STIEBEL ELTRON

Mini™ Series

Thermostatic & mechanical point-of-use electric tankless for handwashing

› Robust, trouble-free, & proven Direct Coil™ Heating Technology

› Self-cleaning element resists limescale

› Unlimited supply of warm water

› Compact design can be mounted above or below fixture with fittings pointing up or down

› Dry-fire prevention and high limit manual reset

MADE IN GERMANY
FINAL ASSEMBLY IN U.S.A.

Intertek

ISO 9001 CERTIFIED

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

10/3 YEAR LIMITED WARRANTY

Comfort through Technology

800.582.8423

www.stiebel-eltron-usa.com

Small & Reliable Water Heating for Handwashing

Simple and easy to install
Mini™ water heaters can be located above or below the fixture with water connections pointing up or down. No pressure relief valve, drains, or circulating pumps are needed.

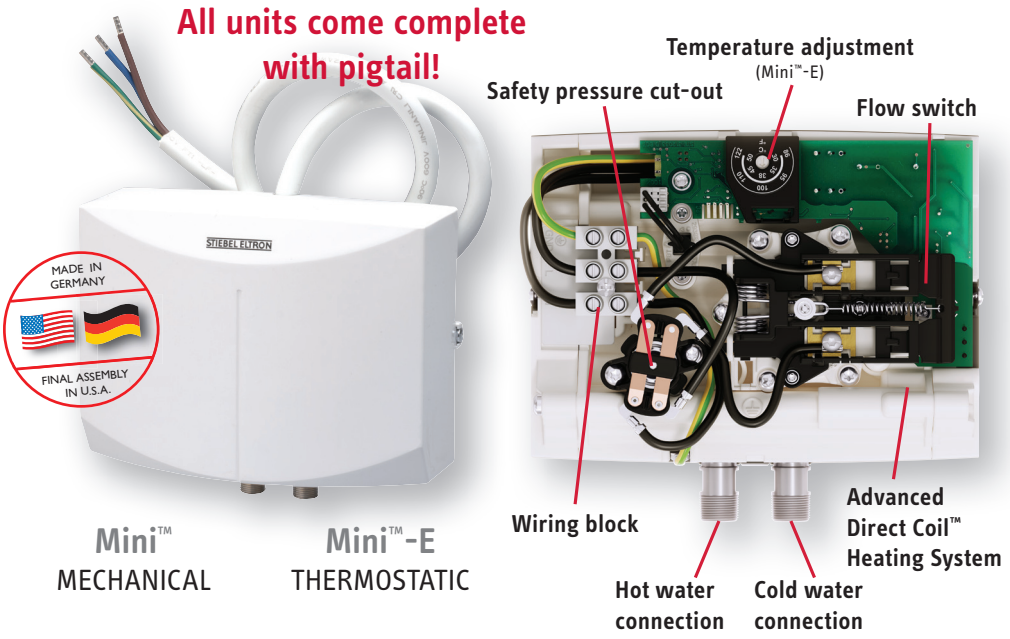
Industry-leading dry-fire protection
Flow switch control ensures a Mini™ will not dry-fire. Additionally, all Mini™ water heaters are equipped with a safety high-limit with manual reset for the utmost in safety. The combination of meticulous German engineering and the best available materials ensures that every Mini™ is the highest quality. Nobody can compare with our exceptional reliability record and customer support services!

Scale-resistant Direct Coil™ Technology
The Mini™ was the first of our tankless water heaters in the U.S. and Canada to feature our Direct Coil™ heating system. The efficient nichrome heating elements contained in the glass-fiber reinforced heating chamber are designed to silently vibrate on each start-up. This self-cleaning action confers superior limescale resistance and increased longevity. Designed for many years of trouble-free service. installation after installation has proven the Mini™ has the lowest failure rates of any tankless water heater in the industry.

10/3 YEAR LIMITED WARRANTY
10 years leakage/ 3 years parts. Complete warranty online.

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

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



Mini™ MECHANICAL

Mini™-E THERMOSTATIC

Thermostatic Mini™-E Models

Mini™-E thermostatic water heaters are electronically controlled versions of our famous mechanical Mini™ water heaters.

The thermostatic electronic control gives them additional features beyond the capabilities of the mechanical Mini™ models.

Code-compliant warm water output
The electronic control board in conjunction with an automatic flow rate control allows Mini™-E models to maintain an accurate outlet water temperature, even with pressure fluctuations in the water supply. This makes them eligible for installation where output temperatures must be limited by code.

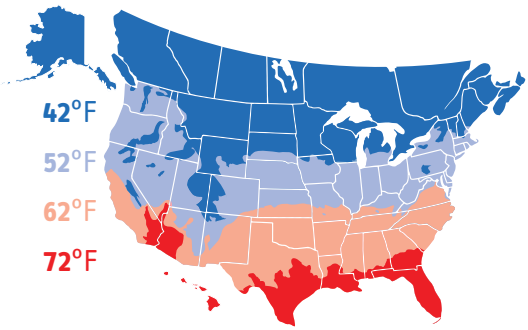
Adjustable output temperatures
Mini™-E models are factory set to deliver water at 100 °F (38 °C), but can be field adjusted to a different temperature by the installer and secured to the new setting.

Multiple sink capability
Mini™-E models 6-2 and 6-3 can be plumbed to supply warm water for hand washing to two sinks in warm climates.

Booster capability
Because the Mini™-E accepts incoming water up to 122 °F (50 °C), it's a perfect booster for a sink far from the main hot water source. It will supply warm water almost immediately and will shut off once hot water arrives from the remote source and the boost is no longer needed. Its small size can be an asset for installation.




This guide shows possible point-of-use fixture or fixtures for use with each Mini™ or Mini™-E. Use actual achievable flow rates to determine if a particular model and size will deliver the temperature and flow rate required for the installed fixture.



FIXTURES & FLOW RATES

SHOWING POSSIBLE MODEL SUITABILITY	TEMP. FOR MAX. FLOW RATE CALCULATION
SINGLE LAV SINK (Range 0.5-1.5)	90°F
MULTIPLE SINKS Number varies	

Inlet water temperatures shown are an average for each zone, and may vary both seasonally and by exact location.

Mini™ electric tankless water heaters are the ideal choice for point-of-use handwashing applications.

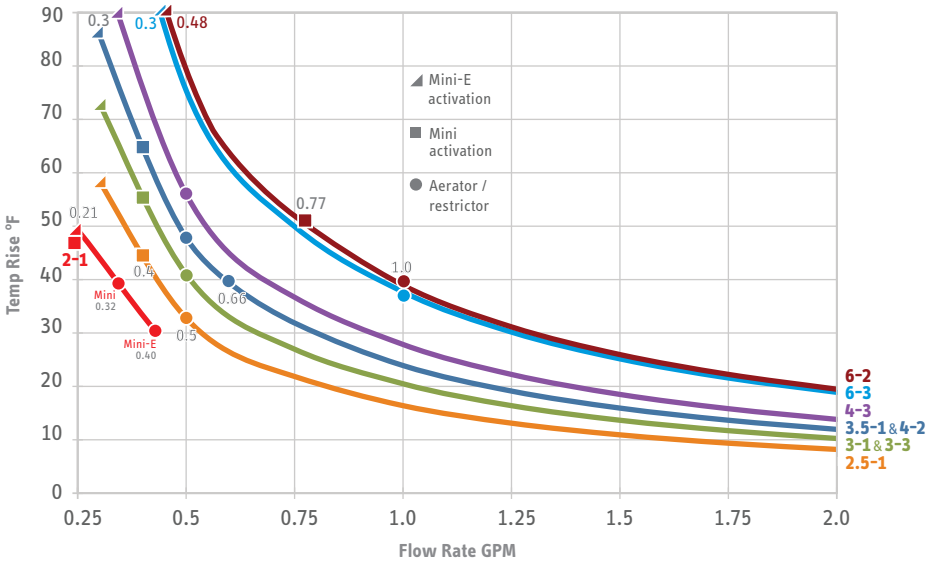
The Mini™ has been sold in the U.S. for closing in on 20 years, and in Europe for longer. For all of those years the failure rate has been less than one-half of one percent. Ask the competition what their failure rate is.

STIEBEL ELTRON

Sizing Guide

	42°F	52°F	62°F	72°F
Mini™ 2-1 / Mini™-E 2-1 | Min. activation 0.21 GPM | Internally restricted to 0.32 / 0.40 GPM				
MAX. FLOW RATE	0.3 GPM	0.3 GPM	0.3 / 0.4 GPM	0.3 / 0.4 GPM
POSSIBLE FIXTURE TYPES				
Mini™ 2.5-1 | Min. activation 0.40 GPM **Mini™-E 2.5-1** | Min. activation 0.30 GPM				
MAX. FLOW RATE	0.3 GPM	0.4 GPM	0.6 GPM	0.9 GPM
POSSIBLE FIXTURE TYPES	Mini-E only			
Mini™ 3-1 | Min. activation 0.40 **Mini™-E 3-1** OR **Mini™-E 3-3** | Min. activation 0.30 GPM				
MAX. FLOW RATE	0.4 GPM	0.5 GPM	0.7 GPM	1.1 GPM
POSSIBLE FIXTURE TYPES				
Mini™ 3.5-1 OR **Mini™ 4-2** | Min. activation 0.40 **Mini™-E 3.5-1** OR **Mini™-E 4-2** OR **Mini™-E 4-3** | Min. activation 0.30 GPM				
MAX. FLOW RATE	0.5 GPM	0.6 GPM	0.85 GPM	1.3 GPM
POSSIBLE FIXTURE TYPES				
Mini™-E 6-3 | Min. activation 0.30 GPM				
MAX. FLOW RATE	0.8 GPM	1 GPM	1.3 GPM	2.1 GPM
POSSIBLE FIXTURE TYPES				
Mini™ 6-2 | Min. activation 0.77 GPM **Mini™-E 6-2** | Min. activation 0.48 GPM				
MAX. FLOW RATE	0.8 GPM	1 GPM	1.4 GPM	2.2 GPM
POSSIBLE FIXTURE TYPES				Mini: 1 sink; Mini-E: 1 or 2 sinks

Temperature Rise vs. Flow Rate at Max Rated Voltage



STIEBEL ELTRON

Technical Data

MECHANICAL MODELS › Item no. THERMOSTATIC MODELS › Item no.	Mini™ 2-1 231045 Mini™-E 2-1 236011	Mini™ 2.5-1 232098 Mini™-E 2.5-1 236135	Mini™ 3-1 220816 Mini™-E 3-1 236010	Mini™-E 3-3 206427	Mini™ 3.5-1 232099 Mini™-E 3.5-1 236136	Mini™ 4-2 222039 Mini™-E 4-2 236009	Mini™-E 4-3 206428	Mini™ 6-2 220817 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]	⅜″ O.D. flex connector or ⅜″ compression fitting								
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	0.97	0.94 / 0.98	0.96
UEF recovery efficiency	98%								

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. Caution: connect only to a circuit protected by a class A ground fault interrupter.

[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.

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

10/3 YEAR LIMITED WARRANTY

10 years leakage & 3 years parts. Complete warranty online.

All units come complete with pigtail!

STIEBEL ELTRON

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Due to our continuous process of engineering and technological advancement, specifications may change without notice.

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