

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, petrochemical, 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 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) | * | | | R134a | 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 | * | | | | R134a | 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 | * | | R134a | | | 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 | * | | | R134a | | 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 | * | | | | R134a | 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 | * | R422d | 9.75 | | | |
| TA10-040-26-xx | 4000 BTU/H | 230VAC/60Hz | 13.41 | 3.07 | 6 | * | | 13.25 | | | |
| TA10-050-16-xx | 4390 BTU/H | 115VAC/60Hz | 23.42 | 7.26 | 12 | * | Spring terminal block 16-6 AWG | R422d | 12.50 | | |
| TA10-050-26-xx | | 230VAC/60Hz | 19.15 | 3.76 | 10 | * | | | | | |
| 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 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 16-6 AWG | R422d | 15.00 | | |
| TA10-060-16-xx | 7580 BTU/H | 115VAC/60Hz | 42.41 | 7.83 | 25 | * | | | R422d | 18.00 | |
| TA10-060-26-xx | | 230VAC/60Hz | 21.15 | 4.80 | 12 | * | | | | | |
| 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 TA20-1



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 10in deep enclosures that have smooth/flat sides. Check enclosure dimensions/specifications before ordering
- Protective coated condenser coils for NEMA 4 and 4X corrosion resistance

Listings

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



TA20-20-16-12

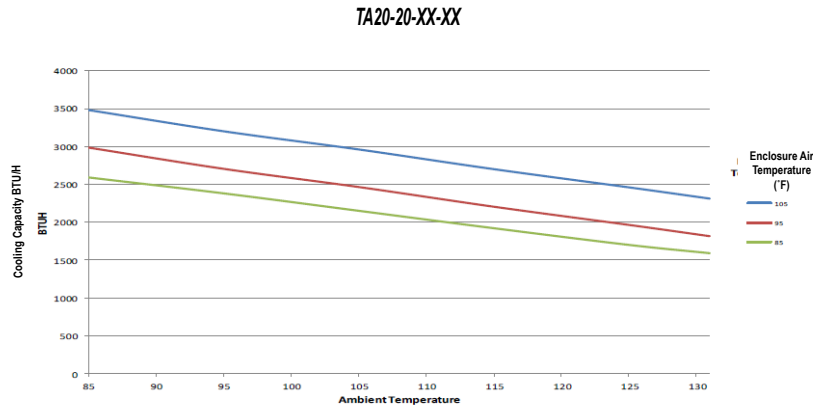
| TA20 Enclosure Compact Air Conditioners, Frame Size TA20-1 | | | | | | | | |
|--|------------|--------------------------------|------------|--------------------------------|------------|----------------------------------|-------------------|-------------|
| NEMA 12 | Price | NEMA 4 | Price | NEMA 4X | Price | Nominal Cooling Capacity (BTU/H) | Operating Voltage | Weight (lb) |
| TA20-020-16-12 | \$2,869.00 | TA20-020-16-04 | \$2,901.00 | TA20-020-16-4X | \$3,334.00 | 2000 | 120VAC/60Hz | 44 |
| TA20-020-26-12 | \$2,914.00 | TA20-020-26-04 | \$2,946.00 | TA20-020-26-4X | \$3,379.00 | | 230VAC/60Hz | 49 |

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

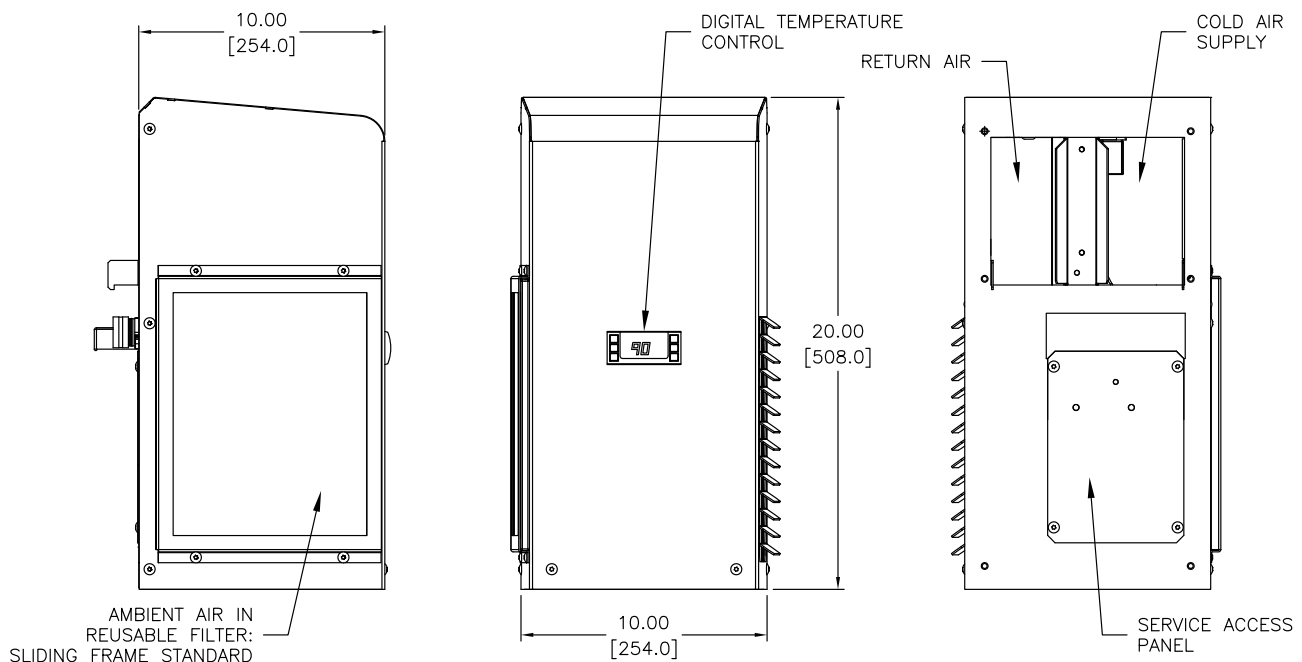
TA20 Series Enclosure Compact Air Conditioners, Frame Size TA20-1



Air Conditioner Performance Curves



Air Conditioner 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



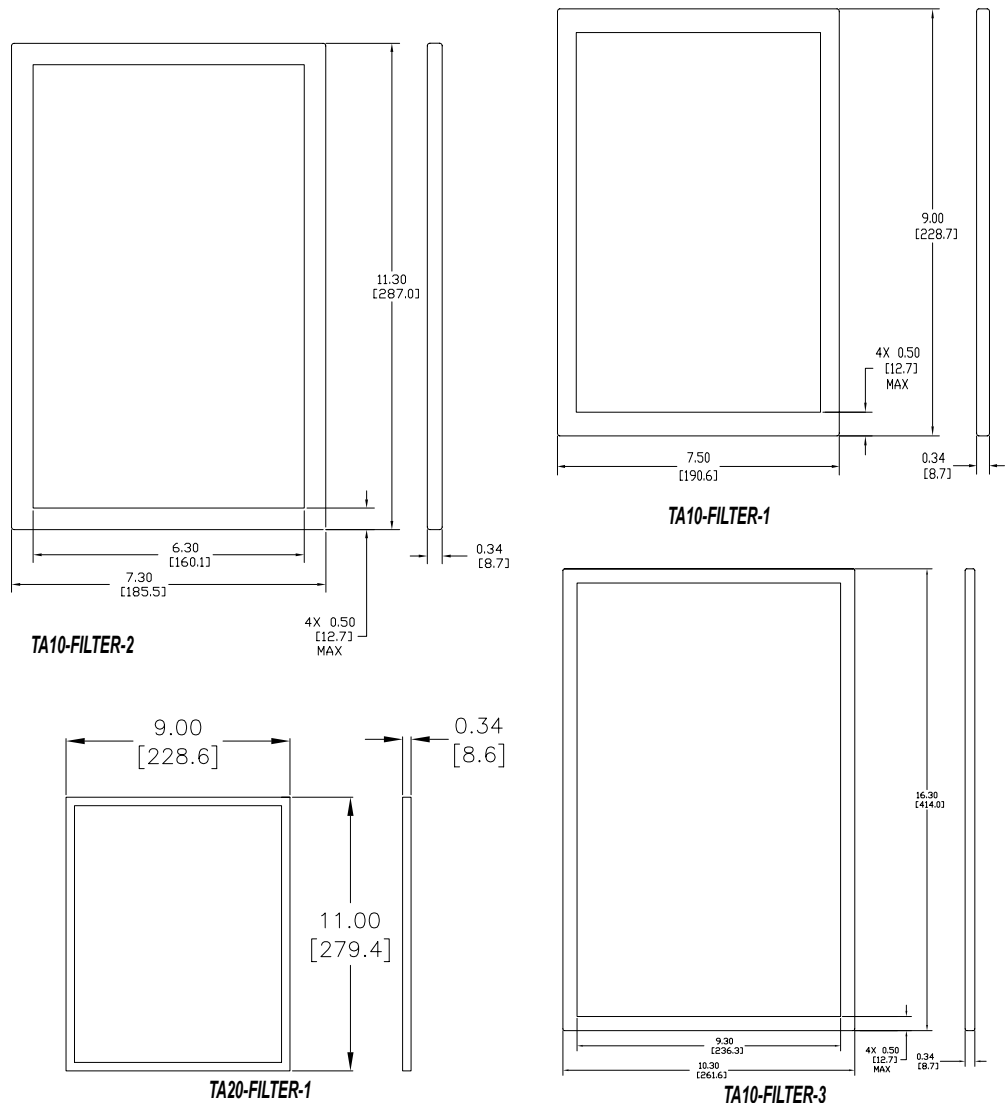
TA10-FILTER-3



TA20-FILTER-1

| Air Conditioner Filters | | | |
|-------------------------|---------|---|------------|
| Part Number | Price | Description | Frame Size |
| TA10-FILTER-1 | \$24.50 | Replacement filter for TA10 series air conditioning units, 1000 to 1500 BTU/H | TA10-1 |
| TA10-FILTER-2 | \$27.00 | Replacement filter for TA10 series air conditioning units, 2000 to 4000 BTU/H | TA10-2 |
| TA10-FILTER-3 | \$30.50 | Replacement filter for TA10 series air conditioning units, 5000 to 6000 BTU/H | TA10-3 |
| TA20-FILTER-1 | \$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 |
| <u>TA10-LVFIL-2-04</u> | \$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 |
| <u>TA10-LVFIL-3-04</u> | \$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 |
| <u>TA10-LVFIL-2-4X</u> | \$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 |
| <u>TA10-LVFIL-3-4X</u> | \$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 |
| <u>TA20-LVFIL-1-04</u> | \$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 |
| <u>TA20-LVFIL-1-4X</u> | \$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

