“DE-IONIZED”

ELECTRIC TANKLESS WATER HEATERS

11/04

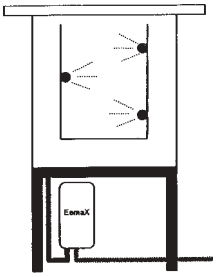
MODELS:

SINGLE MODULE THERMOSTATIC MODELS

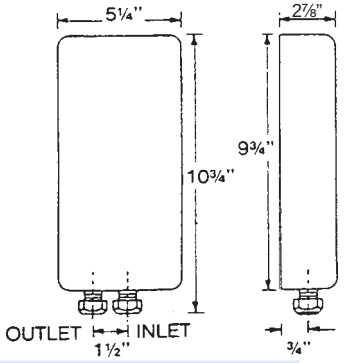
.5 GPM turn on Max 3 GPM. Bottom water connections, 1/2” compression fittings (type 316 stainless steel)

MODEL	THERMOSTATIC OPTIONS	VOLTS	KW	AMPS
EX2412TDI	P,S,FS	120V	2.4kW	20A
EX3012TDI	P,S,FS	120V	3.0kW	25A
EX3512TDI	P,S,FS	120V	3.5kW	29A
EX55TDI	P,S,FS	240V*	5.5kW	23A
EX65TDI	P,S,FS	240V*	6.5kW	27A
EX75TDI	P,S,FS	240V*	7.5kW	32A
EX95TDI	P,S,FS	240V*	9.5kW	40A
EX8208TDI	P,S,FS	208V	8.3kW	40A
EX60TDI	P,S,FS	277V	6.0kW	22A
EX80TDI	P,S,FS	277V	8.0kW	29A
EX90TDI	P,S,FS	277V	9.0kW	33A
EX100TDI	P,S,FS	277V	10.0kW	36A

*Units can be used at 208V with 25% reduced output.



Ultrasonic Cleaning Tank



SPECIFICATION OPTIONS (Thermostatic)

- ☐ P = Ambient to 100°
- ☐ S = Sanitation 180°
- ☐ FS = Factory set (ambient to 180°)

DUAL MODULE THERMOSTATIC MODELS

Bottom water connections, 1/2” compression fittings (type 316 stainless) steel

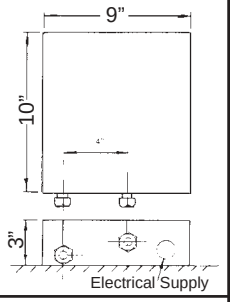
MODEL	THERMOSTATIC OPTIONS	TURN ON OPTIONS	VOLTS	KW	AMPS
EX144DI	P,S,FS	TC,T2	240V	15kW	64 (2x32)A
EX190DI	P,S,FS	TC,T2	240V	19kW	80 (2x40)A
EX1608DI	P,S,FS	TC,T2	208V	16.6kW	80 (2x40)A
EX160DI	P,S,FS	TC,T2	277V	16kW	58 (2x29)A
EX200DI	P,S,FS	TC,T2	277V	20kW	72 (2x36)A

SPECIFICATION OPTIONS (Thermostatic)

- ☐ P = Ambient to 100°
- ☐ S = Sanitation 180°
- ☐ FS = Factory set (ambient to 180°)

TURN ON OPTIONS

- ☐ TC = Staged turn-on .7 GPM max 3 GPM
- ☐ T2 = Parallel turn on 1.3 GPM max 4 GPM



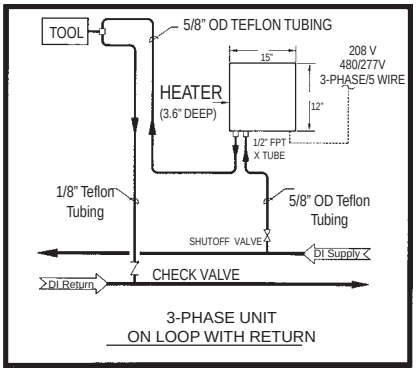
TRIPLE MODULE THERMOSTATIC MODELS

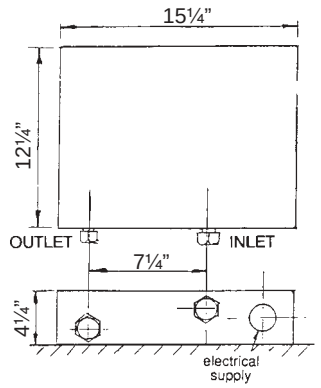
“THREE PHASE”

MODEL	TURN ON OPTIONS	VOLTS	KW	AMPS
EX180DI	T3,T2T	208/120V (no neutral leg)	18kW	50A/phase
EX240DI	T3,T2T	208/120V (no neutral leg)	24kW	67A/phase
EX180DI	T3,T2T	480Y/277V (neutral leg req.)	18kW	22A/phase
EX240DI	T3,T2T	480Y/277V (neutral leg req.)	24kW	29A/phase
EX320DI	T3,T2T	480Y/277V (neutral leg req.)	32kW	39A/phase

“SINGLE PHASE”

MODEL	TURN ON OPTIONS	VOLTS	KW	AMPS
EX280DI	T3,T2T	240V (single phase)	28kW	3x40A





SPECIFICATION OPTIONS (Thermostatic)

- ☐ P = Ambient to 100°
- ☐ S = Sanitation 180°
- ☐ FS = Factory set (ambient to 180°)

TURN ON OPTIONS

- ☐ T3 = Parallel turn on 1.6 GPM, max 5 GPM
- ☐ T2T = Staged turn on .7 GPM, max 3.5GPM

ADVANCED TECHNOLOGY • HIGHEST EFFICIENCY • DESIGNED FOR DURABILITY

APPLICATIONS:

- Microchip Manufacturing
- Pharmaceutical Production
- High Tolerance Component Cleaning
- Ultrasonic Cleaning
- Spray Rinse Tank
- Batch Chemical Mixing

Made In USA

QUALITY FEATURES

- **Capable of Heating High Purity Water** - state of the art materials used in construction, rated for purity levels up to 18 MEG OHM.
- **Test proven** by independent analytical laboratory to maintain water purity. Test results available uponrequest.
- **Extensive Product Range** - 3 kW, 120V through 32 kW, three phase power available.
- **Compact Size** - largest unit is only 15¼” x 12¼” x 4¼”.
- **Thermostatic Temperature Control Available** - highly accurate micro processor to deliver ±1°F outlet accuracy.
- **Eliminate Deadlegs** - unique flow activated design allows for constant water movement, even when not heating.
- **Easy Installation** - compact size, allows for installation close to the point-of-use.

SUGGESTED SPECIFICATION

Instantaneous Water Heater shall be an Eemax De-Ionized Model,_____(model #),with_____(kW rating)kW,_____(voltage)vac, and _____(amperage) to heat _____ GPM @ a temperature rise of _____ degrees F. Heating element shall be replaceable element cartridge. Unit shall be capable of heating water up to 18 MEG OHM quality or approved equal.

EEMAX SUBMITTAL

Engineer/Architect: _____
Job Name/Customer: _____
Location: _____
Contractor: _____
Representative: _____
HEATER SPECIFICATIONS:

De-Ionized Model # EX_____	Option	Quantity	kW	Voltage	AMPS	GPM

ALL MODELS THERMOSTATIC OPTIONS: ☐ P = Ambient to 100° ☐ S = Sanitation 180° ☐ FS = Factory set (ambient to 180°)

RATINGS OF SINGLE MODULE THERMOSTATIC DE-IONIZED MODELS (cold or hot water feed) Single Heating Module

MODEL	THERMOSTATIC OPTIONS	VOLTS	kW	AMPS	TEMPERATURE RISE °F 0.5 GPM	0.75 GPM	1.0 GPM	1.5 GPM	2.0 GPM	RECOMM. WIRE SIZE
EX2412TDI	P,S,FS	120V	2.4kW	20A	33°	22°	16°	11°	8°	10AWG
EX3012TDI	P,S,FS	120V	3.0kW	25A	41°	27°	20°	14°	10°	10AWG
EX3512TDI	P,S,FS	120V	3.5kW	29A	48°	32°	24°	16°	12°	10AWG
EX55TDI	P,S,FS	240V*	5.5kW	23A	75°	50°	38°	25°	19°	10AWG
EX65TDI	P,S,FS	240V*	6.5kW	27A	89°	59°	44°	30°	22°	10AWG
EX75TDI	P,S,FS	240V*	7.5kW	32A	—	68°	51°	34°	26°	8AWG
EX95TDI	P,S,FS	240V*	9.5kW	40A	—	87°	65°	43°	32°	8AWG
EX8208TDI	P,S,FS	208V	8.3kW	40A	—	76°	57°	38°	28°	8AWG
EX60TDI	P,S,FS	277V	6.0kW	22A	82°	55°	41°	27°	20°	10AWG
EX80TDI	P,S,FS	277V	8.0kW	29A	—	73°	55°	36°	27°	10AWG
EX90TDI	P,S,FS	277V	9.0kW	32A	—	82°	61°	41°	31°	8AWG
EX100TDI	P,S,FS	277V	10.0kW	36A	—	91°	68°	46°	34°	8AWG

RATINGS OF DUAL MODULE THERMOSTATIC MODELS Two Heating Modules

(Turn On) ☐ TC = staged turn-on .7 GPM, max 3 GPM ☐ T2 = Parallel turn-on 1.3 GPM, max 4 GPM

MODEL	TURN ON OPTIONS	THERMOSTATIC OPTIONS	VOLTS	kW	AMPS	TEMPERATURE RISE °F 1.5 GPM	2.0 GPM	2.5 GPM	3.0 GPM	3.5 GPM	4.0 GPM	5.0 GPM	RECOMMENDED WIRE SIZE
EX144DI	TC,T2	P,S,FS	240V	15kW	64 (2x32)A	65°	51°	41°	34°	29°	26°	20°	8AWG/per module
EX190DI	TC,T2	P,S,FS	240V	19kW	80 (2x40)A	87°	65°	52°	43°	37°	32°	26°	8AWG/permodule
EX1608DI	TC,T2	P,S,FS	208V	16.6kW	80 (2x40)A	75°	57°	45°	38°	32°	28°	23°	8AWG/per module
EX160DI	TC,T2	P,S,FS	277V	16kW	58 (2x29)A	73°	55°	44°	36°	31°	27°	22°	10AWG/per module
EX200DI	TC,T2	P,S,FS	277V	20kW	72 (2x36)A	91°	68°	55°	46°	39°	34°	27°	8AWG/per module

RATINGS OF TRIPLE MODULE THERMOSTATIC THREE PHASE MODELS Three Heating Modules

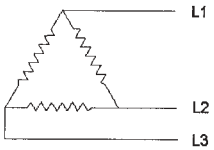
(Turn On) ☐ T3 = Parallel turn-on 1.6 GPM, max 5 GPM ☐ T2T = staged turn-on .7 GPM, max 3.5 GPM

MODEL	TURN ON OPTION	kW RATING	VOLTAGE	CURRENT PER PHASE	TEMPERATURE RISE °F 1.5 GPM	2.0 GPM	2.5 GPM	3.0 GPM	3.5 GPM	4.0 GPM	5.0 GPM	RECOMM. WIRE SIZE
EX180DI	T3,T2T	18kW	208/120V Delta-no neutral leg	50A/phase	82°	61°	49°	41°	35°	31°	25°	6AWG
EX240DI	T3.T2T	24kW	208/120V Delta-no neutral leg	67A/phase	—	82°	66°	55°	47°	41°	33°	6AWG
EX180DI	T3,T2T	18kW	480Y/277V neutral leg required	22A/phase	82°	61°	49°	41°	35°	31°	25°	10AWG
EX240DI	T3,T2T	24kW	480Y/277V neutral leg required	29A/phase	—	82°	66°	55°	47°	41°	33°	10AWG
EX320DI	T3,T2T	32kW	480Y/277V neutral leg required	39A/phase	—	—	87°	73°	62°	55°	44°	8AWG

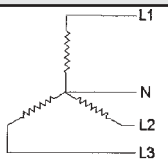
Electrical Configurations and Requirements for Eemax Three Phase Instantaneous Water Heaters.

All Eemax three-phase units are custom made to order and as such are, non-returnable and non-refundable. We urge you therefore to check your electrical supply, making sure all criteria for operating your Eemax water heater are met, especially that a neutral line is available for all 480/277 volt units.

Eemax 208/120 Three Phase Units
Delta Configuration
Requires: 3 Lives, 1 Ground (earth)
Three-Phase delta; Three-wire



Eemax 480Y/277 Three Phase Units
Star Configuration
Requires: 3 Lives, 1 Neutral and 1 Ground (earth)
Three-Phase star; four-wire; non-earthed neutral



RATING OF TRIPLE MODULE THERMOSTATIC SINGLE PHASE MODEL Three Heating Modules

(Turn On) ☐ T3 = Parallel turn-on 1.6 GPM, max 5 GPM ☐ T2T = staged turn-on .7 GPM, max 3.5 GPM

MODEL	TURN ON OPTIONS	VOLTS	kW RATING	AMPS	1.5GPM	2 GPM	2.5 GPM	3 GPM	3.5 GPM	4 GPM	5 GPM	RECOMMENDED WIRE SIZE
EX280DI	T3,T2T	240V	28kW	3x40 A	—	96°	76°	64°	55°	48°	38°	8AWG/per module

Eemax "DI" Water Heaters have been type tested by a reputable, independent Analytical Laboratory. Test conclusions verified no measurable contamination of water passing through the Eemax heater. Test results available upon request.

c UL us LISTED
MADE IN USA

WHY HOT "DI" (DE-IONIZED) WATER?

- Hot De-Ionized water has become an attractive replacement for chlorofluorocarbons (CFC's). CFC's are ozone depleting and must be phased out of all manufacturing operations.
- Hot "DI" water provides a more aggressive cleaning agent, will flash dry quickly and is "user friendly" in terms of its disposal.
- Heated "DI" water has remarkable cleaning properties and will not pollute the environment.

EEMAX ULTRAPURE "DI" HEATER

- The Eemax Ultrapure (DI) water heater is capable of heating water of the highest purity **(up to 18 MEG OHM quality)** -- **affordably.** It's compact design (12" x 15") makes the unit particularly well suited for "point-of-use" installation to serve single or multiple work stations. The units utilize Eemax's Instantaneous Water Heating Technology, delivering continuous, constant temperature, hot water. Models come in powers ranging from 2.4kW, 120 volt, single phase, through 32kW, three phase. Temperatures up to 180 degrees Fahrenheit are possible to an accuracy of plus or minus 1°F
- All Eemax ultrapure water heaters utilize the highest quality materials. 316 stainless steel wetted surfaces.

Eemax® Inc.
353 Christian Street, Oxford, CT 06478
www.eemax.com
Telephone: (203) 267-7890
TOLL FREE: 1-800-543-6163
FAX: (203) 267-7975

11/04