Low Maintenance
Amiad filters are designed to perform and built to last. Low maintenance means high confidence, which allows our customers to focus on their core business.

Saving Energy
Energy, like water, is a precious resource. All our filters are designed to use minimal energy, some even operate solely through water pressure.

Commitment
Our commitment to quality, reliability, efficiency, and dedicated customer service ensure that end users can focus on production, not filtration.

Water Conservation
Conserving water is an integral part of all our systems. Amiad’s self-cleaning filters utilize minimal amount of backflush water, ensuring clean water can be used for production.

Small Footprint
Amiad filters are designed to handle big jobs in small areas, freeing up valuable space in crowded urban and limited production areas. Systems can also be installed underground.

ROI
Amiad’s filtration systems yield proven return on investment. Clean water enhances the production process and protects infrastructure, such as pipes, machinery, valves, emitters and ultra-fine filters.

Green Technology
Amiad considers ecology along with economics. Our filtration systems deliver clean water with clean technology.

Smart Technology
Sophisticated technology allows Amiad filters to communicate upstream and downstream - and operate remotely - tackling nearly any water filtration challenge.
Arkal’s unique SpinKlin® disc filtration and patented backwash technology, operates using thin, color-coded discs of a specific micron size. The discs are grooved on both sides, in opposite directions, creating a series of crossing points which form multiple particle traps.

A series of discs are stacked and compressed on a specially designed spine, producing a matrix of consecutive crossing points which trap the particles, thus creating a depth filtration element.

The system enters backflush mode, activated by predefined time command or differential pressure.
Automatic Self Cleaning SpinKlin® Disc Filters

- SpinKlin 2” compact all plastic
- SpinKlin 2” compact air aided flushing
- SpinKlin 2” plastic battery
- SpinKlin 2” - external source flushing
Amiad uses Filtomat microfiber thread technology to create highly-effective self-cleaning water filter systems. The automatic self-cleaning filters use a unique filtration medium constructed of fine threads wound in layers around a grooved plastic spool cassette, removing dirt particles as water flows through multi-layered microfibers to the collecting pipes and out of the filter via outlets. The accumulation of dirt particles causes differential pressure. At a preset pressure differential value or time interval, the control unit activates the self-cleaning cycle.
Automatic Self Cleaning Microfiber Filters

Filtomat Series

AMF² 36K

AMF² 93K

AMF² 370K
ABF Filters

Automatic self-cleaning filters for high loads of suspended solids and heavy duty applications

- Flow rates: up to 7200 m³/h (32000 US gpm)
- Filtration degrees: 3500-200 micron
- Water for cleaning: less than 1% of the total flow
- Minimum operating pressure: 2 bar (30 psi)

Features:

- Heavy duty filter for high loads of suspended solids and high flow-rates
- Durable electrically driven revolving-brush cleaning mechanism
- Automatic flushing according to pressure differential and/or time
- Option for continuous flushing
- Low pressure operation, suitable for 2 bar (30 psi) and lower
- No interruption of downstream flow during flushing
- Applications: Water supply systems, cooling water, wastewater treatment
- Industries: manufacturing, mining, water and wastewater treatment plants, turf, agriculture, etc.
EBS Filters

The largest automatic self-cleaning filter for fine filtration

**features:**

- Large filtration area, reliable operating mechanism and simple construction make the EBS filter the ideal solution for filtration of high-flow and poor quality water to very fine filtration degrees
- Automatic flushing according to pressure differential and/or time
- No interruption of downstream flow during flushing
- Robust and reliable self-cleaning mechanism even on marginal operation conditions
- Minimal volume of reject water allows excellent operation during flush mode
- Applications: Water supply systems, Irrigation systems, Cooling Water, Wastewater Treatment, Industrial Pre-Filtration, etc.
- Industries: manufacturing, mining, water and wastewater treatment plants, turf and agriculture, etc.

<table>
<thead>
<tr>
<th>flowrates</th>
<th>filtration degrees</th>
<th>water for cleaning</th>
<th>minimum operating pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 7200 m³/h (32000 US gpm)</td>
<td>800-10 micron</td>
<td>less than 1% of the total flow</td>
<td>2 bar (30 psi)</td>
</tr>
</tbody>
</table>

Amiad Australia Pty Ltd.  
138 Northcorp Boulevard, Broadmeadows, Victoria 3047, Tel: 61 3 93585800, Fax: 61 3 93585888, E-mail: sales@amiad.com.au
SAF Filters

The automatic self-cleaning filter - suitable for more applications than ever

- Large filter area, reliable operating mechanism and simple construction make the SAF filter the ideal solution for filtration of poor quality water to very fine filtration degrees
- Automatic flushing according to pressure differential and/or to time
- No interruption of downstream flow during flushing
- Robust and reliable Self-Cleaning mechanism even on marginal operation conditions
- Minimal volume of reject water allows excellent operation in continuous flush mode
- Applications: Water supply systems, Irrigation systems, Cooling Water, Waste Water Treatment, Industrial Pre-Filtration, etc.
- Industries: manufacturing, mining, water and wastewater treatment plant, turf and agriculture, etc.

flow rates
up to 1760 US gpm (400 m³/h)

filtration degrees
800-10 micron

water for cleaning
less than 1% of the total flow

minimum operating pressure
30 psi (2 bar)
Media Filters

Complete filtration solutions; Custom designed, manual or automatic backwash systems, complete with manifolds, valves and controllers

Modularity and flexibility, wide range of vessel types and sizes suitable for many filtration applications

High quality corrosion resistance vessels, Phosphate pre-treated, Polyester coated steel

High efficiency: Advanced design for perfect water distribution during filtering and backwashing

All filters are rated to 10 bar (150 psi)

Various bed types, Sand, Gravel, Activated Carbon, Anthracite, Basalt, etc.

Various connection types, meeting all international standards

Meets ISO 9001 standards

flowrates standard vessels
up to 110 m³/h (484 US gpm) per unit

filtration degrees
depends on: water quality, water flowrate, filter bed type

diameters standard vessels
16”– 60”

tested pressure
10 bar (150 psi)
<table>
<thead>
<tr>
<th>Section</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. OIL &amp; GAS</td>
<td>A1 cooling water</td>
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<td></td>
<td>A2 injection water</td>
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<tr>
<td></td>
<td>A3 pre-filtration to membranes</td>
</tr>
<tr>
<td></td>
<td>A4 produced water</td>
</tr>
<tr>
<td>B. WASTEWATER</td>
<td>B1 pre-filtration to membranes</td>
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<td></td>
<td>B2 polishing</td>
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<tr>
<td></td>
<td>B3 intake water</td>
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<td>C. INDUSTRIAL</td>
<td>C1 cooling towers</td>
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<tr>
<td></td>
<td>C2 intake water</td>
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<tr>
<td></td>
<td>C3 pre-filtration to membranes</td>
</tr>
<tr>
<td></td>
<td>C4 process water</td>
</tr>
<tr>
<td>D. MUNICIPAL</td>
<td>D1 removal of desolved chemical elements</td>
</tr>
<tr>
<td></td>
<td>D2 pre-filtration to membranes</td>
</tr>
<tr>
<td></td>
<td>D3 potable water</td>
</tr>
<tr>
<td></td>
<td>D4 desalination</td>
</tr>
<tr>
<td>E. MARINE</td>
<td>E1 Ballast water</td>
</tr>
</tbody>
</table>
**Oil & Gas Injection Water**

**EBS 10000 - 25 micron | AMF² 370k - 7 micron**

- **Application:** Salt dome leaching for gas storage
- **Flowrate:** 8000 USgpm
- **Filtration degree:** stage 1: 25 micron stage 2: 7 micron
- **Water source:** Salt dome leach water (100% brine saturation)
- **Filtration solution:** stage 1: 70x EBS 10000 stage 2: 20x AMF² 370k

**OUR BENEFITS**

- Small Footprint
- Water Conservation
- Green Technology
- Low Maintenance
- Saving Energy

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[Diagram of injection water system with labels for Fresh Water Storage Tanks, Fresh Water Wells, Fresh Water Injecton Pumps 1600 psi, and Cavern.]
Brine Water Storage Tank

Amiad EBS Filter

Filtomat AMF Filter

Brine Water Injection Pumps 1200 psi

Brine Water Waste Wells
**Oil & Gas Injection Water**

**EBS 10000 - 25 micron**

- **Project name:** FPSO, Singapore
- **Application:** Injection Water
- **Flowrate:** 220 m³/h, 970 USgpm
- **Filtration degree:** Stage 1: 200μ, Stage 2: 25μ, Stage 3: 5μ

- **Water source:** Seawater
- **Filtration solution:**
  - Stage 1: 200μ - 2xEBS,
  - Stage 2: 25μ - 2xEBS,
  - Stage 3: 5μ - cartridge system

**OUR BENEFITS**

- Small Footprint
- Water Conservation
- Green Technology
- Low Maintenance
- Saving Energy
Wastewater Tertiary Treatment

**AMF² 93K - 10 micron**

**Project name:** Wastewater Treatment Plant, South Carolina, USA  
**Application:** Tertiary Treatment  
**Flowrate:** 57 m³/h; 250 USgpm

**Filtration degree:** 10 micron  
**Water source:** Treated wastewater  
**Filtration solution:** 2x AMF² 93K

**OUR BENEFITS**

- Small Footprint  
- Water Conservation  
- Green Technology  
- Low Maintenance

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Activating Basin

Filtomat AMF Filter

Amiad SAF Filter

Final Sedimentation

Activating Basin
**Wastewater Pre-Filtration for UF, RO & UV Systems**

**ABF 10000 - 500 micron**

- **Project name:** Newater, Singapore
- **Application:** Pre-filtration for UF, RO and UV systems
- **Flowrate:** 2,060 m³/hr; 9,070 USgpm
- **Filtration degree:** 500 micron
- **Water source:** Secondary treated sewage effluent
- **Filtration solution:** 4 x 14" ABF-10000 Filters, stainless steel 316

**OUR BENEFITS**

- Small Footprint
- Water Conservation
- Green Technology
- Low Maintenance
- Saving Energy

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BY AMIAD

Filtomat AMF Filter
High Pressure Pump
R.O
Cooling Tower

4” Galaxy – 70 micron

Project name: Fine Chemicals Producer, Korea
Application: Side stream cooling tower
Flowrate: 200 m³/h

Filtration degree: 70 micron
Water Source: Treated River Water (make-up water)
Filtration Solution: 5 x 4” Galaxy

OUR BENEFITS

Water Conservation  ROI  Low Maintenance  Saving Energy

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Cooling Consumers

Side-Stream Filtration
**Cooling Tower**

**ABF 10000 - 200 micron**

- **Project name:** Guangdong Shao Steel Plant, China
- **Application:** Cooling Water
- **Flowrate:** 8,000 m³/h; 35,200 USgpm
- **Filtration degree:** 200 micron
- **Water source:** Dam water
- **Filtration solution:** 8 x 16” ABF

**OUR BENEFITS**

- Small Footprint
- Water Conservation
- Green Technology
- Low Maintenance
- Saving Energy
Pre-filtration to Desalination

**6” Galaxy 100 micron**

- **Project name:** Escombreras Desalination Plant, Spain
- **Application:** Pre-filtration to seawater RO
- **Flowrate:** 7200 m³/h
- **Filtration degree:** 100 micron
- **Water Source:** Sea Water
- **Filtration Solution:** Module configuration 6 x 12 6” Galaxy

**OUR BENEFITS**

- Water Conservation
- ROI
- Low Maintenance
- Saving Energy

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**Diagram:**

- Reverse Osmosis Unit
- Calcite Remineralization Beds
- Ultrafiltration Storage Tank
Potable Water - Desolved Metal

AMF² 370K - 3 micron

Project name: Ramenskoe Potable WTP, Russia
Application: Iron removal
Flowrate: 250 m³/hr; 1,100 USgpm

Filtration degree: 3 micron
Water source: Wells
Filtration solution: 2 x AMF² 370K

OUR BENEFITS

- Small Footprint
- Water Conservation
- Green Technology
- Low Maintenance
- Saving Energy

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**Ballast Water**

4” Galaxy – 55 micron

Project name: Cruise ship, USA  
Application: Ballast Water Treatment  
Flowrate: 250 m³/h

Filtration degree: 55 micron  
Water Source: Sea water  
Filtration Solution: 6 x 4” Galaxy battery

**OUR BENEFITS**

- ROI
- Low Maintenance
- Commitment

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America

Asia

Australia

Europe

Small Footprint  Water Conservation  Green Technology  Low Maintenance  Saving Energy