applications

www.filternox.com

Filternox® Applications

Irrigation
Well water
Surface water
Power generation
Cooling water and HVAC
Steel industry and nozzle protection
Sea water
Fish farm
Ballast water
Water recycle & reuse
Pulp & paper industry
Other applications

irrigation

The reduction of available fresh water sources has become a major problem in recent years. The consequent reduction in water volume has also increased the concentration of contaminants and pollution. Because of this problem, modern irrigation systems, utilizing either underground or surface water require more efficient filtration systems.

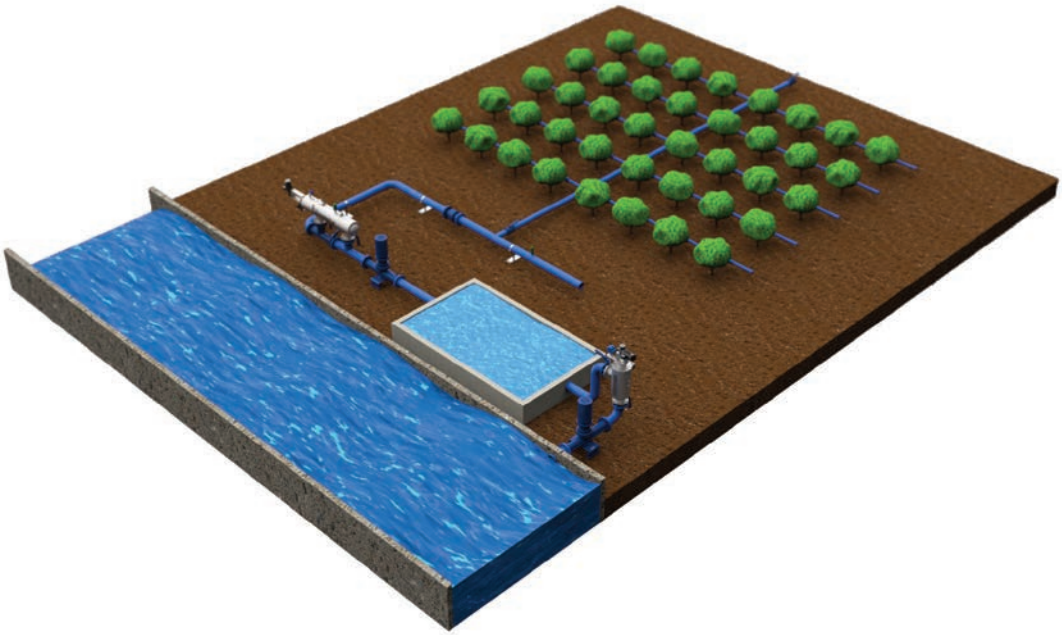
Filternox® Automatic Self-Cleaning Filters protect irrigation and fertilizing systems from all kind of particles and ensure years of continued operation without the clogging of drippers, sprinklers, etc.

Filternox® is the perfect solution for golf courses, agriculture, gardening and various other applications wherever water economy is needed.

Filternox® Automatic Self-Cleaning Filters are equipped with a special hydraulic control system which triggers the back flush without requiring any extra energy other than the pressure of the water. With this hydraulic control system during the back flush there is no any interruption of the flow.

Filternox® offers innovative filter models, double stage automatic self-cleaning models to be implemented directly to the surface water prior to the irrigation system with a small investment.

application model



For futher information about **Irrigation Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

Filtration of well water is becoming one of the most important forms of filtration in the environmentally changing world.

well water

High carbon emissions along with the increasing greenhouse effect have dramatically reduced underground water supplies. This in turn, increases the amount of both organic and inorganic pollutant particles in the well water that is pumped through pipelines and other systems, creating the need of filtration for well water.

Along with this, fluctuations in weather patterns have limited the availability of surface water in certain locations, increasing the demand for supplies of well water. As a result, the filtration of well water is becoming a very important challenge in today's environment.

Filternox® provides an effective filtration of well water while minimizing the operational costs of many applications.

application model

For futher information about **Well Water Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

surface water, UF, RO

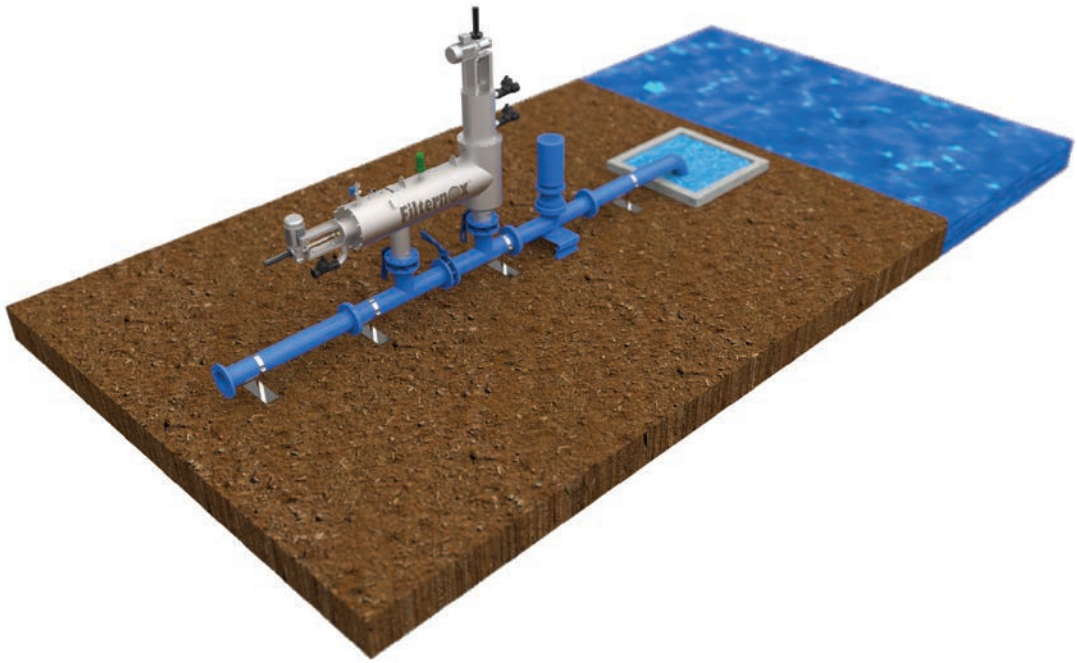
As well as sea water, surface water also contains a wide variety and sizes of contaminant particles. To effectively meet this challenge, filtration units require both coarse and fine automatic filtration. Sediment build up and the consequent loss of efficiency is one of the main problems in heat exchangers, nozzles, ion exchange systems, seals, membranes and other sensitive equipment.

To prevent unscheduled and unforeseen system shut downs for cleaning, the installation of **Filternox**® Automatic Self Cleaning Filters will remove the suspended particles from the incoming water supply, thus providing uninterrupted working conditions.

The use of **Filternox**® Automatic Self Cleaning Filters helps to maintain optimum pumping conditions through the prevention of pressure drop caused by sediment build up.

Filternox® recently designed an enhanced new filter model especially for surface water treatment applications.

application model



For futher information about **Surface Water, UF, RO Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

power generation

A decrease in efficiency due to the accumulation of particles is one of the main problems for heat exchangers. Even a minor layer of scale causes a dramatic decrease in heat transfer which can result in the unforeseen shut down of the system for cleaning purpose.

Filternox® Automatic Self-Cleaning Filters, by removing all suspended solids and particles, provide uninterrupted working conditions for heat exchangers.

As well as protecting heat exchangers, **Filternox**® Automatic Self-Cleaning Filters will also provide protection for nozzles, ion exchangers, seals, membranes and other sensitive equipment installed in your system.

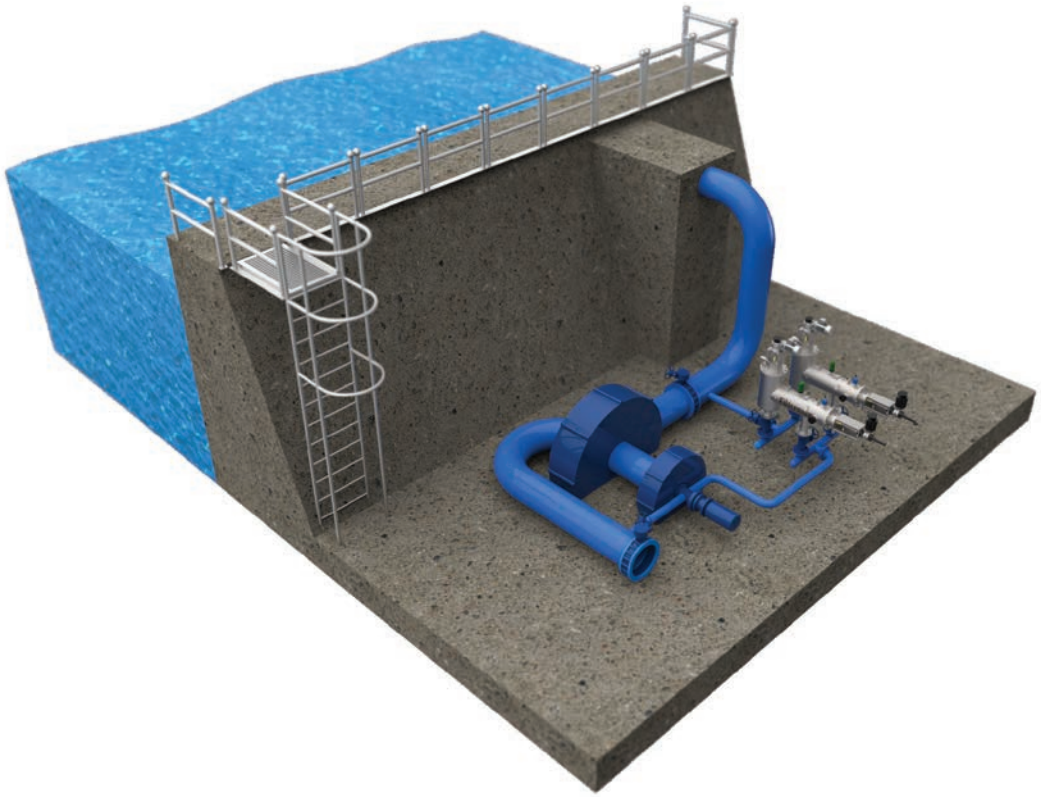
The use of **Filternox**® Automatic Self-Cleaning Filters helps to maintain optimum pumping conditions through the prevention of pressure drop caused by sediment build up.

application model

The continuous operation of the turbines has vital importance for the hydroelectric power plants.

Dam water used for the cooling of the turbine bearing and the sealing equipment of the hydroelectric power plants, contains different sizes of particles as all the surface waters creating fouling in the pipes and heat exchanging surfaces, and damaging the turbine bearings and seals.

Filternox® provides a solution to this filtration problem with its two stage Automatic Self Cleaning filtration models which offer a convenient and cost effective way to address filtration challenges in hydroelectric power plants, extending the life of bearings and seals equipment and reducing maintenance and operational costs.



For futher information about **Power Generation Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

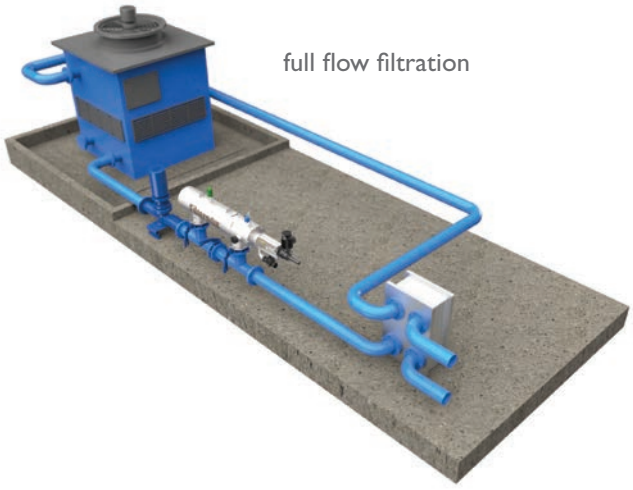
cooling water and HVAC

Cooling towers act in a similar way to air scrubbers by collecting all particles from the surrounding environment into the cooling water. These particles, such as dust, sand, algae and pollen attach easily to the hot surfaces during the circulation inside cooling system, and cause clogging, fouling and reduction in efficiency of the process, which results in the shut down of the system for cleaning. Efficient filtration is very important for maintaining the continuous operation of the cooling system.

By using **Filternox**® Automatic Self-Cleaning Filters in the cooling system, either as sidestream or full flow applications, you will avoid all above mentioned problems.

By filtering the cooling water, you will also decrease chemical material consumption for water conditioning (e.g. chlorine, biocides, etc.)

application model



full flow filtration

side stream filtration

For futher information about **Cooling Water and HVAC Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

steel industry and nozzle protection

The quality of cooling water is crucial for the manufacturing of high quality steel. If cooling water contains particles which clog the spray nozzles, this will lower the quality of the end product. This may also lead to serious losses in production due to the unscheduled shut down of production lines.

Filternox® Automatic Self-Cleaning Filters, by the removal of particles contained in the cooling water, provide a perfect solution to prevent clogging of the nozzles and to maintain continuous production.

In addition, **Filternox®** special "high energy back-flushing system" avoids screen blockages from oil and grease in the cooling water of the steel industry.

application model

For futher information about **Steel Industry and Nozzle Protection Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

sea water

The size of particles contained in sea water varies widely. Therefore sea water filtration needs more care than other fluids. A very special filtration solution is required to remove particles from 10 mm at one end of the spectrum down to 50 microns particles at the other. This kind of water needs to be filtered in order to remove coarse and fine particles at the same time.

Filternox® offers special models for different type of sea water applications.

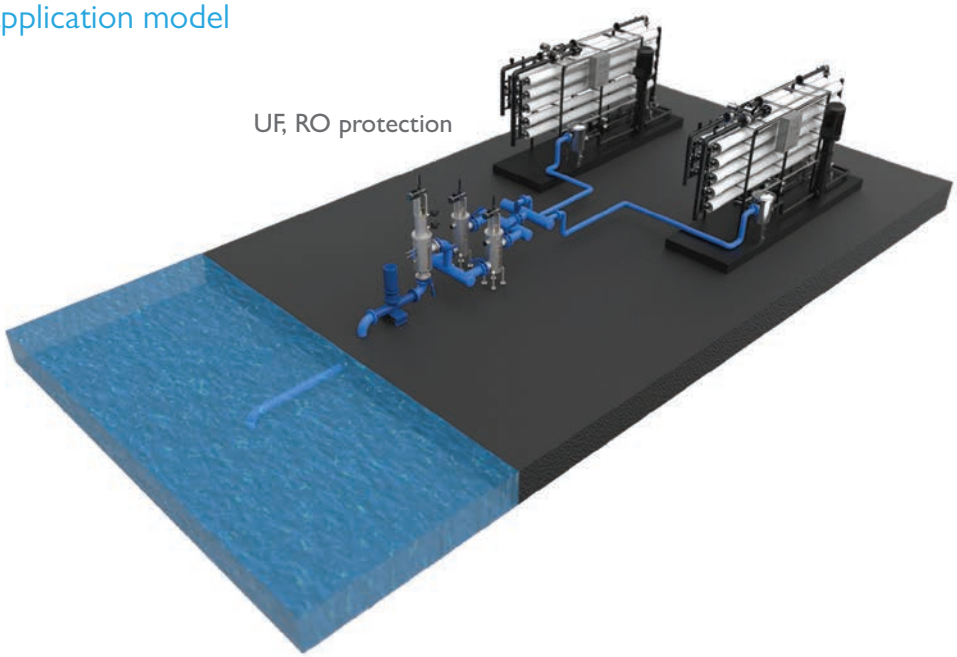
KFH series have both coarse and fine filtration stages in one body and both featuring an independent automatic self-cleaning system.

SPT-WBV-MR models provide high performance with its unique design having double effect cleaning system on one single screen.

Filternox® Automatic Self-Cleaning Filters are used for sea water filtration on oil platforms, the protection of heat exchangers, ultra filtration and Reverse Osmosis units as well as recreational usages.

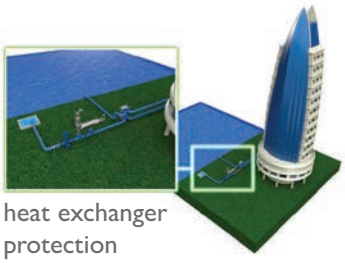
Another important consideration in the filtration of sea water is the corrosive effect it has. **Filternox**® offers the best permanent solution with a rubber coating over its stainless steel body.

application model

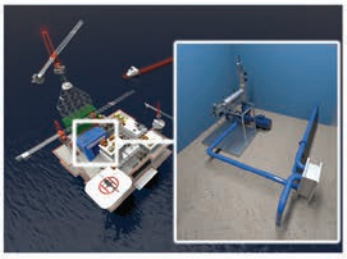


UF, RO protection

Sea water use for utility



heat exchanger protection



oil platform

For futher information about **Sea Water Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

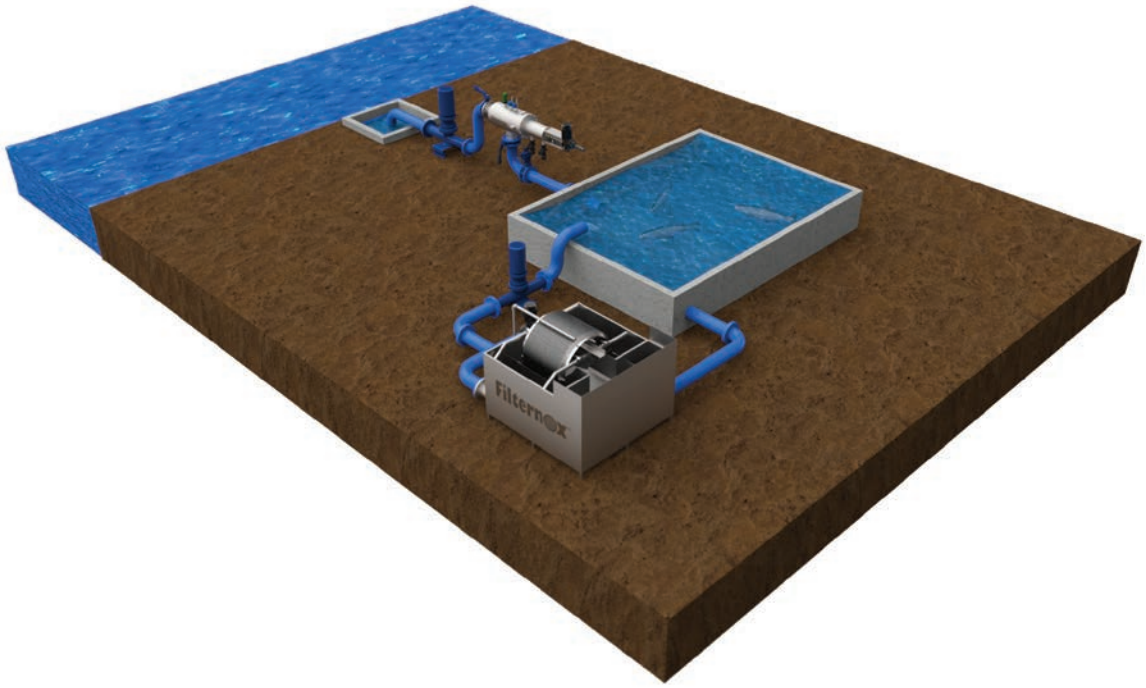
fish farm

Fish farms use either sea water or fresh water as a source of water for fish production. This water must be filtered to ensure optimum conditions for fish production.

The make-up water to feed the basins have to be filtered. In addition to that filtration, the water inside the tanks and basins should also be continuously filtered by side stream to maintain the necessary sanitary water conditions.

The complete stainless steel structure of **Filternox**® Automatic Self-Cleaning Filters provide the most convenient and hygienic filtration for the removal of suspended solids and particles for fish farm water.

application model



For futher information about **Fish Farm Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

ballast water

New regulations are required for almost all type of vessels to implement filtration systems of maximum 50 microns followed by a UV system for disinfection of ballast water.
Filternox® engineers recently developed a new model designed specifically for this application.

As the ballast system requires high flows, and to meet the 50 micron filtration requirement, filtration surface areas have to be large. The technology used in **Filternox**® designed for ballast water filtration applications provide the optimum surface area for a successful result.

Filternox® also offers models that combine two stage filtration within one unit with automatic self-cleaning of the coarse screen structure integrated into the fine screen body, making it ideal for the filtration of the ballast water.

application model

For futher information about **Ballast Water Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

One of the high water usage processes is manufacturing of paper. The daily amount of the water consumption for the Pulp & Paper Industry is high as well as some of other industries.

pulp & paper industry

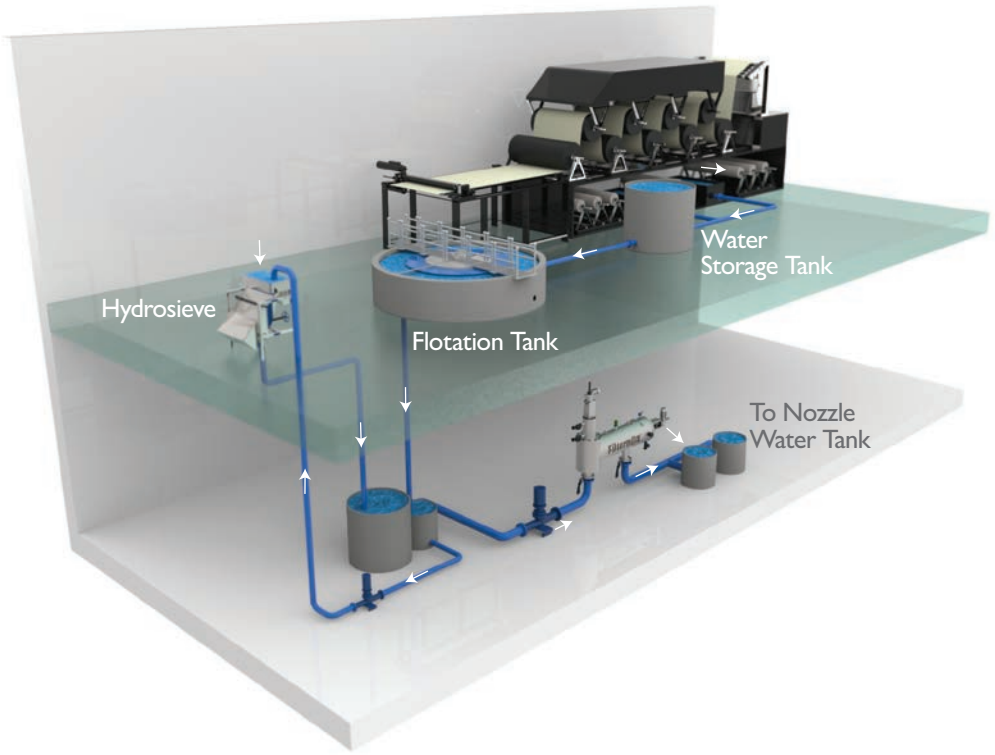
Filternox® Automatic Self Cleaning Filters are used for the filtration of the water from untreated sources, such as cooling tower, well, etc. that goes to the process directly. Thus, the filtered water are useful to protect the process and improving the plant efficiency in Pulp & Paper industries.

Reusing the process water is taking a significant part of the water gaining. Having **Filternox**® Automatic Self Cleaning Filters helps to recycle & reuse the process water. The filters can be placed either some points in the process or into the waste water treatment plant of the paper mills for reusing the water.

Another typical application area is filtration of the used water which comes from paper machine sieve and goes to the spray nozzles. There are many spraying applications with special nozzles which are shower, trim, etc., and **Filternox**® Automatic Self Cleaning Filters are used to protect the nozzles for all the spraying needs of the paper mills.

Filternox® SPT-WBV-MR & KFH-MR series are the most common type filters for reaching the demands of the reused water quality.

application model



For futher information about **Pulp & Paper Industry Applications** please visit our website.
You can use the QR Code on the right to access online information about the application.

www.filternox.com/**#filtration**

irrigation applications

River Water Filtration for Drip Irrigation

River Water Filtration for Drip Irrigation

Well Water Filtration for Drip Irrigation

Well Water Filtration for Drip Irrigation

Water Filtration for Drip Irrigation

Water Filtration for Drip Irrigation

Water Filtration for Drip Irrigation

Channel Water Filtration for Center Pivot Irrigation

Water Filtration for Agricultural Irrigation

Water Filtration for Golf Course Irrigation

Water Filtration for Drip Irrigation

Water Filtration for Agricultural Irrigation

Water Filtration for Drip Irrigation

Water Filtration for Drip Irrigation

Water Filtration for Drip Irrigation

Water Filtration for Agricultural Irrigation

Water Filtration for Agricultural Irrigation

Water Filtration for Agricultural Irrigation

Well Water Filtration for Irrigation

F1 Course Filter Station

Channel Water Filtration for Drip Irrigation


Water Filtration for Agricultural Irrigation
NUAIR
FilternOX


Water Filtration for Agricultural Irrigation


Water Filtration for Agricultural Irrigation


FilternOX
FilternOX
Water Filtration for Agricultural Irrigation

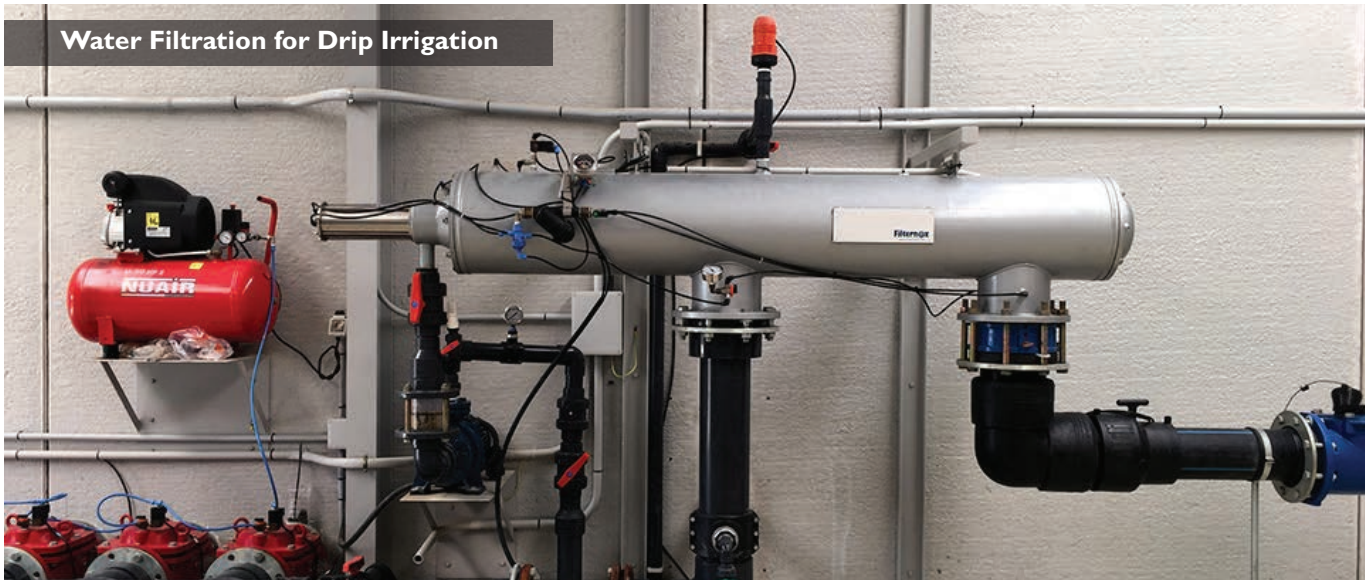
Water Filtration for Agricultural Irrigation

Dam Water Filtration for Agricultural Irrigation

Two Stage Filtration of River Water for Drip Irrigation

Dam Water Filtration for Agricultural Irrigation

Water Filtration for Agricultural Irrigation



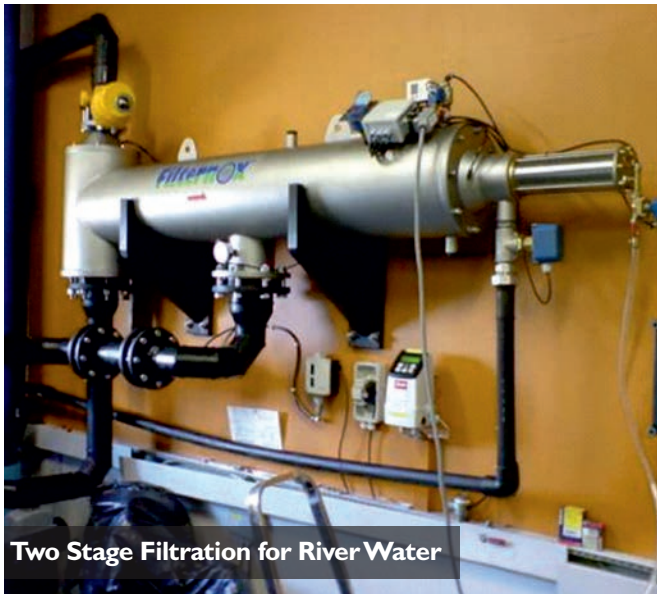
Water Filtration for Drip Irrigation

the solution in filtration

surface water, UF, RO applications

Surface Water Filtration Before UF

Two Stage Filtration for River Water Application



Two Stage Filtration for River Water

Surface Water Filtration

Glass Industry, Water Filtration Before RO

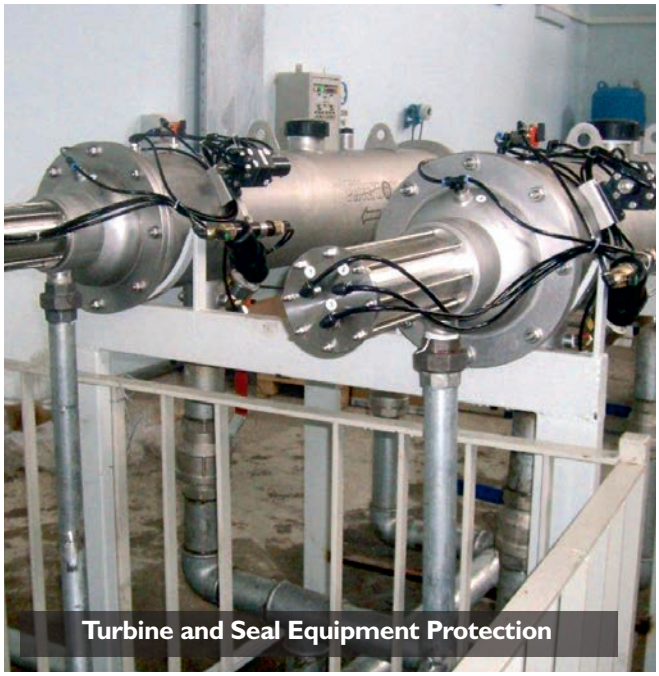
power generation applications


River Water Filtration for Turbine & Seal Equipment Protection


Water Filtration for Turbine and Seal Equipment Protection


Water Filtration for Turbine and Seal Equipment Protection


River Water Filtration for Turbine & Seal Equipment Protection


Turbine and Seal Equipment Protection


Turbine and Seal Equipment Protection


Turbine and Seal Equipment Protection


Turbine and Seal Equipment Protection

Power Generation Plant, River Water Filtration

Turbine and Seal Equipment Protection

Power Generation Plant, River Water Filtration

Turbine and Seal Equipment Protection

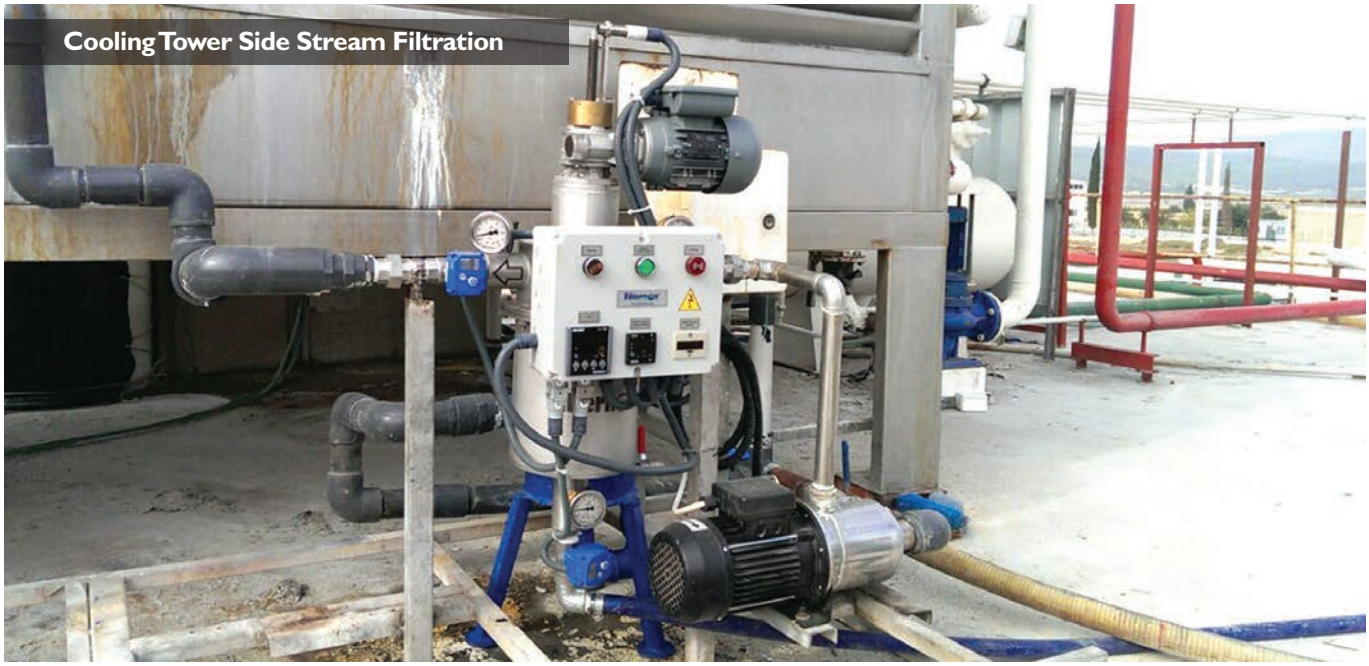
Turbine and Seal Equipment Protection


Turbine and Seal Equipment Protection


Turbine and Seal Equipment Protection


Turbine and Seal Equipment Protection

cooling water & HVAC applications

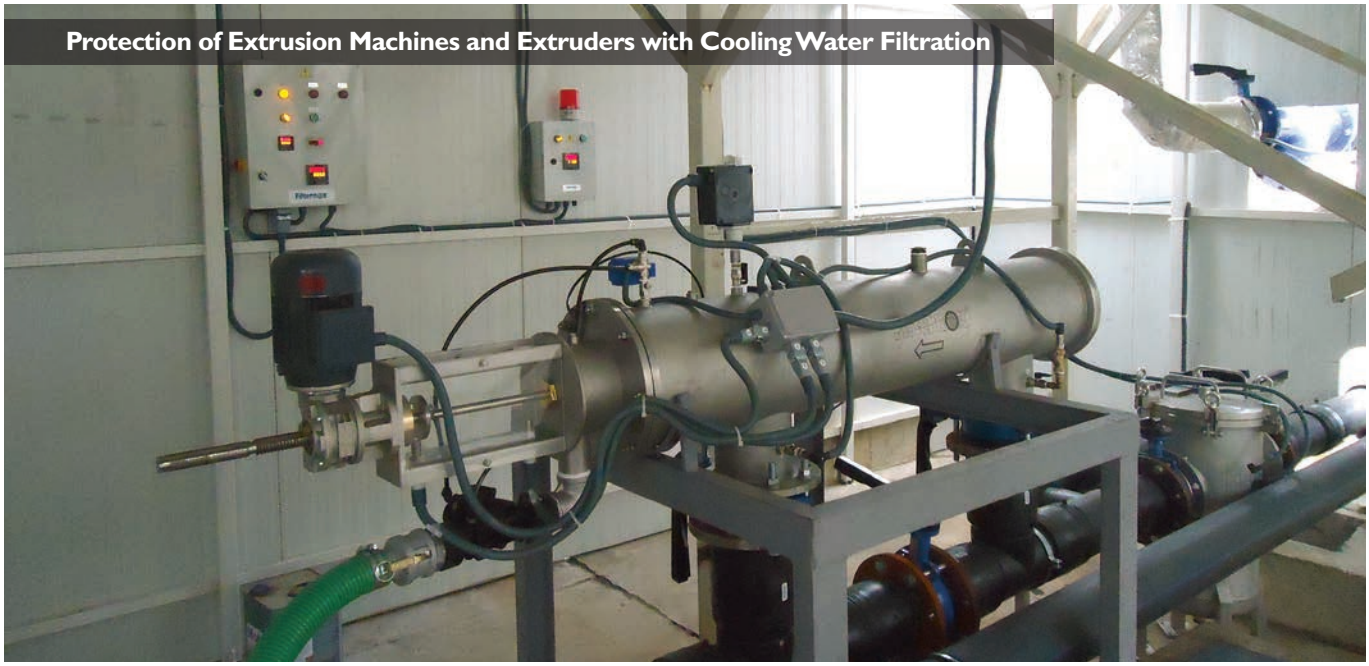


Cooling Tower Side Stream Filtration

Cooling Tower Side Stream Filtration

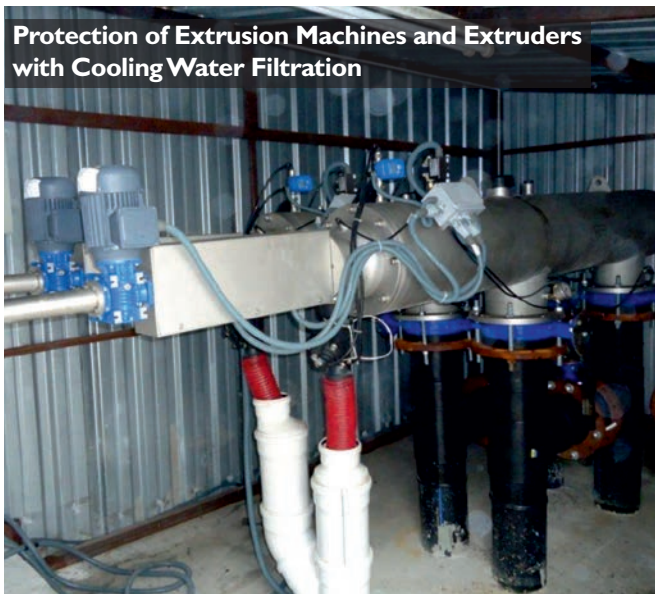
Cooling Tower Side Stream Filtration

Cooling Tower Side Stream Filtration

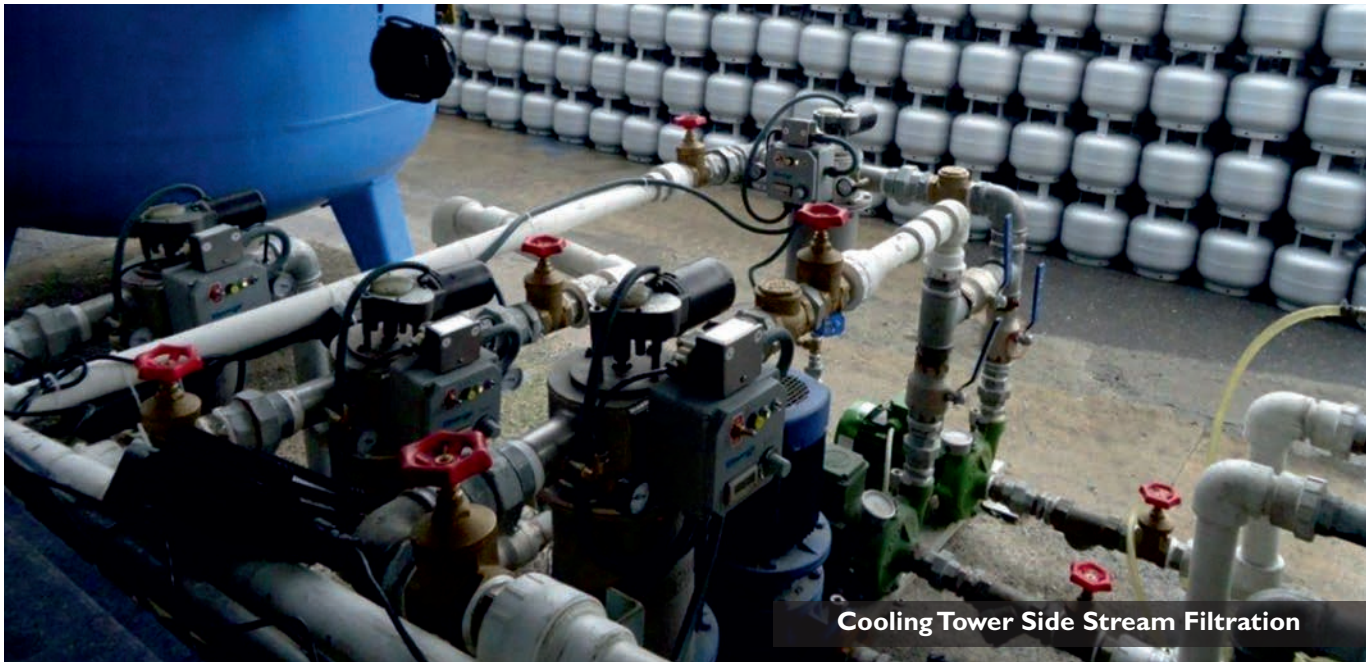


Protection of Extrusion Machines and Extruders with Cooling Water Filtration

Cooling Water Filtration For Welding Robots



Protection of Extrusion Machines and Extruders with Cooling Water Filtration



Cooling Tower Side Stream Filtration

Plastic Industry, Cooling Water Filtration for Extrusion & Extruder

Cooling Tower Side Stream Filtration

Protection of Extrusion Machines and Extruders with Cooling Water Filtration

Cooling Tower Side Stream Filtration

Glass Industry, Cooling Water Filtration

Plastic Industry, Cooling Water Filtration

Cooling Water Filtration

Cooling Tower Side Stream Filtration

Glass Industry, Cooling Water Filtration

Cooling Tower Side Stream Filtration

Cooling Tower Side Stream Filtration

Protection of Extrusion Machines and Extruders with Cooling Water Filtration

Cooling Tower Side Stream Filtration

Glass Industry, Cooling Water Filtration

Cooling Water Filtration

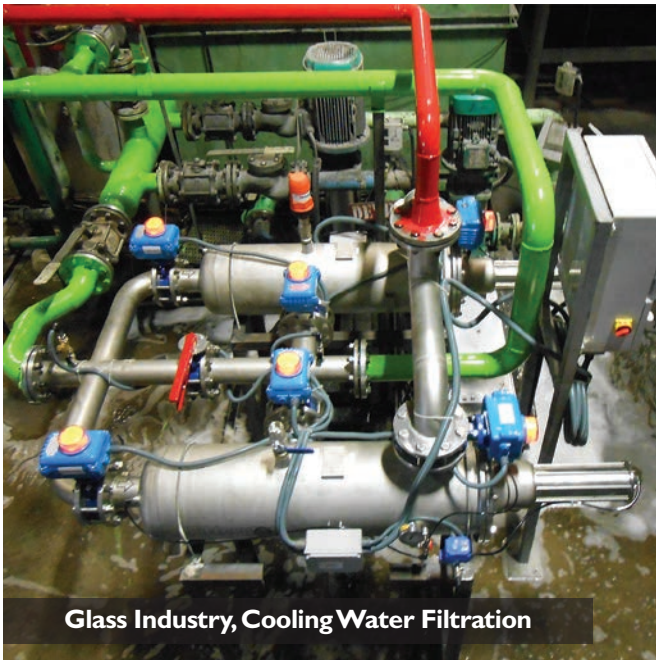
Cooling Water Side Stream Filtration

Pipe Manufacturing Company, Cooling Water Filtration

Cooling Tower Side Stream Filtration

Dairy Industry, Cooling Tower Filtration

Steel Industry, Cooling Tower Filtration

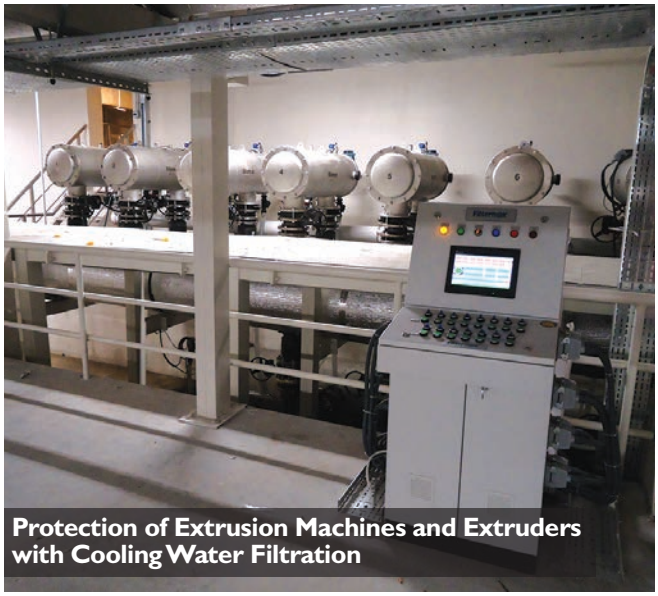


Glass Industry, Cooling Water Filtration

Pipe Manufacturing Company, Cooling Water Filtration

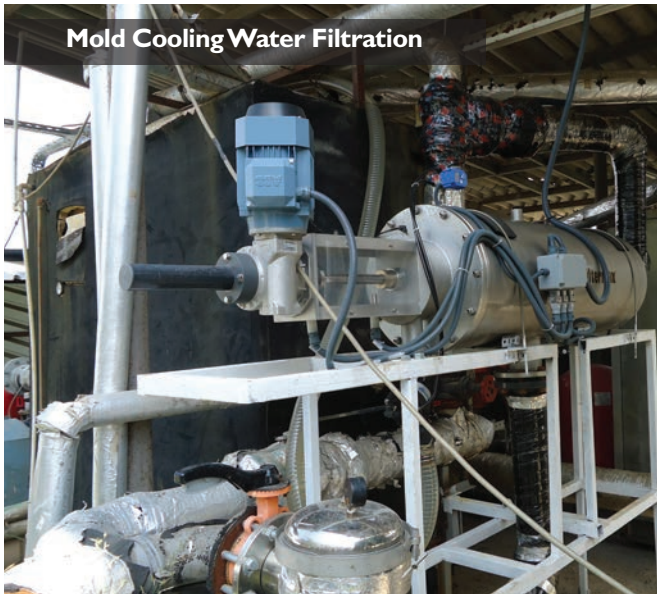

Protection of Extrusion Machines and Extruders
with Cooling Water Filtration


Protection of Extrusion Machines and Extruders
with Cooling Water Filtration


Protection of Extrusion Machines and Extruders
with Cooling Water Filtration

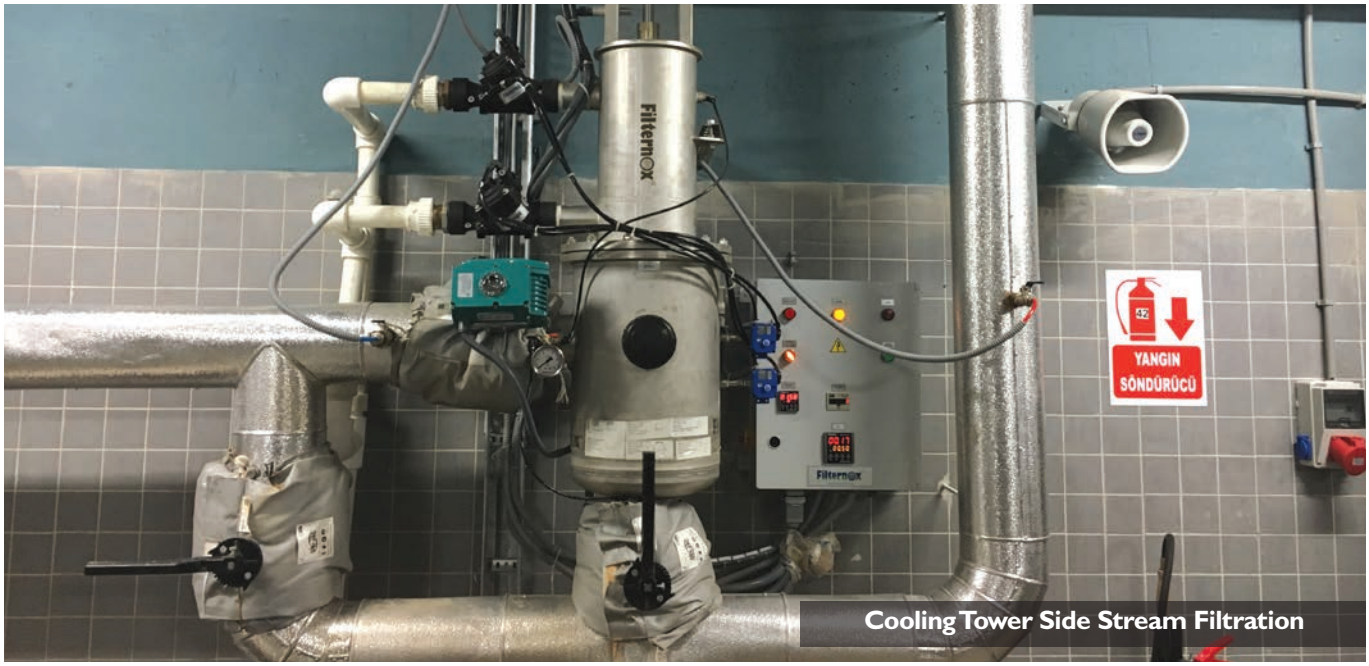

Protection of Extrusion Machines and Extruders
with Cooling Water Filtration

Plastic Industry, Cooling Water Filtration for Extrusion & Extruder



Mold Cooling Water Filtration

Plastic Industry, Cooling Water Filtration for Extrusion & Extruder



Cooling Tower Side Stream Filtration

steel industry & nozzle protection applications

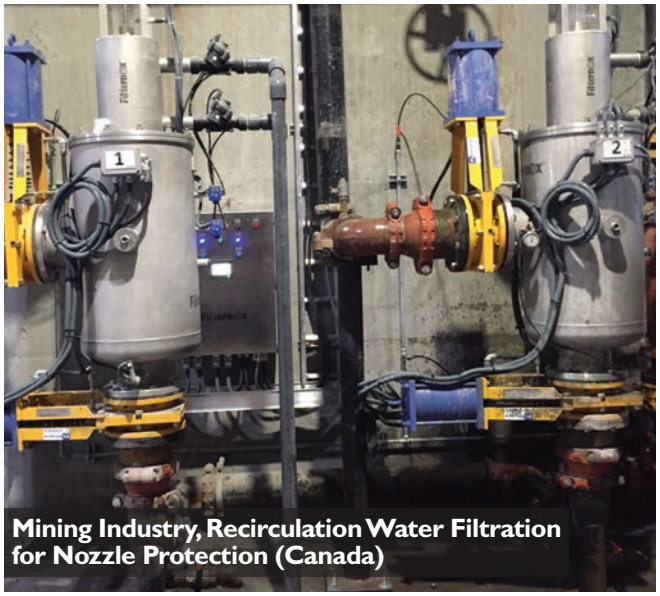
Steel Industry, Cooling Water Filtration

Steel Industry, Nozzle Protection Filtration

Steel Industry, Nozzle Protection Filtration

Steel Industry, Cooling Water Filtration

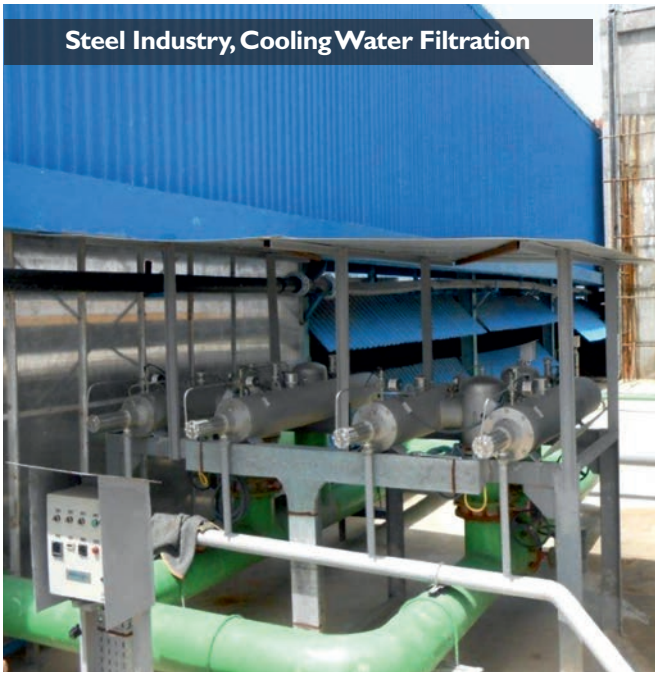
Nozzle Protection Filtration



Mining Industry, Recirculation Water Filtration for Nozzle Protection (Canada)

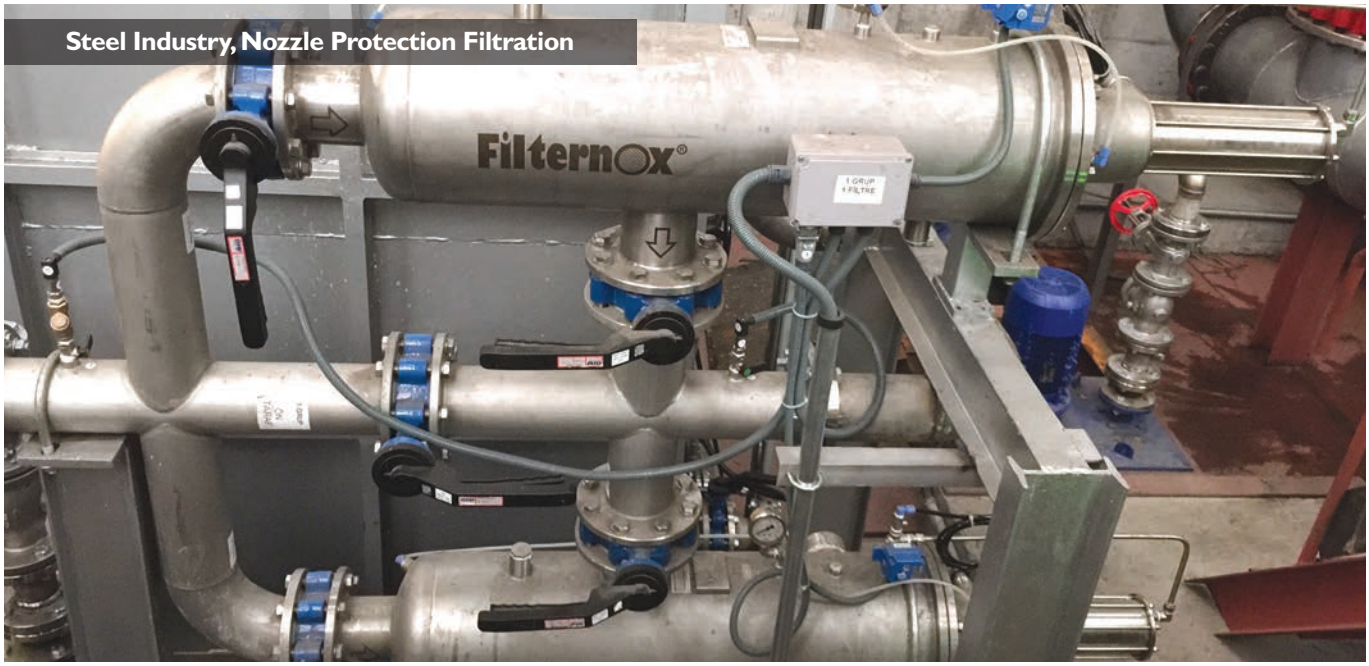
Steel Industry, Nozzle Protection Filtration

Steel Industry, Nozzle Protection Filtration



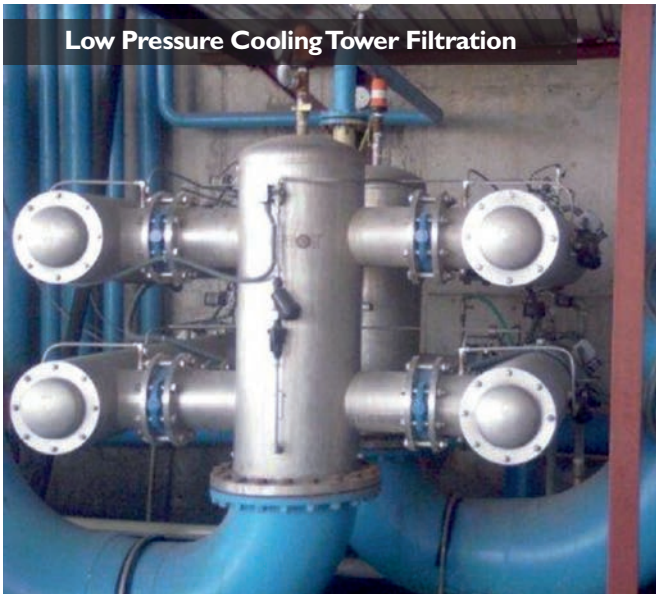
Steel Industry, Cooling Water Filtration

Steel Industry, Nozzle Protection Filtration

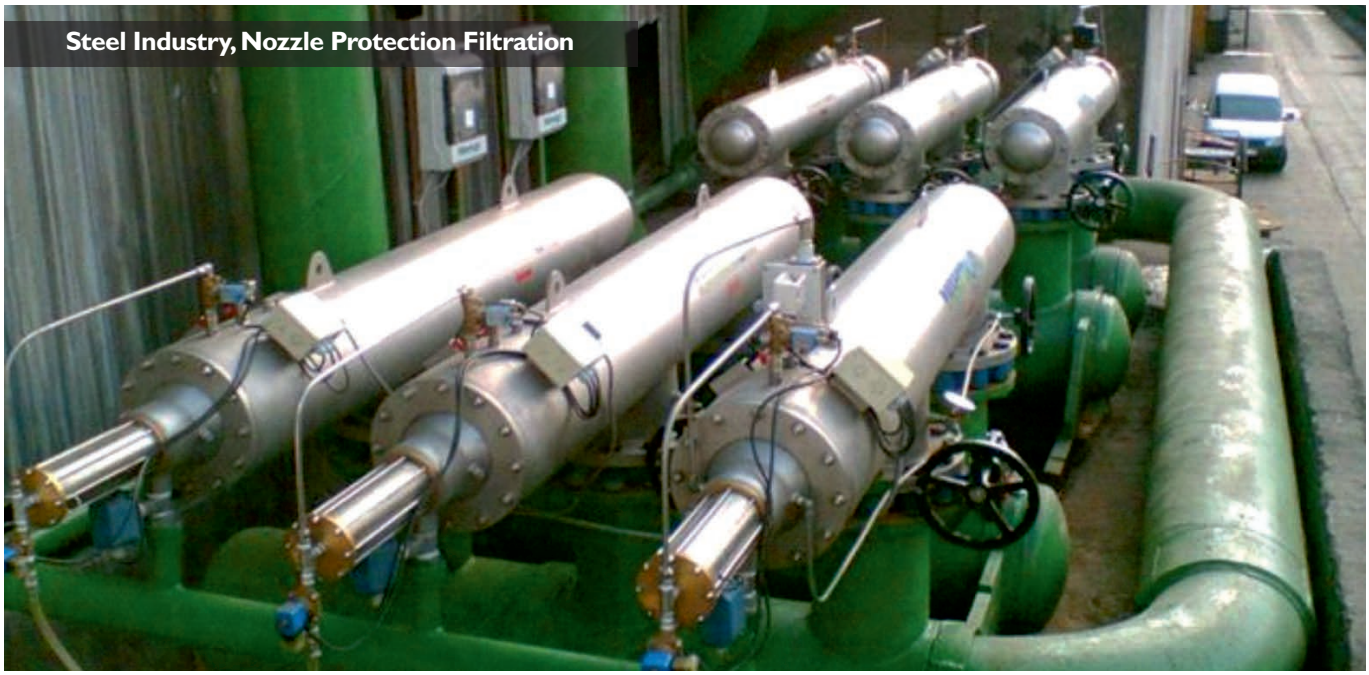


Rolling Mill Water Filtration

Low Pressure Cooling Tower Filtration



Steel Industry, Nozzle Protection Filtration



sea water applications

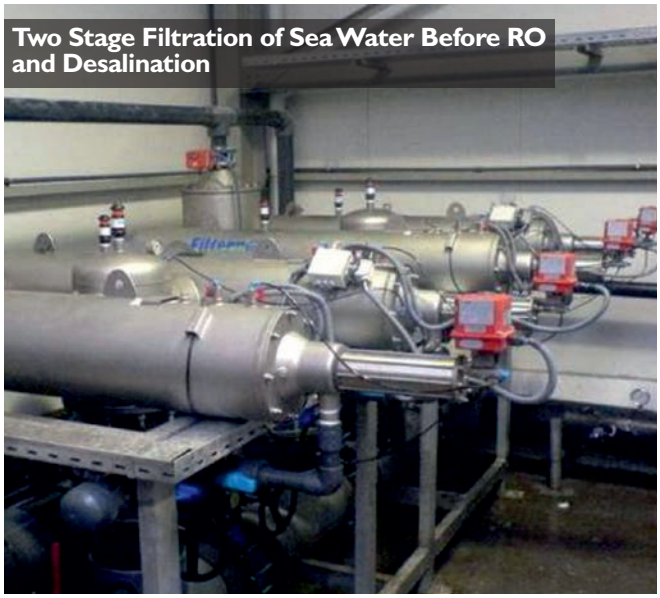
Sea Water Filtration Prior RO

Two Stage Filtration of Sea Water Before RO and Desalination

Two Stage Filtration of Sea Water Before Heat Exchangers

Sea Water Filtration Before Heat Exchangers

Sea Water Filtration Before UF



Two Stage Filtration of Sea Water Before RO and Desalination

Two Stage Filtration of Sea Water Before RO and Desalination

Sea Water Filtration Before Heat Exchanger

Two Stage Filtration of Sea Water Before Heat Exchangers

Sea Water Filtration

Cement Factory, Sea Water Filtration Before UF

pulp & paper industry applications

Process Water Filtration

Paper Industry, Process Water Filtration for Nozzle Protection

Paper Industry, Nozzle Protection

Paper Mill Factory, Prefiltration of River Water

Paper Industry, Process Water Filtration for Nozzle Protection

Paper Industry, WWT Effluent Water Fitration

Paper Industry Recycle Filtration

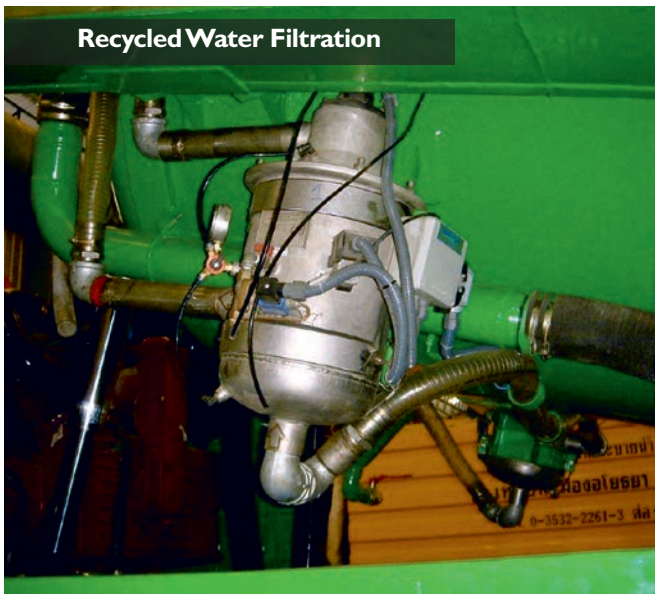
Pulp&Paper Mill Factory, River Water Filtration

Paper Industry, Nozzle Protection

other applications

Waste Water Treatment Plant Filtration

Treated Waste Water Filter Station



Recycled Water Filtration

Beverage Industry, Washing & Recirculation Filtration

Mining Industry, Dam Water Filtration Before Heat Exchanger

Raw Water Filtration for Fish Farm

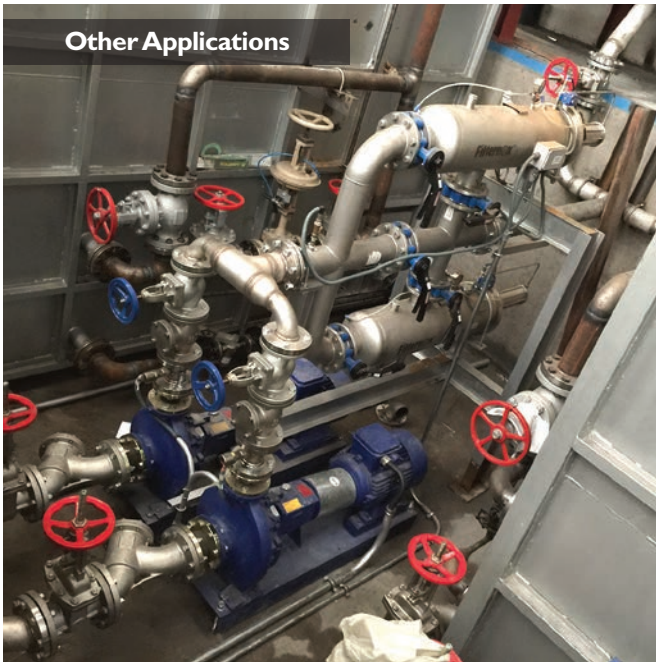
Log Rinsing Circulation Water Filtration

Treated Waste Water Filtration Before RO

Food Industry, Filtration for Apple Grading Process

Plastic Industry, Process Water Filtration

Recirculation Water Filtration For Horse Training Area



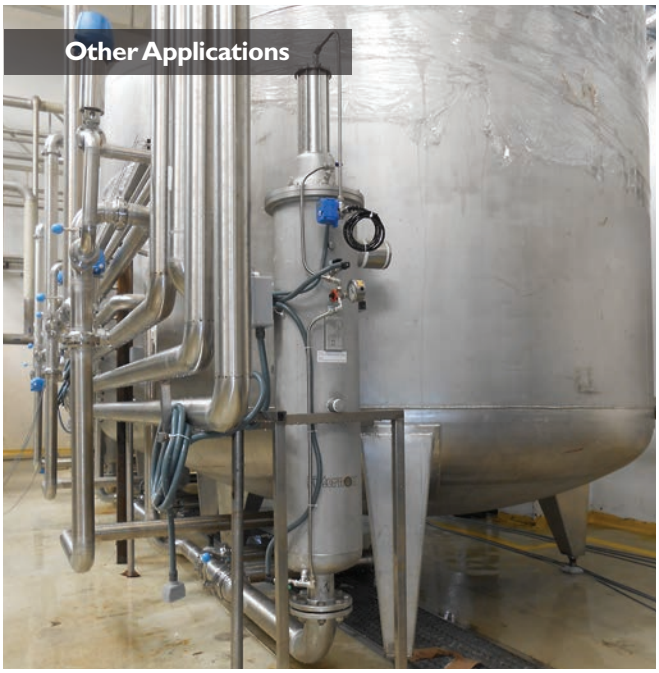
Other Applications

Other Applications

Other Applications

Textile Industry, Process Water Filtration

Other Applications



Other Applications

Recycled Water Filtration

Treated Waste Water Filtration
Before UV

Recycled Water Filtration

Recycled Water Filtration

Plastic Industry, Process Water Filtartion

Other Applications

Other Applications

Other Applications

Treated Waste Water Filtration

Prefiltration of WWTP Inlet Water

Well Water Filtration

Treated Waste Water Filtration

Food Industry, Recycling Water Filtration

Treated Waste Water Filtration

Filternox®
AUTOMATIC SELF-CLEANING FILTERS

Filternox Europe S.L.
C/ Plus Ultra, nº29 46006 Valencia- Spain
T+34 960 083 911
www.filternox.com