

# **MR and TR Series** bearing housing

INSTALLATION - OPERATION - MAINTENANCE

Z1073180\_A ISSUED 7/2020

READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR SERVICING THIS PRODUCT.



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## maintenance

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### **Warning**

***Always shut off electrical power to the tower fan motor prior to performing any maintenance on the tower. Any electrical switches should be locked out and tagged out to prevent others from turning the power back on.***

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### **Lubrication**

Only the lower thrust bearing is regreasable. The other bearings are sealed. Lubricate the lower thrust bearing with 0.5 ounces of lithium grease at the grease zerk every three months. Do not over lubricate the bearing. Mobile SHC 460 grease is recommended. Some versions of the bearing housing have a grease zerk near the top to lube the upper seal. Apply 0.2 ounces of lithium grease every 3 months at the upper seal location.

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### **Inspection**

Check for excessive end play and bearing roughness every three months. If either condition is present, proceed to repair or replace.

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### **Repair and Overhaul**

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### **Caution**

***Do not attempt to disassemble the bearing housing while it is installed in the cooling tower. Remove the bearing housing from the tower before disassembly.***

Replacement bearing and seal kits are available through your local Marley sales representative.

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### **Removal**

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### **Caution**

***Removal of the bearing housing should only be performed by a qualified technician.***

- Remove the fan.
- Loosen the motor support bolts and belt tensioning rods.
- Remove the belt.
- Secure the sheave with straps to prevent it from falling when the fan sheave is loosened.
- Loosen the sheave from the bearing housing shaft.
- Lower the sheave to a stable resting position where it can remain while the other removal work is performed.
- Remove the bolts that secure the bearing housing to the mechanical support beams.
- Hoist the bearing housing through the fan opening. Bearing housing weight is listed on the bearing housing nameplate.

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## installation

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### **Installation**

- Lower the bearing housing into the tower through the fan opening.
- Install bolts to secure the bearing housing to the mechanical support beams.
- Install the fan sheave and ensure that it is aligned vertically with the motor sheave. Refer to the cooling tower user manual for sheave alignment instructions.
- Install the belt. Refer to the cooling tower user manual for belt tensioning instructions.
- Apply a rust proofing or anti-seize compound on the top section of the bearing housing shaft to reduce corrosion and make it easier to remove the fan in the future.
- Install the fan. Spin the fan manually to assure that all fan blades properly clear the inside of the fan cylinder.

# MR and TR Series bearing housing

USER MANUAL

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Z1073180\_A | ISSUED 7/2020

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