

LavAdvantage

Point-of-use Micro Processor Temperature Control

Specifications

Electric Tankless Hot Water Heater

Applications

- Lavatory sinks
- Multi lav configurations ideal for sensor or metering faucets (ML option - 110°F max.)
- Emergency eye wash fountains (EE option - 90°F max.)

Performance Features

- Industry's lowest activation with 0.2 GPM turn on flow.
- Active energy management with power modulating controls
- Microprocessor temperature control with digital display for thermostatic accuracy +/-1°F. Field adjustable set point range between 70-140°F. Factory set at 120°F Special settings of higher or lower range available based on options. (see Specification Options)
- Silent Operation (except for SPEX0122240T)
- Mounts in any orientation
- Cut energy waste. Flow switch activates heater only on demand (no standby heat loss) – 99% efficient
- Save Water – “Point of Use”
- Eliminate costly mixing valves (check local codes)
- Continuous hot water. No storage capacity to run out
- Install unit at point-of-use to eliminate long pipe runs
- Easy installation. Only one cold or hot water line need be brought to installation – integral compression fittings are 3/8” (no sweat connections)
- Reduces installation cost and materials. No T&P relief valve needed (check local codes)
- High temperature limit switch (ECO)
- Booster up to 180°F (S option)
- Compact size
- Warranty – Heaters, against failure due to leaks of “Heater Body/Element Assembly”, five (5) years – Parts, one (1) year

Product Specifications

Dimensions:	10.75" x 5.25" x 2.875"
Weight:	4 lbs.
Cover:	ABS UL rated 94 5VA
Color:	White
Adj. Set Point Temp. Range:	70°F-140°F
Dynamic Operating Pressure Range:	25 PSI - 150 PSI
Element:	Replaceable Ni Chrome cartridge insert
Fittings:	3/8" pipe compression fittings at bottom of unit (5/8" OD)
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.



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



Suggested Specification

Tankless water heater shall be an Eemax Thermostatic model number SPEX_____.

Unit shall have ABS-UL 94 5VA rated cover. Unit has 0.2 gpm turn on. Unit can be mounted in any direction. Element shall be replaceable cartridge insert. Tankless water heater to utilize complex algorithm, actively managing power application to real time system demand. Integrated flow meter, along with inlet and outlet temperature sensors provide data which allows the unit to instantly adapt to variations in input parameters. Unit shall have replaceable filter in the inlet connector. Element shall be iron free, Nickel Chrome material. Heater shall be fitted with 3/8” compression fittings (5/8” OD) on bottom of unit to eliminate need for soldering. Maximum operating pressure of 150 PSI. Hot water storage tanks prohibited. Unit shall be Eemax or approved equal.

Specification options to be included with SPEX models:

- ___ EE Emergency Eyewash. Meets ANSI tepid water requirements. Max. temperature 90°F
- ___ ML Multiple Lavatory. Factory set to 110°F
- ___ S Sanitation. Factory set not to exceed temperature of 180°F
- ___ N4 NEMA 4 waterproof cabinet w/powder coat finish
- ___ N4X NEMA 4 stainless steel waterproof corrosion-resistant cabinet

Tankless water heater user interface must have the following capabilities:

- Selectable display including Celsius /Fahrenheit, set point, flow rate, inlet temperature outlet temperature, power factor
- Capable of displaying flow rate in gallons per minute & liters per minute
- Diagnostic features to include error/fault display
- Control board must maintain error/fault history of 5 events

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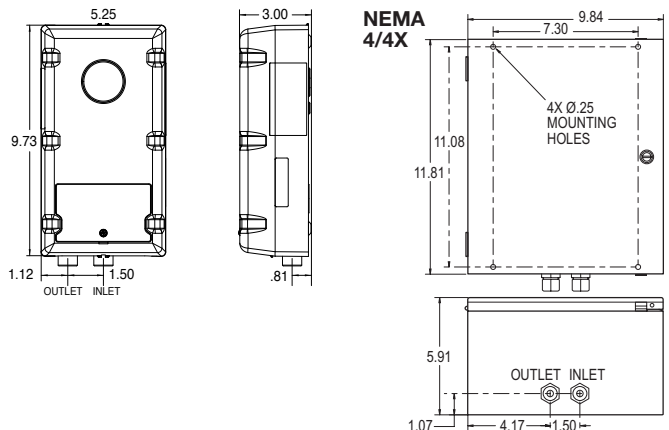
MODEL NUMBER	kW	AMPS	TURN ON (GPM)	REC'D WIRE SIZE (CU)	TEMPERATURE RISE °F					
					0.2 GPM	0.35 GPM	0.5 GPM	1.0 GPM	2.0 GPM	
VOLTS 120										
C SPEX1812T	1.8kW	15A	0.2	14 AWG	61°	35°	25°	12°	6°	
C SPEX1812T EE	1.8kW	15A	0.2	14 AWG	61°	35°	25°	12°	6°	
C SPEX1812T S	1.8kW	15A	0.2	14 AWG	61°	35°	25°	12°	6°	
C SPEX2412T	2.4kW	20A	0.2	12 AWG	82°	47°	33°	16°	8°	
C SPEX2412T EE	2.4kW	20A	0.2	12 AWG	82°	47°	33°	16°	8°	
C SPEX2412T S	2.4kW	20A	0.2	12 AWG	82°	47°	33°	16°	8°	
C SPEX3012T	3.0kW	25A	0.2	10 AWG	102°	59°	41°	20°	10°	
C SPEX3012T EE	3.0kW	25A	0.2	10 AWG	102°	59°	41°	20°	10°	
C SPEX3012T S	3.0kW	25A	0.2	10 AWG	102°	59°	41°	20°	10°	
C SPEX3512T	3.5kW	29A	0.2	10 AWG	†	68°	48°	24°	12°	
C SPEX3512T EE	3.5kW	29A	0.2	10 AWG	†	68°	48°	24°	12°	
C SPEX3512T ML	3.5kW	29A	0.2	10 AWG	†	68°	48°	24°	12°	
C SPEX3512T S	3.5kW	29A	0.2	10 AWG	120°	68°	48°	24°	12°	
VOLTS 240*										
C SPEX35T	3.5kW	15A	0.2	14 AWG	†	68°	48°	24°	12°	
C SPEX35T (derated 208V perf.)	2.7kW	13A	0.2	14 AWG	92°	53°	37°	18°	9°	
C SPEX35T EE	3.5kW	15A	0.2	14 AWG	†	68°	48°	24°	12°	
C SPEX35T ML	3.5kW	15A	0.2	14 AWG	†	68°	48°	24°	12°	
C SPEX35T S	3.5kW	15A	0.2	14 AWG	120°	68°	48°	24°	12°	
C SPEX48T	4.8kW	20A	0.2	12 AWG	†	94°	66°	33°	16°	
C SPEX48T (derated 208V perf.)	3.6kW	17A	0.2	12 AWG	†	70°	49°	25°	12°	
C SPEX48T EE	4.8kW	20A	0.2	12 AWG	†	94°	66°	33°	16°	
C SPEX48T ML	4.8kW	20A	0.2	12 AWG	†	94°	66°	33°	16°	
C SPEX48T S	4.8kW	20A	0.2	12 AWG	†	94°	66°	33°	16°	
C SPEX55T	5.5kW	23A	0.2	10 AWG	†	†	75°	38°	19°	
C SPEX55T (derated 208V perf.)	4.1kW	20A	0.2	10 AWG	†	80°	56°	28°	14°	
C SPEX55T EE	5.5kW	23A	0.2	10 AWG	†	†	75°	38°	19°	
C SPEX55T ML	5.5kW	23A	0.2	10 AWG	†	†	75°	38°	19°	
C SPEX55T S	5.5kW	23A	0.2	10 AWG	†	107°	75°	38°	19°	
C SPEX65T	6.5kW	27A	0.2	10 AWG	†	†	89°	44°	22°	
C SPEX65T (derated 208V perf.)	4.9kW	24A	0.2	10 AWG	†	96°	67°	33°	17°	
C SPEX65T EE	6.5kW	27A	0.2	10 AWG	†	†	89°	44°	22°	
C SPEX65T ML	6.5kW	27A	0.2	10 AWG	†	†	89°	44°	22°	
C SPEX65T S	6.5kW	27A	0.2	10 AWG	†	127°	89°	44°	22°	
C SPEX75T	7.5kW	32A	0.2	8 AWG	†	†	102°	51°	26°	
C SPEX75T (derated 208V perf.)	5.6kW	27A	0.2	8 AWG	†	†	76°	38°	19°	
C SPEX75T EE	7.5kW	32A	0.2	8 AWG	†	†	102°	51°	26°	
C SPEX75T ML	7.5kW	32A	0.2	8 AWG	†	†	102°	51°	26°	
C SPEX75T S	7.5kW	32A	0.2	8 AWG	†	†	102°	51°	26°	
C SPEX95T	9.5kW	40A	0.2	8 AWG	†	†	†	65°	32°	
C SPEX95T (derated 208V perf.)	7.0kW	34A	0.2	8 AWG	†	†	96°	48°	24°	
C SPEX95T EE	9.5kW	40A	0.2	8 AWG	†	†	†	65°	32°	
C SPEX95T ML	9.5kW	40A	0.2	8 AWG	†	†	†	65°	32°	
C SPEX95T S	9.5kW	40A	0.2	8 AWG	†	†	†	130°	65°	32°
C SPEX012240T	11.5kW	48A	0.2	6 AWG	†	†	†	79°	39°	
C SPEX012240T (derated 208V perf.)	8.7kW	42A	0.2	6 AWG	†	†	†	59°	30°	
C SPEX012240T EE	11.5kW	48A	0.2	6 AWG	†	†	†	79°	39°	
C SPEX012240T ML	11.5kW	48A	0.2	6 AWG	†	†	†	79°	39°	
C SPEX012240T S	11.5kW	48A	0.2	6 AWG	†	†	†	79°	39°	

* 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.
 † Temperature electronically 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.

MODEL NUMBER	kW	AMPS	TURN ON (GPM)	REC'D WIRE SIZE (CU)	TEMPERATURE RISE °F					
					0.2 GPM	0.35 GPM	0.5 GPM	1.0 GPM	2.0 GPM	
VOLTS 208 Single Phase										
C SPEX3208T	3.0kW	15A	0.2	14 AWG	102°	59°	41°	20°	10°	
C SPEX3208T ML	3.0kW	15A	0.2	14 AWG	102°	59°	41°	20°	10°	
C SPEX4208T	4.1kW	20A	0.2	12 AWG	†	80°	56°	28°	14°	
C SPEX4208T EE	4.1kW	20A	0.2	12 AWG	†	80°	56°	28°	14°	
C SPEX4208T ML	4.1kW	20A	0.2	12 AWG	†	80°	56°	28°	14°	
C SPEX4208T S	4.1kW	20A	0.2	12 AWG	140°	80°	56°	28°	14°	
C SPEX8208T	8.3kW	40A	0.2	8 AWG	†	†	†	57°	28°	
C SPEX8208T EE	8.3kW	40A	0.2	8 AWG	†	†	†	57°	28°	
C SPEX8208T ML	8.3kW	40A	0.2	8 AWG	†	†	†	57°	28°	
C SPEX8208T S	8.3kW	40A	0.2	8 AWG	†	†	†	113°	57°	28°
VOLTS 277										
C SPEX3277T	3.0kW	11A	0.2	14 AWG	102°	59°	41°	20°	10°	
C SPEX3277T EE	3.0kW	11A	0.2	14 AWG	102°	59°	41°	20°	10°	
C SPEX3277T ML	3.0kW	11A	0.2	14 AWG	102°	59°	41°	20°	10°	
C SPEX3277T S	3.0kW	11A	0.2	14 AWG	102°	59°	41°	20°	10°	
C SPEX4277T	4.1kW	14.8A	0.2	14 AWG	†	80°	56°	28°	14°	
C SPEX4277T EE	4.1kW	14.8A	0.2	14 AWG	†	80°	56°	28°	14°	
C SPEX4277T ML	4.1kW	14.8A	0.2	14 AWG	†	80°	56°	28°	14°	
C SPEX4277T S	4.1kW	14.8A	0.2	14 AWG	140°	80°	56°	28°	14°	
C SPEX60T	6.0kW	22A	0.2	10 AWG	†	†	82°	41°	20°	
C SPEX60T EE	6.0kW	22A	0.2	10 AWG	†	†	82°	41°	20°	
C SPEX60T ML	6.0kW	22A	0.2	10 AWG	†	†	82°	41°	20°	
C SPEX60T S	6.0kW	22A	0.2	10 AWG	†	117°	82°	41°	20°	
C SPEX80T	8.0kW	29A	0.2	10 AWG	†	†	†	55°	27°	
C SPEX80T EE	8.0kW	29A	0.2	10 AWG	†	†	†	55°	27°	
C SPEX80T ML	8.0kW	29A	0.2	10 AWG	†	†	†	55°	27°	
C SPEX80T S	8.0kW	29A	0.2	10 AWG	†	†	†	109°	55°	27°
C SPEX90T	9.0kW	33A	0.2	8 AWG	†	†	†	61°	31°	
C SPEX90T EE	9.0kW	33A	0.2	8 AWG	†	†	†	61°	31°	
C SPEX90T ML	9.0kW	33A	0.2	8 AWG	†	†	†	61°	31°	
C SPEX90T S	9.0kW	33A	0.2	8 AWG	†	†	†	123°	61°	31°
C SPEX100T	10.0kW	36A	0.2	8 AWG	†	†	†	68°	34°	
C SPEX100T EE	10.0kW	36A	0.2	8 AWG	†	†	†	68°	34°	
C SPEX100T ML	10.0kW	36A	0.2	8 AWG	†	†	†	68°	34°	
C SPEX100T S	10.0kW	36A	0.2	8 AWG	†	†	†	137°	68°	34°

Suffix Definitions

- EE Meets ANSI Z358.1 emergency eye/face wash tepid water requirements
- ML Multi lavs 0.2 turn on with 110° temp setting
- S Sanitation not to exceed 180°



Information and product specifications contained in this document are subject to change without notice.