | 5                                    | *        |                                   |             | 9.75                    |
| TA20-020-26-xx  |                          | 230VAC/60Hz       | 8.84               | 2.00                | 4                                    | *        |                                   |             |                         |
| TA10-033-16-xx  | 3300 BTU/H               | 115VAC/60Hz       | 16.00              | 4.80                | 12                                   | *        | Spring terminal block<br>16-6 AWG | R422d       | 14.25                   |
| TA10-033-46-xx  |                          | 460VAC/60Hz       | 16.00              | 1.30                | 3                                    | *        |                                   |             |                         |
| TA10-020-26-xx  | 3585 BTU/H               | 230VAC/60Hz       | 13.65              | 3.07                | 7                                    | *        |                                   |             | 9.75                    |
| TA10-040-26-xx  | 4000 BTU/H               | 230VAC/60Hz       | 13.41              | 3.07                | 6                                    | *        | Spring terminal block<br>16-6 AWG | R422d       | 13.25                   |
| TA10-050-16-xx  | 4390 BTU/H               | 115VAC/60Hz       | 23.42              | 7.26                | 12                                   | *        |                                   |             |                         |
| TA10-050-26-xx  |                          | 230VAC/60Hz       | 19.15              | 3.76                | 10                                   | *        |                                   |             | 12.50                   |
| TA10-050-46-xx  |                          | 460VAC/60Hz       | 9.18               | 1.86                | 5                                    | 160kA    |                                   |             |                         |
| TA10-045-16-xx  | 4535 BTU/H               | 115VAC/60Hz       | 32.30              | 6.82                | 12                                   | *        | Spring terminal block<br>24-8 AWG | R134a       | 14.00                   |
| TA10-045-46-xx  |                          | 460VAC/60Hz       | 7.74               | 1.70                | 3                                    | *        |                                   |             |                         |
| TA10-059-16-xx  | 5910 BTU/H               | 115VAC/60Hz       | 32.30              | 6.14                | 12                                   | *        | Spring terminal block<br>16-6 AWG | R422d       | 15.00                   |
| TA10-060-16-xx  | 7580 BTU/H               | 115VAC/60Hz       | 42.41              | 7.83                | 25                                   | *        |                                   |             |                         |
| TA10-060-26-xx  |                          | 230VAC/60Hz       | 21.15              | 4.80                | 12                                   | *        |                                   |             | 18.00                   |
| TA10-060-46-xx  |                          | 460VAC/60Hz       | 10.13              | 1.80                | 5                                    | 160kA    |                                   |             |                         |

Note: \* Voltage variation no greater than  $\pm 10\%$  from nameplate rating and Frequency variation no greater than  $\pm 3\text{Hz}$  from nameplate rating.

# 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

## 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

## Features

- Fits 7 or 8in deep enclosures that have smooth/flat sides. Check enclosure dimensions/specifications before ordering
- Protective coated condenser coils on NEMA 4 and 4X for corrosion resistance
- Dual condenser coils; does not require filters

## Listings

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



TA20-10-48D-12

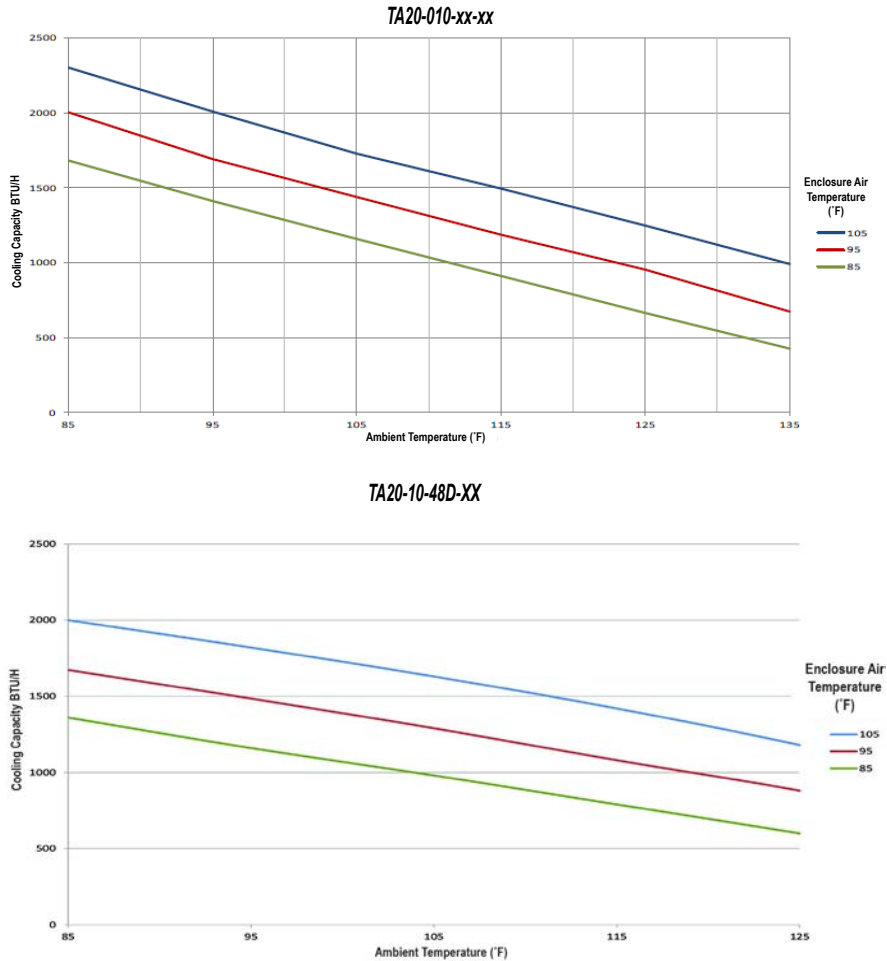
| TA20 Enclosure Compact Air Conditioners, Frame Size TA20-0 |            |                                 |            |                                 |            |                                  |                   |             |
|------------------------------------------------------------|------------|---------------------------------|------------|---------------------------------|------------|----------------------------------|-------------------|-------------|
| NEMA 12                                                    | Price      | NEMA 4                          | Price      | NEMA 4X                         | Price      | Nominal Cooling Capacity (BTU/H) | Operating Voltage | Weight (lb) |
| <a href="#">TA20-010-16-12</a>                             | \$2,287.00 | <a href="#">TA20-010-16-04</a>  | \$2,313.00 | <a href="#">TA20-010-16-4X</a>  | \$2,683.00 | 1000                             | 115VAC/60Hz       | 31          |
| <a href="#">TA20-010-48D-12</a>                            | \$2,936.00 | <a href="#">TA20-010-48D-04</a> | \$2,963.00 | <a href="#">TA20-010-48D-4X</a> | \$3,333.00 |                                  | 48VDC             | 30          |

Note: \* Voltage variation no greater than  $\pm 10\%$  from nameplate rating and Frequency variation no greater than  $\pm 3\text{Hz}$  from nameplate rating.

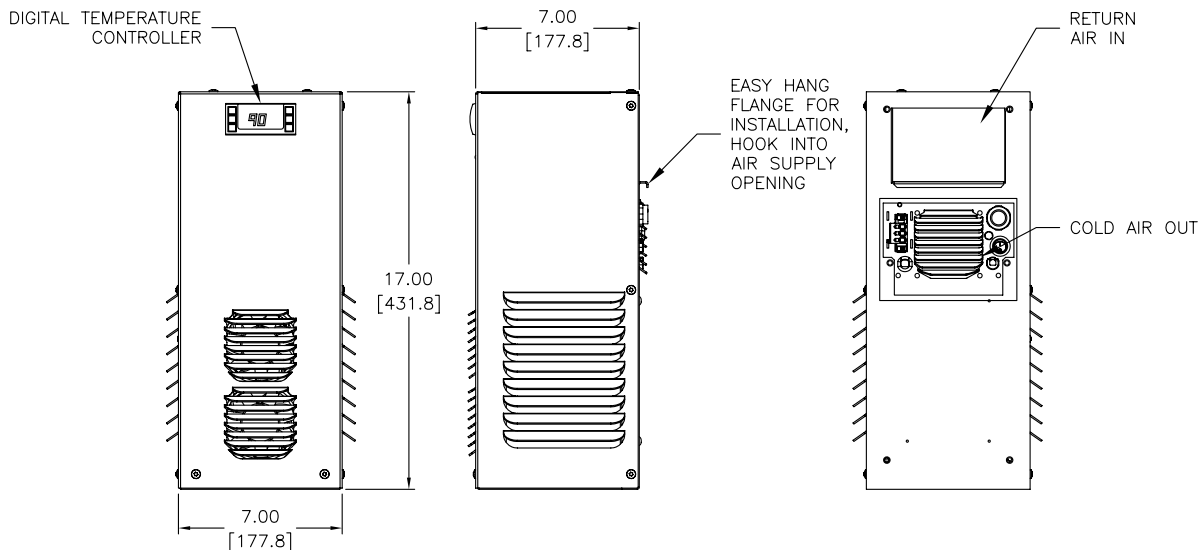
# TA20 Series Enclosure Compact Air Conditioners, Frame Size TA20-0



## Air Conditioner Performance Curves



## Dimensions



# Air Conditioners Filters

## Replacement 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



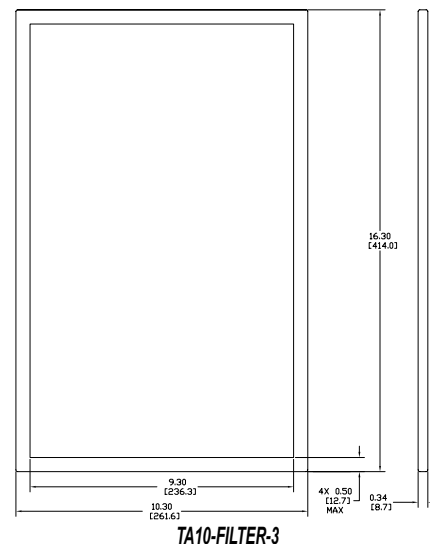
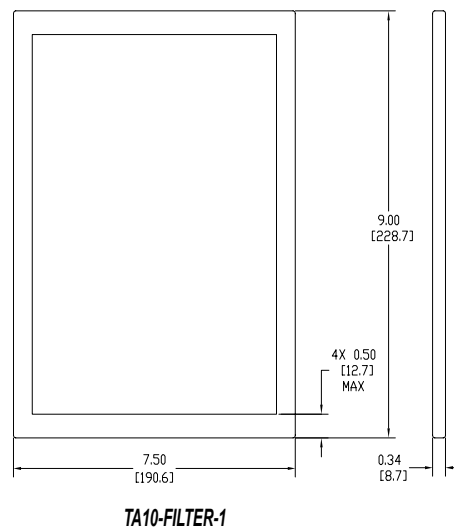
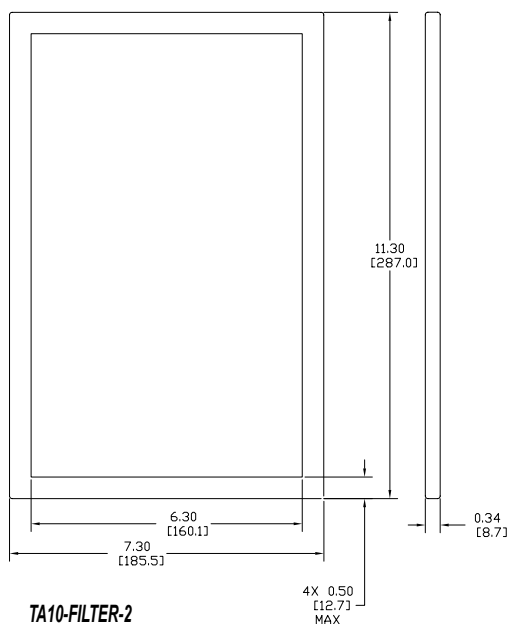
TA10-FILTER-3



TA20-FILTER-1

| Air Conditioner Filters       |         |                                                                               |            |
|-------------------------------|---------|-------------------------------------------------------------------------------|------------|
| Part Number                   | Price   | Description                                                                   | Frame Size |
| <a href="#">TA10-FILTER-1</a> | \$24.50 | Replacement filter for TA10 series air conditioning units, 1000 to 1500 BTU/H | TA10-1     |
| <a href="#">TA10-FILTER-2</a> | \$27.00 | Replacement filter for TA10 series air conditioning units, 2000 to 4000 BTU/H | TA10-2     |
| <a href="#">TA10-FILTER-3</a> | \$30.50 | Replacement filter for TA10 series air conditioning units, 5000 to 6000 BTU/H | TA10-3     |
| <a href="#">TA20-FILTER-1</a> | \$28.00 | Replacement filter for TA20 series air conditioning units, 2000 BTU/H         | TA20-1     |

### Dimensions



# 2.0 in [51mm] Louvered Frame and Filter Kits



TA20-LVFL-1-4X

2.0 in [51mm] louvered frame and filter kits are ideal in food processing or dirty environments where filter maintenance is crucial. Stratus offers extended surface, 2.0 in [51 mm] 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

| Part Number                            | Price    | Description                                                                                                                                                                                                                                                                      | Frame Size |
|----------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <a href="#"><u>TA10-LVFIL-2-04</u></a> | \$424.00 | 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. | TA10-2     |
| <a href="#"><u>TA10-LVFIL-3-04</u></a> | \$450.00 | 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. | TA10-3     |
| <a href="#"><u>TA10-LVFIL-2-4X</u></a> | \$483.00 | 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.                         | TA10-2     |
| <a href="#"><u>TA10-LVFIL-3-4X</u></a> | \$517.00 | 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.                         | TA10-3     |
| <a href="#"><u>TA20-LVFIL-1-04</u></a> | \$330.00 | 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.      | TA20-1     |
| <a href="#"><u>TA20-LVFIL-1-4X</u></a> | \$425.00 | 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.                              | TA20-1     |

## Dimensions

