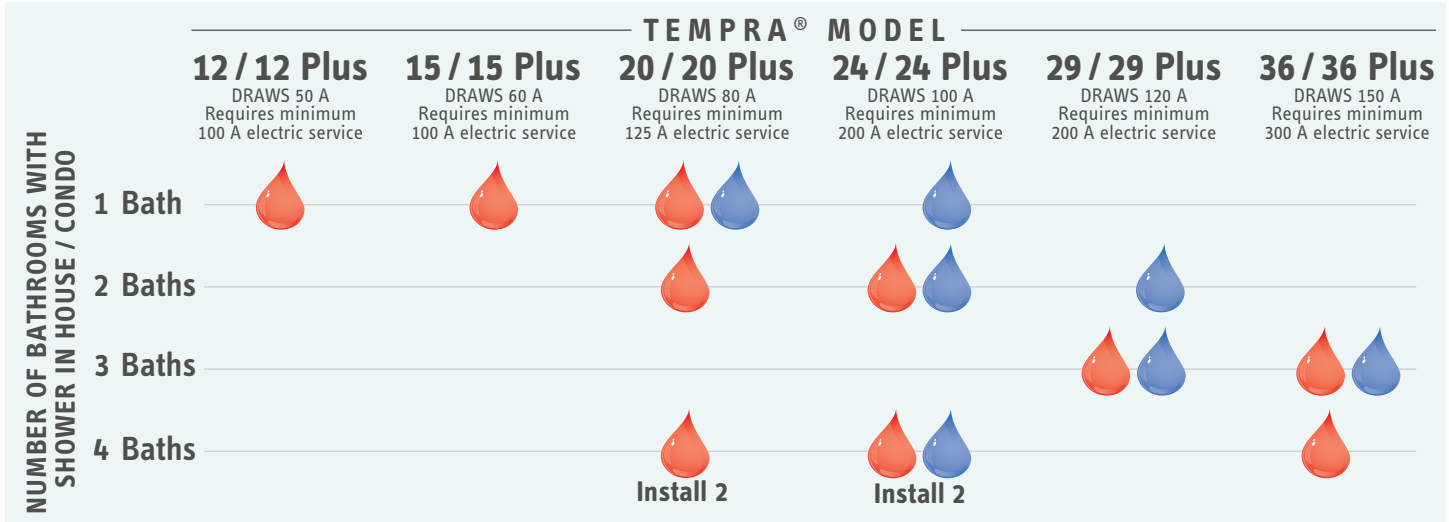

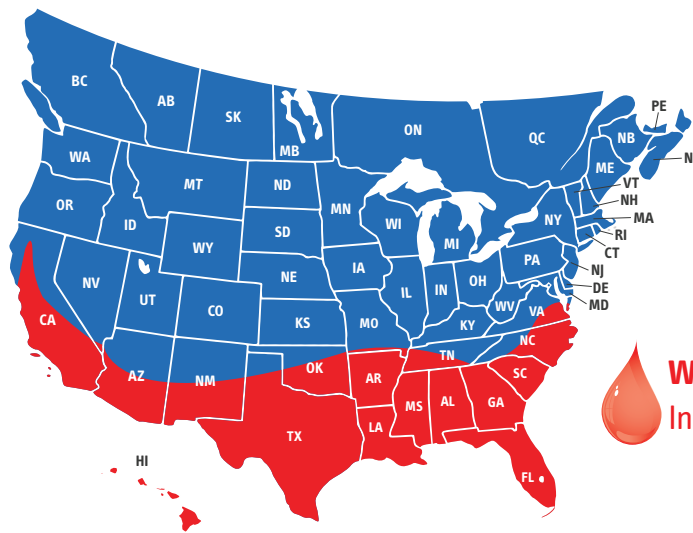


### Tempra® Sizing Guide and Technical Data

## Tempra® Sizing Guide Whole House Tankless Electric Water Heater



 **Cool (Northern) Climate**  
Inlet water 45°F - 55°F



 **Warm (Southern) Climate**  
Inlet water 55°F - 70°F

Recommendations are correct if unit is 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.

Technical data and temp. rise charts on next page. ↓

### Tempra® Sizing Guide and Technical Data

#### Technical Data



Certified to ANSI/UL Std. 499  
Conforms to CAN/CSA E335-1 & E335-2-35



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



Model Item Number	Tempra® 12 223420 12 Plus 224196	Tempra® 15 223421 15 Plus 224197	Tempra® 20 223422 20 Plus 224198	Tempra® 24³ 223424 24 Plus³ 224199	Tempra® 29⁵ 223285 29 Plus⁵ 223245	Tempra® 36⁴ 223286 36 Plus⁴ 223426							
Phase	single 50/60 Hz		single⁵ 50/60 Hz		single⁵ 50/60 Hz								
Voltage	240 V or 208 V		240 V or 208 V		240 V or 208 V								
Wattage	12 kW	9 kW	14.4 kW	10.8 kW	19.2 kW	14.4 kW							
Amperage draw	50 A	44 A	2 x 30 A	2 x 26 A	2 x 40 A	2 x 35 A							
Number & min. recommended size of circuit breakers¹ (DP)	1 x 50 A		2 x 30 A		2 x 40 A								
Number of runs & min. recommended wire size² (copper)	1 x 6/2 AWG		2 x 10/2 AWG		2 x 8/2 AWG								
Maximum temperature increase above ambient water temp	@ 1.50 GPM	54°F	41°F	65°F	49°F	88°F	66°F	92°F	82°F	92°F	92°F	92°F	
	@ 2.25 GPM	36°F	27°F	43°F	37°F	58°F	44°F	73°F	54°F	87°F	66°F	92°F	82°F
	@ 3.00 GPM	27°F	20°F	33°F	25°F	44°F	33°F	54°F	41°F	66°F	49°F	82°F	61°F
	@ 4.50 GPM	-	-	-	-	29°F	22°F	37°F	27°F	44°F	33°F	55°F	41°F
Min. water flow to activate unit	0.37 GPM / 1.4 l/min		0.50 GPM / 1.9 l/min		0.50 GPM / 1.9 l/min								
Weight	13.5 lb / 6.1 kg		16.1 lb / 7.3 kg		16.1 lb / 7.3 kg								
Nominal water volume	0.13 gal / 0.5 l		0.26 gal / 1.0 l		0.26 gal / 1.0 l								
Max. inlet water temperature	131°F / 55°C												
Dimensions	WIDTH 16 <sup>5</sup> / <sub>8</sub> " / 42.0 cm x HEIGHT 14 <sup>1</sup> / <sub>2</sub> " / 36.9 cm x DEPTH 4 <sup>5</sup> / <sub>8</sub> " / 11.7 cm												
Working pressure	150 PSI / 10 BAR												
Tested to pressure	300 PSI / 20 BAR												
Water connections	¾" NPT												

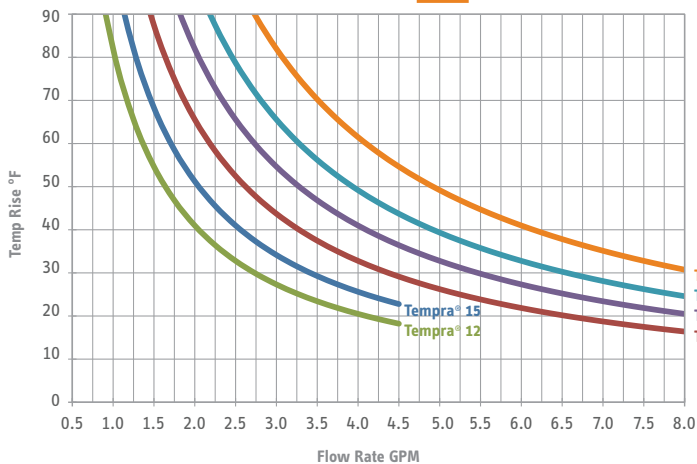
¹ This is our recommendation for overcurrent protection sized at 100% of load. Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.

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

³ Requires a 200 A main service. ⁴ Requires a 300 A main service.

⁵ 29/29 Plus & 36/36 Plus may be wired for balanced 3-phase 208V. 15/15 Plus, 20/20 Plus, 24/24 Plus may be wired for unbalanced 3-phase 208V.

Temperature Rise vs. Flow Rate at **240 V**



Temperature Rise vs. Flow Rate at **208 V**

