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MDX is a magnetically driven circulator pump designed to pump engine coolant.

The MDX features a type 3 anodized aluminum housing and adaptor for corrosion resistance. There is no mechanical seal in the pump since the rotor is magnetically coupled to the motor.



GENERAL SAFETY INFORMATION:

THE FOLLOWING WARNINGS ARE USED TO NOTIFY AND ADVISE THE USER OF THIS PRODUCT OF PROCEDURES THAT MAY BE DANGEROUS TO THE USER OR RESULT IN DAMAGE TO THE PRODUCT.

THIS BULLETIN MUST BE READ COMPLETELY BEFORE INSTALLING, OPERATING, OR SERVICING THE PUMP.

- •DO NOT perform service or maintenance when the pumping system is pressurized. Injury may occur.
- •DO NOT operate the pump in a manner that was not intended •DO NOT continue to operate the pump when unusual noise to be used.
- •DO NOT mount the pump such that high piping loads exist on •DO NOT continue to operate beyond the pressure or the pump flanges, or in a rigid piping system that does not allow the pipe to expand and cause the pump to be strained.
- •DO NOT continue to operate the pumping system when a known leak exists.
- or vibration occurs.
 - temperature limits stated in the product literature.
 - •DO NOT allow severe temperature changes to occur in a short time period within the pumping system.

INSTALLATION:

Never expose the pump to extremely wet or dirty conditions. The pump should be mounted away from highly contaminated areas or shielded from the environment. Use of additives in the cooling systems can cause excessive wear and premature failure. Check with factory on coolant additive usage.

PIPING /MOUNTING:

The MDX has flange connections so the motor should not require further restraint. However, if the system cannot carry the weight of the pump then the motor should be secured with a strap clamp or optional base.

ELECTRICAL:

24-volt systems should never exceed 30-volts, while the 12volt systems should never exceed 15-volts.

Operation:

Never run the pump dry as it can harm the pump and cause premature failures. Do not place the MDX in ambient temperatures exceeding 200 degreees Fahrenheit. Coolant temperatures in excess of 210°F are not recommended. High temperatures will reduce life of motor components

Repair and Maintenance:

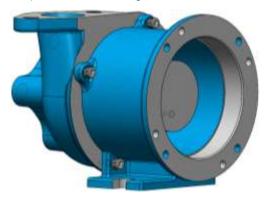
The pump has no mechanical seal and instead has a wet rotor that is magnetically coupled to the motor. A pump that leaks means that the O-Ring between the housing and adaptor is not sealing properly. If the pump stops working, you must check the rotor assembly for damage and replace if necessary.

With the use of the above installation parameters, each MP pump should provide years of trouble-free service. Not considering these installation criteria could cause permature failure and voids the warranty.

REASSEMBLY INSTRUCTIONS:

1. Housing Assembly/Disassembly

Have the housing face down on the work surface and line up the adaptor holes with the holes in the housing. Then install the four (4) #8 capscrews by having them go through the adaptor and into the housing. /Remove the four (4) #8 capscrews that go through the adaptor and into the housing.



2. Rotor Assembly/Disassembly

Slide the rotor assembly onto the shaft and then slide the ceramic washer onto the shaft. /Remove the ceramic washer and then slide off the rotor assembly.

