

Save Water, Save Energy, Enjoy the Comfort of Hot Water Recirculation



 **AquaMotion**[®]

Innovation Leader in Hot Water Recirculation Technology



US DESIGN  US BUILT  PATENTED



Hot Water Recirculation Systems
for the 152 million¹ households in the USA and Canada
For Retrofit & New Construction



How long do you wait for hot water?

The Problem

How long do you wait for hot water when you turn on the faucet? 30 seconds, 1 minute, 2 or 3 minutes, longer? While you wait, a home with 5 taps can waste up to 15,000 gallons of tempered water down the drain. The homeowner pays for the wasted water, energy and utility fees.

The Solution

Install a proven, patented and awarded AquaMotion recirculation system. AquaMotion offer kits for every possible installation for hot water tanks, indoor or outdoor tankless, and combi-boilers.

The Benefits

- Hot Water Comfort at Every Faucet/Shower
- Save Time, Never Wait For Hot Water
- Save Water, 12,000 – 15,000 Gallons per Year
- Save Energy with ON/OFF Timers & Controls
- Save on Utility Fees
- Meet all Local Plumbing Codes
- **GO GREEN**, Help Conserve this Precious Water Resource

The Cost

Annual cost to run a circulator for 5 hours per day at \$0.16² per kW is estimated at \$4.00², \$8.00² for 3 speed circulators. The payback is on average 1 to 3 years.

How Does It Work?

A pump at the tank or tankless heater, or under the sink with an Aquastat or by-pass valve, forces the lukewarm water from the hot supply line into the cold supply line back to the heater for reheating. In a dedicated return line, the pump is installed in the return line near the heater.

What our customers are saying...

- Robert:** *“Easy install. Works very well, and totally quiet”*
- Gilde:** *“Works great. Delivered on time. Easy to install. Hot water at my fingertips instantly!”*
- Dan C:** *“Easy Install. Kitchen sink was 2 minutes to feel any temp. change, now in 6 seconds to get hot water. Great product, have made recommended to co-workers”*
- Jim G:** *“I’ve had the recirculation system installed for a while and I have to tell you I am impressed with the performance. Ten seconds and I get hot water vs. 1.5 minutes prior.”*

US Patents: 8,083,500; 8,303,184; 9,328,736; 9,863,647; D834,145; 10,612,793; 11,193,605; 11,767,988; 11,713,562; D949,927; D960,202; D975,748; D975,749; D975,750; 11.853,086. Canada Patents: 2,883,495; 2,935,949; TM5,501,838; TM4,507,929

1. Gross Population as of 2025
 2. Cost Estimates as of 2025

Quick Selection Chart

FOR ALL HOT WATER RECIRCULATION KITS AND VALVES

INDOOR SYSTEMS

SINGLE PIPE

TANK	Electricity under sink w/ Timer (GFCI Outlet Required)	AMH3K-7
	Electricity under sink NO Timer (GFCI Outlet Required)	AMH3K-7N
	NO electricity under sink (Pump installs at Tank)	AMH1K-3UV
	Additional by-pass valve kits for AMH1K-3UV	AMK-UK

DEDICATED RETURN LINE

TANK	Timer (Pump installs in Return Line near Tank)	AMH2K-7
	No Timer (Pump installs in Return Line near Tank)	AMH2K-7N
TANKLESS	Electricity under sink – Pump w/ Timer (GFCI Outlet Required)	AMH3K-R
	Electricity under sink – Pump w/o Timer (GFCI Outlet Required)	AMH3K-RN
	NO electricity under sink (Pump installs at Tankless)	AMH1K-60DRZT1
	Union Pump w/o Timer, On-Demand™ (Pump installs at Tankless)	AMH1K-7ODRN
	Flanged Pump, 3-Spd, w/o Timer, On-Demand (Pump installs at Tankless)	AMH1K-RODRN
	Additional by-pass valve kits for 60DRZT1, 7ODRN, and RODRN	AMK-ODR2

DEDICATED RETURN LINE

TANKLESS	Pump w/ Timer (Pumps installs in Return Line near Tankless)	AMH2K-7
	Pump w/o Timer (Pump installs in Return Line near Tankless)	AMH2K-7N

COMBI-BOILER SYSTEMS

SINGLE PIPE

Combi-GUARD™ Kit (AquaMotion Comfort Control™ & Smart Controller)	AMH1K-RODRNCG
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OUTDOOR SYSTEMS

SINGLE PIPE

TANKLESS	Pump, Timer, By-pass to cold supply line (Pump installs at Tankless)	AMH1K-7ODRXZT1
	Union Pump, w/ Timer, On-Demand (Pump installs at Tankless)	AMH1K-7ODRXT1
	Flanged Pump, w/ Timer, On-Demand (Pump install at Tankless)	AMH1K-RODRXT1
	Additional by-pass valve kits for 70DRXZT1, 70DRXT1, and RODRXT1	AMK-ODR2

DEDICATED RETURN LINE

TANKLESS	Pump, w/ Timer (Pump installs in Return Line near Tankless)	AMH2K-7X
	Pump w/o Timer (Pump installs in Return Line near Tankless)	AMH2K-RX

CONTROLS

WIFI (Requires a Mobile Device)

AquaMotion WATCHDOG WIFI SMART CONTROLLER™	AMK-SC
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ON-DEMAND™ RF SIGNAL (Does not require a mobile device or computer)

Add. Controls: Max 5 per receiver	Wireless Button & Receiver	AMK-WB
	Motion Sensor & Receiver	AMK-MS
	Wall Switch & Receiver	AMK-WS
	Wireless Button Control Only	AMK-WBR
	Motion Sensor Control Only	AMK-MSR
	Wall Switch Control Only	AMK-WSR



HOT WATER TANK SYSTEMS

Standard plumbing, single pipe system

PATENTED



AQUA-FLASH® AMH1K-3UV

Select this if no electrical outlet under sink.

- By-pass valve kit installs under sink in 10 minutes
- Pump with built-in or plug-in timer installs on top of water heater
- Kit includes: stainless union pump, built-in or plug-in timer, 6.5 ft. line cord, brass/stainless Aqua-Flash® by-pass valve, brass fittings, and stainless hose



AQUA-FLASH® AMK-UK

Universal Valve Kit for tank systems

- Under sink bypass valve kits for additional locations, up to 5 per pump.
- Flash valve installs on cold angle stop.
- Replaces Grundfos plastic Comfort Valve 59526, Watts 367010, Taco Hotlink HLV-1
- Kit Includes: brass/stainless Aqua-Flash® bypass valve, check valve, brass fittings, and stainless hose



AMH3K-7 / AMH3K-7N (N = No Timer)

Select this if electrical outlet under sink.

- GFCI outlet required under sink.
- Installs in 15 minutes
- Kit includes: stainless union pump with mounting bracket, 6.5 ft. line cord, built-in or plug-in timer, aquastat, check valve, and stainless hoses

FOR HOMES WITH DEDICATED RETURN LINE

A **dedicated return line** is a pipe installed from the last fixture back to the water heater.



AMH2K-7 / AMH2K-7N (N = No Timer)

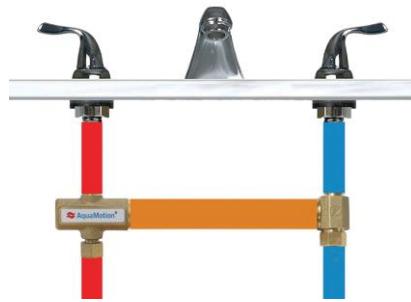
For systems with standard Tank Heaters.

- Installs in return line near the tank heater.
- Kit includes: stainless union pump, 6.5 ft. line cord, built-in or plug-in timer, aquastat, brass fittings, and check valves



TANKLESS WATER HEATER SYSTEMS **PATENTED**

Standard plumbing, single pipe system



AMH1K-6ODRZT1

Select if no electrical outlet under sink.

- By-pass valve installs under sink in 10 minutes
- ODR2 valve installs on hot angle stop
- Pump with built-in or plug-in timer installs at or near tankless heater
- Kit Includes: stainless union pump with built-in or plug-in timer, check valve, brass bypass system, 6.5 ft. line cord, brass fittings, stainless hoses. and AMK-ODR2 brass valve



AMK-ODR Stainless Valve Kit

- Under sink bypass valve kit for additional locations, up to 5 per pump.
- ODR valve installs on cold angle stop
- Kit includes: stainless bypass valve, brass fitting, and stainless hose



AMK-ODR2 Brass Valve Kit

- Under sink bypass valve kit for additional locations, up to 5 per pump.
- ODR2 valve install on hot angle stop
- Kit includes: brass bypass valve, brass fitting, and stainless hose



AQUA ON-DEMAND™ AMH1K-7ODRN

Includes AMK-WB ON-DEMAND™ Kit

- By-pass valve installs under sink in 10 minutes
- Pump without timer installs at or near tankless heater
- Kit Includes: stainless union pump with built-in or plug-in timer, check valve, brass bypass system, 6.5 ft. line cord, brass fittings, stainless hoses. and AMK-ODR2 brass valve



AQUA-ON-DEMAND™ AMH1K-RODRN

Includes AMK-WB ON-DEMAND™ Kit

- By-pass valve installs under sink in 10 minutes
- Pump without timer installs at or near tankless heater
- Kit Includes: stainless 3-speed flanged pump, 6.5 ft. line cord, check valves, 3/4" NPT stainless flanges with gaskets and fasteners, fitting, hose, AMK-ODR2 brass bypass valve, ON DEMAND™ Wall Button with receiver



TANKLESS WATER HEATER SYSTEMS

Standard plumbing, single pipe system

PATENTED



AMH3K-R

Select this if electrical outlet under sink.

- GFCI outlet required under sink.
- Kit includes: stainless 3-speed flanged pump with mounting bracket, plug-in timer, 6.5 ft. line cord, check valves, aquastat, 3/4" NPT stainless flanges with gaskets and fasteners, fittings, and hoses

FOR HOMES WITH DEDICATED RETURN LINE



A **dedicated return line** is a pipe installed from the last fixture back to the water heater.

AMH2K-R / AMH2K-RN (N = No Timer)

For systems with standard Tankless Heaters

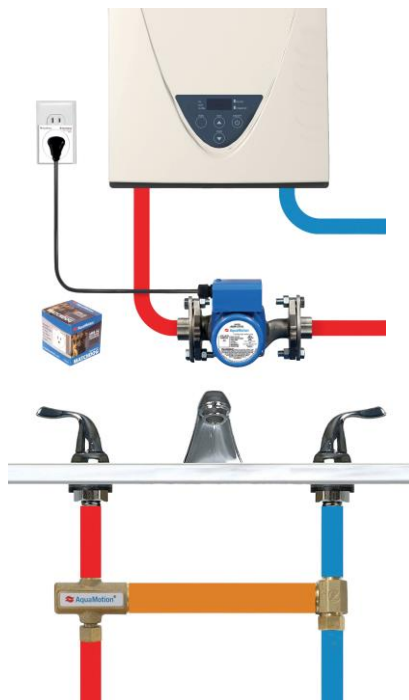
- Installs in return line near the tankless heater
- Kit Includes: stainless 3-speed flanged pump, aquastat, built-in or plug-in timer, 6.5 ft. line cord, 3/4" NPT flanges with gaskets and fasteners



COMBI-BOILER SYSTEMS

Standard plumbing, single pipe system

PATENTED



AquaMotion has solved the problem of Hot Water Recirculation with Combi-Boilers

COMBI-GUARD™ AMH1K-RODRNCG

Includes AMK-SC Watchdog Smart WIFI Controller

- Controlled per the AquaMotion Comfort Control™ App (Mobile device required)
- Delivers enhanced comfort, greater energy savings while maintaining the ideal balance between hot water and space heating
- Kit Includes: stainless 3-speed flanged pump, 6.5 ft. line cord, check valve, 3/4" NPT stainless flanges with gaskets and fasteners, fitting, hose, ODR2 brass bypass valve, AquaMotion Watchdog Smart WIFI Controller™

Free download for iOS and Android devices





AQUA-SHIELD™ OUTDOOR TANKLESS SYSTEMS

Standard plumbing, single pipe system

PATENTED

“THE ONLY OUTDOOR RECIRCULATION CIRCULATOR!”

FEATURES

- Outdoor enclosure with clear cover for timer visibility
- Anti-tampering locking device
- Rain, sprinkler and insect resistant
- Built-in timer, 24 hour, 15 minute interval tabs.
- Freeze protected with power on, **except ON DEMAND™**



OUTDOOR INSTALLED AMH1K-7ODRXZT1



AMK-ODR2 Brass by-pass valve installs under sink in 10 minutes

AMH1K-7ODRXZT1

- Pump installs at or near tankless heater
- Up to 250 ft. of total pipe length
- Kit Includes: stainless union pump with built-in timer, check valve, brass bypass system, 6.5 ft. line cord, brass fittings, stainless hoses. and AMK-ODR2 brass valve

AQUA-ON-DEMAND™ AMH1K-7ODRXZT1

Includes AMK-WB ON-DEMAND™ Kit

- Pump installs at or near tankless heater
- Up to 250 ft. of total pipe length
- Kit Includes: stainless union pump, 6.5 ft. line cord, check valve, brass fitting, stainless hose, AMK-ODR2 brass valve, and ON DEMAND™ wall button with receiver

AQUA-ON-DEMAND™ AMH1K-RODRXT1

Includes AMK-WB ON-DEMAND™ Kit

- Pump installs at or near tankless heater
- Up to 600 ft. of total pipe length
- Kit Includes: stainless 3-speed flanged pump, 6.5 ft. line cord, check valve, 3/4" NPT stainless flanges with gaskets and fasteners, brass fitting, stainless hose, AMK-ODR2 brass bypass valve, and ON DEMAND™ wall button with

FOR HOMES WITH DEDICATED RETURN LINE

AMH2K-7X

- Installs in return line near the tankless heater
- On/Off operating range 115-125°F [46.1-51.7°C]
- Up to 250 ft. of total pipe length
- Kit Includes: stainless union pump, 6.5 ft. line cord, 3/4" NPT brass union tailpieces with gaskets

AMH2K-RX

- Installs in return line near the tankless heater
- On/Off operating range 115-125°F [46.1-51.7°C]
- Up to 600 ft. of total pipe length
- Kit Includes: stainless 3-speed flanged pump, 6.5 ft. line cord, 3/4" NPT stainless flanges with gaskets and fasteners



AQUAMOTION CONTROL SYSTEMS

Fully automatic systems with, sensors, switches, and timers

AQUAMOTION WATCHDOG SMART WIFI CONTROLLER™



AMK-SC SMART CONTROLLER

- Requires a mobile device and WI-FI signal
- For indoor use only
- Programmable timer setting and On-Demand
- AquaMotion Comfort Control™ App available for free download

TIMERS



AMK-T15 Mechanical Timer

Plugs into wall outlet

- 24 Hours, 15 minute increments
- Two outlets – one on each side
- Timer ON/OFF switch



AMK-T Digital Timer

Plugs into wall outlet

- 7-day programmable function
- Power Failure Protection – Settings stay even after power outage or when unplugged



Mechanical Timer

For Indoor Kits

- Built into pumps
- 24 Hours, 15 minute increments
- Timer ON/OFF switch



AQUA-SHIELD™ TIMER

For Outdoor Kits

- Built into pumps
- 24 Hours, 15 minute increments
- Timer ON/OFF/AUTO switch

AQUA ON-DEMAND™



AMK-WB Wireless Button

- Does not require a timer
- Provides wireless control by the push of a button
- Kit includes: wireless button with mounting bracket, and RF receiver



AMK-MS Motion Sensor

- Does not require a timer
- Provides wireless control by a sensor that detects movement
- Kit includes: wireless sensor with mounting bracket, and RF receiver



AMK-WS Wall Switch

- Does not require a timer
- Provides wireless control by a wall mounting switch
- Kit includes: wireless wall switch, and RF receiver



AMK-CB Counter Button

- Does not require a timer
- Provides control by an air actuated button mounted at sink
- Kit includes: counter button with fastener, air actuated relay, and air tubing

Add up to 5 additional buttons, sensors, or switches per receiver



- AMK-WBR: Wireless button
- AMK-MSR: Motion Sensor
- AMK-WSR: Wireless switch