



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

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.



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

Features

- Fits 7 or 8in 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.
- Dual condenser coils; does not require filters.

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



TA20-10-48D-12

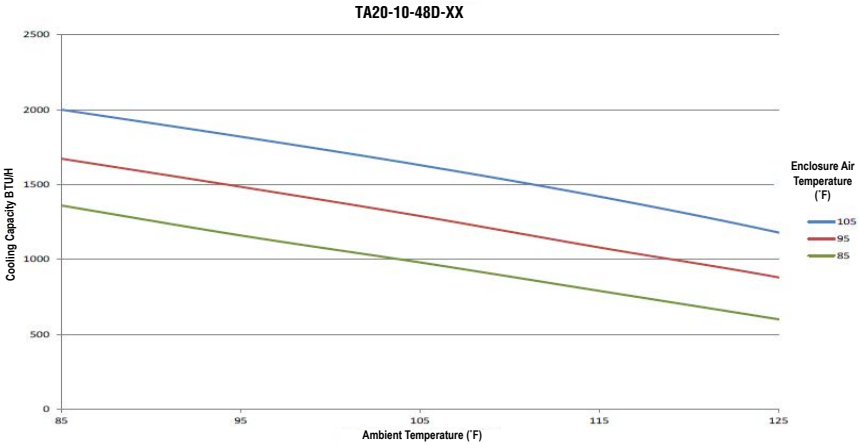
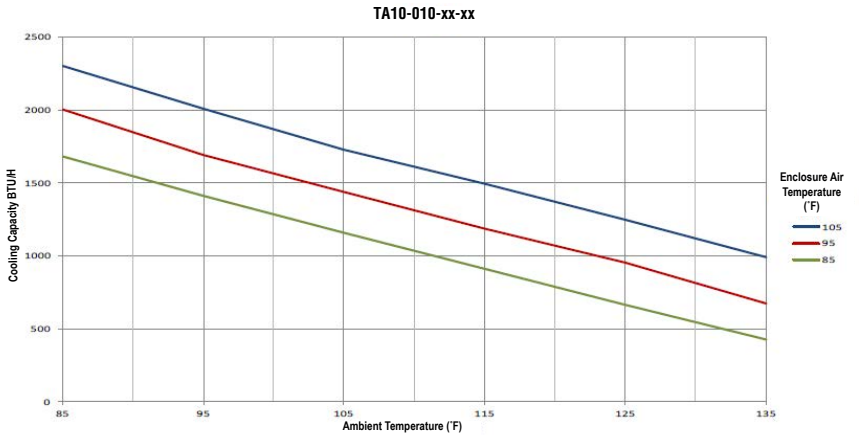
TA20 Enclosure Compact Air Conditioners, Frame Size TA20-0								
NEMA 12	Price	NEMA 4	Price	NEMA 4X	Price	Nominal Cooling Capacity (BTU/H)	Operating Voltage	Weight (lb)
TA20-010-16-12	\$1,993.00	TA20-010-16-04	\$2,088.00	TA20-010-16-4X	\$2,439.00	1000	120VAC/60Hz	30
TA20-010-48D-12	\$2,816.00	TA20-010-48D-04	\$2,911.00	TA20-010-48D-4X	\$3,262.00		48VDC	30

*Note: * Voltage variation no greater than ± 10% from nameplate rating and Frequency variation no greater than ± 3Hz from nameplate rating.*



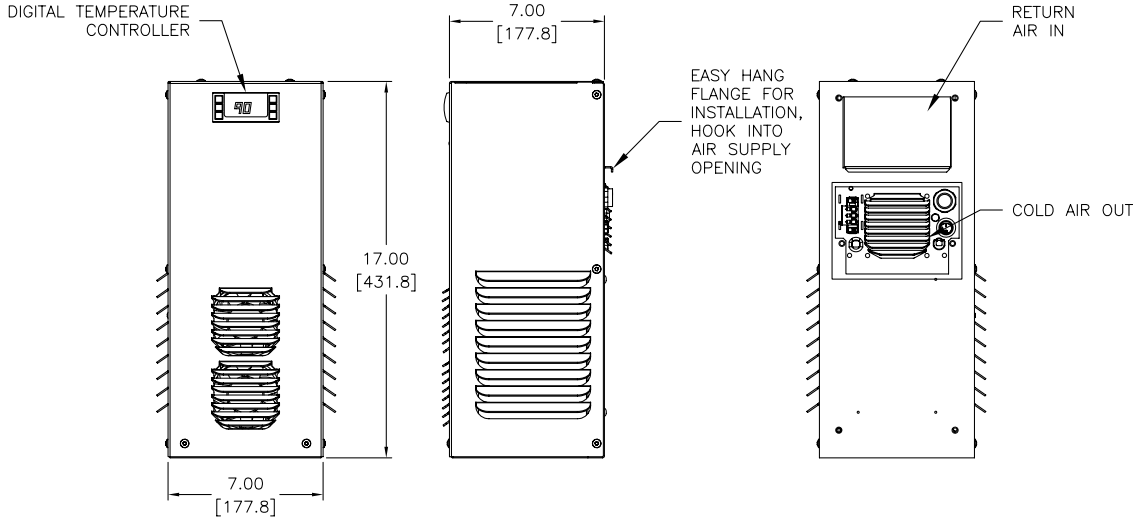
TA20 Series Compact Air Conditioners, Frame Size TA20-0

Air Conditioner Performance Curves



Air Conditioner 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