MARCH PUMPS

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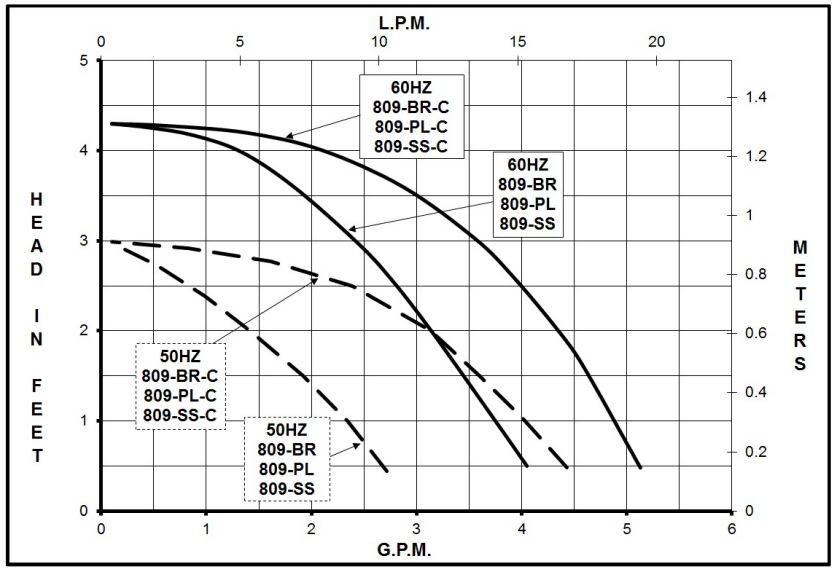
809 HOT WATER PUMPS

DESCRIPTION & OPERATION: 809 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.

INSTALLATIONS: 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.

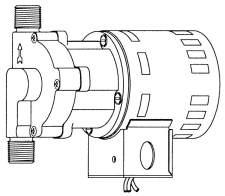
GENERAL SAFETY INFORMATION: Follow all local safety codes & the Occupational Safety and Health Act (OSHA). Make certain that the power source conforms to the requirements of your equipment. Always disconnect power source before performing any work on or near the electric motor. Caution must be exercised to relieve any pressure in the system & in draining hot water from the pump or the system. March cannot recommend the 809 Series out of bronze where the liquid is used for human consumption per California Law due to the presence of lead.

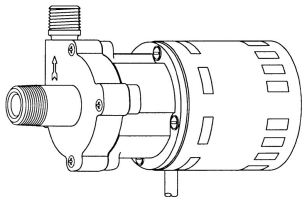
ELECTRICAL: Motors are available in different electrical configurations such as 115 Volt 60 Hz, 115V 50/60 Hz or 230 Volt 50/60 Hz, 1 Phase. The motors are U.L. listed and rated for continuous duty. Models 809-BR, 809-PL, & 809-SS have a conduit box. Models 809-BR-C, 809-PL-C, & 809-SS-C have a 3 foot (0.9 m) cord. Motors are air cooled.



SPECIFICATIONS

BR: Bronze
PL: Polysulfone
SS: Stainless
C: Center Inlet



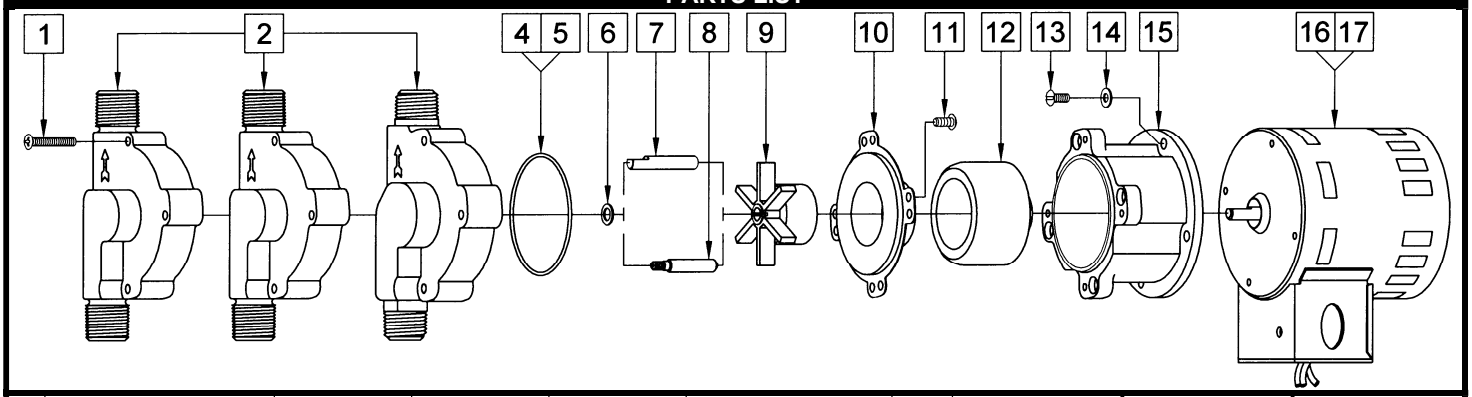


		809-BR	809-PL	809-SS	809-BR-C	809-PL-C	809-SS-C
Product #	115 V	0809-0064-0100	0809-0064-0300	0809-0215-0500	0809-0064-0200	0809-0064-0500	0809-0193-0100
	230 V	0809-0065-0100	0809-0065-0300	0809-0215-0600	0809-0065-0200	0809-0064-0600	0809-0193-0200
Inlet - Outlet		1/2" MPT - 1/2" MPT	1/2" MPT - 1/2" MPT	1/2" MPT - 1/2" MPT	3/4" MPT - 1/2" MPT	3/8" FPT & 3/4" MPT - 1/2" MPT	3/4" MPT - 1/2" MPT
Max Internal Pressure		150 psi (1034 kPa)	50 psi (344 kPa)	150 psi (1034 kPa)	150 psi (1034 kPa)	50 psi (344 kPa)	150 psi (1034 kPa)
Max Liquid Temperature		250 °F (121 °C)	250 °F (121 °C)	250 °F (121 °C)	250 °F (121 °C)	250 °F (121 °C)	250 °F (121 °C)

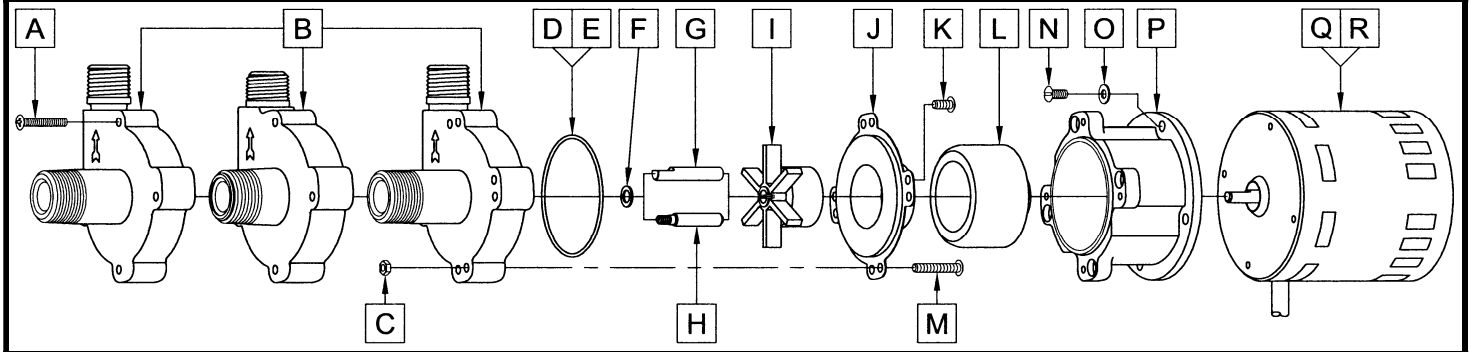
MODEL	60 Hz											50 Hz											Height		Width		Length		Packed Weight	
	Max Flow		Max Head			ELECTRICAL						Max Flow		Max Head			ELECTRICAL													
	gpm	lpm	ft	psi	m	Ph	V	A	Hp	kW	Rpm	gpm	lpm	ft	psi	m	Ph	V	A	Hp	kW	Rpm	Inches	cm	Inches	cm	Inches	cm	lbs	kg
809-BR & 809-SS	4.3	16.3	4.3	1.86	1.3	1	115	0.5	1/100	0.007	1750	2.72	10.3	3.02	1.3	0.92	1	115	0.6	1/100	0.007	1400	5.33	13.5	3.33	8.4	6.58	16.7	5.10	2.31
							230	0.17										230	0.19				5.12	13.0	3.33	8.4	6.54	16.6		
809-PL	4.3	16.3	4.3	1.86	1.3	1	115	0.5	1/100	0.007	1750	2.72	10.3	3.02	1.3	0.92	1	115	0.6	1/100	0.007	1400	5.33	13.5	3.38	8.5	6.58	16.7	4.35	1.97
							230	0.17										230	0.19				5.12	13.0	3.38	8.5	6.54	16.6		
809-BR-C	5.0	18.9	4.3	1.86	1.3	1	115	0.94	1/55	0.014	1750	4.4	16.7	3.02	1.3	0.92	1	115					4.25	10.7	3.38	8.5	7.90	20.0	6	2.7
							230	0.45	1/40	0.019								230	0.50	1/40	0.019	1400	4.25	10.7	3.38	8.5	8.15	20.7		
809-PL-C	5.0	18.9	4.3	1.86	1.3	1	115	0.94	1/55	0.014	1750	4.4	16.7	3.02	1.3	0.92	1	115					4.25	10.7	3.38	8.5	7.84	19.9	4.25	1.92
							230	0.45	1/40	0.019								230	0.50	1/40	0.019	1400	4.25	10.7	3.38	8.5	8.90	20.5		
809-SS-C	5.0	18.9	4.3	1.86	1.3	1	115	0.94	1/55	0.014	1750	4.4	16.7	3.02	1.3	0.92	1	115					4.13	10.4	3.38	8.5	7.40	18.7	6	2.7
							230	0.45	1/40	0.019								230	0.50	1/40	0.019	1400	4.13	10.4	3.38	8.5	7.65	19.4		

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

PARTS LIST



#	DESCRIPTION	809-BR	809-PL	809-SS	SIZE (Inches)	QTY.	809-BR	809-PL	809-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	0809-0211-0010
4	"O" Ring	Silicone		Silicone	0.070 CS x 2.441 ID	1	0809-0165-1000		0809-0165-1000
5	"O" Ring		Silicone		1/16 CS x 2-3/8 ID	1		0809-0027-1000	
6	Thrust Washer	Teflon				1	0809-0043-1000		
7	*Shaft	Stainless			"D" Flat	1		0809-0161-1000	
8	*Shaft	Stainless			Left-Hand Thread	1	0809-0214-1000		0809-0214-1000
9	Impeller	Ryton/Teflon/Glass			2 Dia.	1	0809-0005-0100		
10	Rear Housing	Stainless				1	0809-0012-1000		
11	Screw (Rear Housing)	Stainless			#8-32 x 3/8 Lg.	4	0135-0040-1000		
12	Drive Magnet					1	0125-0083-0100		
13	Screw				#8-32 x 3/8 Lg.	4	0135-0040-1000		
14	Washer	Stainless			#8	4	0858-0004-1000		
15	Motor Bracket	Plastic				1	0809-0058-1000		
16	Motor 115V, 50/60Hz				Conduit Box	1	0809-0064-1000		
17	Motor 230V, 50/60Hz (Not Shown)				Conduit Box	1	0809-0065-1000		



#	DESCRIPTION	809-BR-C	809-PL-C	809-SS-C	SIZE (Inches)	QTY.	809-BR-C	809-PL-C	809-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	0809-0150-0010
C	Hex Nut			Stainless	#8-32	4			0991-0004-1000
D	"O" Ring	Silicone		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			"D" Flat	1		0809-0161-1000	
H	*Shaft	Stainless			Left-Hand Thread	1	0809-0214-1000		0809-0214-1000
I	Impeller	Ryton/Teflon/Glass			2 Dia.	1	0809-0005-0100		
J	Rear Housing	Stainless				1	0809-0012-1000		
K	Screw (Rear Housing)	Stainless			#8-32 x 3/8 Lg.	4	0135-0040-1000		
L	Drive Magnet					1	0125-0083-0100		
M	Screw	Stainless			#8-32 x 1 Lg.	4			0809-0205-1000
N	Screw				#8-32 x 3/8 Lg.	4	0135-0040-1000		
O	Washer	Stainless			#8	4	0858-0004-1000		
P	Motor Bracket	Plastic				1	0809-0058-1000		
Q	Motor 115V, 60Hz				Cord	1	0135-0109-1000		
R	Motor 230V, 50/60Hz (Not Shown)				Cord	1	0135-0112-1000		

LUBRICATION: The motor should be oiled at least once a year 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 daily, it should be oiled every six months. Do not over oil.

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 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 0809-0053-1000 R25

*Check shaft type before ordering replacement parts.

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