

## Installation and Operating Instructions

### NSF 372 Certified

Thank you for choosing the Aqua-Flash Universal Replacement Valve Kit by AquaMotion, Inc. The AMK-UK replaces most under sink hot water recirculation valves on the market.

Please read and follow these step by step instructions to ensure that the system operates properly and reliably. Since the cold water supply line will be used to return the cooling hot water to the hot water heater you will experience some warm water from the cold water line. Opening the cold water faucet fully will flush the warm water from the cold line in a short period of time. After the Flash valve has been installed, system will need to cycle through from hot to cool several times or overnight before normal operation is established.

**Warning:** This is not an anti-scald valve.

### Inspection

Inspect the system components to ensure no damage has occurred to them during shipping. Avoid dropping the circulator which may get damaged if dropped.

The AMK-UK includes:  
AquaMotion Flash By-Pass Valve  
3/8" x 1/2" x 3/8" Compression Tee

12" Long 1/2" x 1/2" Flex Hose  
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### Tools Needed:

5/8" open end wrench  
15/16" open end wrench or an adjustable crescent wrench that opens to 1"



Fig. 1.



Fig. 2.



Fig. 3.

### Limits

Maximum water temperature 110°C/230°F

Maximum Pressure Rating 125 psi

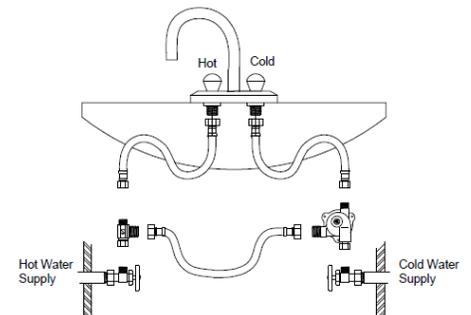
**Warning:** For Indoor Use Only

### Valve Installation

**Note:** Pipe dope and Teflon tape are not required for any of the valve threads.

The valve is normally installed at the faucet that is furthest away from the hot water heater. If there are separate hot water branches in the residence, additional valves may be required.

- 1) Close both the hot and cold angle stop valves under the sink. Fig. 1.
- 2) Open both the hot and cold water faucets to relieve the water pressure.
- 3) Disconnect the riser pipes or hoses from the angle stop valves. Place a pan or rag below the connections to catch any water that may leak from the risers. Fig. 2.
- 4) Attach the hot water riser to the 3/8" thread on the tee.
- 5) Install the tee from the kit to the hot water angle stop valve using the 3/8" nut on the tee. Fig. 3.
- 6) Attach the 1/2" hose from the kit to the 1/2" connection on the tee. Fig. 4.
- 7) Attach the Flash valve to the cold water angle stop valve using the 3/8" nut on the Flash valve.
- 8) Attach the cold water riser to the 3/8" thread on the Flash valve.
- 9) Attach the 1/2" hose from the kit to the 1/2" connection on the Flash valve. Fig. 5.
- 10) Open the hot and cold Close angle to stop valves and purge air from the lines using the faucets.



**Note:** The spacing dimensions between angle stops vary. Position the valve and tee hose connections to suit your system.



Fig. 4.



Fig. 5