



TECHNICAL BULLETIN



RS SERIES PREVENTATIVE MAINTENANCE

TB: 24-02

Date: Tuesday, February 20th, 2024

Product Lines Affected: RS Series Industrial Humidifier

OVERVIEW

Condair RS Series humidifiers are designed to deliver steam efficiently and effectively across a diverse range of water conditions. To ensure safe and reliable operation, regular preventative maintenance is essential.

The RS Series units rely on resistive heating elements powered by mechanical contactors to deliver heat energy and boil water. These devices wear over time and must be inspected annually to ensure their continued operation. Additionally, they must be replaced periodically as they exhaust their useful life cycles.

HEATING ELEMENT AND CONTACTOR MAINTENANCE REQUIREMENTS:

Heating Elements: Given average water conditions, the service life of heating elements is approximately 5 years. Heating elements can deteriorate over time depending on the use and/or water conditions. Excessive scale accumulations can accelerate this deterioration. Heating elements can overheat or fail destructively after their end of useful life. Maintenance:

- Perform a megger test at the annual service interval to measure insulation resistance. Acceptable values must be $>1\text{M}\Omega$. Heating elements values outside of this range must be replaced.
- It is recommended elements are replaced every 5 years.

Contactors: Contactors cycle on and off to deliver electricity to the heating elements and begin to deteriorate after many cycles. Contactors should be inspected for smooth actuation annually and replaced as follows:

- Standard models: Use contactors to directly power the heating elements. Contactors are endurance rated for 250,000 cycles and should be replaced every 2 years in these models.
- Precision models: Equipped with solid-state relays to power the heating elements and the contactors cycle much less frequently. Contactors are endurance rated for 250,000 cycles and should be replaced in these models every 5 years.

Refer to the spare parts manual to get information about the spare parts kits. For regular maintenance, the operations and maintenance manual can be used.

NEXT STEPS

Now is the time to prepare your RS Series service and preventative maintenance outreach program for the next heating season.

Please be sure to follow up with your customers that have units over 2 years old to share this information.

USEFUL LINKS

Access the following manuals [HERE](#):

- RS Spare Parts Manual PN: 2589893
- RS Installation Manual PN: 2582419
- RS Operation Manual PN: 2582418

Visit the [RS Series webpage](#) for more information on the RS Series products.

If you have questions, please contact the Technical Product Manager undersigned.

Sincerely,

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