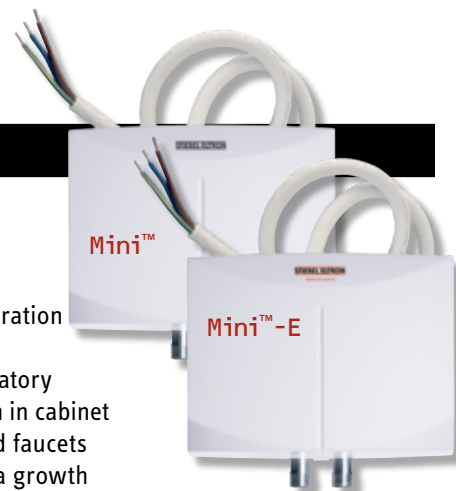


- › Compact point-of-use model for warm water hand washing at a sink
- › Thermostatic models and mechanical models available

- › 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

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.

The electric tankless 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 UL Std. 499 and shall conform to CAN/CSA Std. C22.2 No. 60335-1, E60335-2-35 (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
Mini™ model	_____	_____	_____	_____

Specifications

MECHANICAL MODELS › Item no.	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 › Item no.	Mini™-E 2-1 236011	Mini™-E 2.5-1 236135	Mini™-E 3-1 236010	Mini™-E 3-3 206427	Mini™-E 3.5-1 236136	Mini™-E 4-2 236009	Mini™-E 4-3 206428	Mini™-E 6-2 236008	Mini™-E 6-3 206429
Phase - 50/60 Hz	1								
Voltage ¹	120 V	120 V	120 V	277 V	120 V	240 V or 208 V	277 V	240 V or 208 V	277 V
Wattage	1.8 kW	2.4 kW	3.0 kW	3.0 kW	3.5 kW	3.5 kW 2.6 kW	4.1 kW	5.7 kW 4.3 kW	5.5 kW
Amperage draw	15 A	20 A	25 A	11 A	29 A	15 A 13 A	15 A	24 A 21 A	20 A
Min. recommended circuit breaker size ²	15 A (SP)	20 A (SP)	25 A (SP)	15 A (SP)	30 A (SP)	15 A (DP)	15 A (SP)	25 A (DP)	20 A (SP)
Min. recommended wire size ³ (copper)	14/2 AWG	12/2 AWG	10/2 AWG	14/2 AWG	10/2 AWG	14/2 AWG	14/2 AWG	10/2 AWG	12/2 AWG
Min. flow to activate									
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	0.30 GPM 1.15 l/min	0.30 GPM 1.15 l/min	0.48 GPM 1.8 l/min	0.30 GPM 1.15 l/min
Water temp. range	Electronic units are adjustable from 86-122 °F / 30-50 °C								
Dimensions & Weight	H 6½" (165 mm) x W 7½" (190 mm) x D 3¼" (82 mm) 3.44 lb (1.56 kg)								
Water volume in unit	0.026 gal (0.1 l)								
Working pressure	150 psi (10 BAR)								
Tested to pressure	300 psi (20 BAR)								
Water connections ⁴	¾" O.D. flexible braided stainless steel hose connectors								
Uniform Energy Factor (UEF) (Mechanical / Thermostatic)	0.99 / 0.98	0.96 / 0.97	0.94 / 0.97	0.97	0.93 / 0.97	0.95 / 0.99	TBD	0.94 / 0.98	TBD
UEF recovery efficiency	98%								

ELECTRICAL RESISTIVITY & CONDUCTIVITY⁵

Standard specification at	≤77 °F (25 °C)	>77 °F (25 °C)
Minimum resistivity ρ ≥	1000 Ωcm	1300 Ωcm
Maximum conductivity σ ≤	100 mS/m / 1000 μS/cm	76.9 mS/m / 769 μS/cm

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.

Mini™ 2-1 & Mini™-E 2-1 ship with a 0.35 GPM pressure compensating flow-reducer/aerator that must be installed.

Mini™ 2.5-1, 3-1 & Mini™-E 2.5-1, 3-1, 3-3, 3.5-1, 4-2, 4-3 ship with a 0.5 GPM pressure compensating flow-reducer/aerator that must be installed.

Mini™ 3.5-1, 4-2 ship with a 0.66 GPM and a 0.5 GPM pressure compensating flow-reducer/aerator. One must be installed based on desired output temperature.

Mini™ 6-2 ships with a 1.0 GPM pressure compensating flow-reducer/aerator that must be installed.

Mini™-E 6-2, 6-3 ship with two 0.5 GPM pressure compensating flow-reducer/aerators that must be installed, plus an additional 1.0 GPM pressure compensating flow-reducer/aerator for use if plumbed to 1 sink.

¹ Nominal mains voltage is 110-120V and 220-240V.

² Overcurrent protection sized at 100% of load. Tankless water heaters are considered a non-continuous load.

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

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

⁵ Do not connect to a salt-regenerated water softener or a water supply of salt water.

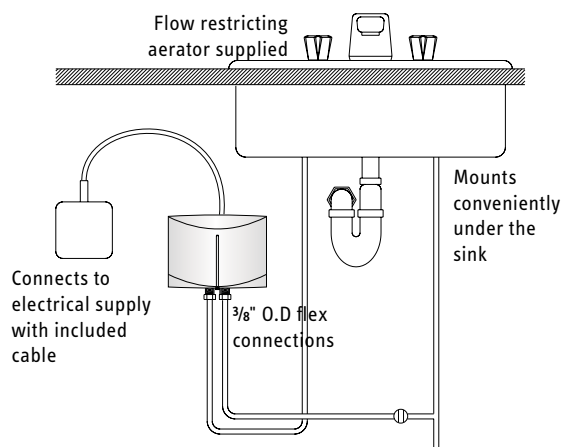
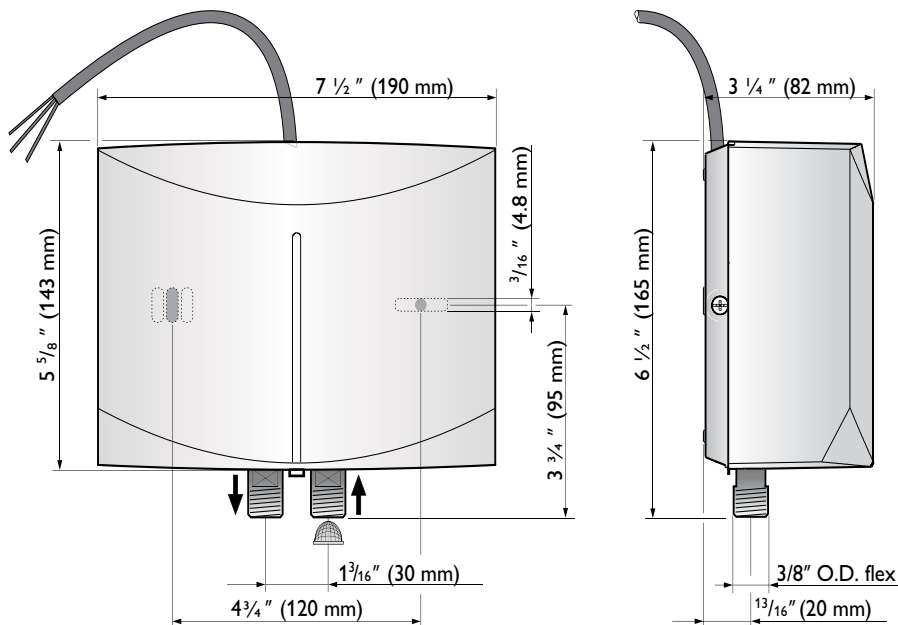
These are our recommendations. Check local codes for compliance if necessary.

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

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

Unit	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 3-3	3.0 kW @ 277 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 4-3	4.1 kW @ 277 V	87	67	58	53	41	33	26	25	48	37	32	29	23	18	14	14
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
Mini-E 6-3	5.5 kW @ 277 V	117	89	78	71	54	44	35	33	65	49	43	39	30	24	19	18

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

Conforms to UL Std. 499

Mini™:

Certified to CAN/CSA Std.

C22.2 No. 60335-1, E60335-2-35

Mini™-E:

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

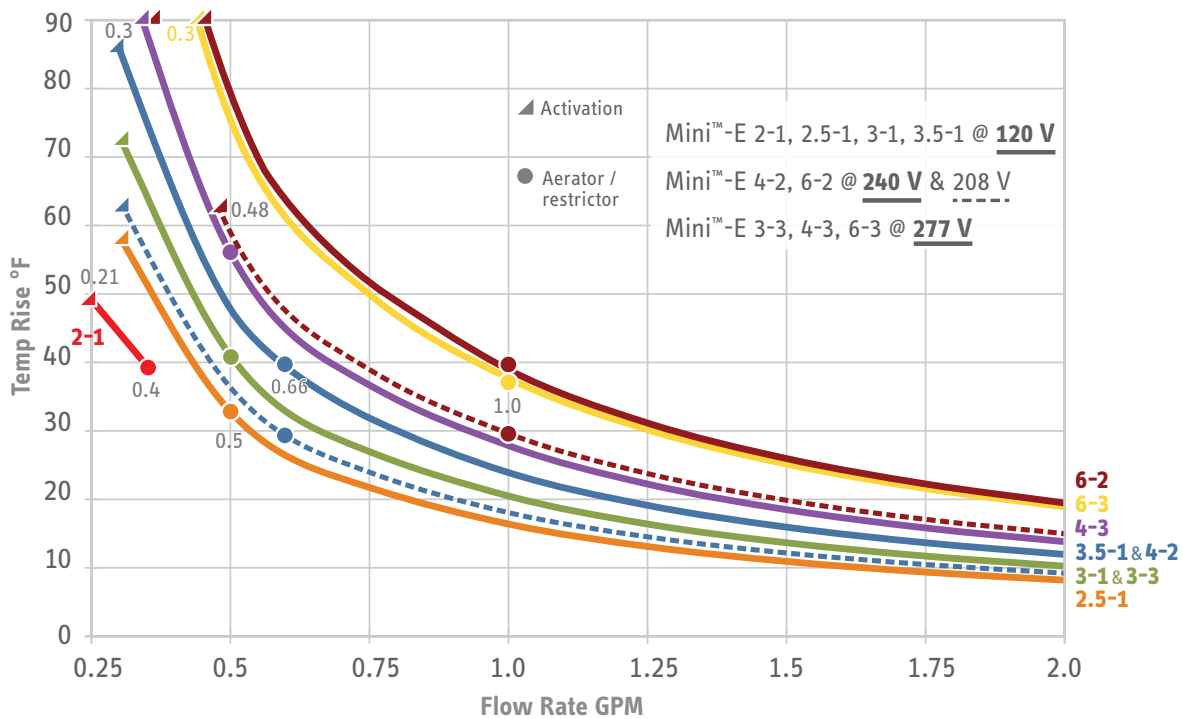


Tested and certified by WQA against NSF/ANSI/CAN 372 for lead free compliance.

ISO 9001
CERTIFIED



Mini™-E Temperature Rise vs. Flow Rate



Mini™ Temperature Rise vs. Flow Rate

