MARCH PUMPS
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815
HOT WATER PUMPS

DESCRIPTION & OPERATION: The March 815 Series hot water booster centrifugal magnetic drive pumps are built to handle liquid transfer in heating and cooling operations. Contact the factory for application assistance. Pumps are not self-priming, lack a suction lift, and thus require a flooded suction. Pumps cannot be run dry.

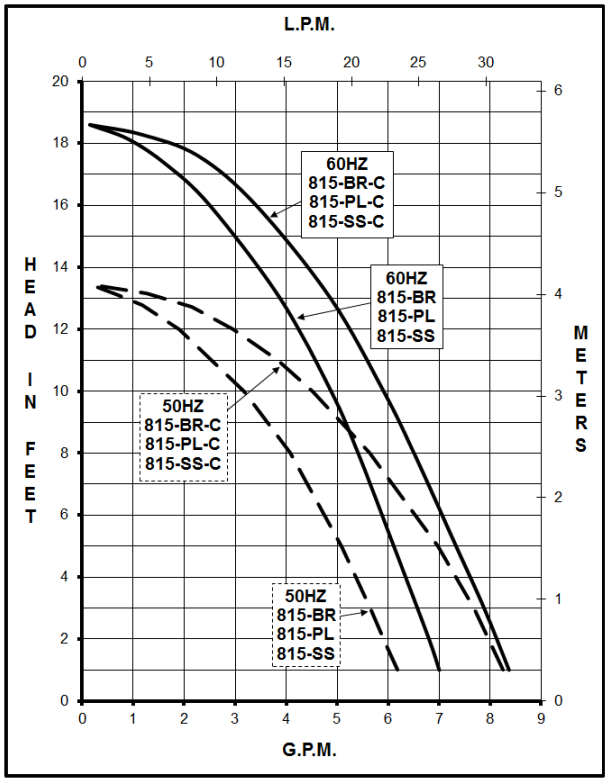
INSTALLATION: The 815 Series pumps should be installed with the pump housing arrow pointing in the direction of flow within the system. If the arrow indicating flow is not in the direction required, remove the housing screws holding the housing to the motor bracket and rotate the housing assembly as required. Replace the screws and tighten. The pump is composed of a wet end assembly which can be separated by unscrewing the housing screws. The pump will then separate into 2 parts. The liquid will be contained within the wet end assembly unless the rear housing screws on the rear housing are loosened.

LUBRICATION: The motor should be oiled annually at the start of the heating season with 4 or 5 drops of SAE 20 weight non-detergent oil in each bearing. If the pump is used year round it should be oiled every six months. Do not over oil.

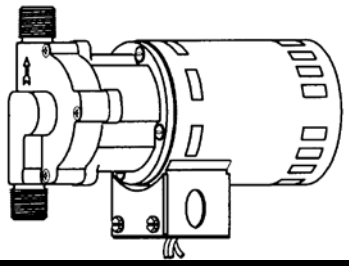
GENERAL SAFETY INFORMATION: Follow all local electrical and safety codes, and the Occupational Safety and Health Act (OSHA). Make certain that the power source conforms to the requirements of your equipment. Always disconnect power source before performing any work on or near the electric motor. Caution must be exercised to relieve any pressure in the system and in draining hot water from the pump or the system. March cannot recommend the 815 Series out of bronze where the liquid is used for human consumption per California Law due to the presence of lead.

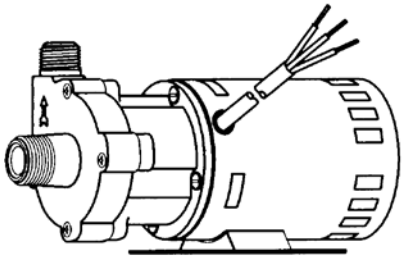
*UL Recognition on pumps, file E80954, is for water only. (815-BR, 815-PL) Motors are U.L. Yellow Card listed, impedance protected or thermal overload Protected. Complete pump under U.L. file E80954.

LIMITED WARRANTY: March pumps are guaranteed only against defects in workmanship or materials for a period of one year from date of manufacture pumping water. For the complete warranty and to register online go to www.marchpump.com/warranty-registration



SPECIFICATIONS

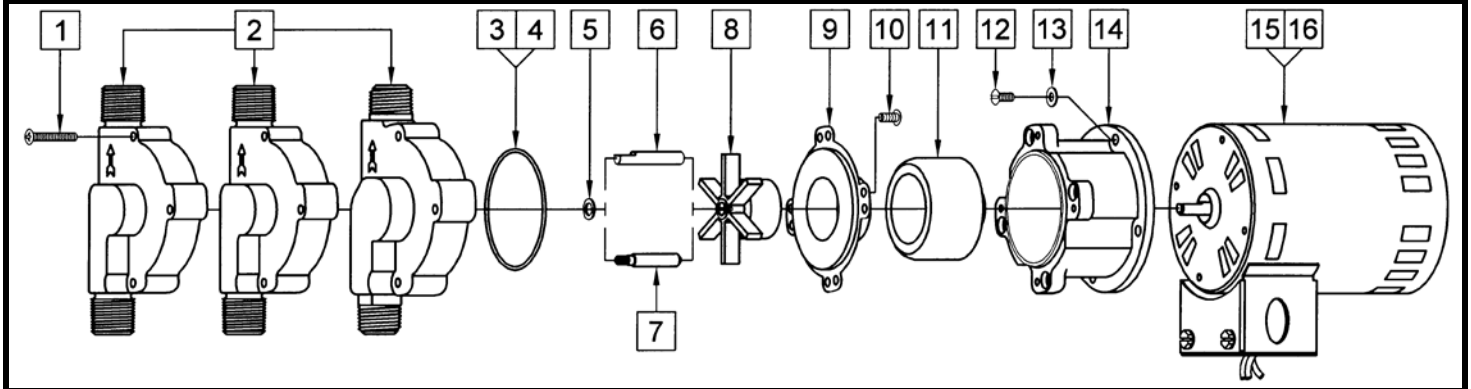




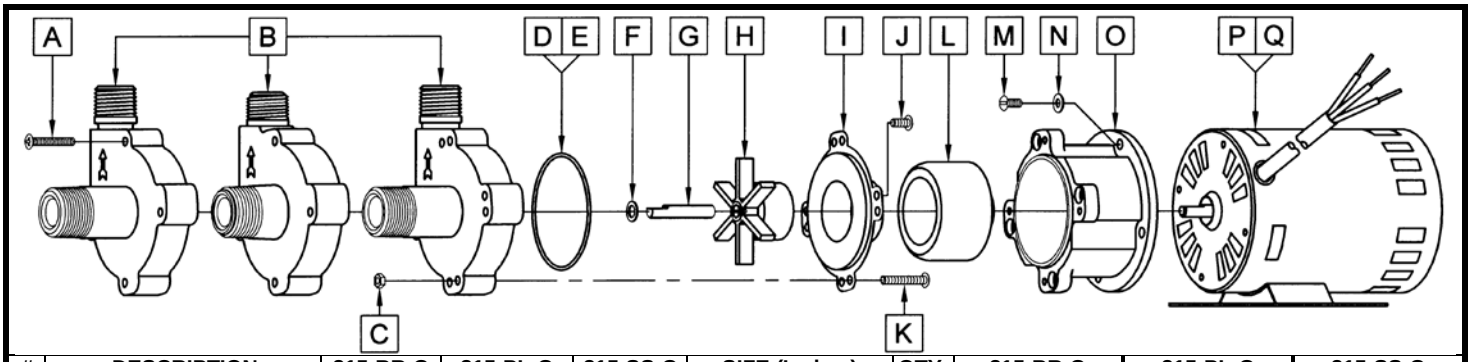
			815-BR	815-PL	815-SS	815-BR-C	815-PL-C	815-SS-C
Abbreviations			BR: Bronze	PL: Polysulfone	SS: Stainless	BR: Bronze	PL: Polysulfone	SS: Stainless
			Inline Inlet			C: Center Inlet		
Max Flow			60Hz {7 gpm} - 50Hz {22.7 lpm}			60Hz {8 gpm} - 50Hz {30 lpm}		
Max Head			60Hz {18.6 ft / 8.05 psi} - 50Hz {4.1 m}			60Hz {18.6 ft / 8.05 psi} - 50Hz {4.1 m}		
Inlet			1/2" MPT			3/4" MPT	3/8" FPT & 3/4" MPT	3/4" MPT
Outlet			1/2" MPT			1/2" MPT		
Max Internal Pressure			150 psi / 10 bar	50 psi / 3.4 bar	150 psi / 10 bar	150 psi / 10 bar	50 psi / 3.4 bar	150 psi / 10 bar
Max Liquid Temperature			250°F / 121°C			250°F / 121°C		
Overall Pump Size (H x W x L)	115V	Inches	5.31 x 3.33 x 7.74	5.31 x 3.38 x 7.74	5.31 x 3.33 x 7.74	4.50 x 3.50 x 8.94	4.37 x 3.50 x 8.43	4.50 x 3.50 x 8.62
		cm	13.4 x 8.4 x 19.6	13.4 x 8.5 x 19.6	13.4 x 8.4 x 19.6	11.4 x 8.8 x 22.7	11.0 x 8.8 x 21.4	11.4 x 8.8 x 21.8
	230V	Inches	4.87 x 3.33 x 7.74	4.88 x 3.38 x 7.74	4.87 x 3.33 x 7.74	4.50 x 3.50 x 8.94	4.37 x 3.50 x 8.43	4.50 x 3.50 x 8.62
		cm	12.3 x 8.4 x 19.6	12.3 x 8.5 x 19.6	12.3 x 8.4 x 19.6	11.4 x 8.8 x 22.7	11.0 x 8.8 x 21.4	11.4 x 8.8 x 21.8
Packed Weight			6 lbs / 2.7 kg	5 lbs / 2.3 kg	6 lbs / 2.7 kg	6 lbs / 2.7 kg	5 lbs / 2.3 kg	6 lbs / 2.7 kg
Motor Type			Air Cooled			Air Cooled		
			60Hz - 115V	50Hz - 115V	60Hz - 230V	50Hz - 230V	60Hz - 115V	50Hz - 115V	60Hz - 230V	50Hz - 230V
1Ph	Watts - Amps		111 - 1.4	114 - 1.4	112 - 0.7	117 - 0.7	122 - 1.4	129 - 1.4	126 - 0.7	128 - 0.7
	Hp / Kw - Rpm		1/25 - 3450	0.029 - 2850	1/25 - 3450	0.029 - 2850	1/25 - 3450	0.029 - 2850	1/25 - 3450	0.029 - 2850
Electrical Connection			Conduit Box		3 ft (0.9 m) Cord		3 ft (0.9 m) Cord			

All specifications & data are based on pumping water & are intended as a guideline only. Specifications may vary with different motors.

PARTS LIST



#	DESCRIPTION	815-BR	815-PL	815-SS	SIZE (Inches)	QTY.	815-BR	815-PL	815-SS
1	Screw (Housing)	Steel	Steel	Stainless	#8-32 x 1 Lg.	4	0923-0003-1000		0809-0205-1000
2	Pump Housing	Bronze	Polysulfone	Stainless	Inline Inlet & Outlet	1	0809-0013-0000	0809-0079-0100	0809-0211-0000
3	"O" Ring	Silicone			0.070 CS x 2.441 ID	1	0809-0165-1000		0809-0165-1000
4	"O" Ring	Silicone			1/16 CS x 2-3/8 ID	1		0809-0027-1000	
5	Thrust Washer	Teflon				1	0809-0043-1000		
6	Shaft (Current)	Stainless			"D" Flat	1	0809-0161-1000		
	Shaft (Old Style)	Stainless			"D" Flat	1			0809-0161-1000
7	Shaft (Current)	Stainless			Left-Hand Thread	1			0809-0214-1000
	Shaft (Old Style)	Stainless			Left-Hand Thread	1	0809-0008-1000		
8	Impeller	Ryton/Teflon/Glass			2-5/32 Dia.	1	0809-0107-0200		
9	Rear Housing	Stainless				1	0809-0012-1000		
10	Screw (Rear Housing)	Stainless			#8-32 x 3/8 Lg.	4	0135-0040-1000		
11	Drive Magnet					1	0125-0083-0100		
12	Screw	Stainless			#8-32 x 3/8 Lg.	4	0135-0040-1000		
13	Washer	Stainless			#8	4	0858-0004-1000		
14	Motor Bracket	Plastic				1	0809-0058-1000		
15	Motor 115V, 50/60Hz				Conduit Box	1	0809-0090-1000		
16	Motor 230V, 50/60Hz (Not Shown)				w/Cord, No Base	1	0135-0037-1000		



#	DESCRIPTION	815-BR-C	815-PL-C	815-SS-C	SIZE (Inches)	QTY.	815-BR-C	815-PL-C	815-SS-C
A	Screw (Housing)	Steel	Steel	Stainless	#8-32 x 1 Lg.	4	0923-0003-1000		0809-0205-1000
B	Pump Housing	Bronze	Polysulfone	Stainless	Center Inlet	1	0809-0142-0000	0809-0179-0100	0809-0150-0000
C	Hex Nut	Stainless				4			0991-0004-1000
D	"O" Ring	Silicone			0.070 CS x 2.441 ID	1	0809-0165-1000		0809-0165-1000
E	"O" Ring	Silicone			1/16 CS x 2-3/8 ID	1		0809-0027-1000	
F	Thrust Washer	Teflon				1	0809-0043-1000		
G	Shaft	Stainless				1	0809-0161-1000		
H	Impeller	Ryton/Teflon/Glass			2-5/32 Dia.	1	0809-0107-0200		
I	Rear Housing	Stainless				1	0809-0012-1000		
J	Screw (Rear Housing)	Stainless			#8-32 x 3/8 Lg.	4	0135-0040-1000		
K	Screw	Stainless			#8-32 x 1 Lg.	4			0809-0205-1000
L	Drive Magnet					1	0125-0083-0100		
M	Screw	Stainless			#8-32 x 3/8 Lg.	4	0135-0040-1000		
N	Washer	Stainless			#8	4	0858-0004-1000		
O	Motor Bracket	Plastic				1	0809-0058-1000		
P	Motor 115V, 50/60Hz				w/Cord & Base	1	0809-0123-1000		
Q	Motor 230V, 50/60Hz				w/Cord & Base	1	0809-0124-1000		

DISASSEMBLY & REASSEMBLY

The motor can be removed from the wet end assembly without draining the liquid from the system. To do so remove four housing screws and slide the motor assembly away. If parts inside the wet end assembly must be removed, isolate the pump or drain the system. When the system is drained and cool, remove the four rear housing screws from the rear of the housing. The rear housing can now be removed. Remaining pump parts can be removed. Replace any worn or damaged parts. Replace the "O" ring anytime the rear housing is removed.

NOTE: Contact Factory for other materials and/or parts not listed.