



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 0.29 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, 7ft (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



TA10-060-26-12 shown

Stratus Air Conditioners General Specifications											
Part Number	Nominal Cooling Capacity (BTU/H)	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	1000	120VAC/60Hz	14.50	3.44	12	*	Spring cage terminal block 24-8 AWG	R134a	4.00		
TA10-010-26-xx		230VAC/60Hz	14.00	2.67	7	*			6.00		
TA20-010-48D-xx		48VDC	-	3.70	8 (fast acting)	*			7.75		
TA20-010-16-xx		120VAC/60Hz	10.10	2.70	5	*			12.00		
TA10-015-16-xx	1500	120VAC/60Hz	14.60	3.44	12	*		Spring cage terminal block 24-8 AWG	R134a	7.75	
TA10-015-26-xx		230VAC/60Hz	13.30	2.67	7	*				12.00	
TA20-020-16-xx	2000	120VAC/60Hz	10.63	3.36	5	*			Spring cage terminal block 24-8 AWG	R134a	10.25
TA20-020-26-xx		230VAC/60Hz	8.84	2.00	4	*					9.75
TA10-020-16-xx		120VAC/60Hz	23.42	5.15	12	*					10.25
TA10-020-26-xx		230VAC/60Hz	13.65	3.07	7	*					9.75
TA10-020-46-xx	4000	480VAC/60Hz	5.86	1.40	3	160kA	Spring cage terminal block 16-6 AWG			R422d	10.25
TA10-040-16-xx		120VAC/60Hz	16.42	3.76	8	*					12.50
TA10-040-26-xx		230VAC/60Hz	13.41	3.07	6	*					18.00
TA10-040-46-xx		480VAC/60Hz	4.11	1.00	2	160kA					18.00
TA10-050-16-xx	5000	120VAC/60Hz	23.42	7.26	12	*		Spring cage terminal block 16-6 AWG		R422d	12.50
TA10-050-26-xx		230VAC/60Hz	19.15	3.76	10	*					18.00
TA10-050-46-xx		480VAC/60Hz	9.18	1.50	5	160kA			18.00		
TA10-060-16-xx	6000	120VAC/60Hz	42.41	7.83	25	*			Spring cage terminal block 16-6 AWG	R422d	18.00
TA10-060-26-xx		230VAC/60Hz	21.15	4.80	12	*					18.00
TA10-060-46-xx		480VAC/60Hz	10.13	1.70	5	160kA					18.00

Notes: *SCCR rating is based on the SCCR rating for the circuit protection device installed in the panel/enclosure per UL484 & UL484a 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 TA10-2

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.

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



TA10-020-16-4X

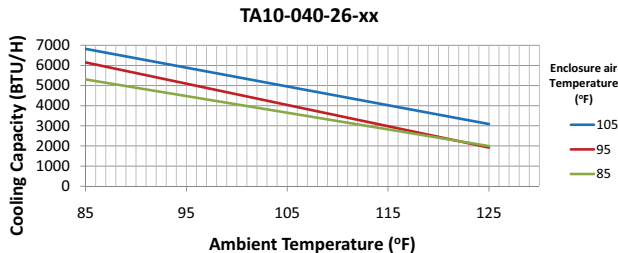
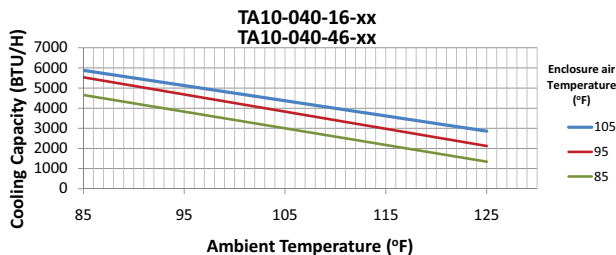
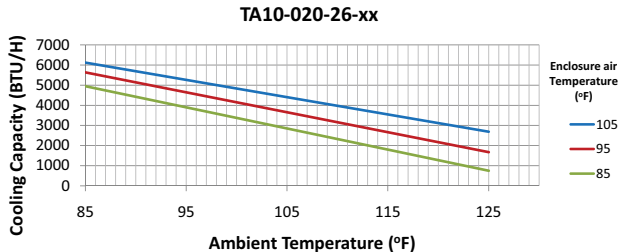
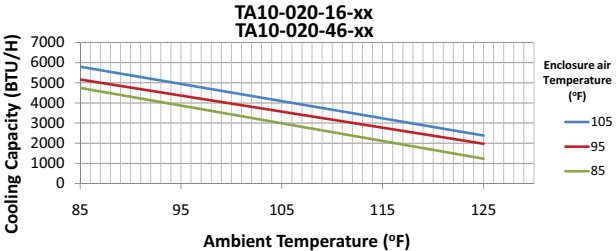
TA10 Enclosure Air Conditioners, Frame Size TA10-2								
NEMA 12	Price	NEMA 4	Price	NEMA 4X	Price	Nominal Cooling Capacity (BTU/H)	Operating Voltage	Weight (lb)
TA10-020-16-12	\$1,798.00	TA10-020-16-04	\$2,078.00	TA10-020-16-4X	\$2,676.00	2000	120VAC/60Hz	69
TA10-020-26-12	\$1,843.00	TA10-020-26-04	\$2,123.00	TA10-020-26-4X	\$2,721.00		230VAC/60Hz	69
TA10-020-46-12	\$2,288.00	TA10-020-46-04	\$2,568.00	TA10-020-46-4X	\$3,166.00		480VAC/60Hz	95
TA10-040-16-12	\$1,896.00	TA10-040-16-04	\$2,176.00	TA10-040-16-4X	\$2,774.00	4000	120VAC/60Hz	70
TA10-040-26-12	\$1,941.00	TA10-040-26-04	\$2,221.00	TA10-040-26-4X	\$2,819.00		230VAC/60Hz	88
TA10-040-46-12	\$2,386.00	TA10-040-46-04	\$2,666.00	TA10-040-46-4X	\$3,264.00		480VAC/60Hz	96

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



TA10 Series Enclosure Air Conditioners, Frame Size TA10-2

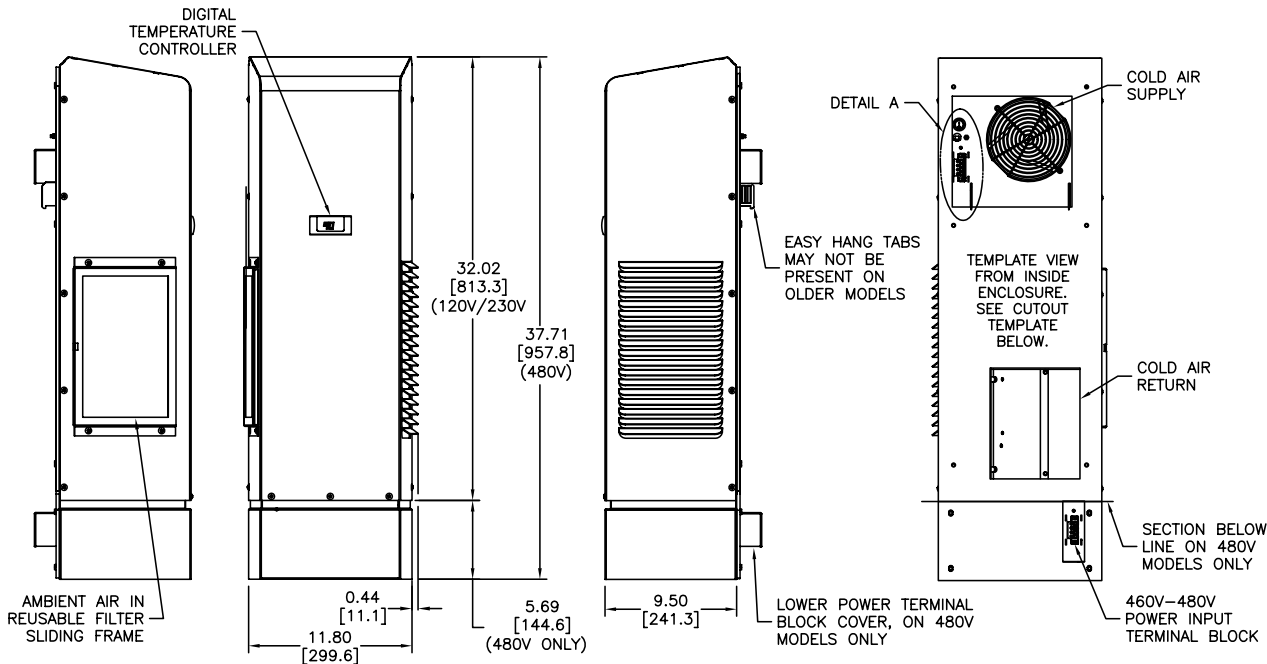
Air Conditioner Performance Curves



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

Air Conditioner Dimensions

Dimensions in inches [millimeters]





Air Conditioners Filters

Replacement Filters

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

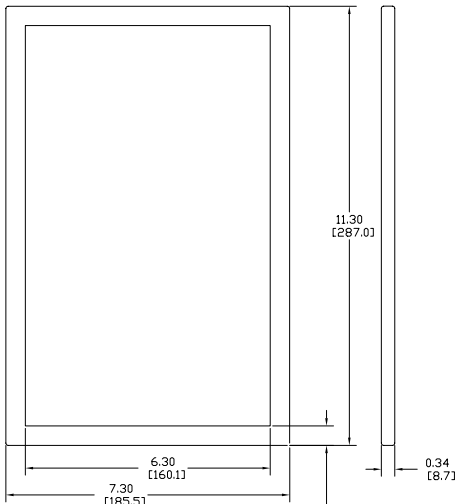


TA20-FILTER-1

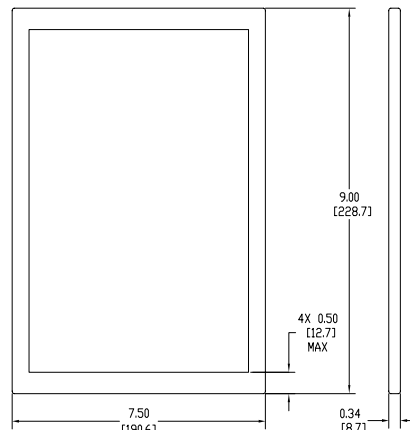
Air Conditioner Filters			
Part Number	Price	Description	Frame Size
TA10-FILTER-1	\$24.00	Replacement filter for TA10 series air conditioning units, 1000 to 1500 BTU/H	TA10-1
TA10-FILTER-2	\$26.00	Replacement filter for TA10 series air conditioning units, 2000 to 4000 BTU/H	TA10-2
TA10-FILTER-3	\$29.00	Replacement filter for TA10 series air conditioning units, 5000 to 6000 BTU/H	TA10-3
TA20-FILTER-1	\$27.00	Replacement filter for TA20 series air conditioning units, 2000 BTU/H	TA20-1

Dimensions

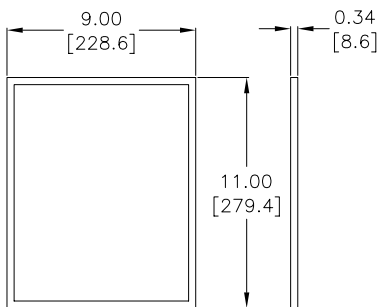
Dimensions in inches [millimeters]



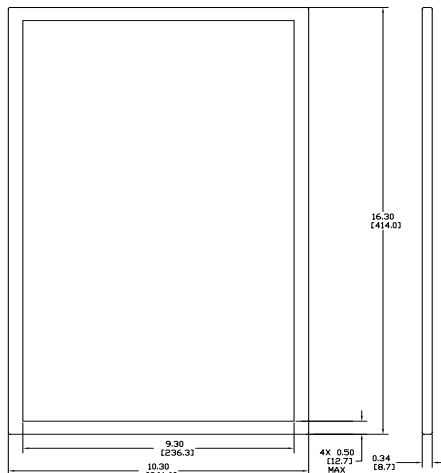
TA10-FILTER-2



TA10-FILTER-1



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

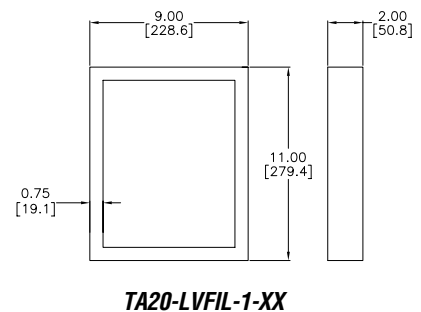
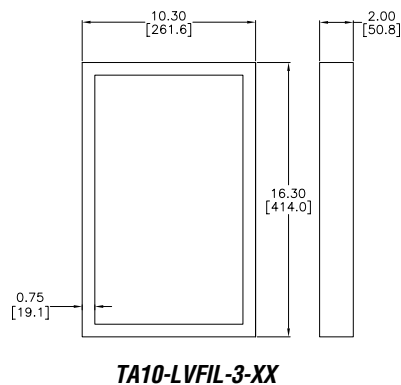
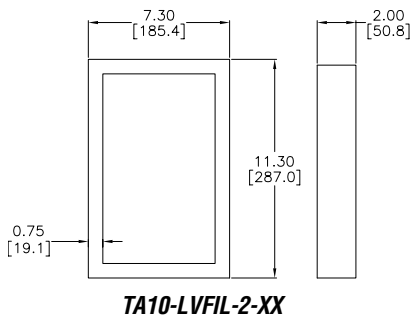


TA20-LVFL-1-4X

Air Conditioner Filters			
Part Number	Price	Description	Frame Size
TA10-LVFIL-2-04	\$315.00	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	\$342.00	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	\$325.00	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	\$360.00	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	\$242.00	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	\$249.00	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

Dimensions in inches [millimeters]



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

Industrial strength cooling options for your enclosure from AutomationDirect



- 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: 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



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



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