

WATER QUALITY PACKAGES FOR HYDRO-TURBINES

Sometimes BETTER performance & protection comes in a SMALLER package.



THORDON
THORDON BEARINGS INC.

ZERO POLLUTION | HIGH PERFORMANCE | BEARING & SEAL SYSTEMS

WATER QUALITY PACKAGES FOR HYDRO APPLICATIONS

The Thordon Hydro-Turbine Water Quality Package (WQP) is a high-performance hydro-turbine shaft seal water conditioning system. Available in both pump and pumpless versions, it is engineered to ensure a continuous and reliable supply of clean, conditioned water to the Thordon SXL radial shaft seals for optimal cooling and lubrication. By safeguarding the integrity of the shaft seal through superior water conditioning, this system minimizes maintenance, maximizes performance, and ensures long-term operational dependability.

KEY BENEFITS



Easy Integration

Simplified design, and a standard power requirement, this system is designed for efficiency, reliability, and seamless integration with existing pressurized cooling water headers.



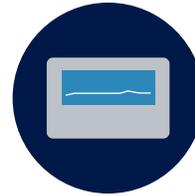
Advanced Protection

Through the use of superior cyclonic separation, the WQP provides effective removal of abrasive particles to protect critical sealing components and extend service life.



Reliable Performance

With continuously regulated water pressure, the system ensures stable and precise operation and reliable supply of clean water.



Proactive Monitoring & Detection

Local and remote monitors alert to provide early detection when pressure or flow becomes high/low.



Reduced Maintenance

With advanced monitoring capabilities the WQP helps protect and extend the life of radial seals.

ADVANCED FEATURES

Advanced Hydro-Cyclone Separation Unit

Effective removal of abrasive particles in the water >100 microns.

Integrated Pressure Regulator

Stable and precise operation and delivery of clean, conditioned water.

Intuitive HMI Touch Screen Interface

Real-time data visualization and trend logging, with local and remote accessibility.

Flow and Pressure Alarms

Alert when pressure or flow becomes too high/low.

Power Requirements

Standard: 120 VAC, 1 Ph, 60 Hz power requirement
Optional: 230 VAC, 1 Ph, 50 Hz
(other voltage options available)

Pump or Pumpless Versions Available to Suit the Application

With no pump, adequate water is supplied through an existing pressurized water source.

With a pump, adequate water is supplied through a pump designed to handle abrasive raw water, and it boosts pressure and flow rate to the seal.

Thordon Bearings has over 30 years experience supplying turbine guide, pump, wicket gate, operating mechanism bearings and radial or axial shaft seals for rehabilitation and new turbine projects. Long wear life, low friction, high abrasion resistance, grease/oil free operation and application engineering technical support provide customers with bearing solutions that meet, or exceed, specifications. With worldwide installations ranging from micro-turbines to units with main shafts up to 2.4 m (94"), Thordon provides a proven alternative to grease and oil lubricated bearings. Recognized internationally for superior performance in hydro-turbine applications, Thordon has an extensive distribution and service network in over 100 countries worldwide.

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3225 Mainway, Burlington, Ontario L7M 1A6 Canada | +1.905.335.1440 | www.ThordonBearings.com



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