

## Installation and Operating Instructions

### NSF 372 Certified – Made in the USA

The APCOM® Instant Hot Water Recirculation System is for single pipe tankless systems with built-in recirculation pumps. Please read and follow the step-by-step instructions to ensure that the system operates properly and reliably. The APCOM® Tankless Bypass Valve is a small, quiet, lead free stainless/brass hot water recirculation valve. It installs at the fixture furthest from the water heater/tankless unit. It acts in conjunction with a circulator to supply hot water on demand. The TBPV valve mounts below the fixture between hot and cold supply lines and installs on the cold-water angle shut off valve. When hot water is called for, the circulator transfers the cooled hot water in the hot water line into the cold supply line with returns it to the water heater. As hot water reaches the TBPV Valve it closes when a 95-degree F temperature is reached at which point the valve automatically adjusts to maintain this temperature. The circulator continues to operate for 5-minutes based on the factory setting of the receiver.

This APCOM® Tankless Valve kit can also be used with the APCOM® Model #TV1 Instant Hot Water System for Tankless Water Heaters kit as an add-on to expand existing multiple trunk or manifold systems.

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

### Inspection

Inspect the system components to ensure no damage has occurred to them during shipping.

The APCOM® Tankless Bypass Valve Kit includes:

- APCOM® Tankless Bypass Stainless Steel Valve
- 3/8" x 1/2" x 3/8" Compression Tee
- 24 Long 1/2" x 1/2" Flex Hose
- Installation and Operating Instructions

### Tools Needed

5/8" & 7/8" open end wrenches

### Limits

Maximum water temperature 150°F  
 Maximum Pressure Rating 150 psi

### Valve Installation

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

**Don't over tighten the Valve, Tee, or hose.**

The valve is normally installed at the faucet that is furthest away from the hot water heater/tankless 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.
- 2) Open both the hot and cold-water faucets to relieve the water pressure.
- 3) Place a pan or rag below the connections to catch any water that may leak from the risers.
- 4) Disconnect the riser pipes or hoses from the angle stop valves.
- 5) Install the Tankless Bypass valve onto the cold-water angle stop using the 3/8" compression nut on the Tankless Bypass valve.
- 6) Attach the cold-water riser to the Tankless Bypass valve.
- 7) Install the Tee from the kit to the hot water angle stop valve using the 3/8" compression nut on the Tee.
- 8) Attach the 1/2" hose from the kit between the 1/2" connection on the Tankless Bypass valve and the 1/2" connection on the Tee.
- 9) Open the hot water angle stop valve and the cold-water faucet to purge air from the line and valve.
- 10) Close the cold-water faucet and open the cold angle stop valve.

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

For support, please call 401-785-3000 or email [info@AquaMotionHVAC.com](mailto:info@AquaMotionHVAC.com).

