



<b>Submittal Data</b> <b>Sheet</b> <b>SD102</b>	<b>EFFECTIVE</b> <b>11/5/2020</b>
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# Hot Water Recirculation Systems



AquaMotion Under-Sink System



AquaMotion Dedicated Return-Line System

## SUBMITTAL DATA APPROVAL

For: \_\_\_\_\_

Job: \_\_\_\_\_

Date Submitted: \_\_\_\_\_ By: \_\_\_\_\_

Date Approved: \_\_\_\_\_ By: \_\_\_\_\_

Model Number: \_\_\_\_\_ Quantity: \_\_\_\_\_

Model Number: \_\_\_\_\_ Quantity: \_\_\_\_\_

Model Number: \_\_\_\_\_ Quantity: \_\_\_\_\_

Model Number: \_\_\_\_\_ Quantity: \_\_\_\_\_



US DESIGN • US BUILT • PATENTED

### Stainless circulators with patented serviceable Green Eco Replacement Cartridge™

#### APPLICATION:

AquaMotion Recirculation Systems deliver hot water faster, while saving time, money, energy, and water. AquaMotion provides hot water with low energy consumption. AquaMotion ON DEMAND systems are user activated for additional energy savings and to meet certain code requirements.

#### FEATURES:

The revolutionary “Green Eco Cartridge™ Design” is the heart of the circulator and contains all moving parts. It has the only field replaceable and field serviceable cartridge on the market. When competitors’ circulators fail, the entire cartridge, motor assembly or pump must be replaced, increasing the footprint on the environment, and doubling the cost to the consumer. With our pump simply remove the rotor assembly, flush the cartridge with water and reinstall it. Simple, cost effective, patented. Patent No. 8,083,500 and No. US 8.303.184 B1.

#### SPECIFICATIONS

- Maximum water temperature
- Under Sink Kit 176°F (80°C)
- Dedicated Return Kit 230°F (110°C)
- Maximum working pressure 125 psi
- Maximum ambient temperature 104°F
- Minimum inlet pressure 20 psi
- Electrical Ratings 120V, 60Hz
- Equipped with 10 ft. Grounded Line Cord
- Built-in Aquastat with a 10 Ft cord, temperature range of 85°F-105°F
- (T) Built in Timer

#### MATERIALS OF CONSTRUCTION

##### Components

STAINLESS STEEL: Pump Housing, wear ring, bearing support, cartridge sleeve, rotor sleeve, rotor cover

CARBON STEEL: Motor housing ALUMINIM

OXIDE CERAMIC: Shaft

CARBON IMPREGNATED: Radial bearings

EP (Ethylene Propylene Rubber): O-ring and gaskets

COMPOSITE: Impeller

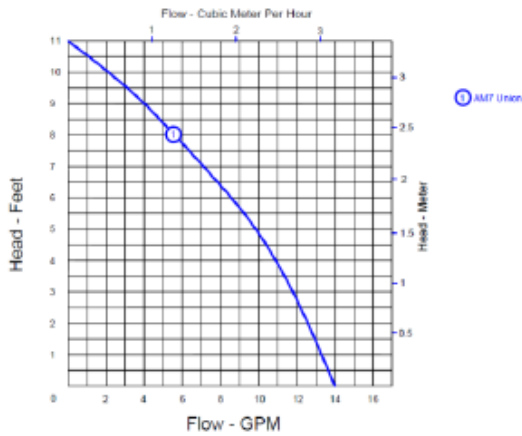
## AquaMotion Hot Circulator Technical Data

<b>AquaMotionHot One</b>					
<b>Under Sink System</b>					
Pump Model	Ampere	Connection	Housing Material	Accepts Check Valve	Speed
<b>Under Sink System</b>					
AM7-SU1LAM(T)1	0.60	Union	Stainless		1
AMR-S3FVAL(T)1	Hi: 0.79 Med: 0.62 Low: 0.46	Flange, 4 Bolt	Stainless	25mm	3
<b>AquaMotionHot Two</b>					
<b>Dedicated Return Line System</b>					
AM7-SUV1AL(T)1	0.60	Union	Stainless	20mm	1
AMR-S3FVAL(T)1	Hi: 0.79 Med: 0.62 Low: 0.46	Flange, 4 Bolt	Stainless	25mm	3

## Recirculation Circulators Performance

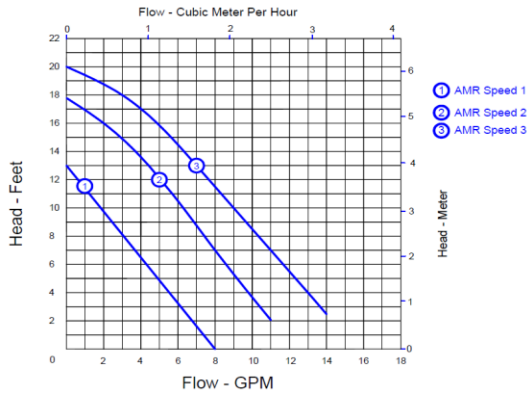
### AquaMotion Hot - Performance

AM7 Curve

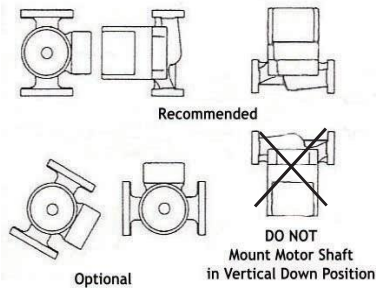


AquaMotion Part Number & Descriptions	
Part Number	Descriptions
<b>Under Sink Installation For Single Pipe</b>	
<b>AMH3K-7(N)</b>	AM7-SU1LAM(T)1 Circulator with union, built-in Aquastat, Line Cord, Built-in Timer (T) (N) No Timer, hoses & Fittings with check valves. <b>Use with Hot water Tank.</b>
<b>AMH3K-R(N)</b>	AMR-S3FVAL(T)1 Three Speed Circulator, built-in Aquastat, Line Cord, Built-in Timer (T) (N) No Timer, hoses & fittings. <b>Use with Large Tank or Tankless Water Heater.</b>
<b>Dedicated Return Line</b>	
<b>AMH2K-7(N)</b>	AM7-SUV1AL(T)1 Circulator with union, built-in Aquastat, Line Cord, Built-in Timer (T) (N) No Timer, hoses & fittings. <b>Use with Hot water Tank.</b>
<b>AMH2K-R(N)</b>	AMR-S3FVAL(T)1 Three Speed Circulator, built-in Aquastat, Line Cord, Built-in Timer (T) (N) No Timer, hoses & fittings. <b>Use with Large Tank or Tankless Water Heater.</b>
<b>AquaMotion ON DEMAND Accessories *Factory set 5 minute run time.</b>	
<b>AMK-WB</b>	RF Wireless Control With Adjustable Auto Shut Off and Plug in Receptacle. <b>No Wiring Required.</b>
<b>AMK-MS</b>	Wireless Control Kit Motion Sensor with Adjustable Auto Shut Off and Plug in Receptacle. <b>No Wiring Required.</b>
<b>AMK-WS</b>	Remote RF Wireless Wall Switch Control With Adjustable Auto Shut Off and Plug in Receptacle. <b>No Wiring Required.</b>
<b>AMK-CB</b>	Air Actuated Chrome Counter Control Kit with Relay and Auto Shut Off, Counter Top Mount or Through Cabinet
<b>Additional ON DEMAND Components</b>	
<b>AMK-WBR</b>	Additional Button with Wall Mounting Bracket for AMK-WB Kit
<b>AMK-MSR</b>	Additional Motion Sensor for AMK-MS Kit
<b>AMK-WSR</b>	Additional Rocker Switch for AMK-WS Kit
<b>AMK-CBW</b>	Replacement Button for AMK-CB Kit

### AquaMotion-Performance AMR Curves



## Mounting Positions



### For Indoor Use Only

