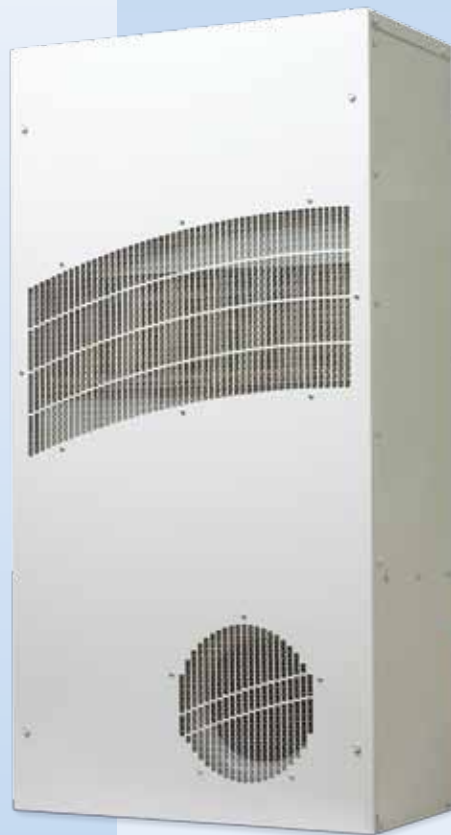


Product Overview

CLIMAGUARD™ Outdoor Heat Exchangers



TX23 Model



TX38 Model



TX52 Model

*Lab- and field-tested
to seal out extreme weather*



CLIMAGUARD™ Outdoor Heat Exchangers

PRODUCT OVERVIEW

Put this Type 4 / Telcordia GR-487-capable heat exchanger to the test. You'll find that every unit keeps your outdoor enclosure sealed tight for reliable closed-loop cooling. Works on AC or DC voltage power input.

APPLICATIONS

- Telecommunications cabinets
- Alternative energy
- Outside plant applications
- Other outdoor electronic systems

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TX52 Outdoor Model	144

Outdoor Heat Exchangers

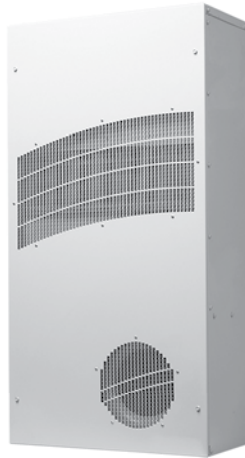
CLIMAGUARD HEX



TX23
 Models
 14 W/°F (25 W/°C)



TX33
 Models
 28 W/°F (50 W/°C)



TX38
 Models
 56 W/°F (100 W/°C)



TX52
 Models
 83 W/°F (150 W/°C)

Industry Standards

UL/cUL Listed or UR/cUR Recognized, CE, others available upon request

- Telcordia GR-487 capable
- Type 12/3R/4 Standard
- Type 4X stainless steel option available

Application

- Telecom shelters
- Outdoor cabinets
- Equipment buildings
- Instrument enclosures
- And more

Features

- Unique counterflow aluminum core for high efficiency and high performance heat transfer
- Models for 24 VDC, 48 VDC, 115 VAC and 230 VAC power supplies
- UL Listed or Recognized to save customers time and money with agency approvals
- Operating temperature range from -40 F/-40 C to 149 F/65 C
- Variable speed blowers standard on DC powered units for quiet running
- Surface or recessed mount capable
- Low-carbon mild-steel sheet-metal cover for rugged factory environments

- Easy-mount flanges for simple installation
- Mounting hardware, gaskets and user manual furnished with the unit
- Every unit functionally tested before shipping
- Filterless design for low maintenance and easy cleaning
- Engineered for temperature extremes, corrosive environments and wind driven rain

Finish

- ANSI 70 gray powder-coat paint in a semi-gloss finish
- Stainless steel Type 304 or 316 finishes available on Type 4X models
- Other colors and textures available

Options

- Thermostat Package
 - Special Voltage Package
 - Outdoor Package
 - Harsh Environment Package*
 - Stainless Steel Package*
 - Heater Package*
- * Consult the factory for availability and catalog number.

Notes

Visit www.McLeanCoolingTech.com to download 2D and 3D CAD drawings into the overall design of your electronic system

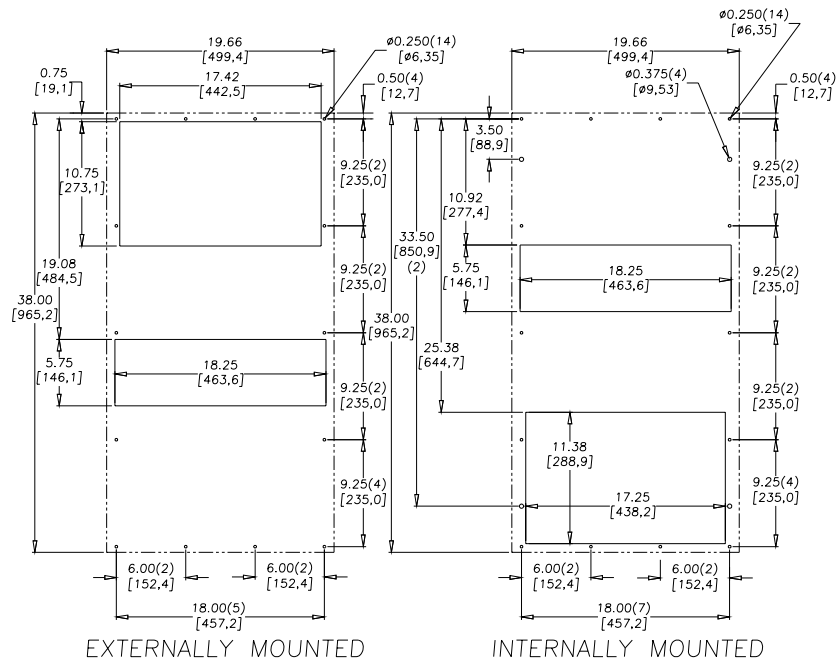
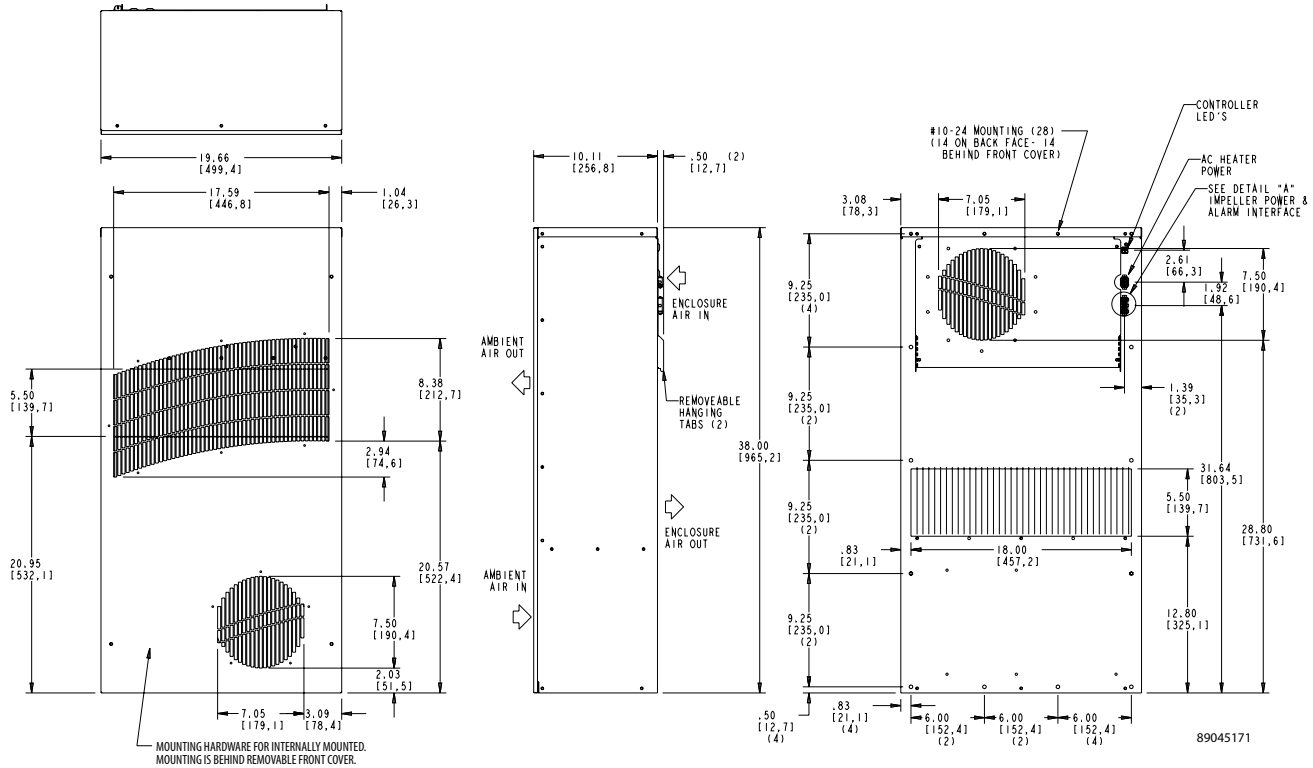
CLIMAGUARD™ Outdoor Heat Exchanger

Performance Data **TX38 Models 56 W/°F (100 W/°C)**

MODEL NUMBER	TX38-5616-100	TX38-5626-100	TX38-5624-100	TX38-5648-100
COOLING PERFORMANCE				
Nominal:				
Watts per °F	56	56	56	56
Watts per °C	100	100	100	100
Refrigerant	N/A	N/A	N/A	N/A
Refrigerant Charge (ounces/grams)	N/A	N/A	N/A	N/A
Operating Temperature Range:				
Maximum (°F/°C)	149/65	149/65	149/65	149/65
Minimum (°F/°C)	-40/-40	-40/-40	-40/-40	-40/-40
Air Flow at 0 Static Pressure:				
Internal loop 50 Hz (CFM/M³/Hr.)	425/722	425/722	N/A	N/A
External loop 50 Hz (CFM/M³/Hr.)	461/738	461/738	N/A	N/A
Internal loop 60 Hz (CFM/M³/Hr.)	477/810	477/810	368/625	368/625
External loop 60 Hz (CFM/M³/Hr.)	517/878	517/878	422/717	422/717
ELECTRICAL DATA				
Rated Voltage	115 VAC	230 VAC	24 VDC	48 VDC
Frequency (Hz)	50/60	50/60	50/60	50/60
Operating Range	+/- 10%	+/- 10%	+/- 10%	+/- 10%
Max. Power Consumption (Watts at 50/60 Hz)	368	276	207	279
Max. Nominal Current (Amps at 50/60 Hz)	2.3/3.2	0.7/1.2	8.6	5.8
Agency Approvals	cUL Listed CE		cUL Listed CE	
Power Input Description	NEMA 5-15 plug on 6-ft. cord	NEMA 6-15 plug on 6-ft. cord	Terminal Block	Terminal Block
ENCLOSURE PROTECTION				
UL Type	Type 12/3R/4 Standard 4X Optional		Type 12/3R/4 Standard 4X Optional	
SOUND LEVEL				
At 1.5 M	64 dBA		64 dBA	
UNIT CONSTRUCTION				
Material	Mild Steel Sheet Metal Standard Stainless Steel Optional		Mild Steel Sheet Metal Standard Stainless Steel Optional	
Finish	Powder Coat ANSI 70 Light Gray Standard		Powder Coat ANSI 70 Light Gray Standard	
UNIT DIMENSIONS				
Height (in./mm)	38/965.2	38/965.2	38/965.2	38/965.2
Width (in./mm)	19.7/500.4	19.7/500.4	19.7/500.4	19.7/500.4
Depth (in./mm)	10.1/256.5	10.1/256.5	10.1/256.5	10.1/256.5
Weight (lb./kg)	66/30	66/30	66/30	66/30

TX38 DC Models 56 W/°F (100 W/°C)

CLIMAGUARD HEX

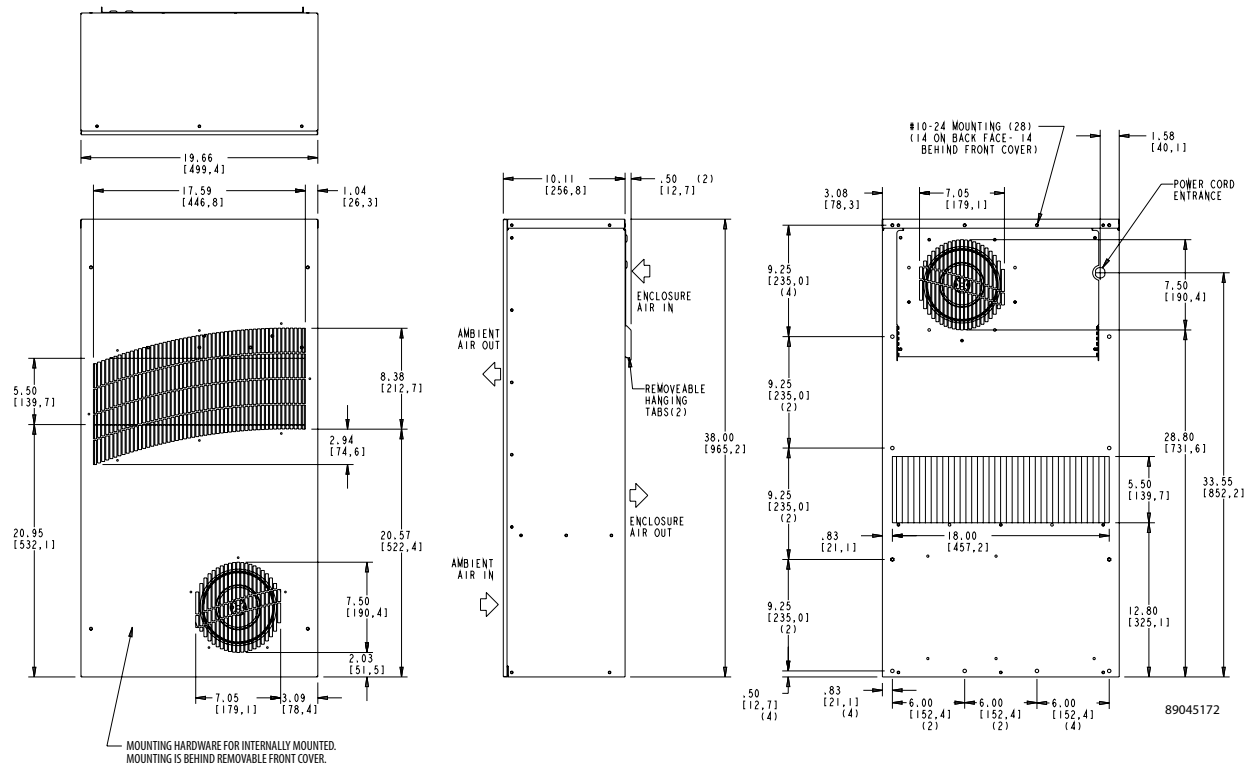


CUTOUT INSTRUCTIONS (AS VIEWED FROM OUTSIDE OF ENCLOSURE)

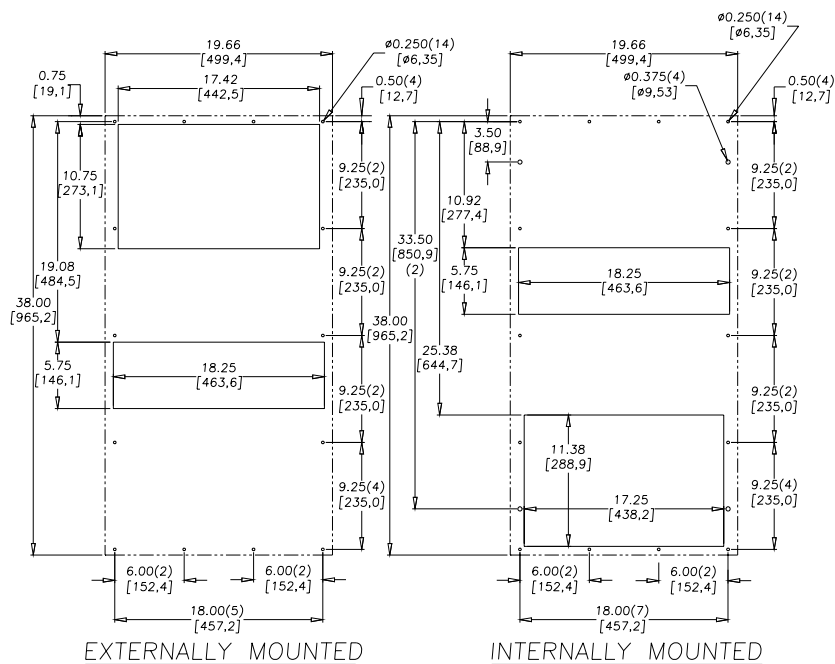
NOTES:
 1. DASHED LINES REPRESENT HEAT EXCHANGER.

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TX38 AC Models 56 W/°F (100 W/°C)



CLIMAGUARD HEX



CUTOUT INSTRUCTIONS
(AS VIEWED FROM OUTSIDE OF ENCLOSURE)

NOTES:
1. DASHED LINES REPRESENT HEAT EXCHANGER.

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