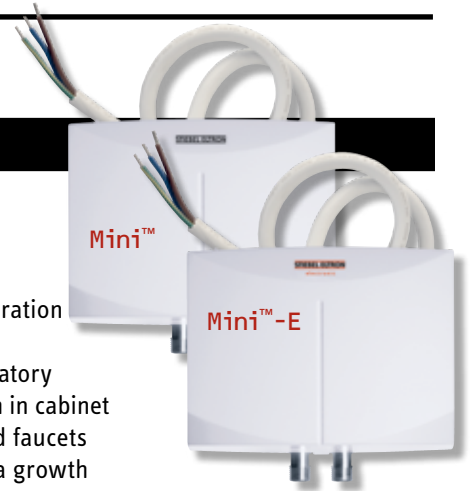


## Mini™ & Mini™-E Electric Tankless Water Heaters

- › Compact point-of-use model for warm water hand washing at a sink
- › Thermostatic models and mechanical models available

### Features

- › Continuous supply of warm water on demand
- › High limit switch with manual reset
- › Easy installation 3/8" O.D. flex connections
- › Engineered in Germany to be the best
- › Exclusive design prevents dry firing
- › No T&P relief valve needed (Check local code)
- › 10-year leakage/3-year parts warranty
- › Comes complete with wire pigtail
- › Advanced Direct Coil Technology™
- › Correctly sized aerator supplied with unit
- › No standby heat loss with tankless design
- › 99% efficiency
- › Flow switch activated for virtually silent operation
- › Mounts on wall at point-of-use
- › Cold water only line needed to be run to lavatory
- › Compact and designed to be visible or hidden in cabinet
- › Compatible with sensor actuated or metered faucets
- › Tankless design prevents Legionella bacteria growth



- › Mounts with water connections up or down
- › Mounts above or below fixture

### Applications

**Commercial > Industrial > Institutional**

- › Office buildings
- › Stores
- › Malls
- › Warehouses
- › Gas stations
- › Schools
- › Hotels/Motels
- › Restaurants
- › Manufacturing facilities
- › Commercial condominiums

**Residential**

- › Bathroom sinks
- › Kitchen sinks
- › Laundry areas
- › Cabins/cottages

**Mini™-E is a code-compliant thermostatic model with electronically controlled output temperature.**

### Specification

The tankless electric water heater shall be equipped with a direct coil nichrome type heating element housed in fiberglass reinforced high temperature plastic containment. The housing of the unit shall be made of high impact polycarbonate plastic. The flow switch that operates the heating element shall be of the mechanical pressure differential type. The unit shall be equipped with a safety high-limit switch with manual reset. The water connections shall be designed for standard 3/8" O.D. flexible braided stainless steel hose type connectors. The unit shall be mounted with water connections facing either top or bottom only. The units shall ship with a AWG #12 wire harness with a length of 2 ft. The unit shall be certified to ANSI ANSI/UL Std. 499 and shall conform to CAN/CSA E335-1 & E335-2-35 (Mini™ models) or CAN/CSA Std. C22.2 No. 64 (Mini™-E models).

Engineer/Architect _____	Date _____			
Job Name/Customer _____	Location _____			
Contractor _____	Representative _____			
Qty	kW	Voltage	Amps	GPM
Mini™ model _____	_____	_____	_____	_____

# Specifications

## Technical Data



Certified to ANSI/UL Std. 499  
Mini™: Conforms to CAN/CSA E335-1 & E335-2-35  
Mini™-E: Conforms to CAN/CSA Std. C22.2 No. 64



Tested and certified by WQA  
against NSF/ANSI 372 for  
lead free compliance.



Mechanical models:	Mini™ 2-1 231045	Mini™ 2.5-1 232098	Mini™ 3-1 220816	Mini™ 3.5-1 232099	Mini™ 4-2 222039	Mini™ 6-2 220817
Thermostatic models:	Mini™-E 2-1 236011	Mini™-E 2.5-1 236135	Mini™-E 3-1 236010	Mini™-E 3.5-1 236136	Mini™-E 4-2 236009	Mini™-E 6-2 236008
<b>Phase</b> - 50/60 Hz	1					
<b>Voltage</b> <sup>1</sup>	120 V	120 V	120 V	120 V	240 V or 208 V	240 V or 208 V
<b>Wattage</b>	1.8 kW	2.4 kW	3.0 kW	3.5 kW	3.5 kW   2.6 kW	5.7 kW   4.3 kW
<b>Amperage draw</b>	15 A	20 A	25 A	29 A	15 A   13 A	24 A   21 A
<b>Min. recommended circuit breaker size</b> <sup>2</sup>	15 A (SP)	20 A (SP)	25 A (SP)	30 A (SP)	15 A (DP)	25 A (DP)
<b>Min. recommended wire size</b> <sup>3</sup> (copper)	14/2 AWG	12/2 AWG	10/2 AWG	10/2 AWG	14/2 AWG	10/2 AWG
<b>Min. flow to activate</b>						
Mechanical units	0.21 gpm (0.8 l/min)	0.40 gpm (1.5 l/min)	0.40 gpm (1.5 l/min)	0.40 gpm (1.5 l/min)	0.40 gpm (1.5 l/min)	0.77 gpm (2.9 l/min)
Thermostatic units	0.21 gpm (0.8 l/min)	0.30 gpm (1.15 l/min)	0.30 gpm (1.15 l/min)	0.30 gpm (1.15 l/min)	0.30 gpm (1.15 l/min)	0.48 gpm (1.8 l/min)
<b>Water temp. range</b>	Electronic units are adjustable from 86-122 °F (30-50 °C)					
<b>Energy Factor (EF)</b> (Mechanical / Thermostatic)	0.98 / 0.97 (UEF)	1.0 / 0.99	0.99 / 0.99	0.99 / 0.99	0.99 / 1.0	0.99 / 1.0
<b>Weight</b>	3.44 lb (1.56 kg)					
<b>Dimensions</b>	Width 7½" (19.0 cm) x Height 6½" (16.5 cm) x Depth 3¼" (8.2 cm)					
<b>Water volume in unit</b>	0.026 gal (0.1 l)					
<b>Minimum pressure</b>	30 psi (2 bar)					
<b>Working pressure</b>	150 psi (10 bar)					
<b>Tested to pressure</b>	300 psi (20 bar)					
<b>Water connections</b> <sup>4</sup>	¾" O.D. flexible braided stainless steel hose connectors					

Mini™ 2-1 is internally restricted to 0.32 gpm (1.2 l/min). Mini™-E 2-1 is internally restricted to 0.40 gpm (1.5 l/min).

All Mini™ models ship with appropriately sized pressure compensating flow-reducer/aerators that must be installed.

<sup>1</sup> Nominal mains voltage is 110-120V and 220-240V.

<sup>2</sup> This is our recommendation for overcurrent protection sized at 100% of load. Check local codes for compliance if necessary.  
Tankless water heaters are considered a non-continuous load.

<sup>3</sup> Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

<sup>4</sup> Mechanical units suitable for supply with cold water only. Thermostatic units can accept inlet water of 122 °F.

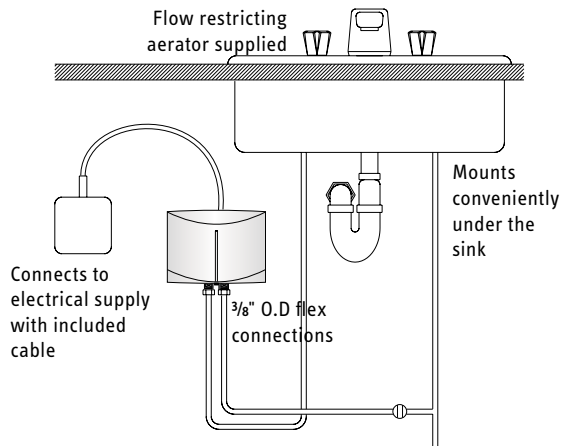
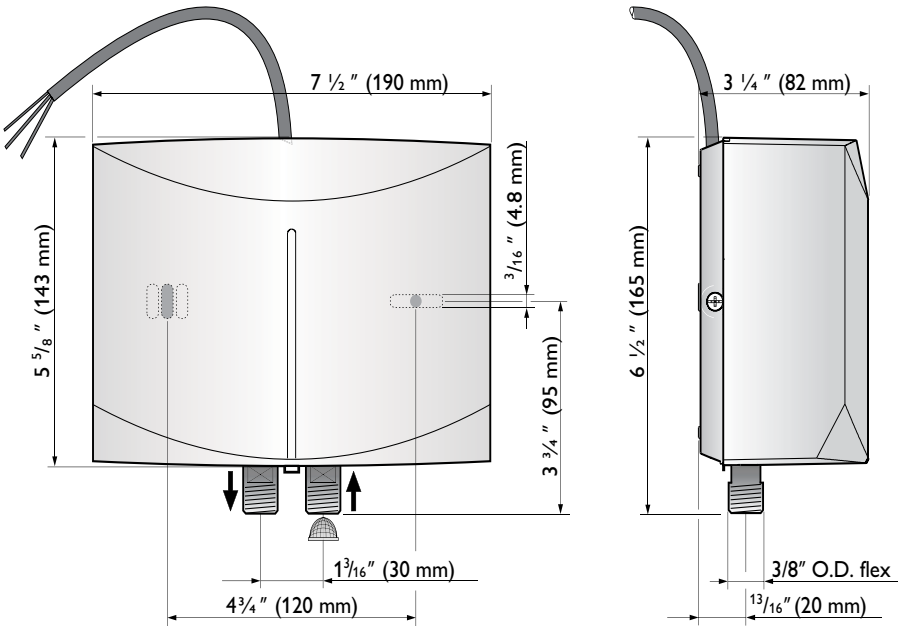
- › Mini™ models suitable for inlet cold water supply only.
- › Mini™-E models suitable for supply inlet max. 122 °F.
- › Mini™ 2-1 internally restricted to 0.32 gpm
- › Mini™-E 2-1 internally restricted to 0.40 gpm

Temp. rise above incoming water temp. (°F)  
(GPM = kW x 6.83 / Δt)

Temp. rise above incoming water temp. (°C)

Model	Heating Capacity	GPM								l/min							
		0.32	0.42	0.48	0.53	0.69	0.85	1.06	1.14	1.2	1.6	1.8	2.0	2.6	3.2	4.0	4.3
Mini-E 2-1	1.8 kW @ 110-120 V	39	-	-	-	-	-	-	-	22	-	-	-	-	-	-	-
Mini-E 2.5-1	2.4 kW @ 110-120 V	51	39	34	30	24	19	15	14	28	22	19	17	13	11	8	8
Mini-E 3-1	3.0 kW @ 110-120 V	64	49	43	38	30	24	19	18	36	27	24	21	17	13	11	10
Mini-E 3.5-1	3.5 kW @ 110-120 V	75	57	50	45	35	28	22	21	42	32	28	25	19	16	12	12
Mini-E 4-2	2.6 kW @ 208 V	55	42	37	33	25	20	16	15	31	23	21	18	14	11	9	8
	3.5 kW @ 220-240 V	75	57	50	45	35	28	22	21	42	32	28	25	19	16	12	12
Mini-E 6-2	4.3 kW @ 208 V	-	-	61	55	42	34	27	25	-	-	34	31	23	19	15	14
	5.7 kW @ 220-240 V	-	-	81	73	56	45	36	34	-	-	45	41	31	25	20	19

# Dimensions



- › Suitable for warm water hand washing at a single sink
- › Mini™ models suitable for inlet cold water supply only.
- › Mini™-E models suitable for supply inlet max. 122 °F.



Intertek

Certified to ANSI/UL Std. 499

Mini™:

Conforms to CAN/CSA E335-1 & E335-2-35

Mini™-E:

Conforms to CAN/CSA Std. C22.2 No. 64



Tested and certified by WQA against NSF/ANSI 372 for lead free compliance.

ISO 9001 CERTIFIED



