

AQM Sizing Guide Single Hand Washing Sink Tankless Electric Water Heater

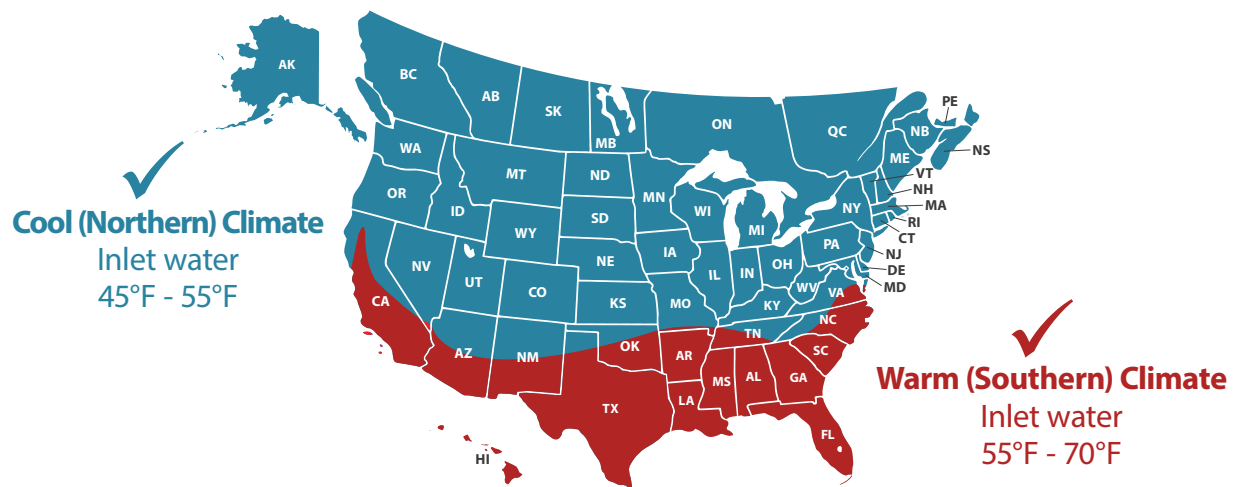
Flow	GPM	AQM MODEL			
		AQM 2-1* 120 V Requires 20 A circuit breaker	AQM 3-1 120 V Requires 30 A circuit breaker	AQM 4-2 240 V Requires 20 A circuit breaker	AQM 6-2 240 V Requires 30 A circuit breaker
Ultra-Low	0.32	✓			
Standard	0.50		✓		
Standard	0.66			✓	
High	1.0				✓

*AQM 2-1 is internally restricted to 0.32 GPM.

AQM 2-1, 2.5-1, 3-1 ship with a 0.5 GPM pressure compensating flow reducer/aerator that must be installed.

AQM 3.5-1, 4-2 ship with a 0.66 GPM pressure compensating flow reducer/aerator that must be installed.

AQM 6-2 ships with a 1.0 GPM pressure compensating flow reducer/aerator that must be installed.



Recommendations for 240 V units are correct if installed with 240 V service.

Increase one model size if unit will be installed with 208 V service.

Call Aqua Power® at 800.582.2213 if you have any sizing questions, or another out-of-the-ordinary situation. Aqua Power® service representatives can make recommendations on sizing, or provide assistance with our water heaters, to both homeowners and professional installers.

AQM 2-1

- Designed for an ultra-low-flow (.32 GPM) lavatory sink, providing warm water for hand washing at about 90–100°F (32–38°C)
- Heats water 40°F maximum
- An AQM 2-1 could supply, for example, 0.32 GPM of warm water at 90°F for hand washing if incoming cold water was 50°F

AQM 3-1

- Designed for a standard low-flow (.5 GPM) lavatory sink, providing warm water for hand washing at about 90–100°F (32–38°C)
- Heats water 40°F maximum
- An AQM 3-1 could supply, for example, 0.5 GPM of warm water at 90°F for hand washing if incoming cold water was 50°F

AQM 4-2

- Designed for a standard-flow (.66 GPM) lavatory sink, providing warm water for hand washing at about 90–100°F (32–38°C)
- Heats water 39°F at a flow rate of 0.66 GPM
- An AQM 4-2 could supply, for example, 0.66 GPM of warm water at 89°F for hand washing if incoming cold water was 50°F

AQM 6-2

- Designed for a high-flow (1 GPM) lavatory sink, providing warm water for hand washing at about 90–100°F (32–38°C)
- Heats water 40°F at a flow rate of 1.0 GPM
- An AQM 6-1 could supply, for example, 1.0 GPM of warm water at 90°F for hand washing if incoming cold water was 50°F

See next page for Technical Data & Temperature Rise curves.

AQM Series Technical Data



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



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



Model	AQM 2-1*	AQM 3-1	AQM 4-2	AQM 6-2
Item No.	612431	612433	612435	612436
Phase - 60/50 Hz	1			
Voltage	120 v	120 v	240 v or 208 v	240 v or 208 V
Wattage	1.8 kW	3.0 kW	3.5 kW 2.6 kW	5.7 kW 4.3 kW
Amperage draw	15 A	25 A	14.6 A 12.7 A	23.8 A 20.6 A
Min. recommended circuit breaker size ¹	15 A (SP)	25 A (SP)	15 A (DP) 15 A (DP)	25 A (DP) 25 A (DP)
Min. recommended wire size (copper) ²	14 AWG	10 AWG	14 AWG 14 AWG	10 AWG 10 AWG
GPM model is designed to deliver	0.32 GPM / 1.2 l/min	0.50 GPM / 1.9 l/min	0.66 GPM / 2.5 l/min	1.0 GPM / 3.8 l/min
Minimum water flow to activate unit	0.21 GPM / 0.8 l/min	0.40 GPM / 1.5 l/min	0.40 GPM / 1.5 l/min	0.77 GPM / 2.9 l/min
Weight	3.44 lb / 1.56 kg			
Dimensions (H x W x D)	6 1/2" / 165 mm x 7 1/2" / 190 mm x 3 1/4" / 82 mm			
Volume of water in unit	0.026 gal / 0.1 l			
Working pressure	150 psi / 10 BAR			
Tested to pressure	300 psi / 20 BAR			
Water connections ³	3/8" O.D. flexible braided stainless steel hose connectors			

*AQM 2-1 is internally restricted to 0.32 GPM / 1.2 l/min.

AQM 2-1, 3-1 ship with a 0.5 GPM pressure compensating flow-reducer/aerator that must be installed.

AQM 4-2 ships with a 0.66 GPM pressure compensating flow-reducer/aerator that must be installed.

AQM 6-2 ships with a 1.0 GPM pressure compensating flow-reducer/aerator that must be installed.

¹ This is our recommendation for overcurrent protection sized at 100% of load. Check local codes for compliance if necessary.

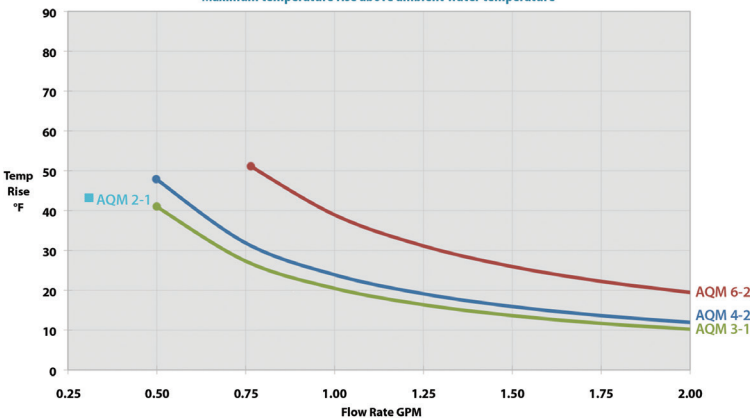
Tankless water heaters are considered a non-continuous load.

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

³ Suitable for supply with cold water only.

Temperature Rise versus Flow Rate @ Max. Rated Voltage (120 v / 240 v)

Maximum temperature rise above ambient water temperature



Temperature Rise versus Flow Rate @ 208 V

Maximum temperature rise above ambient water temperature

