

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	
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	@ 2.25 GPM	@ 3.00 GPM	@ 4.50 GPM		
	54°F	41°F	65°F	49°F	88°F	66°F
	36°F	27°F	43°F	37°F	58°F	44°F
	27°F	20°F	33°F	25°F	44°F	33°F
	-	-	-	-	29°F	22°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 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.

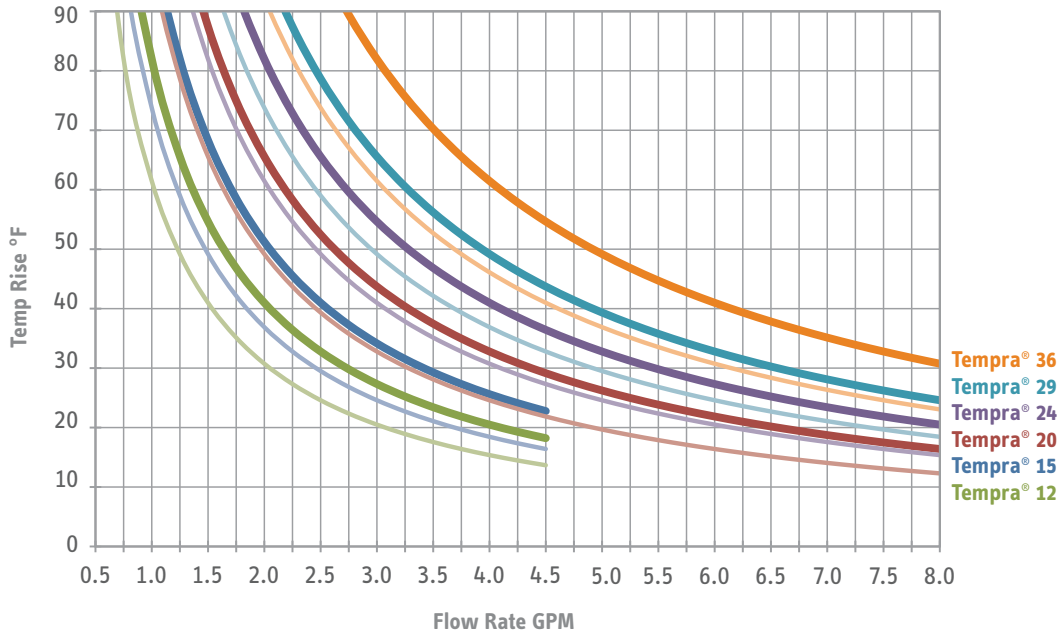
³ Requires minimum 150 A main service. ⁴ Requires 200 A main service. ⁵ Requires 300 A main service.

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.

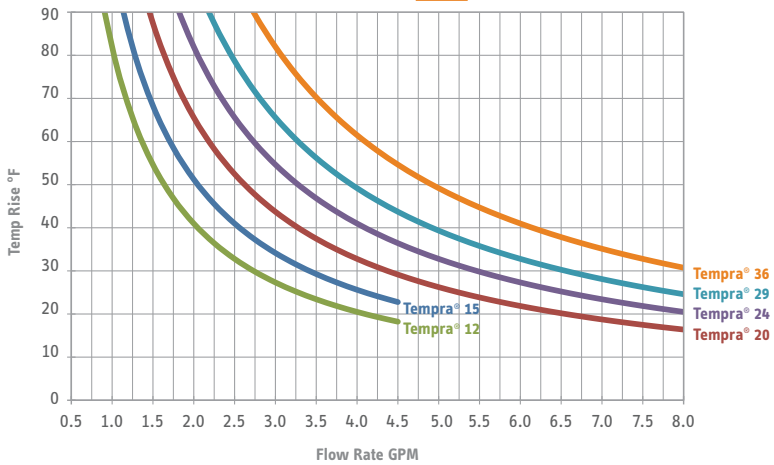
Scroll for temp. rise charts. ↓

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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

