

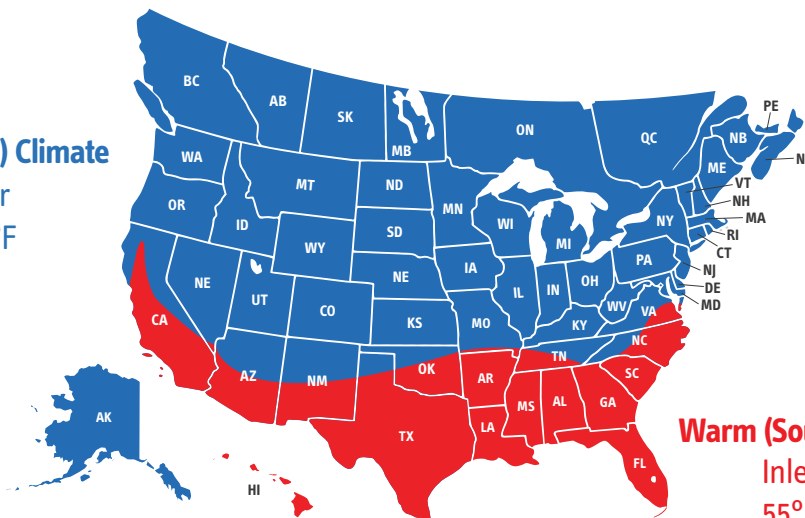
Tempra® Sizing Guide and Technical Data

Tempra® Tankless Electric Water Heater Sizing Guide

BATHROOMS IN HOUSE / CONDO	TEMPRA® MODEL					
	12 / 12 Plus	15 / 15 Plus	20 / 20 Plus	24 / 24 Plus	29 / 29 Plus	36 / 36 Plus
1 Bath						
1 Bath						
2 Baths						
2 Baths						
3 Baths						
3 Baths						
4 Baths			Install 2	Install 2		
4 Baths				Install 2		

Cool (Northern) Climate

Inlet water
45°F - 55°F



Warm (Southern) Climate

Inlet water
55°F - 70°F

These recommendations are for units installed with 240 V service.
Increase one model size if unit will be installed with 208 V service.

Call Stiebel Eltron at 800.582.8423 if you have any sizing questions, or if you have high flow showers, or another out-of-the-ordinary situation. Stiebel Eltron service representatives can make recommendations on sizing, or provide assistance with our water heaters, to both homeowners and professional installers.

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Technical Data



The Tempra® series is tested and certified by WQA against NSF/ANSI 372 for lead free compliance.



Tempra® Model		12 / 12 Plus		15 / 15 Plus		20 / 20 Plus		24 / 24 Plus ³		29 / 29 Plus ³		36 / 36 Plus ⁴	
Item Number		223420 / 224196		223421 / 224197		223422 / 224198		223424 / 224199		232885 / 223425		232886 / 223426	
Phase		single		single		single		single		single ⁵		single ⁵	
Voltage	V	208	240	208	240	208	240	208	240	208	240	208	240
Wattage	kW	9	12	10.8	14.4	14.4	19.2	18	24	21.6	28.8	27	36
Amperage Draw (see below for recommended breaker size)	A	44	50	2 x 26	2 x 30	2 x 35	2 x 40	2 x 44	2 x 50	3 x 35	3 x 40	3 x 44	3 x 50
Recommended circuit breaker size ¹	A	60	60	2 x 40	2 x 40	2 x 50	2 x 50	2 x 60	2 x 60	3 x 50	3 x 50	3 x 60	3 x 60
Recommended wire size ²	AWG	6	6	2 x 8	2 x 8	2 x 8	2 x 8	2 x 6	2 x 6	3 x 8	3 x 8	3 x 6	3 x 6
Maximum temperature increase above ambient water temp.	@ 1.50 GPM	41	54	49	65	66	88	82	92	92	92	92	92
	@ 2.25 GPM	27	36	37	43	44	58	54	73	66	87	82	92
	@ 3.00 GPM	20	27	25	33	33	44	41	54	49	66	61	82
	@ 4.50 GPM	-	-	-	-	22	29	27	37	33	44	41	55
Min. water flow to activate unit	GPM / l/min	0.37 / 1.4		0.58 / 2.2		0.58 / 2.2		0.58 / 2.2		0.87 / 3.3		0.87 / 3.3	
Weight	lb / kg	13.2 / 6.1		15.4 / 7.3		15.4 / 7.3		15.4 / 7.3		17.6 / 8.6		17.6 / 8.6	
Nominal water volume	Gal	0.13 / 0.5		0.26 / 1.0		0.26 / 1.0		0.26 / 1.0		0.39 / 1.5		0.39 / 1.5	
Max. inlet water temperature		131°F / 55°C											
Dimensions		16 ⁵ / ₈ " / 42.0 cm width x 14 ¹ / ₂ " / 36.9 cm height x 4 ⁵ / ₈ " / 11.7 cm depth											
Working pressure		150 PSI / 10 BAR											
Tested to pressure		300 PSI / 20 BAR											
Water connections		¾" NPT											

¹ This is our recommendation as the manufacturer. Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.

² Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

³ Requires a 200A main service. ⁴ Requires a 300A main service. ⁵ 29/Plus & 36/Plus may be wired for 3-phase 208V.

