

# Series Twelve Commercial

Twelve Module, Commercial/Industrial for Emergency Eye/Face and Drench Showers

## Specifications

Electric Tankless Hot Water Heater

### Applications

- Emergency combination eye/face drench shower (EFD)
- Emergency drench shower only (DS)
- Where tepid water is needed

### Performance Features

- Cut energy waste. Flow switch activates heater only on demand (no standby heat loss) – 99% efficient
- Save water – “Point of use application”
- Continuous hot water – no storage capacity to run out
- Unlimited On Demand Hot Water – No delay
- Meets ANSI Z358.1 Tepid Water Requirements
- Reduces installation cost and material. No T&P relief valve needed (check local codes) or venting
- Thermostatic control. Microprocessor provides precise outlet temperatures
- Reduces calcification, liming and sedimentation
- Warranty – Five (5) years leaks and one (1) year on parts – Field serviceable replaceable cartridge element, one (1) year

### Optional Features

- Freeze protection for harsh climate, up to -30°F
- GFCI
- Safety alerting light and siren.
- N4, N4X (304SS) enclosures

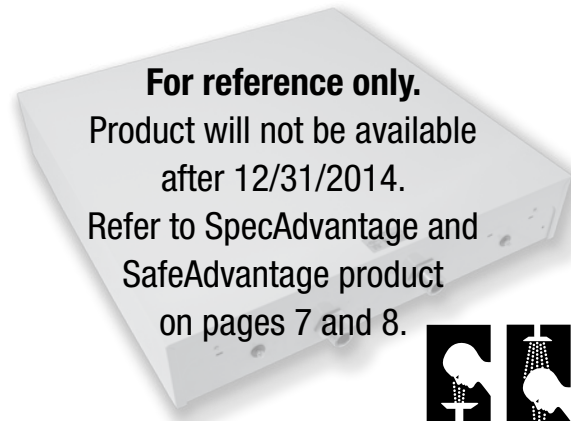
### Product Specifications

<b>Dimensions</b>	32 3/32" H x 32 3/32" W x 6" D
<b>Weight</b>	70 lbs.
<b>Cover</b>	Powder Coated Steel
<b>Color</b>	Yellow
<b>Element</b>	Twelve replaceable cartridge elements plus two spares
<b>Fittings</b>	1.25" NPT fittings at BOTTOM of unit
<b>Pressure</b>	Min. 40 PSI, max. 150 PSI
<b>UL Listed</b>	E86887(m)

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**.



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



### Electrical configuration and requirements

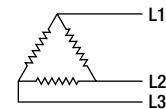
All Eemax three phase units are custom made to order and as such, are non-returnable and non-refundable. We urge you, therefore, to check your electrical supply, making sure all criteria for operating your Eemax water heater are met.

### Eemax 600v, 480v and 208v

#### Three Phase Units

#### Delta Configuration

Requires: 3 Lives and 1 Ground (earth)



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### Suffix Definitions

- EFD** For combination Eye/Face drench shower. First Stage 3 GPM turn on (with reduced power for eye/face wash). Second Stage 15 GPM turn on (full power for drench shower)
- DS** For drench shower only. (min. turn on 12 GPM)

MODEL NUMBER	KW	AMPS PER PHASE	TURN ON (GPM)	RECOMMENDED WIRE SIZE (CU)	TEMPERATURE RISE °F							
					3.0 GPM	4.0 GPM	6.0 GPM	7.5 GPM	20.0 GPM	23.5 GPM	26.0 GPM	30.0 GPM
<b>VOLTS 208V/3 Ø</b>												
EX480T12 EFD	48	133A/phase	3 & 15	2/0 AWG	54°	41°	27°	21°	16°	14°	12°	-
EX480T12 DS	48	133A/phase	12	2/0 AWG	-	-	-	-	16°	14°	12°	-
EX720T12 EFD	72	200A/phase	3 & 15	200 MCM	80°	61°	40°	32°	24°	21°	18°	-
EX720T12 DS	72	200A/phase	12	200 MCM	-	-	-	-	24°	21°	18°	-
EX960T12 EFD	96	267A/phase	3 & 15	400 MCM	108°	81°	54°	43°	32°	28°	25°	-
EX960T12 DS	96	267A/phase	12	400 MCM	-	-	-	-	32°	28°	25°	-
<b>VOLTS 480V/277V</b>												
EX480T12 EFD-277*	48	58A/phase	3 & 15	6 AWG	54°	41°	27°	22°	16°	14°	12°	-
EX580T12 EFD-277*	58	76A/phase	3 & 15	4 AWG	66°	50°	33°	26°	20°	17°	15°	-
ED079480T12 EFD	79	96A/phase	3 & 15	1 AWG	+	67°	44°	35°	26°	23°	20°	-
ED096480T12 EFD	96	116A/phase	3 & 15	1/0 AWG	+	+	54°	43°	32°	28°	25°	-
ED108480T12 EFD	108	130A/phase	3 & 15	2/0 AWG	+	+	61°	49°	36°	32°	28°	-
ED126480T12 EFD	126	152A/phase	3 & 15	3/0 AWG	+	+	+	57°	43°	37°	33°	-
ED138480T12 EFD	138	166A/phase	3 & 15	4/0 AWG	+	+	+	62°	47°	40°	36°	32°
ED150480T12 DS	150	180A/phase	12	4/0 AWG	-	-	-	-	51°	45°	39°	34°
<b>VOLTS 600V Delta</b>												
C ED130600T12 EFD	130	130A/phase	3 & 15	2/0 AWG	+	+	+	+	46°	40°	35°	30°
C ED130600T12 DS	130	130A/phase	12	2/0 AWG	-	-	-	-	46°	40°	35°	30°
C ED150600T12 DS	150	145A/phase	12	2/0 AWG	-	-	-	-	53°	46°	41°	34°

\* Wye - Neutral Leg Required  
 + Temperature electrically limited to factory preset not-to-exceed temperature.  
 "C" indicates evaluation and compliance to either Underwriters Laboratories (UL) or Intertek (ETL) under CAN/CSA-C22.2 No. 64/No. 88.

**For reference only.**  
 Product will not be available after 12/31/2014.  
 Refer to SpecAdvantage and SafeAdvantage product on pages 7 and 8.

### SERIES TWELVE TO PHD CROSSOVER GUIDE

BASE MODEL NUMBER	KW	VOLTS	AMPS	° RISE AT 20 GPM		BASE MODEL NUMBER	KW	VOLTS	AMPS	° RISE AT 20 GPM
EX480T12 EFD/DS	48	208	133	16.3	➔	AP041208 EFD	41	208	112	14
						AP054208 EFD	54	208	150	18.4
EX720T12 EFD/DS	72	208	200	24	➔	AP064208 EFD	64	208	178	22
EX960T12 EFD/DS	96	208	267	32	➔	<b>Call Technical Support at 1-800-543-6163</b>				
EX480T12 EFD-277	48	480/277 wye	58	16	➔	AP048480 EFD	48	480	65	16
ED079480T12 EFD	79	480	96	26	➔	AP072480 EFD	72	480	87	25
ED096480T12 EFD	96	480	116	32	➔	AP072480 EFD	72	480	87	25
						AP108480 EFD	108	480	130	37
ED108480T12 EFD	108	480	130	37	➔	AP108480 EFD	108	480	130	37
ED126480T12 EFD	126	480	152	43	➔	AP126480 EFD	126	480	152	43

For assistance call technical support at 1-800-543-6163

