

Best Practices for Maintaining Dry Rotor and Wet Rotor Circulator Pumps

Circulator pumps play a crucial role in hydronic systems, ensuring efficient fluid circulation for heating and cooling applications and delivering clean water for potable applications. To maximize the performance and lifespan of these pumps, it is essential to adhere to proper maintenance practices. This white paper focuses on various maintenance tips for both dry rotor and wet rotor circulator pumps, emphasizing periodic inspections and installation recommendations with a special focus on accompanying accessories.

PERIODIC INSPECTIONS

Implementing a regular inspection schedule significantly contributes to the reliability and longevity of circulator pumps. Routine inspections are vital for identifying potential issues early on and preventing unexpected failures. Periodic checks should include:

- Examining pump for leaks
- Verifying electrical connections for signs of wear or corrosion
- Inspecting bearings for any unusual noise or vibration
- Verifying proper functioning of control panels and safety features

INSTALLATION RECOMMENDATIONS

Proper installation is key to the optimal performance of circulator pumps. The following recommendations, with a focus on specific accessories, should be considered during installation:

1. Air control recommendations and Accessories

- Use air control accessories such as an EASB or air vents, along with coalescing separators, to ensure efficient air removal.

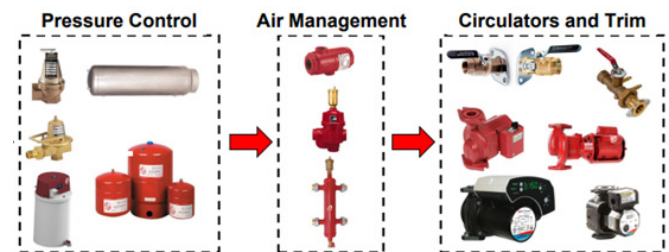


2. Check Valves

- Include check valves in the installation to prevent backflow and maintain system efficiency.

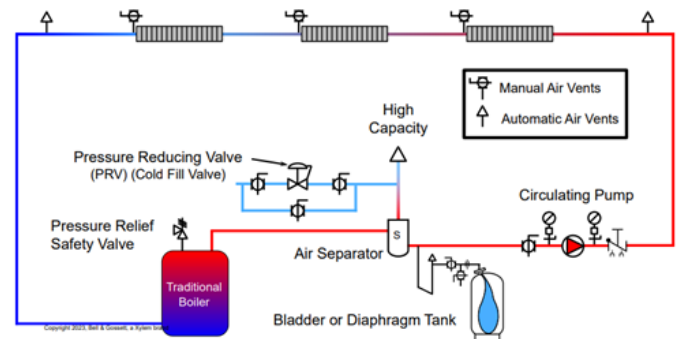
3. Isolation Flanges

- Utilize isolation flanges or check-trol's to facilitate easy maintenance and repairs without affecting the entire system.



4. Pump Installation recommendations

- Avoid installing pumps at a low point to prevent sediment build-up.
- Avoid high points in the system, as this makes air control more critical.
- Install the pump vertically to prevent air bubbles entrapped in the pump.
- Pump away from the point of no pressure change to enhance air control in hydronic systems.



5. Periodic Water Quality Testing

It is important to assess the water quality periodically as sediment buildup and water mixture can change as the system is maintained and parts are replaced. We recommend all our pumps be used in a clean water system. The use of dirt and magnetic separators for water that has a high particulate concentration is recommended.

6. Glycol Mixture Management

We advise checking glycol concentration periodically, to prevent system inefficiencies due to dilution over time as the system is maintained and refilled.

Implementing these maintenance tips and installation recommendations, along with the suggested accessories, will contribute to the longevity, efficiency, and reliability of circulator pumps in hydronic systems. Regular inspections, proper installation, and attention to water quality are essential elements of a comprehensive maintenance strategy to optimize system performance.

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