STIEBEL ELTRON

Simply the Best

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.

ISO 9001 CERTIFIED

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[3] 232885 29 Plus[3] 223425		Tempra® 36[4] 232886 36 Plus[4] 223426	
Phase	single 50/60 Hz		single[5] 50/60 Hz		single[5] 50/60 Hz		single[5] 50/60 Hz		single[5] 50/60 Hz		single[5] 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	65°F	49°F	88°F	66°F	92°F	82°F	92°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		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 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.

Scroll for temp. rise charts.

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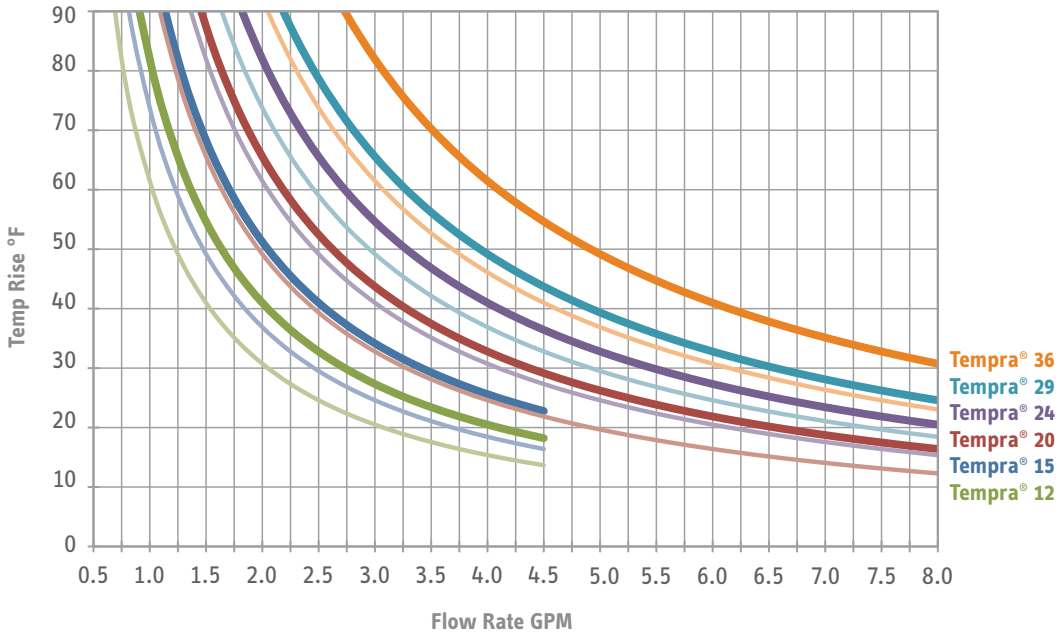
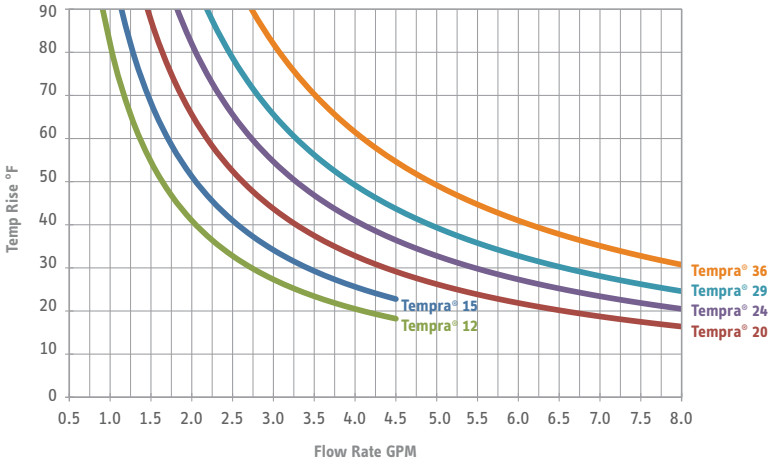
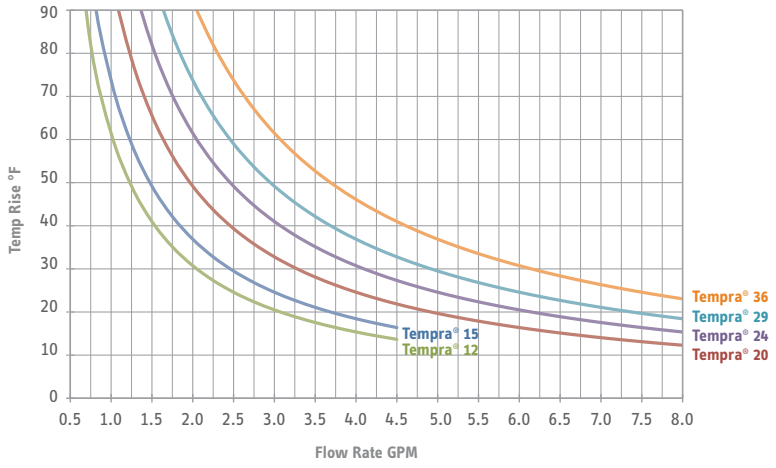
Temperature Rise vs. Flow Rate at **240 V** and 208 V



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



Temperature Rise vs. Flow Rate at 208 V



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