

MARCH PUMPS

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809-HS 12 & 24 VDC HOT WATER PUMPS

DESCRIPTION:

March 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.

INSTALLATION:

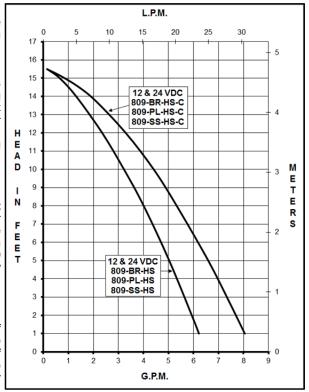
Pumps are not self-priming, lack a suction lift, and thus require a flooded suction. Pumps cannot be run dry. The 809 Series pumps should be installed with the pump housing arrow pointing in the direction of flow within the system. If the arrow indicating flow is not in the direction required, remove 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 screws on the rear housing are loosened.

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 809 Series out of bronze where the liquid is used for human consumption per California Law due to the presence of lead.

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.



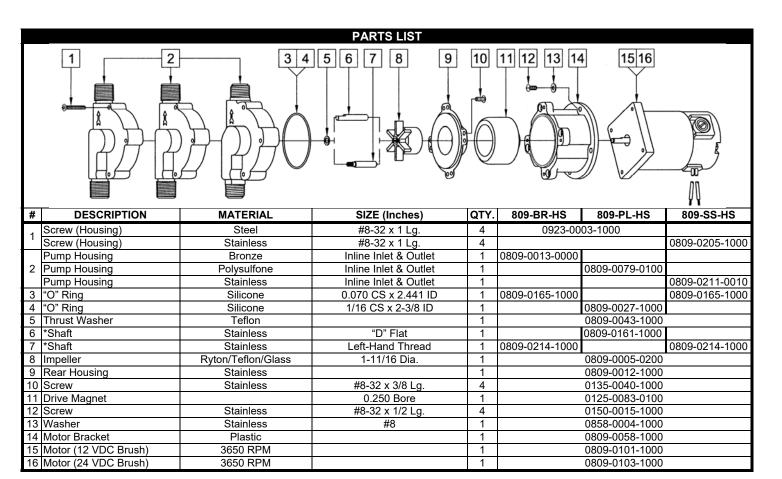
ELECTRICAL:

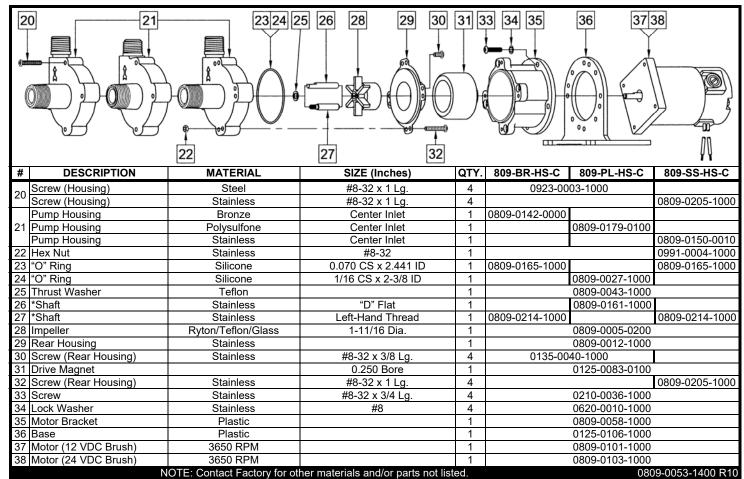
Motors are DC brush type.

Red lead is positive & Blue lead is negative.

809-BR-	HS 80	9-SS-HS	809-PL-HS									809-PL-HS-C			
0809-0101-	080 080	9-0215-0300	0809-0157-0100				0809-0	9-0146-0300 0809-0177-0400			0809-0180-0300				
0809-0103-	080 080	9-0215-0400	0809-0158-0100				0809-0146-0400 0809-0177-0300			0809-0180-0400					
BR: Bror	ze SS	PL: Polysulfone				BR: Bronze SS: Stainless			PL: Polysulfone						
Inline Inlet Inline Inlet			Inline Inlet				C: Center Inlet			C: Center Inlet					
6 g	6 gpm - 22.7 lpm				8 gpm - 30.2 lpm				8 gpm - 30.2 lpm						
15.5 f	15.5 ft / 6.7 psi - 4.7 m				15.5 ft / 6.7 psi - 4.7 m				15.5 ft / 6.7 psi - 4.7 m						
	1/2" MPT				3/4" MPT				3/8" FPT & 3/4" MPT						
	1/2" MPT								1/2" MPT						
150 psi / 1034 kPa Max			50 psi / 344 kPa Max				150 psi / 1034 kPa Max				50 psi / 344 kPa Max				
250 °F / 121 °C Max											250 °F / 121 °C Max				
			4.5 lbs / 2 kg								4.5 lbs / 2 kg				
			W	Α	Нр				Α			W	Α		kW Rpm
															.029 3650
	3 1/25 0	0.029 3650	43	1.8	1/25	0.029	3650		_	1/25 0	0.029 3650		_	1/25 0	.029 3650
Height	Width	Length	_		Width					Width	Length			Width	Length
						_									7.83
															19.8
	0809-0101-0 0809-0103-0 BR: Bron Inline Inl 6 g 15.5 f 150 ps 250 5 W A 43 3.5 43 1.8 Height 4.87 17.6	0809-0101-0100 080 0809-0103-0100 080 BR: Bronze SS Inline Inlet Ir 6 gpm - 22.7 15.5 ft / 6.7 psi-1/2" MPT 1/2" MPT 1/2" MPT 150 psi / 1034 kf 250 °F / 121 °C 5.5 lbs / 2.5 W A Hp 43 3.5 1/25 (43) 1.8 1/25 (43) Height Width 4.87 3.31 17.6 8.4	0809-0101-0100 0809-0215-0300 0809-0103-0100 0809-0215-0400 BR: Bronze SS: Stainless Inline Inlet Inline Inlet 6 gpm - 22.7 lpm 15.5 ft / 6.7 psi - 4.7 m 1/2" MPT 1/2" MPT 1/2" MPT 1/2" MPT 150 psi / 1034 kPa Max 250 °F / 121 °C Max 5.5 lbs / 2.5 kg W A Hp kW Rpm 43 3.5 1/25 0.029 3650 43 1.8 1/25 0.029 3650 Height Width Length 4.87 3.31 6.94 17.6 8.4 12.3	0809-0101-0100 0809-0215-0300 0809-0103-0100 0809-0215-0400 BR: Bronze SS: Stainless Inline Inlet Inline Inlet 6 gpm - 22.7 lpm 15.5 ft / 6.7 psi - 4.7 m 15.5 ft / 6.7 psi - 4.7 m 1/2" MPT 1/2" MPT 150 psi / 1034 kPa Max 5 250 °F / 121 °C Max 2 5.5 lbs / 2.5 kg 8 W A Hp kW Rpm W 43 3.5 1/25 0.029 3650 43 43 1.8 1/25 0.029 3650 43 Height Width Length Height Height 4.87 3.31 6.94 4.86 17.6 8.4 12.3 17.6	0809-0101-0100 0809-0215-0300 0809 0809-0103-0100 0809-0215-0400 0809 BR: Bronze SS: Stainless PL: Inline Inlet Inline Inlet Inline Inlet 6 gpm - 22.7 lpm 6 gp 15.5 ft / 6.7 psi - 4.7 m 15.5 ft 1/2" MPT 1/2" MPT 150 psi / 1034 kPa Max 50 psi 250 °F / 121 °C Max 250 °F 5.5 lbs / 2.5 kg 4. 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250 °F / 121 °C Max 250 °F / 121 °C Max 250 °F / 121 °C Max 5.5 lbs / 2.5 kg 4.5 lbs / 2 kg W A Hp kW Rpm W A Hp kW Rpm W Rpm W 43 1.8 1/25 0.029 3650 43 1.8 1/25 0.029 3650 43 43 4.87 3.31 6.94 4.88 3.38 6.94 4.6 4.76 8.4 12.3 17.6 8.5 12.3 11.	0809-0101-0100 0809-0215-0300 0809-0157-0100 0809-0146-0 0809-0103-0100 0809-0215-0400 0809-0158-0100 0809-0146-0 BR: Bronze SS: Stainless PL: Polysulfone BR: Bronze Inline Inlet Inline Inlet C: Center Inline Inlet 6 gpm - 22.7 lpm 6 gpm - 22.7 lpm 8 gp 15.5 ft / 6.7 psi - 4.7 m 15.5 ft / 6.7 psi - 4.7 m 15.5 ft 1/2" MPT 1/2" MPT 1/2" MPT 150 psi / 1034 kPa Max 50 psi / 344 kPa Max 150 psi 250 °F / 121 °C Max 250 °F / 121 °C Max 250 °F / 121 °C Max 5.5 lbs / 2.5 kg 4.5 lbs / 2 kg 5.5 W A Hp kW Rpm W A Hp kW Rpm W A A Hp kW Rpm W A 43 1.8 1/25 0.029 3650 43 1.8 1/25 0.029 3650 43 1.8 1/25 0.029 3650 43 1.8 1/25 0.029 3650 43 1.8 Height Width Length Height Width Length Height Height Height Height Height Height Height 17.6 8.4 12.3 17.6 8.5 12.3 11.9	0809-0101-0100 0809-0215-0300 0809-0157-0100 0809-0146-0300 0809-0146-0300 0809-0103-0100 0809-0215-0400 0809-0158-0100 0809-0146-0400 0809-0146-0400 BR: Bronze SS: Stainless PL: Polysulfone BR: Bronze SS Inline Inlet Inline Inlet C: Center Inlet	0809-0101-0100 0809-0215-0300 0809-0157-0100 0809-0146-0300 0809-0177-0400 0809-0103-0100 0809-0215-0400 0809-0158-0100 0809-0146-0400 0809-0177-0300 BR: Bronze SS: Stainless PL: Polysulfone BR: Bronze SS: Stainless Inline Inlet Inline Inlet C: Center Inlet C: Center Inlet 6 gpm - 22.7 lpm 6 gpm - 22.7 lpm 8 gpm - 30.2 lpm 15.5 ft / 6.7 psi - 4.7 m 15.5 ft / 6.7 psi - 4.7 m 15.5 ft / 6.7 psi - 4.7 m 1/2" MPT 1/2" MPT 3/4" MPT 150 psi / 1034 kPa Max 50 psi / 344 kPa Max 150 psi / 1034 kPa Max 250 °F / 121 °C Max 250 °F / 121 °C Max 250 °F / 121 °C Max 5.5 lbs / 2.5 kg 4.5 lbs / 2 kg 5.5 lbs / 2.5 kg W A Hp kW Rpm W A Hp kW Rpm 43 1.8 1/25 0.029 3650 43 1.8 1/25 0.029 3650 43 1.8 1/25 0.029 3650 43 1.8	0809-0101-0100 0809-0215-0300 0809-0157-0100 0809-0146-0300 0809-0177-0400 0809-0103-0100 0809-0215-0400 0809-0158-0100 0809-0146-0400 0809-0177-0300 BR: Bronze SS: Stainless PL: Polysulfone BR: Bronze SS: Stainless Inline Inlet Inline Inlet C: Center Inlet C: Center Inlet 6 gpm - 22.7 lpm 6 gpm - 22.7 lpm 8 gpm - 30.2 lpm 15.5 ft / 6.7 psi - 4.7 m 15.5 ft / 6.7 psi - 4.7 m 15.5 ft / 6.7 psi - 4.7 m 1/2" MPT 1/2" MPT 3/4" MPT 150 psi / 1034 kPa Max 50 psi / 344 kPa Max 150 psi / 1034 kPa Max 250 °F / 121 °C Max 250 °F / 121 °C Max 250 °F / 121 °C Max 5.5 lbs / 2.5 kg 4.5 lbs / 2 kg 5.5 lbs / 2.5 kg W A Hp kW Rpm W A Hp kW Rpm W 43 1.8 1/25 0.029 3650 43 1.8 1/25 0.029 3650 43 4.87 3.31 6.94 4.88 3.38 <	0809-0101-0100 0809-0215-0300 0809-0157-0100 0809-0146-0300 0809-0177-0400 0809-0177-0400 0809-0103-0100 0809-0215-0400 0809-0158-0100 0809-0146-0400 0809-0177-0300 0809-0177-0300 BR: Bronze SS: Stainless PL: Polysulfone BR: Bronze SS: Stainless PL: Description of the property of the pro	809-BR-HS 809-SS-HS 809-PL-HS 809-BR-HS-C 809-SS-HS-C 809-PL-HS-C 0809-0101-0100 0809-0215-0300 0809-0157-0100 0809-0146-0300 0809-0177-0400 0809-0180-00 0809-0103-0100 0809-0215-0400 0809-0158-0100 0809-0146-0400 0809-0177-0300 0809-0180-00 0809-0103-0100 0809-0158-0100 0809-0146-0400 0809-0177-0300 0809-0180-00 0809-0103-0100 0809-0158-0100 0809-0146-0400 0809-0177-0300 0809-0180-00 0809-0103-0100 0809-0158-0100 0809-0146-0400 0809-0177-0300 0809-0180-00 0809-0103-0100 0809-0146-0400 0809-0177-0300 0809-0180-00 0809-0177-0300 0809-0180-00 0809-01103-0100 0809-01146-0400 0809-0177-0400 0809-0177-0300 0809-0180-00 0809-0177-0400 0809-0177-0300 0809-0177-0300 0809-0177-0400 0809-0177-0400 0809-0178-000 0809-0177-0400 0809-0177-0400 0809-0177-0400 0809-0177-0400 0809-0177-0400 0809-0178-000 0809-0178-00 0809-0178-00 0809-0178-00 0809-0178-00 0809-0178-00

<u>LIMITED WARRANTY:</u> 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





^{*}Check shaft type before ordering replacement parts.