

HIGH PERFORMANCE CARTRIDGE FILTERS

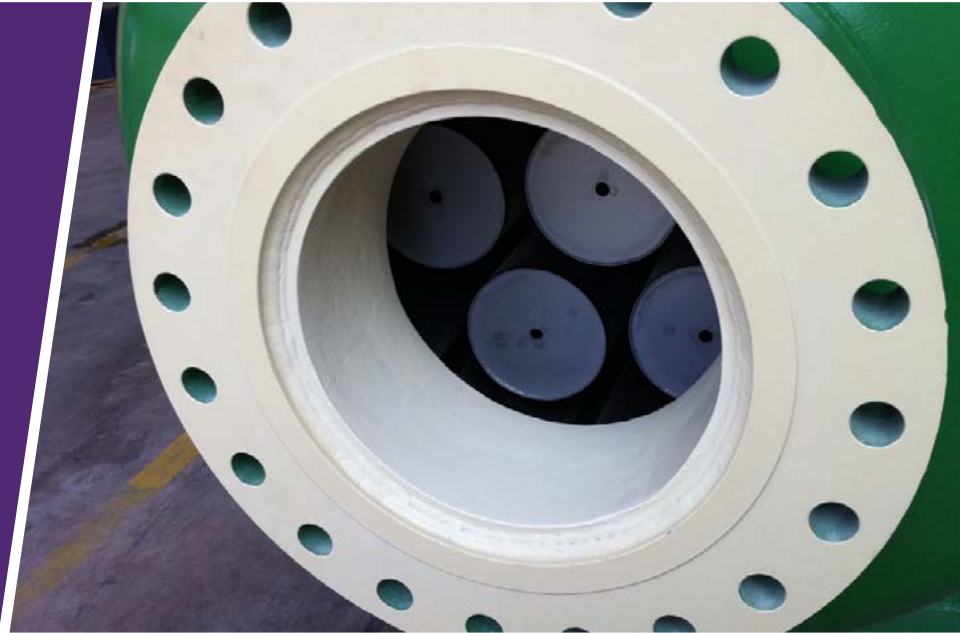
HOW WE CREATE VALUE

High performance OEM cartridge filters for high performance condensate polishing and water treatment systems

Excellent dirt holding capacity and robust design gives longer life and reduced filtration cost

High surface area and low pressure loss gives lower capital cost

Optimized for particulate removal from water for process equipment protection



THE CHALLENGE

There are a tremendous range of cartridge filters on the market all claiming to be better than the other. Some cartridges are cheaper and of indeterminate origin and quality and some tremendously expensive. Almost all claim to be ideally suited to filter a wide range of processes and fluids, in many applications and industries, from Automotive to Food and Beverage and from Chemicals to Pharmaceuticals. Finding the right filter for the right application is a challenge, especially in water treatment plants for the Power and Oil & Gas industries where the conditions can be particularly demanding. Ovivo's clients are looking for an optimised design that can withstand the rigorous demands of the systems; offer the required characteristics (including particulate removal, dirt holding capacity and head loss) and reliably protect their critical equipment.

OVIVO'S SOLUTION

Ovivo has been supplying high quality water treatment equipment for over 100 years through legacy brands such as **Christ®**, **Caird and Rayner®**, **Kennicott®** and **Tepro®**. Ovivo has provided literally hundreds of systems using specialist cartridge filters for applications that remove particulates to prevent contamination of sensitive downstream process equipment such as:

- Pre-treatment to prevent membrane fouling on RO Systems
- Crud Removal from Condensate Polishing circuits

Ovivo has used all its experience to offer a range of high quality branded filters that can be trusted to be optimised for the water treatment application and the Energy Industry.

Ovivo optimised cartridges are flexible and may also be compatible with non-Ovivo products.



CASE STUDY

Condensate polishing is a very specialist duty within the power generation industry where unavoidable contaminants are removed from the condensed stream after it has been used for generation and prior to recycle to the boiler. In today's high pressure supercritical boilers this is even more important to prevent impurity build up and damage to the turbine. The sophisticated ion-exchange systems themselves must be protected from particulates known as CRUD and these are best removed by cartridge filtration. Ovivo have optimised these systems over years and recommend an in-to-out design for high load coastal based seawater cooled systems and an out-to-in design for lower load river based systems. Each of these systems has their own range of dedicated robust design cartridge filters that have high dirt holding capacity offer high flow rate capability and are optimised for this application and industry to save money for the station.



“High Performance Cartridge Filters to Protect High Performance Water Treatment Plants”

Media Material	Polypropylene
Support Material	Polypropylene
Design	Pleated
Seals	EPDM as Standard Others available as required
Maximum Differential Pressure	3.4 Bar
Maximum Operating Temperature	80° C
Available Pore Size (micron)	1, 3, 5, 10, 20, 50, 70
Available Length (NOM mm)	250, 500, 1000, 1500
Available Configurations	Type A - Out to In, Type B - In to Out
Internal Diameter (NOM mm)	75, 80
External Diameter (NOM mm)	160, 165

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