



<b>Submittal Data Sheet SD100</b>	<b>EFFECTIVE 12/20/20</b>
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Wet-rotor, maintenance free, circulating pumps

- |     |      |
|-----|------|
| AM1 | AM7  |
| AM3 | AM10 |
| AM5 | AMR  |
| AM6 |      |



**SUBMITTAL DATA APPROVAL**

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

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

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

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

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

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**Single Speed and 3-Speed**



**Single speed and 3-speed, stainless and cast iron, circulators with patented serviceable Green Eco Replacement Cartridge™**

**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. In case of failure, competitive manufacturers have to replace their entire cartridge, motor assembly or pump, increasing the foot print on the environment and doubling the cost to the consumer. With our pump, pull out 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 110°C/230°F
- Maximum working pressure 125 psi
- Maximum ambient temperature with 230°F fluid is 104°F
- Minimum inlet pressure 2 psi
- Electrical Ratings 120V, 60Hz

\*For addition of 10ft line cord with grounded plug, add "L" at the end of each product number\*

**MATERIALS OF CONSTRUCTION**

**Components**

STAINLESS STEEL: Wearing, bearing support, cartridge sleeve, rotor sleeve, rotor cover

STEEL: Motor housing

ALUMINUM OXIDE CERAMIC: Shaft

CARBON IMPREGNATED: Radial bearings

CAST IRON: Pump housing (volute) (Closed Systems)

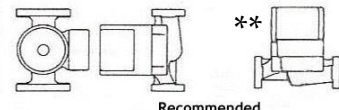
STAINLESS AND LEAD FREE BRASS: Open systems

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

POLYPROPYLENE: Impeller

Model	Performance	Ampere	Connection	Housing Material	Accepts Check Valve
AM1-ST1	10x4	0.25	3/4" NPT	Stainless Steel	-
AM3-ST1	4x7	0.46	3/4" NPT	Stainless Steel	-
AM3-SUEV1	4x6	0.46	Union, 3/4" Sweat	Stainless Steel	20mm
AM3-SUCV1	4x6	0.46	Union, 1/2" Sweat	Stainless Steel	20mm
AM5-F1	9x18	0.54	Flange, 2 Bolt	Cast Iron	-
AM5-FV1	9x16	0.54	Flange, 2 Bolt	Cast Iron	25mm
AM5-SF1	9x18	0.54	Flange, 2 Bolt	Stainless Steels	-
AM5-SFV1	9x16	0.54	Flange, 2 Bolt	Stainless Steel	25mm
AM6-ST1	8x11	0.54	3/4" NPT	Stainless Steel	-
AM6-SUEV1	8x10	0.54	Union, 3/4" Sweat	Stainless Steel	20mm
AM6-SUCV1	8x10	0.54	Union, 1/2" Sweat	Stainless Steel	20mm
AM7-F1	11x20	0.6	Flange, 2 Bolt	Cast Iron	-
AM7-FV1	11x16	0.6	Flange, 2 Bolt	Cast Iron	25mm
AM7-SF1	11x20	0.6	Flange, 2 Bolt	Stainless Steel	-
AM7-SFV1	11x16	0.6	Flange, 2 Bolt	Stainless Steel	25mm
AM7-ST1	11x14	0.6	3/4" NPT	Stainless Steel	-
AM8-F1	18x12	.62	Flange, 4 Bolt	Cast Iron	-
AM8-FV1	18x11	.62	Flange, 4 Bolt	Cast Iron	25mm
AM8-SF1	18x12	.62	Flange, 4 Bolt	Stainless Steel	-
AM8-SFV1	18x11	.62	Flange, 4 Bolt	Stainless Steel	25mm
AM10-F1	12x31	.75	Flange, 4 Bolt	Cast Iron	-
AM10-FV1	12x29	.75	Flange, 4 Bolt	Cast Iron	32mm
AM10-SF1	12x31	.75	Flange, 4 Bolt	Stainless Steel	-
AM10-SFV1	12x29	.75	Flange, 4 Bolt	Stainless Steel	32mm
AMR-3F1	21x17	Hi: 0.79 Med: 0.62 Lo: 0.46	Flange, 4 Bolt	Cast Iron	-
AMR-3FV1	20x16		Flange, 4 Bolt	Cast Iron	25mm
AMR-S3F1	21x17		Flange, 4 Bolt	Stainless Steel	-
AMR-S3FV1	20x16		Flange, 4 Bolt	Stainless Steel	25mm
AM10-3F1	12x31	Hi: 0.75 Med: 0.60 Lo: 0.45	Flange, 4 Bolt	Cast Iron	-
AM10-3FV1	12x29		Flange, 4 Bolt	Cast Iron	32mm
AM10-S3F1	12x31		Flange, 4 Bolt	Stainless Steel	-

**Mounting Positions**

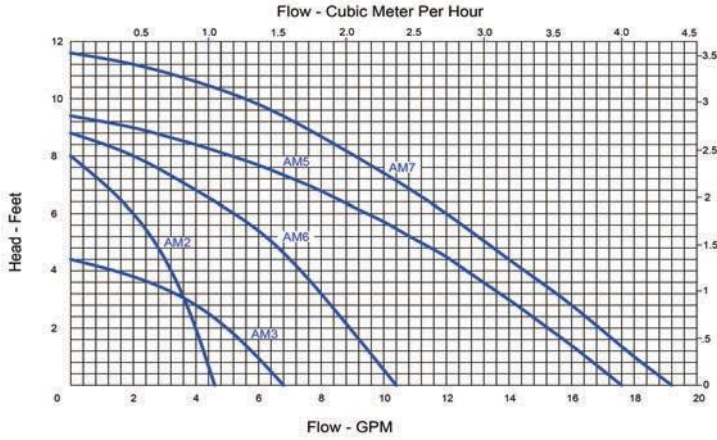


\*\*When the circulator is mounted in this position the system pressure must be 12 psi or more.

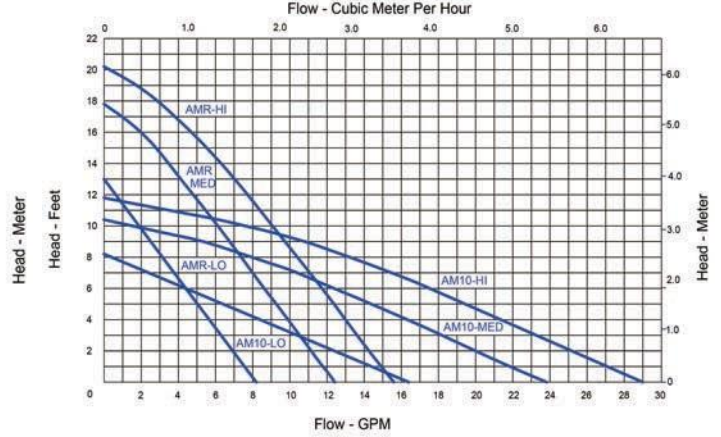
**For Indoor Use Only**

## PERFORMANCE DATA

### Single Speed Curves



### 3 - Speed Curves



Note: Units with check valves have slightly lower performance. (Curves available upon request)

## PUMP DIMENSIONS & WEIGHT

Model	A		B		C		D		F		G		Ship Wt.	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	Lbs.	Kg
AM1-ST1	5-1/2	140	4-5/8	117	2-3/8	60	3-3/16	81	3-3/8	86	5	127	5.1	2.3
AM3-ST1	5-1/2	140	4-5/8	117	2-3/8	60	3-3/16	81	3-3/8	86	5	127	4.8	2.2
AM3-SUEV1, AM3-SUCV1	5-1/2	140	4-5/8	117	3-1/4	83	3-3/16	81	4-7/8	124	6-13/16	173	5.1	2.3
AM5-F1, AM5-FV1, AM5-SF1, AM5-SFV1	6-5/16	160	4-3/8	111	3-3/16	81	3-3/16	81	4-7/8	124	6-3/8	162	6.6	3.0
AM6-ST1	5-1/2	140	4-5/8	117	2-3/8	60	3-3/16	81	3-3/8	86	5	127	4.8	2.2
AM6-SUCV1, AM6-SUEV1	5-1/2	140	4-5/8	117	3-1/4	83	3-3/16	81	4-7/8	124	6-13/16	173	4.65	2.3
AM7-F1, AM7-FV1, AM7-SF1, AM7-SFV1	6-5/16	160	4-3/8	111	3-3/16	81	3-3/16	81	4-7/8	124	6-3/8	162	6.6	3.0
AMR-3F1, AMR-3FV1, AMR-S3F1, AMR-S3FV1	6-1/2	165	4-9/16	116	2-3/4	70	3-3/16	81	4-7/8	124	6-3/8	162	7.6	3.4
AM10-3F1, AM10-3FV1, AM10-S3F1, AM10-S3FV1	6-11/16	170	4-3/4	121	2-3/4	70	3-3/16	81	4-7/8	124	6-3/8	162	7.9	3.6

