

AquaMotion[®]

Best Wet Rotor Pump Design, Pure and Simple



Pumps and Hydronic Products U.S. DESIGN - U.S. BUILT - PATENTED

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AquaMotion®

Single and 3-Speed circulators with patented flushable cartridge and variable speed ECM smart circulators

High Efficiency Without the High Price

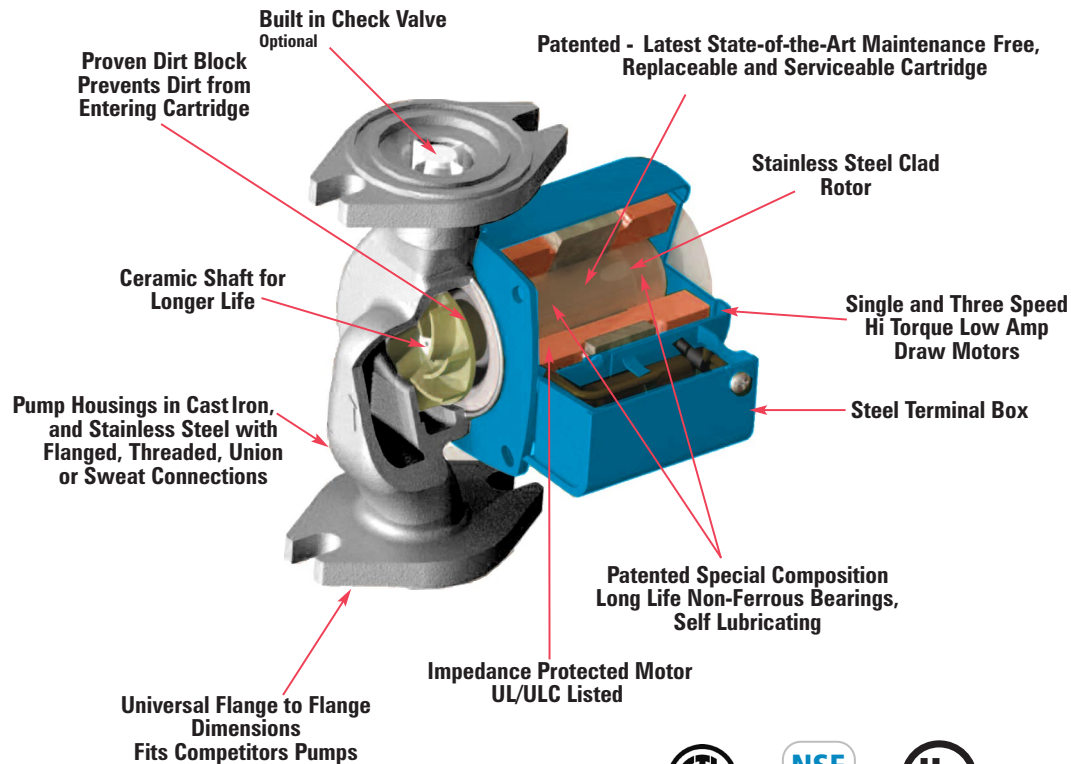
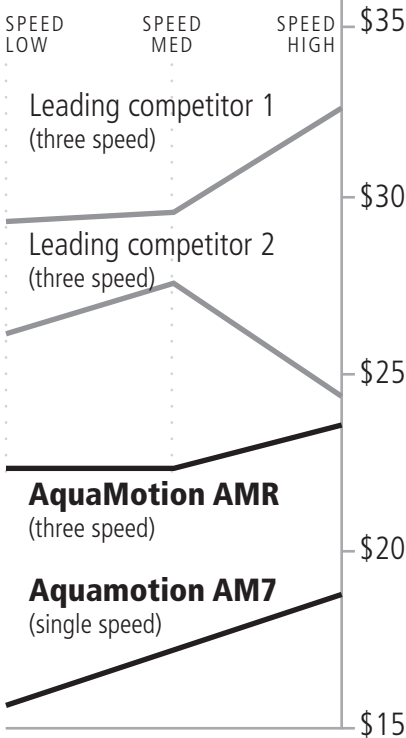
- **Designed and built in Warwick RI, USA**
- 33% – 54% more efficient* PSC motor pumps
- Most energy efficient, lowest operating cost
- Half to a third the price of ECM pumps
- Lowest total cost of ownership

Patented Green ECO Cartridge™

Efficient and sustainable
 Only field serviceable and replaceable pump cartridge
 Long life stainless steel construction
 Fits 95% of competitor's pumps
 Extends Product Life
 Patented long-life bearing system
 20-40% less than competitor's cartridge prices



Annual Operating Costs**



*33 to 54% more efficient using yearly energy costs for efficiency measure and comparing to "leading competitor 1". Lower estimate based on replacing leading competitor 1 with equivalent three speed AquaMotion AMR and higher estimate based on replacing with AM7 (see note below). **Yearly operating costs based on \$.12 per KWH of five pumps. AquaMotion AMR is three-speed. AquaMotion AM7 is single-speed. ECM is estimated. Leading Competitor 1 and Leading Competitor 2 are three-speed and comparable to AquaMotion AMR.

Partial AquaMotion Product List – Pumps

AquaMotion	Description	Connections	Check Valve	Performance Ft X GPM*	Ampere
ECM, VARIABLE SPEED, CAST IRON					
AM55-FVL	Pump	4 Bolt Flange	25 mm	21X20	0.07 - 0.57
AM99-FL	Pump	2 Bolt Flange		40x42	0.02 - 0.55
AM99-FVL	Pump	2 Bolt Flange	32 mm	40x42	0.02 - 0.55
ECM, VARIABLE SPEED, STAINLESS STEEL					
AM55-SFVL	Pump	4 Bolt Flange	25 mm	21X20	0.07 - 0.57
CLOSED SYSTEM - SINGLE SPEED - CAST IRON					
AM5-F1	Pump	2 Bolt Flange		9X18	0.54
AM5-FV1	Pump	2 Bolt Flange	20 mm	9X16	0.54
AM7-F1	Pump	2 Bolt Flange		11X20	0.6
AM7-FV1	Pump	2 Bolt Flange	25 mm	11X17	0.6
CLOSED SYSTEM - THREE SPEED - CAST IRON					
AMR-3F1	Pump	4 Bolt Flange		21X17	Hi 0.79, Med 0.62, Low 0.46
AMR-3FV1	Pump	4 Bolt Flange	25 mm	20X16	Hi 0.79, Med 0.62, Low 0.46
AM10-3F1	Pump	4 Bolt Flange		12X31	Hi 0.75, Med 0.60, Low 0.45
AM10-3FV1	Pump	4 Bolt Flange	32 mm	12X29	Hi 0.75, Med 0.60, Low 0.45
OPEN SYSTEM - SINGLE SPEED - STAINLESS STEEL					
AM2-RC1	Pump	3/4" NPT		8X4	0.26
AM2-SU1	Pump	Union		8X4	0.26
AM3-ST1	Pump	3/4" NPT		4X7	0.46
AM3-SU1	Pump	Union		4X7	0.46
AM3-SUV1	Pump	Union	20mm	4X6	0.46
AM3-SUC1	Pump	Union, 1/2" Sweat		4X7	0.46
AM3-SUE1	Pump	Union, 3/4" Sweat		4X7	0.46
AM3-SUCV1	Pump	Union, 1/2" Sweat	20 mm	4X6	0.46
AM3-SUEV1	Pump	Union, 3/4" Sweat	20 mm	4X6	0.46
AM5-SF1	Pump	2 Bolt Flange		9X18	0.54
AM5-SFV1	Pump	2 Bolt Flange	20 mm	9X16	0.54
AM6-ST1	Pump	3/4" NPT		8X11	0.54
AM6-SU1	Pump	Union		8X11	0.54
AM6-SUV1	Pump	Union	20 mm	8X10	0.54
AM6-SUC1	Pump	Union, 1/2" Sweat		8X11	0.54
AM6-SUE1	Pump	Union, 3/4" Sweat		8X11	0.54
AM6-SUCV1	Pump	Union, 1/2" Sweat	20 mm	8X10	0.54
AM6-SUEV1	Pump	Union, 3/4" Sweat	20 mm	8X10	0.54
AM7-SU1	Pump	Union		11X20	0.6
AM7-SUV1	Pump	Union	20 mm	11X17	0.6
AM7-SUC1	Pump	Union, 1/2" Sweat		11X20	0.6
AM7-SUE1	Pump	Union, 3/4" Sweat		11X20	0.6
AM7-SUCV1	Pump	Union, 1/2" Sweat	20 mm	11X16	0.6
AM7-SUEV1	Pump	Union, 3/4" Sweat	20 mm	11X16	0.6
AM7-SF1	Pump	2 Bolt Flange		11X20	0.6
AM7-SFV1	Pump	2 Bolt Flange	25 mm	11X16	0.6
OPEN SYSTEM - THREE SPEED - STAINLESS STEEL					
AMR-S3F1	Pump	4 Bolt Flange		21X17	Hi 0.79, Med 0.62, Low 0.46
AMR-S3FV1	Pump	4 Bolt Flange	25 mm	20X16	Hi 0.79, Med 0.62, Low 0.46
AM10-S3F1	Pump	4 Bolt Flange		12X31	Hi 0.75, Med 0.60, Low 0.45
AM10-S3FV1	Pump	4 Bolt Flange	32 mm	12X29	Hi 0.75, Med 0.60, Low 0.45
HIGH CAPACITY SINGLE SPEED CIRCULATORS - TWINTURBO SERIES™**					
AMR-FV3	Pump	4 Bolt Flange	25 mm	41x16	1.58
AMR-SFV3	Pump	4 Bolt Flange	25 mm	41x16	1.58
AMR-FV2	Pump	4 Bolt Flange	25 mm	36x13	1.58
AMR-SFV2	Pump	4 Bolt Flange	25 mm	36x13	1.58
AM10-FV3	Pump	4 Bolt Flange	32 mm	24x28	1.5
AM10-SFV3	Pump	4 Bolt Flange	32 mm	24x28	1.5
AM10-FV2	Pump	4 Bolt Flange	32 mm	21x23	1.5
AM10-SFV2	Pump	4 Bolt Flange	32 mm	21x23	1.5

AquaMotion	Description	Connections	AquaMotion	Description	Connections
HOT ONE & TWO RECIRCULATION KITS					
AMH1K-1	Recirculation Kit	Undersink	FK75, FK75S	Flange Kit	2 Bolt 3/4" NPT
AMH3K-7	Recirculation Kit	Undersink	FK100, FK100S	Flange Kit	2 Bolt 1" NPT
AMH3K-R	Recirculation Kit	Undersink	FK125, FK125S	Flange Kit	2 Bolt 1 1/4" NPT
AMH2K-7	Recirculation Kit	Dedicated Return Line	FK150, FK150S	Flange Kit	2 Bolt 1 1/2" NPT
AMH2K-R	Recirculation Kit	Dedicated Return Line	UK50	Union Kit	1/2" Sweat
SHUT OFF VALVES KITS					
SO75T	Shut Off Kits	3/4" NPT Thread	UK75	Union Kit	3/4" Sweat
SO100T	Shut Off Kits	1" NPT Thread	CARTRIDGES		
SO125T	Shut Off Kits	1 1/4" NPT Thread	CT03	Cartridge Kit	For AM3
SO75S	Shut Off Kits	3/4" Sweat	CT056	Cartridge Kit	For AM5 & AM6
SO100S	Shut Off Kits	1" Sweat	CT07	Cartridge Kit	For AM7
SO125S	Shut Off Kits	1 1/4" Sweat	CT10	Cartridge Kit	For AM10
			CTR	Cartridge Kit	For AMR

All Models Available with 10' Line Cord with 3 Prong Plug, Add "L" Suffix
 *Feet at zero GPM X GPM at zero feet For Other Models Please Contact the Factory or Representative.
 **All products available WITHOUT a check valve

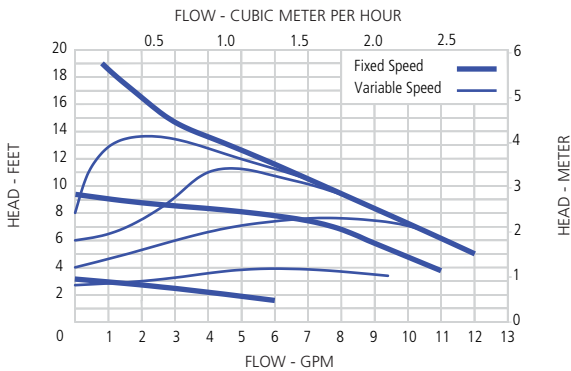
**Simple,
Rugged,
Dependable,
Patented**

- Rugged, easy to install
- Quietest pumps in its class
- Compact, self-venting, maintenance free
- Hi torque, direct drive, with lowest power draw
- Patented, innovative cartridge that is truly field serviceable and replaceable
- Cartridge interchangeable with competitor units
- Interchangeable rotor cartridge for iron, bronze and stainless pumps to reduce inventory
- High capacity output for residential and light commercial heating and plumbing applications
- 4 bolt flanges to reduce inventory
- Patented state of the art bearing design and long life stainless construction
- Covered by 3 year limited warranty

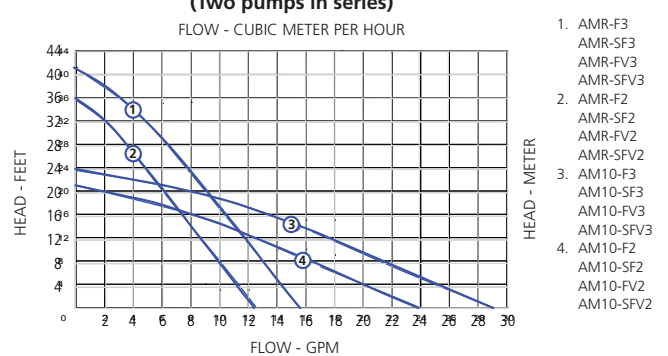
	AquaMotion	Connection	BICV	Taco*	Grundfos*	Xylem*, B&G*	Armstrong*
ECM, VARIABLE SPEED, CIRCULATORS	AM55-FVL	4 Bolt Flange	X	VR1816, VR2218	UP15-55FC	XL 20-35	
	AM55-SFVL	4 Bolt Flange	X		UP15-55SFC		
CLOSED SYSTEM - SINGLE SPEED - CAST IRON	AM5-F1	2 Bolt Flange		005F, 006F		NRF-9F	
	AM5-FV1	2 Bolt Flange	X	005F-IFC, 006F-IFC			
	AM7-F1	2 Bolt Flange		007F	UP15-42F	NRF-22	Astro 30
	AM7-FV1	2 Bolt Flange	X	007F-IFC	UP15-42FC		Astro 225CI
CLOSED SYSTEM - THREE SPEED - CAST IRON	AMR-3F1	4 Bolt Flange		008-F, 0015-MSF	UPS15-42F, UPS15-58F	NRF-25	Astro 50-3
	AMR-3FV1	4 Bolt Flange	X	008-F-IFC, 0015-MSF-IFC, 00R-F-IFC	UPS15-42FC, UPS15-58FC		Astro 250CI, Astro 230CI
	AM10-3F1	4 Bolt Flange		0010-F	UP15-55FC, UPS43-44F	NRF-33	Astro 30-3
	AM10-3FV1	4 Bolt Flange	X	0010-F-IFC	UPS43-44FC		Astro 230CI
OPEN SYSTEM - SINGLE SPEED - STAINLESS STEEL	AM2-SU1	Union			UP15-10SU		
	AM3-ST1	3/4" NPT		003-ST			
	AM3-SUC1	Union, 1/2" Sweat		003-BC	UP15-10B5	NBF-8S	
	AM3-SUE1	Union, 3/4" Sweat		003-B	UP15-10B7	NBF-8S	
	AM3-SUCV1	Union, 1/2" Sweat	X		UP15-10BUC5		
	AM3-SUEV1	Union, 3/4" Sweat	X		UP15-10BUC7		
	AM3-SU1	Union		003-SC			
	AM5-SF1	2 Bolt Flange		005-SF	UP15-29SF		
	AM5-SFV1	2 Bolt Flange	X	005-SF-IFC	UP15-29SFC		
	AM6-ST1	3/4" NPT		006-ST			
	AM6-SU1	Union					Astro 220SSU
	AM6-SUC1	Union, 1/2" Sweat		006-BC	UP15-18B5	NBF-8S, 9U	Astro 20 B0505 1/2"
	AM6-SUE1	Union, 3/4" Sweat		006-B	UP15-18B7	NBF-8S, 9U	Astro 20 B0755 3/4"
	AM6-SUCV1	Union, 1/2" NPT	X	006-BC	UP15-18BUC5		
	AM6-SUEV1	Union, 3/4" Sweat	X	006-B	UP15-18BUC7		
	AM7-SU1	Union			UP15-29SU		
AM7-SUV1	Union	X		UP15-29SUC, UP15-35SUC		Astro 225SSU	
AM7-SUC1	Union, 1/2" Sweat			UP15-42B5		Astro 225BS 1/2"	
AM7-SUE1	Union, 3/4" Sweat			UP15-42BE		Astro 225BS 3/4"	
AM7-SUCV1	Union, 1/2" Sweat	X		UP15-42BBUC5			
AM7-SUEV1	Union, 3/4" Sweat	X		UP15-42BUC7			
AM7-SF1	2 Bolt Flange		007-SF			SSF-12 F/LW, NBF-12F/LW	
AM7-SFV1	2 Bolt Flange	X	007-SF-IFC	UPS15-35SFC			
OPEN SYSTEM - THREE SPEED - STAINLESS STEEL	AMR-S3F1	4 Bolt Flange		008-SF, 0015-MSSF	UPS15-42SF, UPS15-58SF		Astro 50B-3, Astro 250SS, 230SS
	AMR-S3FV1	4 Bolt Flange	X	008-SF-IFC, 0015-MSSF-IFC	UPS15-42SFC, UPS15-58SFC		
	AM10-S3F1	4 Bolt Flange		0010-MSSF	UPS43-44BF, UP43-44BF		
	AM10-S3FV1	4 Bolt Flange	X	0010-MSSF-IFC	UPS43-44BFC, UP43-44BFC		
HIGH CAPACITY SINGLE SPEED CIRCULATORS - TWINTURBO SERIES™	AMR-F3				UP26-120		
	AMR-F2			009/0011	UP15-100		
	AM10-F3			0014	UP26-64 & UP26-96	PL30	Astro 210
	AM10-F2				UP15-55 & UP15-58		Astro 250

All Models Available with 10' Line Cord with 3 Prong Plug, Add "L" Suffix For Other Models Please Contact the Factory or Representative.

PERFORMANCE DATA **ECM - Variable Speed Curves**

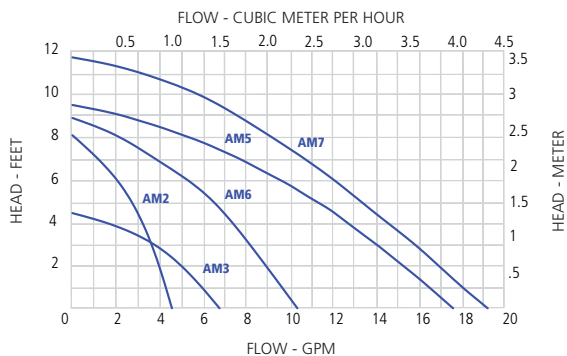


PERFORMANCE DATA **AMR & AM10 Twin Turbo (Two pumps in series)**



1. AMR-F3
AMR-SF3
AMR-FV3
AMR-SFV3
2. AMR-F2
AMR-SF2
AMR-FV2
AMR-SFV2
3. AM10-F3
AM10-SF3
AM10-FV3
AM10-SFV3
4. AM10-F2
AM10-SF2
AM10-FV2
AM10-SFV2

PERFORMANCE DATA **Single Speed Curves**



PERFORMANCE DATA **3 - Speed Curves**

