LavAdvantage

Point-of-use Microprocessor 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 (3.5kW and below set at 105°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)
- Save water and time by installing unit at point-of-use to eliminate long pipe runs
- Eliminate costly mixing valves (check local codes)
- Continuous hot water – No storage capacity to run out
- 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)
- Warranty, five (5) years limited on leaks, one (1) year parts
- Compact size fits almost anywhere for flexible installation; suitable for ADA compliant facilities

Product Specifications

Dimensions:	9.75" x 5.25" x 3"
Weight:	4 lb
Cover:	ABS UL rated 94 5VA
Color:	White
Adj. Set Point Temp. Range:	70°F-140°F
Minimum Operating Pressure:	30 PSI
Maximum Operating Pressure:	150 PSI
Optimum Operating Pressure:	35-80 PSI
Element:	Replaceable Ni Chrome cartridge insert
Fittings:	3/8" pipe compression fittings
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**.

LISTED

Assembled In USA

NO LEAD*
*The wetted surface of this product contacted by water contains less than 0.25% lead and meets ANSI/NSF 372

bimobject
Find our products on bimobject.com
BIM

Suggested Specification

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

Unit shall have ABS-UL 94 5VA rated cover. Unit shall have 0.2 gpm turn on. Unit shall allow mounting in any direction. Element shall be replaceable cartridge insert. Unit shall have replaceable filter in the inlet connector. Element shall be iron free, Nickel Chrome material. 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. Heater shall be fitted with 3/8" compression fittings to eliminate need for soldering. Maximum operating pressure of 150 PSI. Hot water storage tanks prohibited. Unit shall be Eemax or approved equal.

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

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

LavAdvantage

Point-of-use Microprocessor Temperature Control

Specifications

Electric Tankless Hot Water Heater

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

	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**	3.0	15	0.2	14 AWG	102°	59°	41°	20°	10°
C	**SPEX3208T ML**	3.0	15	0.2	14 AWG	102°	59°	41°	20°	10°
C	**SPEX4208T**	4.1	20	0.2	14 AWG	†	80°	56°	28°	14°
C	**SPEX4208T EE**	4.1	20	0.2	14 AWG	†	†	†	28°	14°
C	**SPEX4208T ML**	4.1	20	0.2	14 AWG	†	80°	56°	28°	14°
C	**SPEX4208T S**	4.1	20	0.2	14 AWG	140°	80°	56°	28°	14°
C	**SPEX8208T**	8.3	40	0.2	8 AWG	†	†	†	57°	28°
C	**SPEX8208T EE**	8.3	40	0.2	8 AWG	†	†	†	†	28°
C	**SPEX8208T ML**	8.3	40	0.2	8 AWG	†	†	†	57°	28°
C	**SPEX8208T S**	8.3	40	0.2	8 AWG	†	†	113°	57°	28°
VOLTS 277										
	SPEX3277T	3.0	11	0.2	14 AWG	102°	59°	41°	20°	10°
	SPEX3277T EE	3.0	11	0.2	14 AWG	†	†	41°	20°	10°
	SPEX3277T ML	3.0	11	0.2	14 AWG	102°	59°	41°	20°	10°
	SPEX3277T S	3.0	11	0.2	14 AWG	102°	59°	41°	20°	10°
	SPEX4277T	4.1	14.8	0.2	14 AWG	†	80°	56°	28°	14°
	SPEX4277T EE	4.1	14.8	0.2	14 AWG	†	†	†	28°	14°
	SPEX4277T ML	4.1	14.8	0.2	14 AWG	†	80°	56°	28°	14°
	SPEX4277T S	4.1	14.8	0.2	14 AWG	140°	80°	56°	28°	14°
	SPEX60T	6.0	22	0.2	14 AWG	†	†	82°	41°	20°
	SPEX60T EE	6.0	22	0.2	14 AWG	†	†	†	41°	20°
	SPEX60T ML	6.0	22	0.2	14 AWG	†	†	82°	41°	20°
	SPEX60T S	6.0	22	0.2	14 AWG	†	117°	82°	41°	20°
	SPEX80T	8.0	29	0.2	12 AWG	†	†	†	55°	27°
	SPEX80T EE	8.0	29	0.2	12 AWG	†	†	†	55°	27°
	SPEX80T ML	8.0	29	0.2	12 AWG	†	†	†	55°	27°
	SPEX80T S	8.0	29	0.2	12 AWG	†	†	109°	55°	27°
	SPEX90T	9.0	33	0.2	10 AWG	†	†	†	61°	31°
	SPEX90T EE	9.0	33	0.2	10 AWG	†	†	†	†	31°
	SPEX90T ML	9.0	33	0.2	10 AWG	†	†	†	61°	31°
	SPEX90T S	9.0	33	0.2	10 AWG	†	†	123°	61°	31°
	SPEX100T	10.0	36	0.2	10 AWG	†	†	†	68°	34°
	SPEX100T EE	10.0	36	0.2	10 AWG	†	†	†	†	34°
	SPEX100T ML	10.0	36	0.2	10 AWG	†	†	†	68°	34°
	SPEX100T S	10.0	36	0.2	10 AWG	†	†	137°	68°	34°

* 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.

** Suggested wire size based on copper conductor @ 75°C

† 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.

Suffix Definitions

EE Meets ANSI Z358.1 tepid water requirements. Max. temperature 90°F

ML Multi lavs 0.2 turn on with 110° temp setting

S Sanitation not to exceed 180°