

Series Two™, "TC"

Staged Models (Two Heating Modules) with Thermostatic Control

Specifications

Electric Tankless Water Heater

Applications

- Single or multi-fixture
- Commercial/Industrial
- Adjustable, precise temperature setting $\pm 1^{\circ}\text{F}$ at steady state (ambient up to 180°F)
- Solar backup with FS option

Performance Features

- Turns on in stages based on hot water demand
- On demand hot water
- Continuous hot water. No storage capacity to run out
- Reduces installation cost and material. No T&P relief valve needed (check local codes) or venting
- Easy installation with integral 3/4" NPT fittings
- Cut energy waste. Flow switch activates heater only on demand (no standby heat loss)
- Two glass-fiber reinforced heater bodies and nichrome elements – a unique, patented flow path ensures optimum heat transfer and extended element life
- Warranty, five (5) years limited on leaks, one (1) year parts
- Field serviceable replaceable cartridge element
- Unit mounts on wall
- High temperature limit switch

Optional Features

- Factory set ambient to 180°F (FS)
- Multi laves 0.3 turn on. Staged up to 4 laves 105°F - 110°F temp setting (ML)
- Sanitation 180°F (S)
- N4, N4X (304SS) enclosures

Product Specifications

Dimensions:	10.25" x 10.75" x 4.5"
Weight:	10.5 lb
Cover:	Enameled steel
Color:	White
Element:	Dual replacement cartridge inserts Thermostatic control ($\pm 1^{\circ}\text{F}$) accuracy at steady state
Fittings:	3/4" NPT fittings at bottom of unit
Min. Dynamic Operating Pressure:	40 PSI
Max. Dynamic Operating Pressure:	150 PSI
UL listed file number:	E86887

U.S. Patent #'s: 4,762,980 and 4,960,976

Special Design Service

Inquiries for units for unique applications are welcome.
Call our Technical Service department at **1-800-543-6163**.



NO LEAD

*The wetted surface of this product contacted by water contains less than 0.25% lead and meets NSF/ANSI 372

Assembled



In USA



Suggested Specification

Tankless water heater shall be an Eemax Series Two model number EX_____.

Heater shall have two heating modules. Element shall be replaceable cartridge insert. Unit shall have a replaceable filter in the inlet connector. Heater shall be fitted with 3/4" NPT water connections. Maximum operating pressure of 150 PSI. Hot water storage tanks prohibited. Unit shall be Eemax or approved equal. NOTE: Refer to rating chart for product information.

Enclosure to be fitted with the following features:

_____ FS	Factory set ambient to 180°F
_____ ML	Multi laves 0.3 turn on. Staged up to 4 laves 110°F temp setting
_____ S	Sanitation 180°F
_____ N4	NEMA 4 steel cabinet with powder coat finish
_____ N4X	NEMA 4 stainless steel, corrosion-resistant cabinet

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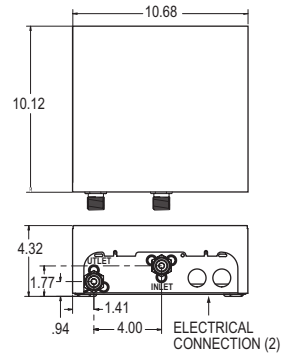
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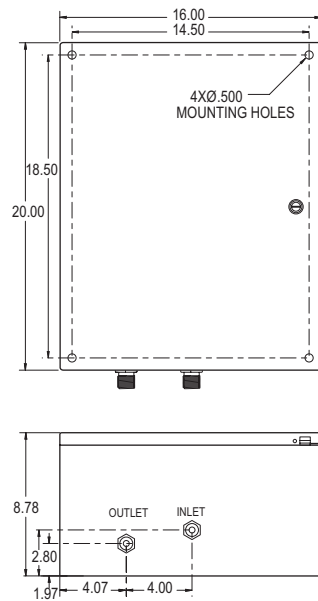
Electric Tankless Water Heater

Suffix Definitions

FS	Factory set ambient to 180°F
ML	Multi laves 0.3 turn on. Staged up to 4 laves 105°F-110°F temp setting Sanitation 180°F
S	



NEMA 4/4X



							TEMPERATURE RISE °F			
MODEL NUMBER		KW	AMPS	RECOMMENDED WIRE SIZE (75° C/CU)	TURN ON (GPM)	MAX FLOW (GPM)	1.5 GPM	2.0 GPM	2.5 GPM	3.0 GPM
VOLTS 240*										
C EX144TC		15.0	64(2x32)	10 AWG	0.7	3.0	68°	51°	41°	34°
C EX144TC (derated 208V performance)		11.2	54(2x27)	10 AWG	0.7	3.0	51°	38°	31°	25°
C EX144TC S		15.0	64(2x32)	10 AWG	0.7	3.0	68°	51°	41°	34°
C EX144TC ML		15.0	64(2x32)	10 AWG	0.3	3.0	68°	51°	41°	34°
C EX144TC FS		15.0	64(2x32)	10 AWG	0.7	3.0	68°	51°	41°	34°
C EX190TC		19.0	80(2x40)	8 AWG	0.7	3.0	87°	65°	52°	43°
C EX190TC (derated 208V performance)		14.0	68(2x34)	8 AWG	0.7	3.0	64°	48°	38°	32°
C EX190TC S		19.0	80(2x40)	8 AWG	0.7	3.0	87°	65°	52°	43°
C EX190TC FS		19.0	80(2x40)	8 AWG	0.7	3.0	87°	65°	52°	43°
C EX190TC ML		19.0	80(2x40)	8 AWG	0.3	3.0	87°	65°	52°	43°
EX023240TC		23.0	96(2x48)	8 AWG	0.7	3.0	105°	79°	63°	52°
EX023240TC (derated 208V performance)		17.3	83(2x50)	8 AWG	0.7	3.0	79°	59°	47°	39°
EX023240TC S		23.0	96(2x48)	8 AWG	0.7	3.0	105°	79°	63°	52°
EX023240TC FS		23.0	96(2x48)	8 AWG	0.7	3.0	105°	79°	63°	52°
EX023240TC ML		23.0	96(2x48)	8 AWG	0.3	3.0	105°	79°	63°	52°
VOLTS 208 Single Phase										
C EX1608TC		16.6	80(2x40)	8 AWG	0.7	3.0	76°	57°	45°	38°
C EX1608TC S		16.6	80(2x40)	8 AWG	0.7	3.0	76°	57°	45°	38°
C EX1608TC FS		16.6	80(2x40)	8 AWG	0.7	3.0	76°	57°	45°	38°
C EX1608TC ML		16.6	80(2x40)	8 AWG	0.3	3.0	76°	57°	45°	38°
VOLTS 277										
EX160TC		16.0	58(2x29)	10 AWG	0.7	3.0	73°	55°	44°	36°
EX160TC S		16.0	58(2x29)	10 AWG	0.7	3.0	73°	55°	44°	36°
EX160TC FS		16.0	58(2x29)	10 AWG	0.7	3.0	73°	55°	44°	36°
EX160TC ML		16.0	58(2x29)	10 AWG	0.3	3.0	73°	55°	44°	36°
EX200TC		20.0	72(2x36)	8 AWG	0.7	3.0	91°	68°	55°	46°
EX200TC S		20.0	72(2x36)	8 AWG	0.7	3.0	91°	68°	55°	46°
EX200TC FS		20.0	72(2x36)	8 AWG	0.7	3.0	91°	68°	55°	46°
EX200TC ML		20.0	72(2x36)	8 AWG	0.3	3.0	91°	68°	55°	46°
CNL Models										
C EX144TC CNL		15.0	64(2x32)	6 AWG	0.7	3.0	68°	51°	41°	34°
C EX144TC S CNL		15.0	64(2x32)	6 AWG	0.7	3.0	68°	51°	41°	34°
C EX144TC FS CNL		15.0	64(2x32)	6 AWG	0.7	3.0	68°	51°	41°	34°
C EX144TC ML CNL		15.0	64(2x32)	6 AWG	0.3	3.0	68°	51°	41°	34°
C EX190TC CNL		19.0	80(2x40)	4 AWG	0.7	3.0	87°	65°	52°	43°
C EX190TC S CNL		19.0	80(2x40)	4 AWG	0.7	3.0	87°	65°	52°	43°
C EX190TC FS CNL		19.0	80(2x40)	4 AWG	0.7	3.0	87°	65°	52°	43°
C EX190TC ML CNL		19.0	80(2x40)	4 AWG	0.3	3.0	87°	65°	52°	43°
C EX1608TC CNL		16.6	80(2x40)	4 AWG	0.7	3.0	76°	57°	45°	38°
C EX1608TC S CNL		16.6	80(2x40)	4 AWG	0.7	3.0	76°	57°	45°	38°
C EX1608TC FS CNL		16.6	80(2x40)	4 AWG	0.7	3.0	76°	57°	45°	38°
C EX1608TC ML CNL		16.6	80(2x40)	4 AWG	0.3	3.0	76°	57°	45°	38°

* 240V units can be used on 208V single phase with 25% reduced temperature output. Please note per UL standards the rating plate and installation instructions will all be according to a 240V applied voltage. Check with local officials prior to derating the electrical infrastructure.

"C" indicates evaluation and compliance to either Underwriters Laboratories (UL) or Intertek (ETL) under CAN/CSA-C22.2 No. 64/No. 88. CNL SKUs are Canada specific.