



MAXIMUM DEBRIS REMOVAL IN THE MOST DEMANDING APPLICATIONS WITH MINIMAL WATER DISCHARGE

Custom design reduces installation costs

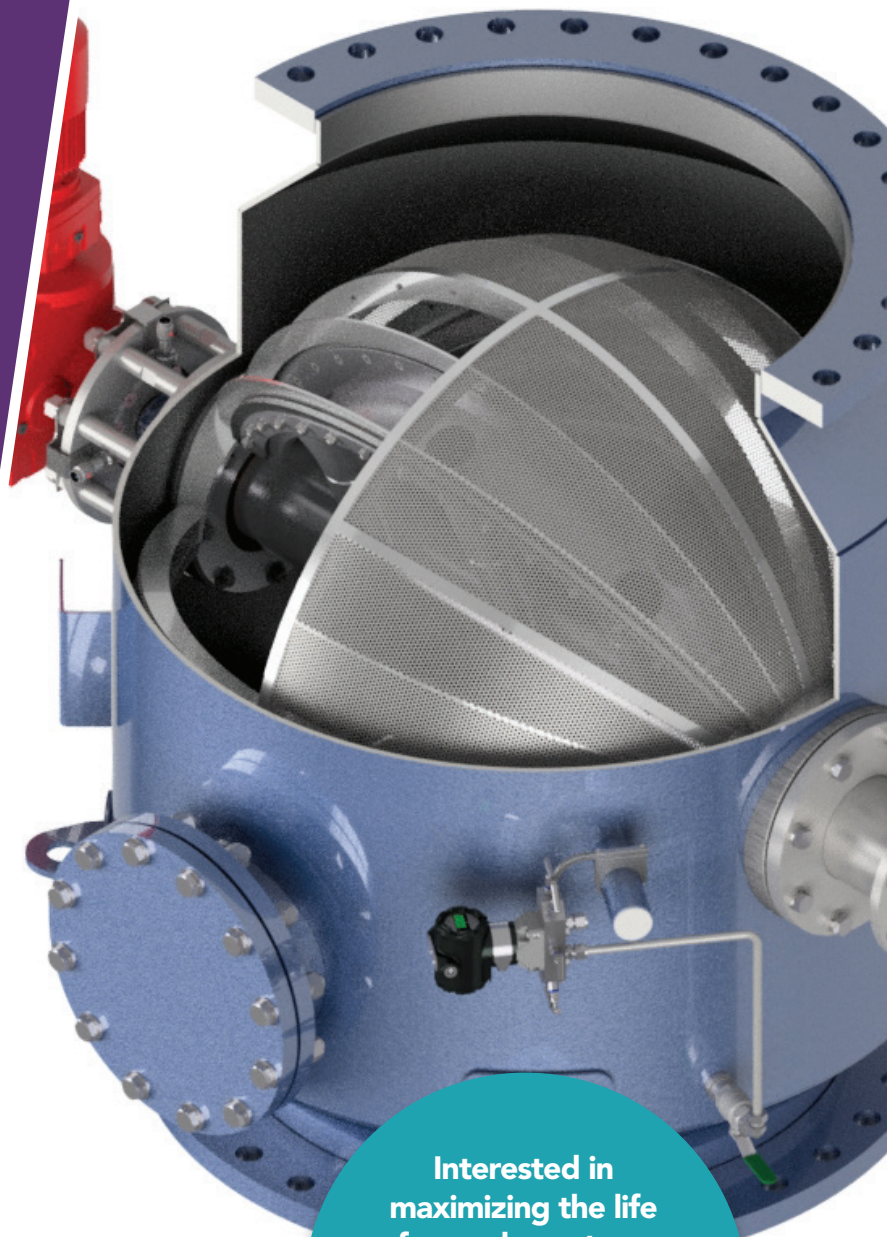
Brackett Green® debris filters increase equipment life by reducing damage from pitting, corrosion and erosion

Increases overall plant efficiency by using less energy with better temperature control

External drive mechanism allows for easy gearbox access

Lower operating pressure drop across the debris filter

Highly reliable, reduces maintenance requirements



Interested in
maximizing the life
of your downstream
equipment?

Call 1-855-GO-OVIVO to
speak with an Ovivo
Expert.

BRACKETT GREEN® DEBRIS FILTERS

A VITAL LINE OF DEFENSE, EFFICIENTLY INTERCEPTING AND REMOVING DEBRIS

Most power plants employ extensive pre-screening at cooling water intakes. Despite this, additional filtration can be required at locations where the cooling water is loaded with heavy debris and marine life. Brackett Green® debris filters provide a vital line of defense, efficiently intercepting and removing coarse particles, fibrous material, mussels, clams and other macro fouling related to problems downstream of pumps.

Ovivo understands the importance of the thermal performance of your plant to ensure plant output, and ultimately, profitability. Online, self-flushing Brackett Green debris filters are an effective solution to minimize fouling from the condenser tubes. This last line of defense for your cooling water system can increase or maintain your condenser's heat exchange rate by keeping the tubes clean, reducing operating costs and ultimately, your environmental footprint.

PREVENTS MACRO FOULING

Built-up debris at the heat exchanger inlet and condenser tubes can stop or slow cooling water flow. This reduces the heat transfer rate and damages overall plant efficiency. Debris build-up also shortens tube service life through corrosion, erosion and pitting.

Automatic debris filtering prevents macro fouling of heat exchangers and condensers, lengthening service life and eliminating an array of potential performance problems. These include: insufficient cooling, ineffective temperature control, increased pressure drops, high energy consumption and costly downtime.

COMPACT DESIGN HANDLES ALL DEBRIS

Ordinary self-flushing debris filters are installed externally to the cooling water line, demanding a large amount of space and additional pipework. Some are designed to handle coarse debris while others are more suitable for fibrous debris removal. Ovivo's unique Brackett Green automatic, self-flushing debris filters fit within the cooling water piping and can handle all forms of debris.

The Brackett Green debris filter's housing actually replaces a segment of the cooling water pipework, requiring no additional space or connections. The filtration mechanism is designed to remove coarse as well as fibrous debris including plastic, mussels, clams, fish, tree roots, seaweed, algae, rocks, wood chips, pine cones and leaves.

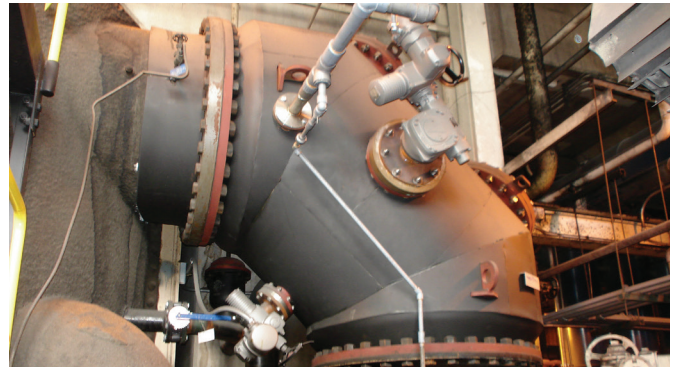
OPTIMUM PERFORMANCE FOR MINIMAL COST

The Brackett Green debris filter's unique design provides maximum debris removal at the lowest operating and maintenance cost. Ovivo Brackett Green debris filter incorporates a array of high efficiency features, including:

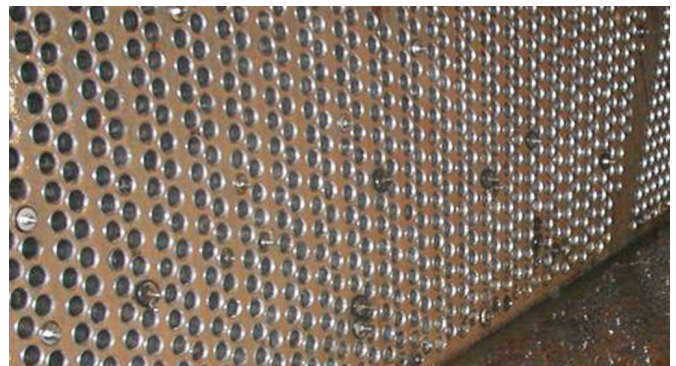
- Low operating pressure drop across the debris filter
- Maximum debris removal for minimum flush water discharge
- No external water required for flushing
- No external pump required for flushing



Condenser tubes without debris filter



Debris filter installed

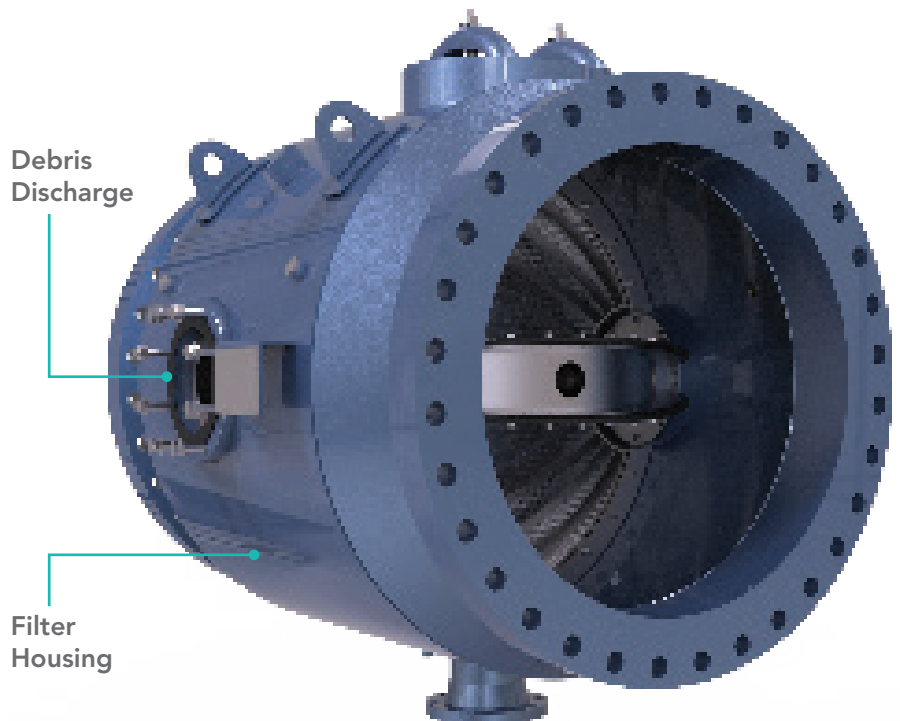
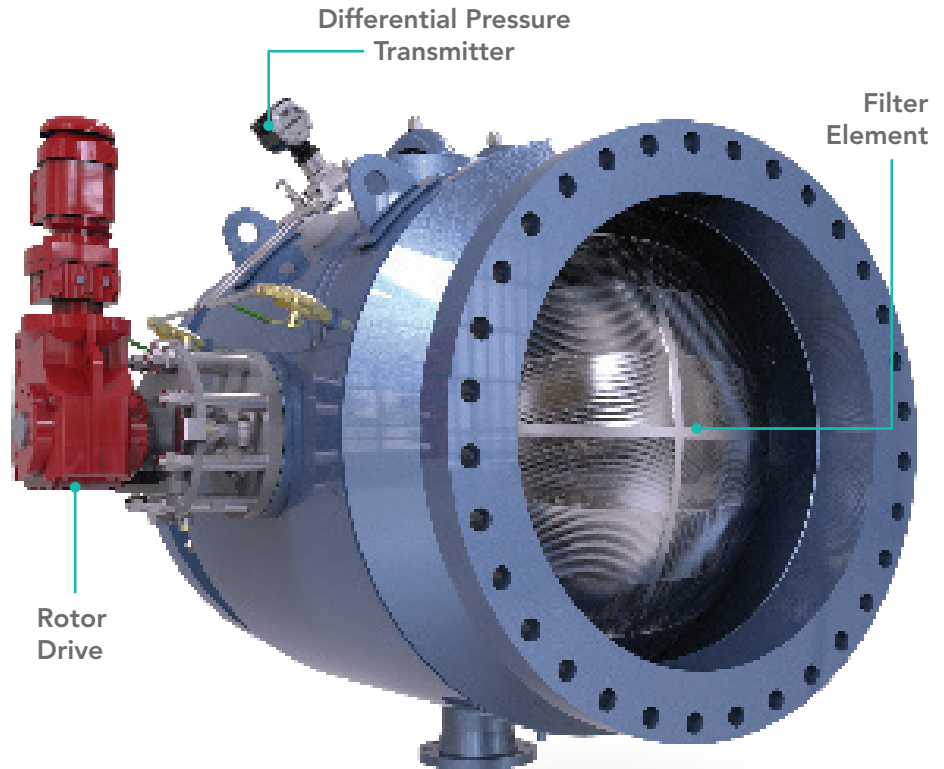


Tube condition with debris filter

HOW IT WORKS

BRACKETT GREEN DEBRIS FILTERS CONTINUOUSLY AND AUTOMATICALLY REMOVE SUSPENDED SOLIDS FROM COOLING WATER THAT MIGHT OTHERWISE CLOG THE HEAT EXCHANGER AND CONDENSER TUBES.

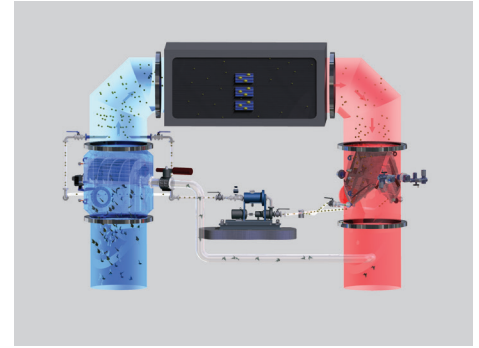
1. Inlet water enters the Brackett Green debris filter screening element. Various types of debris (including coarse and fibrous debris) are collected over the filter screening element. Screen elements are available in a variety of shapes and sizes (round, slot, or square).
2. A uniquely engineered rotor with several suction parts is housed within the filter. The rotor is designed for high volume debris removal of all types and sizes, with the minimum of cooling water discharged as waste. The rotor is operated by an electric motor.
3. As debris accumulates, differential pressure across the screen is monitored. If the pressure drops below normal, the rotor begins to rotate while debris discharge is opened to a lower pressure discharge point. Since the pressure inside the debris filter housing is higher than that at the debris discharge point, the pressure on the clean side of the element will push debris into the rotor evacuation chamber while the rotor is turning. Debris is vacuumed off the filter element.
4. Once the filter element is cleaned, the rotor will stop and the debris discharge valve will close.



CONDENSER PROTECTION SYSTEM

Ovivo understands the importance of the thermal performance of your plant which results in plant output and ultimately in profitability. The use of both the Online Self Flushing Debris Filters and Online Automatic Tube Cleaning Systems is the most effective solution to eliminate the

macro and micro fouling, scaling and other deposits from the condenser tubes. This last line of protection in your cooling water systems increases or maintains your heat exchange rate of your condenser by keeping the tubes constantly clean reducing the operating cost and most importantly reducing your footprint on the environment.



ENGINEERING SERVICES

DESIGN AND ANALYSIS

Ovivo advanced 3D graphics and modeling, products are designed for different operating conditions and requirements for its customers.

INSTALL, COMMISSION, MAINTAIN

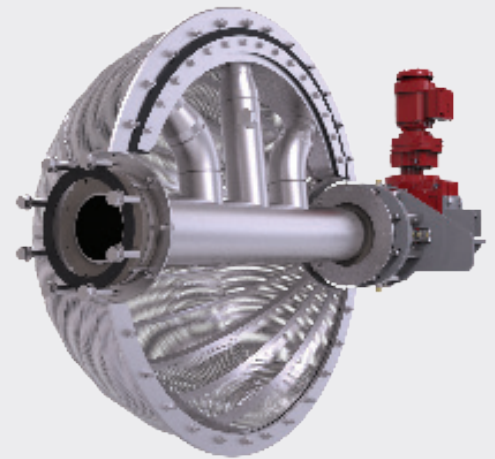
Ovivo's service engineers can install, commission, maintain all machines and will visit sites around the world to advise on all aspects of our products.

SPARE PARTS

All spares supplied are genuine, guaranteed and supported by our detailed knowledge of all historical modifications or upgrades.

TRAINING

As a supplier of engineered capital equipment, we offer our end users on-site or in-house training courses. Contact our spares and service managers for details of the courses available.



**ALL OF YOUR MANUALS,
ALL OF YOUR KNOWLEDGE,
ALL IN ONE PLACE.**

Get your team on the same page.
Upload and share documents & media.
Create and manage service logs and
maintenance schedules.

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