SpecAdvantage™

For Commercial and Industrial Applications

Specifications
Tankless Electric Water Heater

Applications

- Designed for low duty cycle applications where precise temperature controls and low pressure drop are required

Features

- Designed for commercial and industrial applications
- Capable of high volume and high temperature applications at low duty cycle
- Fully modulating - Predictive control algorithm and diverse safety features ensures precise temperature control
- T&P not required per UL499 (check local codes)
- Thermo-Optical Sensor for infrared element monitoring

Optional Features (NEMA cabinet required)

- NEMA 4 cabinets:
  N4 = powdercoated steel
  N4X = 304 stainless steel for corrosion resistance
  N4X6 = 316 stainless steel for maximum corrosion resistance
- FP = Freeze Protection down to -30°F
- EDS = Non-Fused Disconnect Switch
- FDS = Fused Disconnect Switch
- EP = Explosion Proof compliant to Class 1 Division II (C1D2) conditions. For other classifications other than C1D2 contact factory
- GFCI = Ground Fault Circuit Interruptor with True TMS operation, digital display, and reset
- SK =Stand Kit 24" legs for freestanding applications
- RD = Remote Display (compatible with EP option)
- SB = Siren/Beacon audible & visual alarm (compatible with EP option)
- DC = Dry Contact for remote monitoring
- ES = Emergency Stop push button

Product Specifications

Min. Operating Pressure:	35 PSI
Max. Operating Pressure:	150 PSI
Optimum Operating Pressure:	60-90 PSI

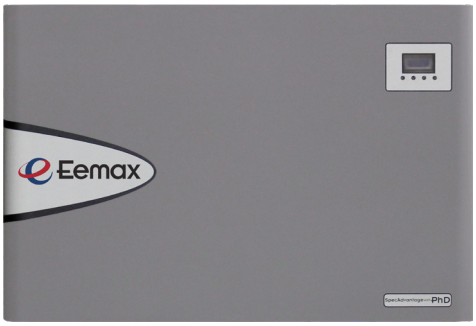
U.S. Patent #'s: US20140023354 and US20140178057

Installation Requirements

- Properly sized water hammer arrestor
- Minimum 35 PSI dynamic pressure at inlet
- Sediment filter installed on inlet
- EP option requires customer-supplied source of inert gas

Special Design Service

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



LISTED LOW LEAD CONTENT

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

EE/EFD models certified by CSA to the ASSE 1085 standard.

Suggested Specification

Tankless water heater shall be an Eemax SpecAdvantage model number AP_____.

Optional factory installation in a ____(N4/N4X/N4X6) enclosure.

Enclosure to be fitted with the following features:

_____ **FP**	Freeze protection (-30°F)
_____ **EDS**	Non-fused disconnect
_____ **FDS**	Fused disconnect
_____ **EP**	Explosion proof (C1D2 compliant)
_____ **GFCI**	True RMS GFCI with digital display and reset
_____ **SK**	24" legs for free standing applications
_____ **RD**	Remote display
_____ **SB**	Siren and Beacon
_____ **DC**	Dry contact
_____ **ES**	Emergency stop - push button

Tankless water heater must have water connections on the bottom, and be constructed with NSF 372 listed materials. Direct heating element to be non-ferrous, cartridge style, designed for field replacement. Tankless water heater to utilize a dual PID algorithm, actively managing power application to real-time system demand. Integrated flow meter capable of volumes in excess of 30 GPM drives predictive control algorithm. Water heater must be protected by redundant safeties. Redundant safeties to include thermo mechanical safety switches, infrared element monitoring via thermo optical sensors, and dual temperature monitoring via master control board. Tankless water heater user interface must have the following capabilities:

- Selectable display including Celsius/Fahrenheit, inlet temperature, outlet temperature, flow rate, and setpoint temperature.
- Capable of displaying flow rate in gallons per minute or liters per minute.
- Diagnostic features to include error and fault code display.
- Control board must maintain error/fault history of 9 events.
- Capable of factory coded temperature setting (max. and min.)
- Capable of firmware upgrades via USB port
- EE and EFD options are ASSE 1085-Certified and conform to ANSI Z358.1 tepid water without additional mixing or purge features (inlet temperatures must not exceed 100°F when selecting an EE or EFD option).

NOTE: For recirculation applications, follow the installation schematics in the installation manual.

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Suffix Definitions

S **Sanitation.** Shipped at 180°F with temp range of 100°F-180°F max.

EE **Emergency Eyewash.** Max. outlet temperature 90°F. Conforms to ANSI Z3581.1 tepid water without additional mixing valve. Shipped with display "Locked."

EFD **Emergency Eye, Face & Drench.** Max. outlet temperature 90°F. Conforms to ANSI Z3581.1 tepid water without additional mixing valve. Shipped with display "Locked."

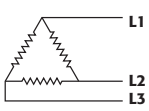
Note: Models with an EE or EFD suffix have a 90°F maximum temperature. Temperature rise data is provided for reference, but temperature is electronically limited to factory preset not to exceed temperature.

	MODEL NUMBER	kW	BTU/H	AMPS PER PHASE	TURN ON (GPM)	RECOMMENDED WIRE SIZE (75° C/CU)	TEMPERATURE RISE °F 3.0 GPM	4.0 GPM	5.0 GPM	6.0 GPM	20.0 GPM	23.0 GPM	26.0 GPM	30.0 GPM
	VOLTS 208 Three Phase Delta													
	AP032208	32	109,189	89	1.0*	3AWG	73°	55°	44°	36°	11°	10°	8°	7°
	AP032208 EE	32	109,189	89	1.0	3 AWG	†	55°	44°	36°	11°	10°	8°	7°
	AP032208 S	32	109,189	89	2.5**	3 AWG	73°	55°	44°	36°	11°	10°	8°	7°
	AP036208	36	122,832	100	1.0*	3 AWG	82°	61°	49°	41°	12°	11°	9°	8°
	AP036208 EE	36	122,832	100	1.0	3 AWG	†	†	49°	41°	12°	11°	9°	8°
	AP036208 S	36	122,832	110	2.5**	3 AWG	82°	61°	49°	41°	12°	11°	9°	8°
	AP041208	41	143,310	113	1.0*	2 AWG	93°	70°	56°	47°	14°	12°	11°	9°
	AP041208 EFD	41	143,310	113	1.0	2 AWG	†	†	56°	47°	14°	12°	11°	9°
	AP041208 S	41	143,310	113	2.5**	2 AWG	93°	70°	56°	47°	14°	12°	11°	9°
	AP054208	54	184,256	150	1.5*	1/0 AWG	†	92°	74°	61°	18°	16°	14°	12°
	AP054208 EFD	54	184,256	150	1.5	1/0 AWG	†	†	†	†	18°	16°	14°	12°
	AP054208 S	54	184,256	150	6.0**	1/0 AWG	123°	92°	74°	61°	18°	16°	14°	12°
	AP064208	64	218,377	178	2.5	3/0 AWG	†	109°	87°	73°	22°	19°	17°	15°
	AP064208 EFD	64	218,377	178	2.5	3/0 AWG	†	†	†	†	22°	19°	17°	15°
	AP064208 S	64	218,377	178	6.0**	3/0 AWG	146°	109°	87°	73°	22°	19°	17°	15°
	VOLTS 480 Three Phase Delta													
	AP036480	36	122,837	43	1.0*	8 AWG	82°	61°	49°	41°	12°	11°	9°	8°
	AP036480 EE	36	122,837	43	1.0	8 AWG	†	†	49°	41°	12°	11°	9°	8°
	AP036480 S	36	122,837	43	2.5**	8 AWG	82°	61°	49°	41°	12°	11°	9°	8°
	AP039480	39	133,074	47	1.0*	8 AWG	89°	67°	53°	44°	13°	12°	10°	9°
	AP039480 EE	39	133,074	47	1.0	8 AWG	†	†	53°	44°	13°	12°	10°	9°
	AP039480 S	39	133,074	47	2.5**	8 AWG	89°	67°	53°	44°	13°	12°	10°	9°
	AP048480	48	163,783	58	1.0*	6 AWG	109°	82°	66°	55°	16°	14°	13°	11°
	AP048480 EFD	48	163,783	58	1.0	6 AWG	†	†	†	55°	16°	14°	13°	11°
	AP048480 S	48	163,783	58	2.5**	6 AWG	109°	82°	66°	55°	16°	14°	13°	11°
	AP054480	54	184,256	65	1.5*	6 AWG	†	92°	74°	61°	18°	16°	14°	12°
	AP054480 EFD	54	184,256	65	1.5	6 AWG	†	†	†	†	18°	16°	14°	12°
	AP054480 S	54	184,256	65	2.5**	6 AWG	123°	92°	74°	61°	18°	16°	14°	12°
	AP063480	63	214,965	76	2.5	4 AWG	†	108°	86°	72°	22°	19°	17°	14°
	AP063480 EFD	63	214,965	76	2.5	4 AWG	†	†	†	†	22°	19°	17°	14°
	AP063480 S	63	214,965	76	6.0**	4 AWG	143°	108°	86°	72°	22°	19°	17°	14°
	AP072480	72	245,674	87	2.5	3 AWG	†	†	98°	82°	25°	21°	19°	16°
	AP072480 EFD	72	245,674	87	2.5	3 AWG	†	†	†	†	25°	21°	19°	16°
	AP072480 S	72	245,674	87	6.0**	3 AWG	†	123°	98°	82°	25°	21°	19°	16°
	AP096480	96	327,552	116	2.5	1 AWG	†	†	†	109°	33°	29°	25°	22°
	AP096480 EFD	96	327,552	116	2.5	1 AWG	†	†	†	†	33°	29°	25°	22°
	AP096480 S	96	327,552	116	6.0**	1 AWG	†	†	131°	109°	33°	29°	25°	22°
	AP108480	108	368,511	130	2.5	1 AWG	†	†	†	†	37°	32°	28°	25°
	AP108480 EFD	108	368,511	130	2.5	1 AWG	†	†	†	†	37°	32°	28°	25°
	AP108480 S	108	368,511	130	6.0**	1 AWG	†	†	148°	123°	37°	32°	28°	25°
	AP126480	126	429,930	151	2.5	2/0 AWG	†	†	†	†	43°	37°	33°	29°
	AP126480 EFD	126	429,930	151	2.5	2/0 AWG	†	†	†	†	43°	37°	33°	29°
	AP126480 S	126	429,930	151	6.0**	2/0 AWG	†	†	†	143°	43°	37°	33°	29°
C	**AP144480**	144	491,348	173	2.5	2/0 AWG	†	†	†	†	49°	43°	38°	33°
C	**AP144480 EFD**	144	491,348	173	2.5	2/0 AWG	†	†	†	†	49°	43°	38°	33°
C	**AP144480 S**	144	491,348	173	6.0**	2/0 AWG	†	†	†	†	49°	43°	38°	33°
	VOLTS 600 Three Phase Delta													
C	**AP061600 EFD**	61	208,141	59	2.5	6 AWG	†	†	†	†	21°	18°	16°	14°
C	**AP071600 EFD**	71	242,262	68	2.5	4 AWG	†	†	†	†	24°	21°	19°	16°
C	**AP102600 EFD**	102	348,038	98	2.5	3 AWG	†	†	†	†	35°	30°	27°	23°
C	**AP130600 EFD**	130	443,578	125	2.5	1 AWG	†	†	†	†	44°	39°	34°	30°
C	**AP150600 EFD**	150	511,821	144	2.5	1/0 AWG	†	†	†	†	51°	45°	39°	34°

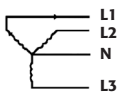
* Units with a 1.0 or 1.5 GPM turn-on are limited to 120°F only. Contact Eemax support for applications above 120°F.
† Temperature electronically limited to factory preset temperature.
"C" indicates evaluation and compliance to either Underwriters Laboratories (UL) or Intertek (ETL) under CAN/CSA-C22.2 No. 64/No. 88.
** Contact Eemax for applications requiring lower turn on.

Electrical configuration and requirements

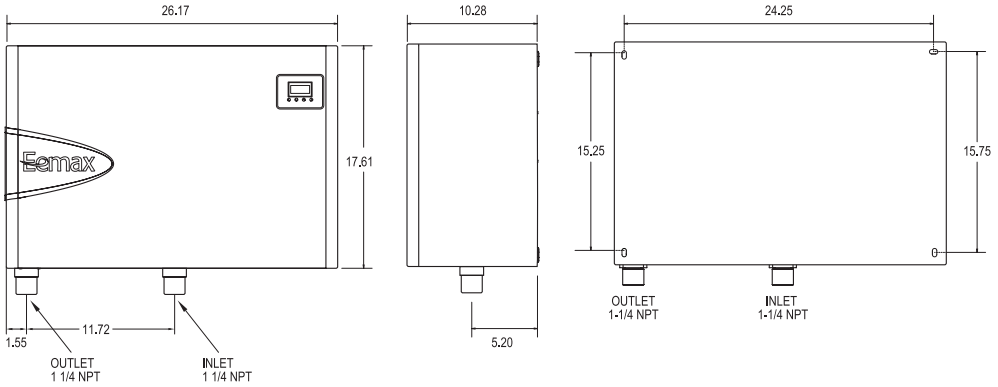
All Eemax three phase units are custom made to order and as such, are non-returnable and non-refundable. Check your electrical supply, making sure all criteria for operating your Eemax water heater are met.



SpecAdvantage is compatible with both Delta and Wye electrical configuration requirements. When installing SpecAdvantage to a Wye electrical configuration, the neutral leg is not used.



Base Model Dimensions



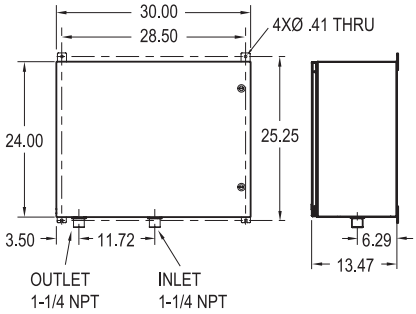
65 lb
Designed for wall mount installation.

NEMA Cabinet Options*

Dimensions: 24″H x 30″W x 13.5″D

N4	Powder coated steel
N4X	Corrosion-resistant 304 stainless steel
N4X6	Corrosion-resistant 316 stainless steel

Est. total weight 130 lb
Designed for wall mounted installation. Free standing legs and other options available



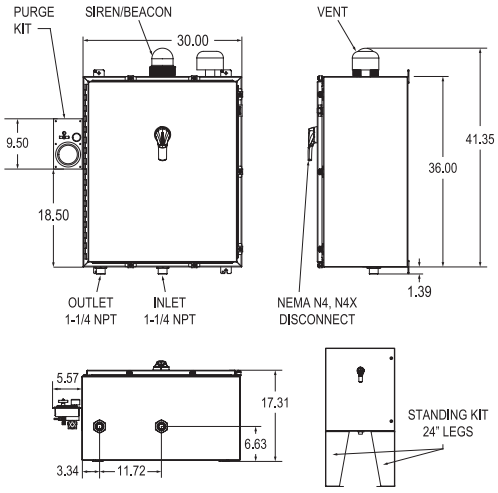
NEMA Cabinet Options Accessories

Dimensions: 36″H x 30″W x 17.3″D

FP	Freeze protection (-30°F)
EDS	Non-fused disconnect
FDS	Fused disconnect
EP	Explosion proof (C1D2 compliant)
GFCI	True RMS GFCI with digital display and reset
SK	24″ legs for free standing applications
RD	Remote display
SB	Siren and Beacon
DC	Dry contact
ES	Emergency stop - push button

Est. total weight 225 lb, varies based on options.
Designed for wall mounted installation. Free standing legs and other options available.

*Refer to page 47 of this specification guide for more details regarding selection.



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