

Tempra® & Tempra® Plus Technical Specifications

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® 24 ³ 223424 24 Plus ³ 224199	Tempra® 29 ⁴ 232885 29 Plus ⁴ 223425	Tempra® 36 ⁵ 232886 36 Plus ⁵ 223426
Phase	single 50/60 Hz	single ⁶ 50/60 Hz	single ⁶ 50/60 Hz	single ⁶ 50/60 Hz	single ⁶ 50/60 Hz	single ⁶ 50/60 Hz
Voltage	240 V or 208 V	240 V or 208 V	240 V or 208 V	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	24 kW 18 kW	28.8 kW 21.6 kW	36 kW 27 kW
Amperage draw	50 A 44 A	2 x 30 A 2 x 26 A	2 x 40 A 2 x 35 A	2 x 50 A 2 x 44 A	3 x 40 A 3 x 35 A	3 x 50 A 3 x 44 A
Number & min. recommended size of circuit breakers ¹ (DP)	1 x 50 A	2 x 30 A	2 x 40 A 2 x 35 A	2 x 50 A	3 x 40 A 3 x 35 A	3 x 50 A
Number of runs & min. recommended wire size ² (copper)	1 x 6/2 AWG	2 x 10/2 AWG	2 x 8/2 AWG	2 x 6/2 AWG	3 x 8/2 AWG	3 x 6/2 AWG
Maximum temperature increase above ambient water temp	@ 1.50 GPM: 54°F 41°F @ 2.25 GPM: 36°F 27°F @ 3.00 GPM: 27°F 20°F @ 4.50 GPM: - -	65°F 49°F 43°F 37°F 33°F 25°F -	88°F 66°F 58°F 44°F 44°F 33°F 29°F 22°F	92°F 82°F 73°F 54°F 54°F 41°F 37°F 27°F	92°F 92°F 87°F 66°F 66°F 49°F 44°F 33°F	92°F 92°F 92°F 82°F 82°F 61°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	0.50 GPM / 1.9 l/min	0.77 GPM / 2.9 l/min	0.77 GPM / 2.9 l/min
Weight	13.5 lb / 6.1 kg	16.1 lb / 7.3 kg	16.1 lb / 7.3 kg	16.1 lb / 7.3 kg	19.0 lb / 8.6 kg	19.0 lb / 8.6 kg
Nominal water volume	0.13 gal / 0.5 l	0.26 gal / 1.0 l	0.26 gal / 1.0 l	0.26 gal / 1.0 l	0.39 gal / 1.5 l	0.39 gal / 1.5 l
Max. inlet water temperature	131°F / 55°C					
Dimensions	WIDTH 16 ⁵ / ₈ " / 42.0 cm x HEIGHT 14 ¹ / ₂ " / 36.9 cm x DEPTH 4 ⁵ / ₈ " / 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.

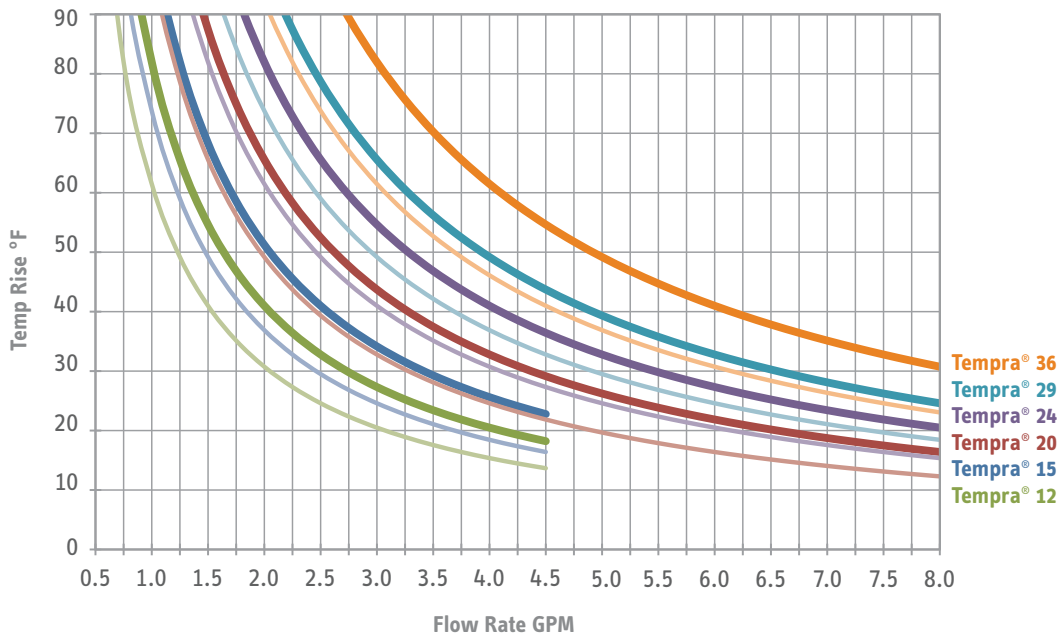
³ Requires minimum 150 A main service. ⁴ Requires 200 A main service. ⁵ Requires 300 A main service.

⁶ 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.

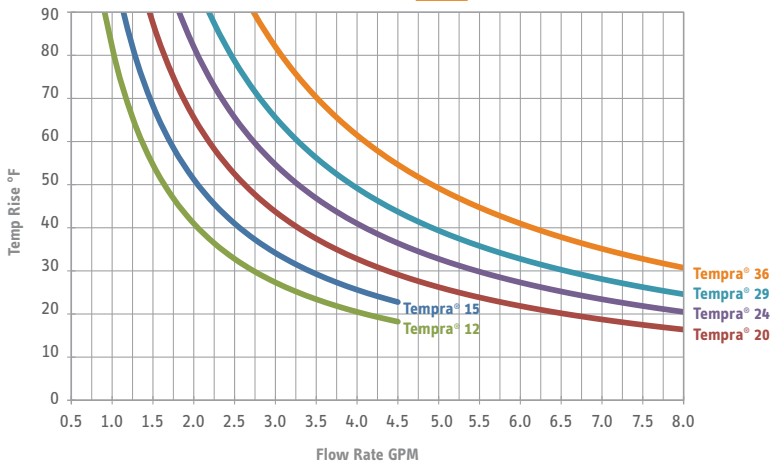
Scroll for temp. rise charts. ↓

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Temperature Rise vs. Flow Rate at **240 V** and **208 V**



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



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

