



Water free Turbines & Hydraulic systems

WITH MINI WATER VAC

Vattenfall Värme Uppsala provides 90 percent of all homes in Uppsala by district heating. The heat is generated by using biofuel, waste or waste heat.

Vattenfall had a problem that water has found its way into their hydraulic system. This can cause damage to hydraulic components and eventually break down the system. Downtime to this hydraulic system will cost thousands of euros which is not acceptable. Vattenfall needed to find a solution for removing water without interfering with the hydraulic system. Filtertechnik

proposed a sustainable solution, a Mini Water VAC (MWW) from RMF Systems. As a part of Des-case Corporation, RMF Systems provide high quality filtration and condition monitoring solutions for hydraulic oils and lubricants. By using a Mini Water VAC, Vattenfall can remove water out of the hydraulic system, without reducing the operation hours of the hydraulic system.

“An investment worth every single penny!”



MINI Water VAC

Mini Water VAC is the perfect solution for severe water problems. The water removal process is based on vacuum evaporation inside the vacuum chamber at the maximum temperature of 60° C. Besides water removal Mini Water VAC removes solid particles down to 1 micron due to RMF Systems fiberglass elements. The whole plug&play process is completely automated by an integrated PLC. The unit will switch off automatically to protect against overflowing of the waste container.

We have had good results after the purchase of MWW. It has really done its job of removing water from our oil systems says, tribologist Joakim Sandberg. We have seen a drastic decrease of water and solid contamination. This resulted in less breakdowns and longer oil life cycle.

The lubrication technician Robin Ellesjö emphasizes that a large advantage of using the MWW, is the usability of the machine. Together, Robin and Joakim are constantly working to improve preventative maintenance at Vattenfall Värme Uppsala. Water in the oil has been a threat to operational safety, but

today they do not have to worry about it due to MWW. In total they have three MWWs, two are permanently installed (e.g. on a turbine). The third MWW, is used as a mobile solution. This makes it easy and quick to connect, when a need arises.

Benefits of MWW

- ▶ No costly downtime due to water found in the oil
- ▶ No unnecessary damage to the oil systems caused by water
- ▶ No unnecessary oil changes
- ▶ Better utilized working time, more focus can be placed on preventive maintenance instead of reactive maintenance

