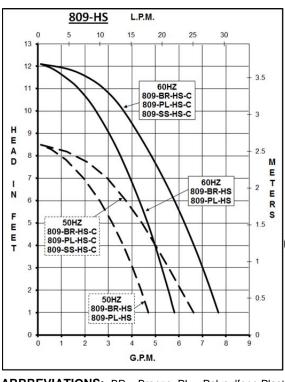
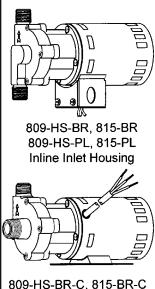


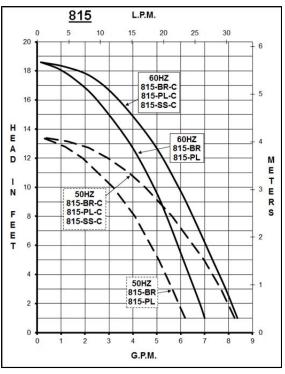
MARCH PUMPS

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809-HS & 815 HOT WATER PUMPS







ABBREVIATIONS: BR = Bronze, PL = Polysulfone Plastic, SS = Stainless Steel, C = Center Inlet.

<u>DESCRIPTION:</u> The March 809-HS & 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.

809-HS-PL-C, 815-PL-C

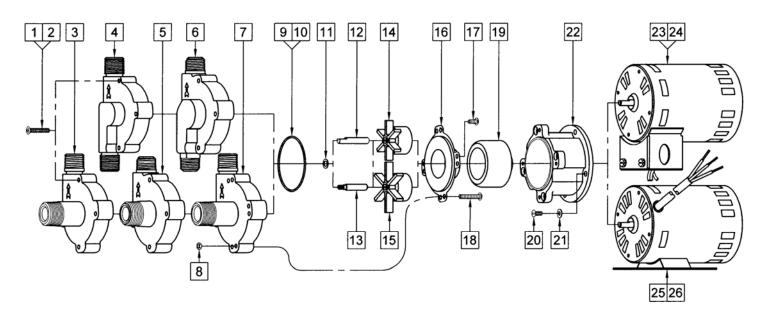
809-HS-SS-C, 815-SS-C Center Inlet Housing

OPERATION: These pumps are not self-priming, lack a suction lift, and thus require a flooded suction. These pumps cannot be run dry.

INSTALLATION: The 809-HS & 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 (Item 1 or 2) 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 screws (Item 1 or 2). The pump will then separate into 2 parts. The liquid will be contained within the wet end assembly unless the screws (Item 17 or 18) on the rear housing are loosened.

SPECIFICATIONS				809-BR-HS	809-PL-HS	809-BR-HS-C 809-PL-HS-C 809-SS-HS-						
Max F	low	50Hz	z lpm			26.4 7.5						
wax F	IOW	60Hz	gpm									
Max H	204	50Hz	z m	2	.5	2.5						
IVIAX IT	eau	60Hz	ft (psi)	12.1 (5.23)		12.1 (5.23)						
Inlet			Inlet	1/2" MPT		3/4" MPT	MPT 3/8" FPT & 3/4"					
			Outlet	1/2" MPT		1/2" MPT						
M	Max Internal psi			150	50	150	50	150				
Pressure				10	3.4	10	3.4	10				
Max Liquid °F				250		250						
Temperature °C				121		121						
Pacl	Packed Weigh		t kg/lbs	2.7/6	2.3/5	2.7/6	2.3/5	2.7/6				
			Motor Type	Air Cooled 1 Phase		Air Cooled 1 Phase						
50Hz	115	., W	atts - Amps	100 - 1.4		109 - 1.4						
30112			Kw - Rpm		- 2850	0.029 - 2850						
60Hz	115	5V W	atts - Amps	87 - 1.4		97 - 1.4						
			Hp - Rpm	1/25 - 3450		1/25 - 3450						
Electrical Connection					uit Box	3 ft (0.9 m) Cord						
	Overall Pump				/ 13.4	4.50 / 11.4 4.37 / 11.0 4.50 / 1						
		ions ir		3.33 / 8.4	3.38 / 8.5	3.50 / 8.8 8.94 / 22.7 8.43 / 21.4 8.62 / 2						
	Inches / cm Length		7.74 / 19.6		8.94 / 22.7	8.62 / 21.8						
Motor Type				Air Cooled 1 Phase		Air Cooled 1 Phase						
50Hz	230)// W	atts - Amps	104 - 0.7		110 - 0.7						
30112	200		Kw - Rpm	0.029 - 2850		0.029 - 2850						
60Hz	230	N/ W	atts - Amps	90 - 0.7		101 - 0.7						
			Hp - Rpm	1/25 - 3450		1/25 - 3450						
Electrical Connection					m) Cord	3 ft (0.9 m) Cord 4.50 / 11.4 4.37 / 11.0 4.50 / 11.4						
	Overall Pump Height			4.87 / 12.3	4.88 / 12.3	4.50 / 11.4	4.50 / 11.4					
Dimensions in Width				3.33 / 8.4	3.38 / 8.5	3.50 / 8.8						
!	Inches / cm Length			7.74	/ 19.6	8.94 / 22.7	8.43 / 21.4	8.62 / 21.8				

815-BR	815-PL	815-BR-C 815-PL-C 815-S							
22	2.7	30							
-	7	8							
4	.1		4.1						
18.6	(8.05)	18.6 (8.05)							
1/2"	MPT	3/4" MPT 3/8" FPT & 3/4" M							
1/2"	MPT	1/2" MPT							
150	50	150	150						
10	3.4	10 3.4 10							
2		250							
12	21	121							
2.7/6	2.3/5	2.7/6	2.3/5	2.7/6					
Air Coole	d 1 Phase	Air Cooled 1 Phase							
114	- 1.4	129 - 1.4							
0.029	- 2850	0.029 - 2850							
111	- 1.4	122 - 1.4							
1/25 -	3450	1/25 - 3450							
Condu	uit Box	3 ft (0.9 m) Cord							
5.31	/ 13.4	4.50 / 11.4	4.50 / 11.4						
3.33 / 8.4	3.38 / 8.5								
7.74	/ 19.6	8.94 / 22.7	8.43 / 21.4	8.62 / 21.8					
Air Coole	d 1 Phase	Air Cooled 1 Phase							
117	- 0.7	128 - 0.7							
0.029	- 2850	0.029 - 2850							
112	- 0.7	126 - 0.7							
1/25 -	3450	1/25 - 3450							
3 ft (0.9	m) Cord	3 ft (0.9 m) Cord							
4.87 / 12.3	4.88 / 12.3	4.50 / 11.4	4.50 / 11.4						
3.33 / 8.4	3.38 / 8.5 3.50 / 8.8								
7.74	/ 19.6	8.94 / 22.7	8.43 / 21.4	8.62 / 21.8					



	REPAIR PARTS LIST														
						809	809	809	809	809	815	815	815		815
ITEM	DESCRIPTION	MATERIAL	SIZE (Inches)	QTY	PART#	BR-HS	PL-HS	BR-HS-C	PL-HS-C	SS-HS-C	BR	PL	BR-C	PL-C	SS-C
1	Screw	Steel	#8-32 x 1 Lg	4	0923-0003-1000	S	S	S	S		S	S	S	S	
2	Screw	Stainless	#8-32 x 1 Lg	4	0809-0205-1000					S					S
3	Pump Housing	Bronze	Center Inlet	1	0809-0142-0000			S					S		
4	Pump Housing	Bronze	Inline Inlet & Outlet	1	0809-0013-0000	S					S				
5	Pump Housing	Polysulfone	Center Inlet	1	0809-0179-0100				S					S	
6	Pump Housing	Polysulfone	Inline Inlet & Outlet	1	0809-0079-0100		S					S			
7	Pump Housing	Stainless	Center Inlet	1	0809-0150-0000					S					S
8	Hex Nut	Stainless		4	0991-0004-1000					S					S
9	"O" Ring	Silicone	0.070 CS x 2.441 ID	1	0809-0165-1000	S		S		S	S		S		S
10	"O" Ring	Silicone	1/16 CS x 2-3/8 ID	1	0809-0027-1000		S		S			S		S	
11	Thrust Washer	Teflon		1	0809-0043-1000	S	S	S	S	S	S	S	S	S	S
12	Shaft	Stainless		1	0809-0161-1000	S	S	S	S	S	S	S	S	S	S
13	Shaft (Old Style)	Stainless	Left-Hand Thread	1	0809-0008-1000	0					0				
14	Impeller	Ryton/Teflon/Glass	1-11/16 Dia.	1	0809-0005-0200	S	S	S	S	S					
15	Impeller	Ryton/Teflon/Glass	2-5/32 Dia.	1	0809-0107-0200						S	S	S	S	S
16	Rear Housing	Stainless		1	0809-0012-1000	S	S	S	S	S	S	S	S	S	S
17	Screw	Stainless	#8-32 x 3/8 Lg	4	0135-0040-1000	S	S	S	S		S	S	S	S	
18	Screw	Stainless	#8-32 x 1 Lg	4	0809-0205-1000					S					S
19	Drive Magnet			1	0125-0083-0100	S	S	S	S	S	S	S	S	S	S
20	Screw	Stainless	#8-32 x 3/8 Lg	4	0135-0040-1000	S	S	S	S	S	S	S	S	S	S
21	Washer	Stainless	#8	4	0858-0004-1000	S	S	S	S	S	S	S	S	S	S
22	Motor Bracket	Plastic		1	0809-0058-1000	S	S	S	S	S	S	S	S	S	S
23	Motor 115V, 50/6	Conduit Box	1	0809-0090-1000	S	S				S	S				
24	Motor 230V, 50/6	w/Cord, No Base	1	0135-0037-1000	S	S				S	S				
25	Motor 115V, 50/6	w/Cord & Base	1	0809-0123-1000			S	S	S			S	S	S	
26	Motor 230V, 50/6	w/Cord & Base	1	0809-0124-1000			S	S	S			S	S	S	
	NOTE: Contact Factory for other materials and/or parts not listed. *Not Shown Legend: S = Standard, O = Optional														

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

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.

<u>GENERAL SAFETY INFORMATION:</u> 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 809 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. Motors are U.L. Yellow Card listed, impedance protected or thermal overload Protected. Complete pump under U.L. file E80954.

DISASSEMBLY AND REASSEMBLY: The motor can be removed from the wet end assembly without draining the liquid from the system. To do so remove four screws (Item 1 or 2) 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 (Item 17 or 18) 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.

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