

Instruction Sheet
Model AMH2K-7
For use with Tank Systems
(Dedicated Return Line)

APPLICATION

The AquaMotion Model AMH2K-7 circulators are designed to deliver hot water instantly at all points of use between the hot water tank and the dedicated return line. Water savings can be as great as 12,000 – 15,000 gallons per year with 4-5 taps in a home. The AquaMotion Model AMH2K-7 circulator kit together with the AquaMotion “On-Call” accessories are designed to be user friendly, reliable and to produce a professional installation.

WARNING: Risk of electric shock. Circulator model AM7-SUV1L is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, GFCI type receptacle.

WARNING: When installing circulator observe all applicable electrical and plumbing codes.

WARNING: To avoid electrical shock, disconnect power prior to connecting or disconnecting circulator.

WARNING: Risk of electric shock. This circulator has not been investigated for use in swimming pool or marine areas.

WARNING: This circulator is acceptable for indoor use only. Employer uniquement a l'interieur.

CAUTION: This circulator has been evaluated for use with water only. The suitability of this circulator for use with liquids other than water is the responsibility of the end user.

SYSTEM REQUIREMENTS

- Minimum water pressure 20 psi
- Maximum water pressure 125 psi
- Maximum water temperature 230F (110C)

SHIPMENT INSPECTION

Examine all components carefully to ensure they are all present and they have not been damaged in transit to you. Care should be taken to avoid dropping or mishandling the circulator. Damage to the circulator may occur if it is dropped.

KIT CONTENTS

The AquaMotion Model AMH2K-7 packages include:

- (1) Pump model AM7-SUVA1LT1, complete pre-wired 10-foot flexible cord with 3 prong plug.
- (2) ¾” NPT male Union Tail Pieces
- (2) Union Nuts
- (2) Union Gaskets

REQUIRED TOOLS

- 2 - Pipe wrenches which open to at least 1 ½”
- 1 - Adjustable wrench which opens to at least 1 ½”

INSTALLATION INSTRUCTIONS

1. Turn off the power to your hot water tank at the circuit breaker.
2. Close the valve on the cold water supply line to the hot water tank.* If you do not have a valve on the cold water supply line close the main water valve to the house.
3. Attach a hose to the drain valve on the hot water tank and run the hose to a drain or into a bucket.
4. Open the drain valve and allow the system to drain down. Note: Opening the faucet at a sink may speed the draining process.
5. Separate the piping where you will be installing the circulator. Note: On hot water tank systems the circulator will need to be a minimum of **3 feet away** from the cold water inlet of the tank to avoid heat migration from the tank.
6. The fittings (Tail Pieces) in the kit have male NPT threads. Adapters that will accept ¾” male NPT Threads will need to be installed on the separated ends of the pipes. These adapters will be unique to your systems pipe size and pipe type and are not included in the kit. Install the adapters allowing space for the kit fittings and the circulator (approx. 7 ¾”).
7. Stick one of the ¾” NPT male tail pieces supplied with fitting kit through one of the union nuts from the kit and thread it into the adapter using the flats on the tail piece to tighten it into the adapter. Apply pipe dope or Teflon tape to the male threads prior to installing the tail piece into the adapter. Repeat this procedure with the other tail piece.
8. Place one of the gaskets supplied in the kit between the circulator discharge and the tail piece which is now attached to the discharge piping and thread the nut to the circulator. Note: The discharge end of the circulator is the end the arrows on the stainless casting point to. Place the other gasket between the tail piece on the inlet pipe and the circulator inlet. Tighten both union nuts.
9. **The circulator will need to be supported either by the piping or by pipe hangers which can be mounted at the tail pieces.**
10. Open the valve in the cold water supply line to the hot water tank. Check for leaks at the fittings. If a leak occurs retighten or refit the joint. Note: To allow trapped air to escape open a hot water faucet and allow the water to run until it is clear of bubbles.
11. Turn power on for the hot water tank at the circuit breaker
12. Plug the circulator into a properly grounded GFCI outlet.

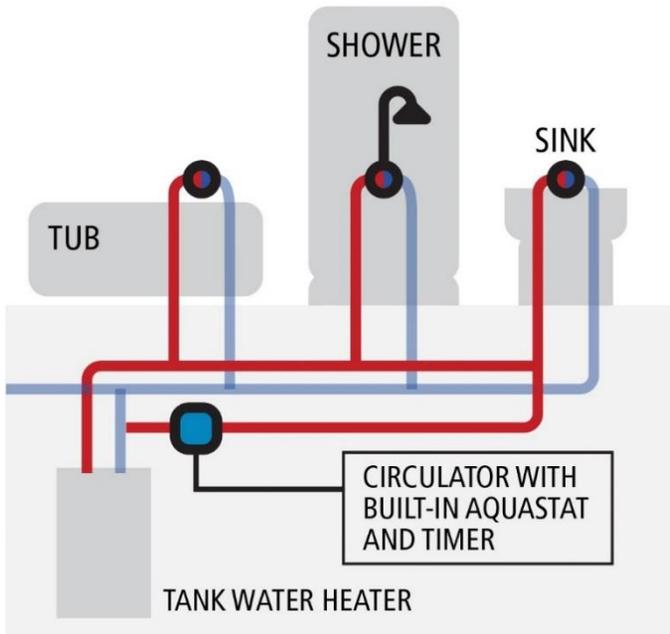
13. Remove the dust cover from the timer and follow the step by step directions in the timer instructions to set the timer to meet your hot water needs. Note: If a protracted power failure occurs the timer time of day setting will need to be reset
14. When the timer is in its run mode hot water will circulate through the hot water supply line to the fixtures and back through the dedicated return line to the heater until the temperature at the circulator reaches 105° F. The circulator will then turn off until the water temperature drops to 85° F at which point the cycle will begin again until the timer shuts off.

**Circulators are of stainless construction
All Fittings are lead free**

***If the dedicated return line is being connecting to a hot water tank, the connection can be made at the cold water supply or the drain on the hot water tank.**



Mount pump at least 3 Feet from the cold discharge from the tank. If a check valve is used in the cold water line, connect the dedicated return line to the cold water supply to the tank between the tank and the check valve.



Installation Diagram AquaMotion Model AMH2K-7

**Meets California Title 24
using performance approach.**