



Municipal & Industrial Filtration Solutions

YAMIT
FILTRATION

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Manufacturing high quality water filtration and water treatment for the past 30 years , YAMIT'S filters are installed and operating in thousands of locations worldwide, filtering surface and underground water, seawater and wastewater in the most challenging environments such as seawater desalination plants, petrochemical plants, oil drilling platforms, coal mines, steel mills and municipal drinking and wastewater treatment plants among others



Operational Capabilities

With two manufacturing plants, 200 employees worldwide, and an expert technical team, YAMTI Filtration has been serving engineering firms, large industrial corporations and local governments around the world providing reliable, efficient, and optimized filtration solutions



Our Strengths

Being a manufacturer, with a high level engineering foundation, we are able to offer:

- An advanced and wide range of structural materials.
- From very coarse to very fine filtration grades
- Quick response and flexibility in product and system design
- Customized design and production as per customer's specific requirements.
- Fast and on-time delivery

KEY INDUSTRIAL CLIENTS

High quality products are integrated within complex industrial water & effluent treatment systems as designed and installed by leading international engineering and EPC firms.

Market Sectors Served

- Municipalities : Drinking & Wastewater
- Oil & Gas + Petrochemicals
- Mining
- Food & Beverage
- Steel & Chemicals
- Paper Industry
- Seawater desalination



Wide Product Variety

YAMIT has wide variety of products and solutions, ranging from Automatic Screen Filters and Multimedia Filters to Skid Mounted and Containerized Filtration Systems with filtration capacities ranging from 10 m³/h to 10,000 m³/h per filter, filtration grade from 10 microns to 5,000 microns and construction materials to suit most liquids and industrial requirements.

APPLICATIONS

- ❖ UF Membrane pre-filtration in surface and seawater
- ❖ Desalination
- ❖ UV protection
- ❖ Effluent water treatment
- ❖ Cooling systems
- ❖ Nozzle protection
- ❖ Process water filtration

APPROVALS & AUTHORIZATIONS

- ASME
- U Stamp
- National Board R-Stamp
- PED 97/23

Sea and Brackish Water

Construction Materials & Coatings Provide For Full Corrosion Protection

All of the filter's wet parts, which are in contact with seawater, including the Pressure Vessel's internal walls, screen and all internal parts, are made of corrosion resistant materials which have been proven to successfully sustain long on-going exposures to seawater.

Yamit manufactured-screen filters are installed and are successfully operating in highly corrosive seawater environments such as land based Seawater RO Desalination Plants and Off-Shore oil rigs worldwide.



ADVANTAGES

Low energy consumption



Low Cost filtered water

Large filtration area



Small footprint installation

High operation efficiency



Low Flush water volume



PRODUCTS

Automatic Hydraulic Suction Scanner Screen Filters



AF800

Self-cleaning suction scanner screen filter

Filtration range: 80-3000 micron

In/out Diameter: 3" – 16"



AF200

Compact Self-cleaning suction scanner screen filter

Filtration range: 80-3000 micron

In/out Diameter: 2" – 8"

PRODUCTS

Automatic Hydraulic Suction Scanner Screen Filters

AF9800

Hydro-Electric suction scanner self-cleaning screen filter

Filtration range: 80-3000 micron

In/out Diameter: 3" – 16"



AF900

Electric suction scanner self-cleaning screen filter

Filtration range: 10-3000 micron

In/out Diameter: 3" – 16"





AF200E

Compact electric suction scanner
self-cleaning screen filter
Filtration range: 80-3000 micron
In/out Diameter: 2" – 8"

Automatic Electric Brush Scanner Screen Filter



AF700/7500

Electric brush scanner
self-cleaning screen filter
Filtration range: 200-3000 micron
In/out Diameter: 4" – 16"

PRODUCTS

Mega Filters

Electric - MGE

Electric multi-screen suction scanner self-cleaning screen filter for very high flows.

Filtration range: 10-3000 micron
In/out Diameter: 16" – 54"



Brush - MGB

Electric multi-screen brush scanner self-cleaning screen filter for very high flows.

Filtration range: 2000-3000 micron
In/out Diameter: 16" – 54"



High Media Filters



F6000

High quality filtration solutions for water with a high contamination or organic material and algae loads.

Body Diameter: 12" – 120"



PRODUCTS

Sand Separators (Hydrocyclones)



F700

Sand separators for well application
In/out Diameter: 3/4" – 8"



Manual Filters



Industrial Machine Protection

In-out diameters:

F100 – from 1.5" - 10"

F200 – from 1.5" - 10"

F300 – from 2" - 6"

F400 – from 1.5" - 10"



F2000

Pre-filtration for water meter or hydrometer protection, and for reduction of suspended solid levels in the water.
Filtration range: from 3000 micron and up
In/out Diameter: 6" – 28"

Mining: Copper and gold mine - Chile

Product	AF 916 PN25
Flow rate	17,000 m ³ /4.5 MGD per day X 4 Units Carbon steel with inner line neoprene
Structural Materials	Stainless Steel 904 SMO 254 Duplex Stainless Steel
Filtration Degree	100 µm
Pressure	25 Bar/363 PSI
Application	Pre-Treatment for RO Membranes



The Need: Provide filtered seawater for the mine

- Utilizing treated seawater for all the mine's production needs which are estimated at 68,000 m³/day of which 8% are desalinated utilizing Reverse Osmosis Membranes
- Water is pumped to an altitude of 2,300 meters to the mine.
- Requirement for a reliable filtering solution that can efficiently handle the large water capacity, high pressure and seawater conditions

The Solution: Yamit AF-900 Automatic hydraulic filters

- Minera Esperanza selected the Yamit AF-900 Automatic electric self cleaning filter as the main UF pre treatment solution in the desalination project.
- Filters constructed with seawater corrosion resistant materials and designed to operate with 25 Bar pressure
- Design was according to ASME supervised by third party inspection (TPI)

Chemical Industry – South Korea

Product	AF9808 LOPRN automatic electric filters
Flow rate	440 m ³ /h/11,900 gpm
Structural Materials	Carbon steel epoxy coated
Filtration Degree	120 micron
Pressure	10 at
Application	Industrial Wastewater from casting process



The Need:

Pre-filtration in a pure water process – wastewater reuse.

The Solution:

2 X AF-9808 LOPRN installed and in a test application
Motor and controller - explosion proof

Oil & Gas: Off Shore Oil Drilling Platform copper

Product	AF-208 Automatic Hydraulic Filter
Flow rate	300 m ³ /h/1320 gpm SMO Stainless Steel
Structural Materials	Titanium & Marine Bronze Stainless Steel 316 L Explosion Proof Enclosure
Filtration Degree	80 μm
Client	Off Shore Drilling Rig
Application	Pre-Treatment for RO Membranes



The Need: Seawater Pre-Filtration for RO

- Maersk Oil platform drill located off the shore of Qatar utilizes desalinated sea water oil extraction process for injection into the drilling site.
- The system was designed to include filters to ensure removal of any impurities, such as shells, algae and suspended solids
- The filtration solutions had to be space, energy and operations efficient, with anti corrosion features

The Solution: Yamit AF-208 Automatic hydraulic filters

- The filter was designed to work at a 300m³/h/ 1,320 gpm capacity with a filtration degree of 80 μm
- The filter is mounted on an explosion proof enclosure and built from corrosion resistant structural materials
- The power consumption of the filter is significant low, due to the use of the hydraulic power of the water for cleaning

Oil & Gas: Producer of alkylamines and derivatives

Product	AF – 800 Automatic Hydraulic Filters
Flow rate	250 m ³ /h/ 1,100 gpm
Structural Materials	Carbon steel body SST 316L screen
Max. Pressure	10 bar
Filtration Degree	120 μm
Inlet/Outlet Pipe	8"
Client	Chemical Plant
Application	Pre-Treatment for UF Membranes



The Need: Pre treatment for Ultra Filtration Membranes

- The plant utilizes Canal water treated to a level of Ultra Pure Water to ensure reliability of production process.
- The client's engineering team has defined the use of Ultra Filtration membranes as the main treatment method with a requirement to protect the UF membranes from blockage.

The Solution: Yamit AF-800 Automatic hydraulic filters

- Taminco selected the Yamit Automatic Hydraulic self cleaning filters as - it's UF pre-treatment solution.
- The power consumption of the filter is significant low, due to the use of the hydraulic power of the water for cleaning
- Due to the high quality of the filtered water, the UF membranes were able to perform for long periods with less backwash sequences and minimum CIP procedures.

Oil & Gas: Onshore oil reservoir - brackish water injection

Product	Mega 1400
Flow rate	8,890 m ³ /h/ 34,200 gpm (7 + 1 units)
Structural Materials	Carbon steel body inner lining and special external epoxy coating
Filtration Degree	10 µm
Pressure	10 Bar
Certification	ASME U Stamp



The Need: Brackish Water Filtration

- The oil reservoir utilizes injected brackish water to increase the oil pressure
- To eliminate the risk of injection nozzles blockage, a pre-injection filtration process is required.
- Veolia has defined the use of media filtration to be followed by fine screen filters.
- The solution had to provide a high level of reliability, redundancy, ease of operation and operational efficiency.

The Solution: Mega 1400 Automatic Electric filters

- Veolia Dubai selected the Yamit Mega 1400 Automatic Electric Self Cleaning Suction Fine Screen Filter
- The filters were provided skid mounted for fast installation on site and were design was ASME (VIII Div I) 'U' stamped

Cooling Water & UV Protection – Netherlands

Product	AF806 XLP automatic hydraulic filters
Flow rate	120 m ³ /h/ 528 gpm
Structural Materials	Carbon steel epoxy coated
Filtration Degree	3 stages: 120-80-50 microns
Pressure	10 bar
Application	Filtration of cooling water and UV protection
Product	AF806 XLP automatic hydraulic filters
Flow rate	120 m ³ /h



The Need:

Filter cooling water and protect UV up to 30 microns in order to remove mussel larvae from the water.

The Solution:

AF806XLP X 3 stage filtration automatic hydraulic self-cleaning filters: 120-80-30 microns bring micron level of 30 micron. Filters also provide protection of UV.

A single controller for all 3 filters.

Drinking Water – Media Filter Solutions



Nagua - Dominican Republic

Application: Drinking water
Water source: River
Flow rate: 180 m³/h (4755 GPM)
Treatment process: pre-treatment, low media filtration, deep media filtration, chemical treatment
Results: Good quality drinking water provided on a continuous basis

Chimalhuacán - Mexico

Need/Application: Iron removal and bad smell of H₂S system
Solution: Pre-filtration with automatic hydraulic screen filter, chemical injection, high media filters, active carbon filtration, and post-chlorination
Results: Good quality drinking water free from iron and odor according to the Mexican standard.



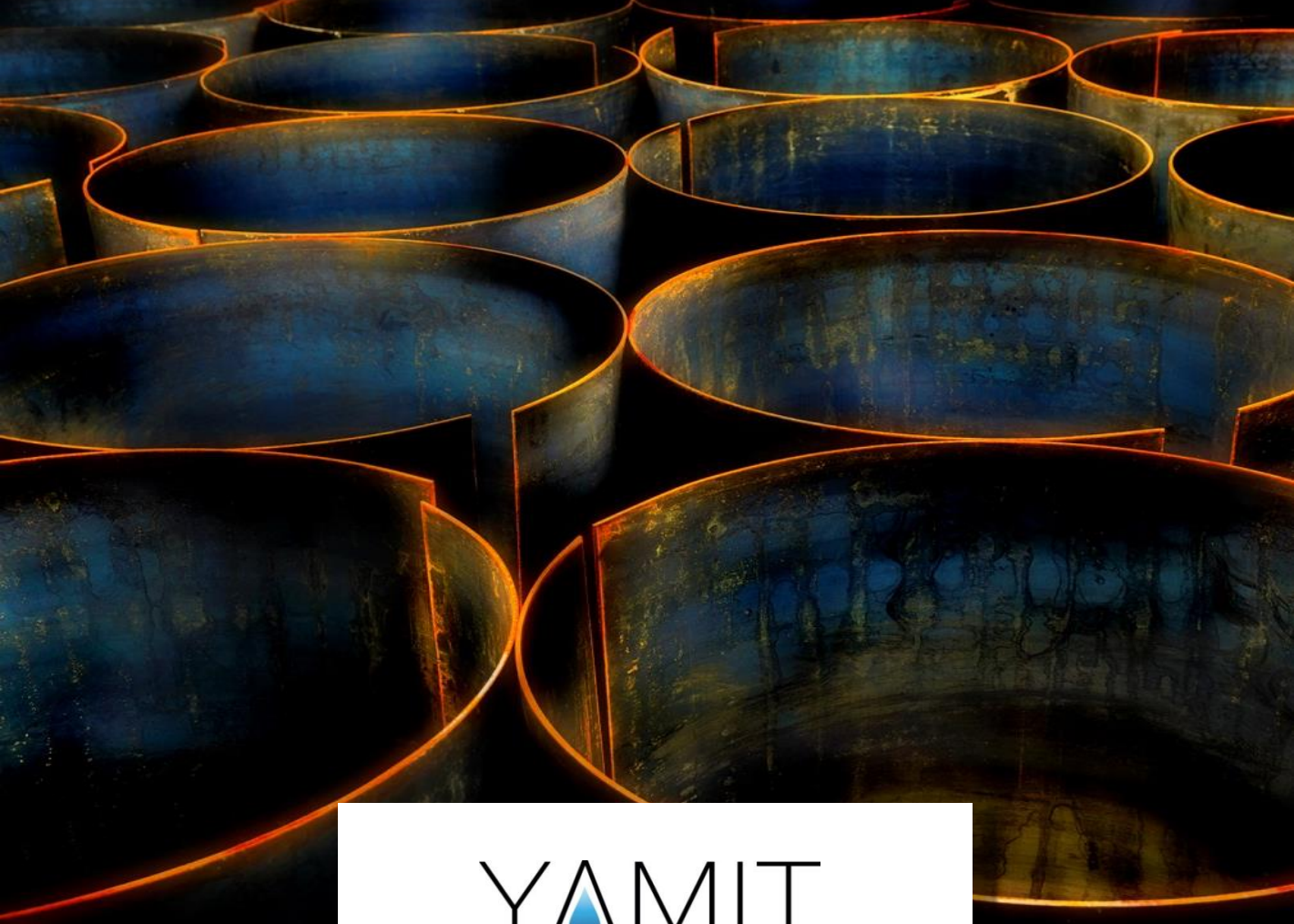
Philippines - Mobile Units

Application: Drinking water
Flow rate: 4 m³/h (18 GPM)
Treatment process: Pumping, sedimentation, deep media filtration, active carbon filtration, reverse osmosis (RO), and storage
Results: Good quality drinking water

Ezulwini - Swaziland

Application: Mobile containerized in & out plug & play drinking water system
Water source: Spring
Flow rate: 3200 m³/h / 14,100 gpm
Treatment process: pumping from the spring, clarifiers, media filtration, backwash and storage
Results: Good quality drinking water





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