# 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

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

Made in the USA

## 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

Made in the USA

## 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 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.

## 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 7.3mm] 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) | * | | | 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 | * | | | |
| ***TA20-020-26-xx*** | | 230VAC/60Hz | 8.84 | 2.00 | 4 | * | | | 9.75 |
| ***TA10-033-16-xx*** | 3300 BTU/H | 115VAC/60Hz | 16.00 | 4.80 | 12 | * | | | 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 | | 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 | | 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 ± 10% from nameplate rating and Frequency variation no greater than ± 3Hz 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

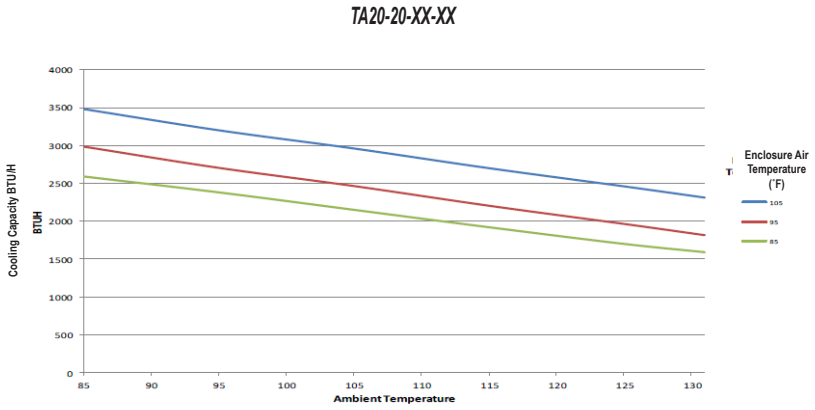
- UL File: SA33404
- UL 50, 12, 4, and 4X
- Made in USA

*TA20-20-16-12*

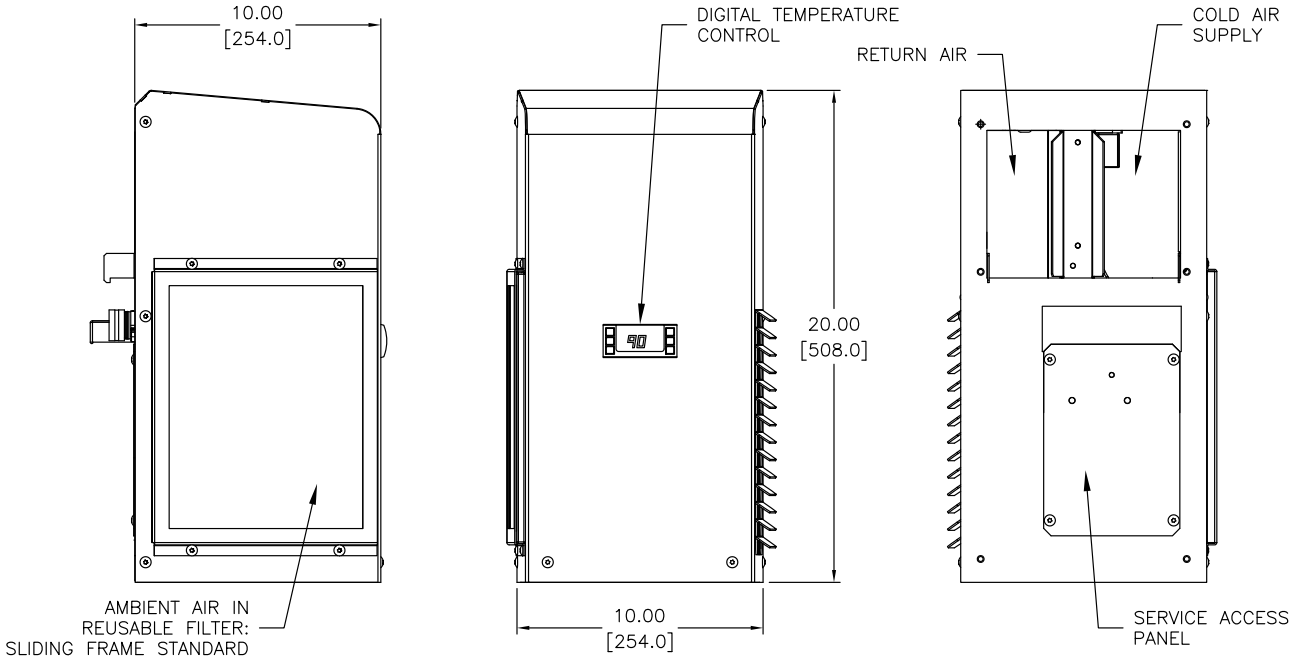
| TA20 Enclosure Compact Air Conditioners, Frame Size TA20-1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ***NEMA 12*** | ***Price*** | ***NEMA 4*** | ***Price*** | ***NEMA 4X*** | ***Price*** | ***Nominal Cooling Capacity (BTU/H*** | ***Operating Voltage*** | ***Weight (lb)*** |
| ***TA20-020-16-12*** | $2,779.00 | ***TA20-020-16-04*** | $2,810.00 | ***TA20-020-16-4X*** | $3,229.00 | 2000 | 120VAC/60Hz | 44 |
| ***TA20-020-26-12*** | Retired | ***TA20-020-26-04*** | Retired | ***TA20-020-26-4X*** | $3,273.00 | | 230VAC/60Hz | 49 |
| **Note: * Voltage variation no greater than ± 10% from nameplate rating and Frequency variation no greater than ± 3Hz from nameplate rating.** | | | | | | | | |

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

## Air Conditioner Performance Curves

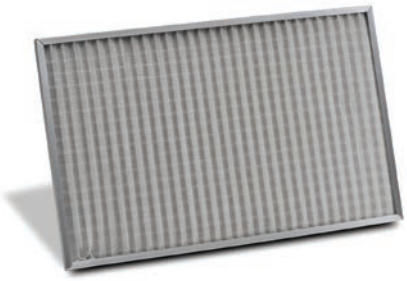



## Air Conditioner Dimensions



# Air Conditioners Filters

## Replacement Filters



TA10-FILTER-3

TA20-FILTER-1

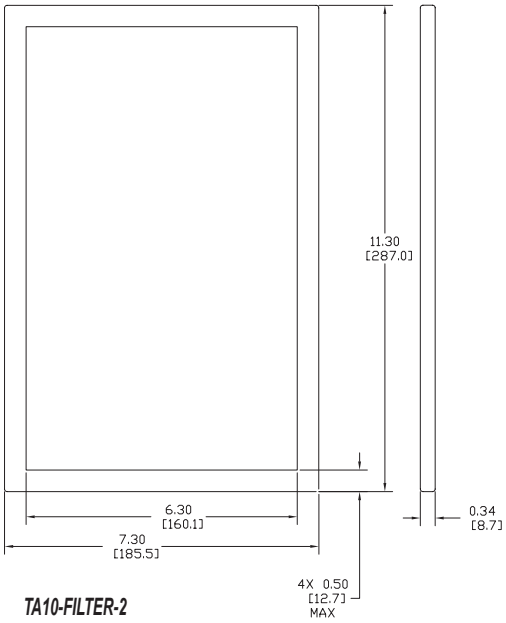
Replacement filters are identical to the original filters supplied with the air conditioners. Clean/replace the filter regularly to keep the air conditioner working at its highest efficiency.

## Features

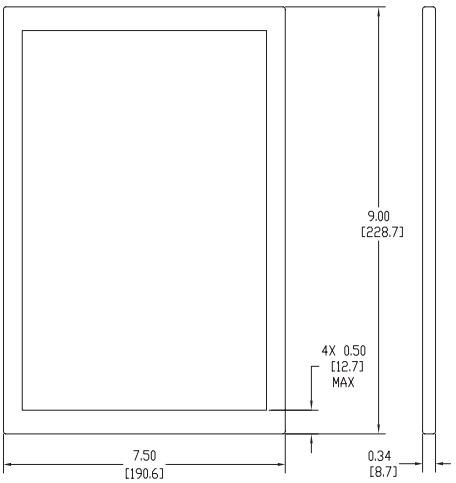
- 250 micron expanded aluminum filter element
- 60% filter efficiency
- Washable and reusable

| Air Conditioner Filters | | | |
|---|---|---|---|
| **Part Number** | **Price** | **Description** | **Frame Size** |
| TA10-FILTER-1 | $22.00 | Replacement filter for TA10 series air conditioning units, 1000 to 1500 BTU/H | TA10-1 |
| TA10-FILTER-2 | $23.50 | Replacement filter for TA10 series air conditioning units, 2000 to 4000 BTU/H | TA10-2 |
| TA10-FILTER-3 | $27.00 | 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 |

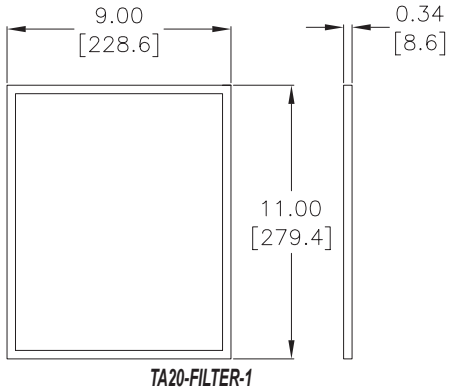
## Dimensions



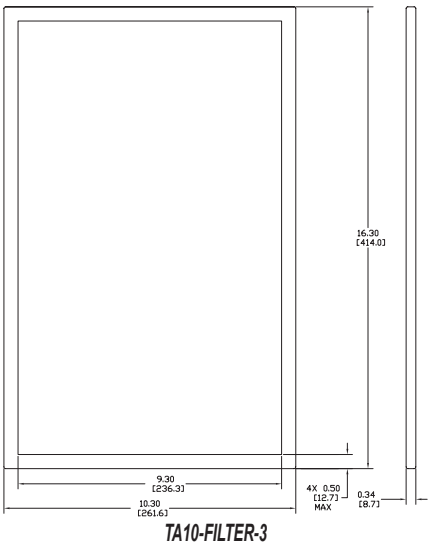

TA10-FILTER-2




TA10-FILTER-1




TA20-FILTER-1




TA10-FILTER-3

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

TA20-LVFL-1-4X

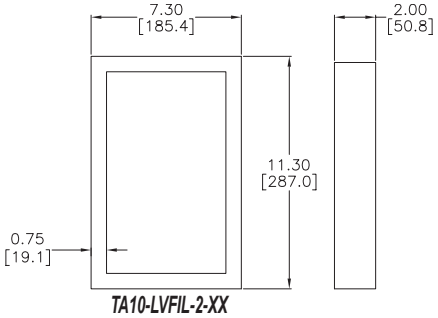
2.0in [51mm] louvered frame and filter kits are ideal in food processing or dirty environments where filter maintenance is crucial. Stratus offers extended surface, 2.0in [51mm] deep filter and sliding filter frame assemblies. In wash-down applications, stainless steel filters are preferred over aluminum filters.

## Features

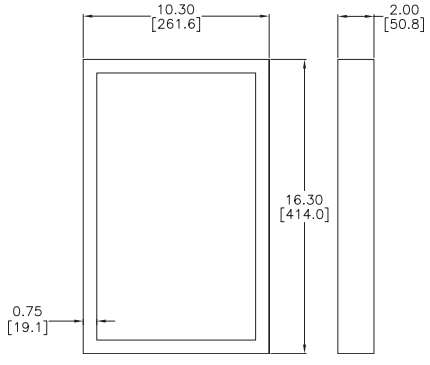
- 2in louvered frame and filter kit
- 250 micron stainless steel mesh filter
- 97% efficiency extends filter capacity 400%
- Washable and reusable
- Deep filter frames easily retrofitted on existing units with standard filters using the same mounting hole and screws on your unit

| Air Conditioner Filters | | | |
|---|---|---|---|
| ***Part Number*** | ***Price*** | ***Description*** | ***Frame Size*** |
| ***TA10-LVFIL-2-04*** | $438.00 | 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 |
| ***TA10-LVFIL-3-04*** | $465.00 | 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 |
| ***TA10-LVFIL-2-4X*** | $498.00 | 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 |
| ***TA10-LVFIL-3-4X*** | $532.00 | 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 |
| ***TA20-LVFIL-1-04*** | $341.00 | 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 |
| ***TA20-LVFIL-1-4X*** | $439.00 | 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 |

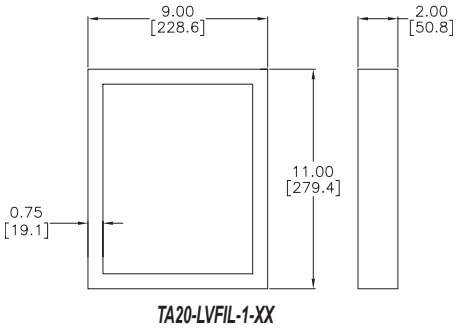
## Dimensions




TA10-LVFIL-2-XX




TA10-LVFIL-3-XX




TA20-LVFIL-1-XX