

809-HS 24 VDC Brushless 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.

Model Abbreviations:

BR: Bronze, PL: Polysulfone, SS: Stainless Steel

HS: High Speed, C: Center Inlet

INSTALLATION:

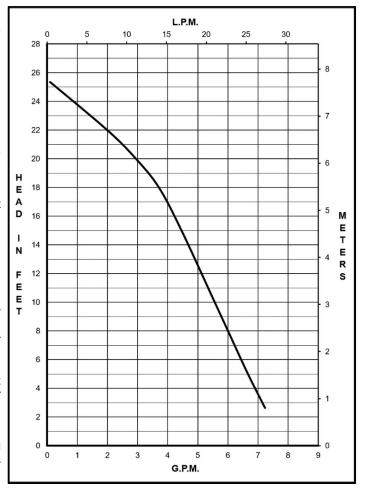
Pumps are not self-priming, lack a suction lift, and thus require a flooded suction. Pumps cannot be run dry and should be installed with the pump housing arrow pointing in the direction of flow within the system. If the arrow indicating flow is not in the direction required, remove the housing screws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

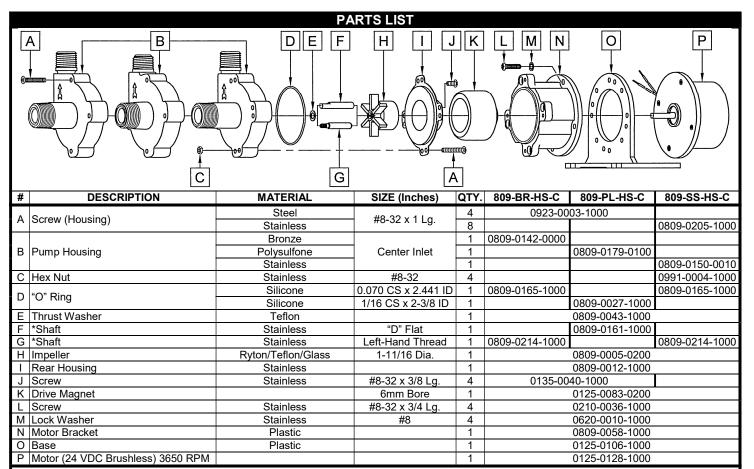
ELECTRICAL:

All models have a DC brushless motor. Motor has leads for electrical connection (11-1/2" Long). The red lead is positive & black lead is negative. Motor must be operated within a restricted voltage range due to motor electronics (14V to 30V).



SPECIFICATIONS MODELS 809-BR-HS-C 809-PL-HS-C 809-SS-HS-C 0809-0206-0200 0809-0177-0600 Product # 24 V 0809-0180-0600 Inlet 3/4" MPT 3/8" FPT & 3/4" MPT 3/4" MPT Outlet 1/2" MPT 1/2" MPT 1/2" MPT Max Internal Pressure 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 Packed Weight 5.5 lbs / 2.5 kg 4.5 lbs / 2 kg 5.5 lbs / 2.5 kg **Max Flow** Max Head **ELECTRICAL** Height Width Length MODEL gpm | lpm psi ٧ W Hp | kW | Rpm Inches Inches cm Inches ft m cm cm 809-BR-HS-C 27.2 25 24 50 2.1 1/25 | 0.029 | 3800 | 4.69 11.9 4.50 11.4 6.54 7.2 10.8 7.6 16.6 809-PL-HS-C 25 10.8 7.6 24 50 2.1 1/25 0.029 3800 4.57 11.6 | 4.50 | 11.4 6.05 15.3 7.2 27.2 809-SS-HS-C 7.2 27.2 25 10.8 7.6 24 50 2.1 1/25 0.029 3800 4.69 11.9 | 4.50 | 11.4 | 6.54

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



DISASSEMBLY & REASSEMBLY

The motor can be removed from the wet end assembly without draining the liquid from the system. To do so remove the 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.

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

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

0809-0053-1500 R4

*Check shaft type before ordering replacement parts.