

# Industrial & Municipal Catalogue



# our values your benefits

Our vision and values focus on constant innovation, striving to deliver advanced water filtration solutions which provide Return On Investment (ROI) while protecting the environment.





### 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 back flush 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.

# company profile

## Values of Leadership

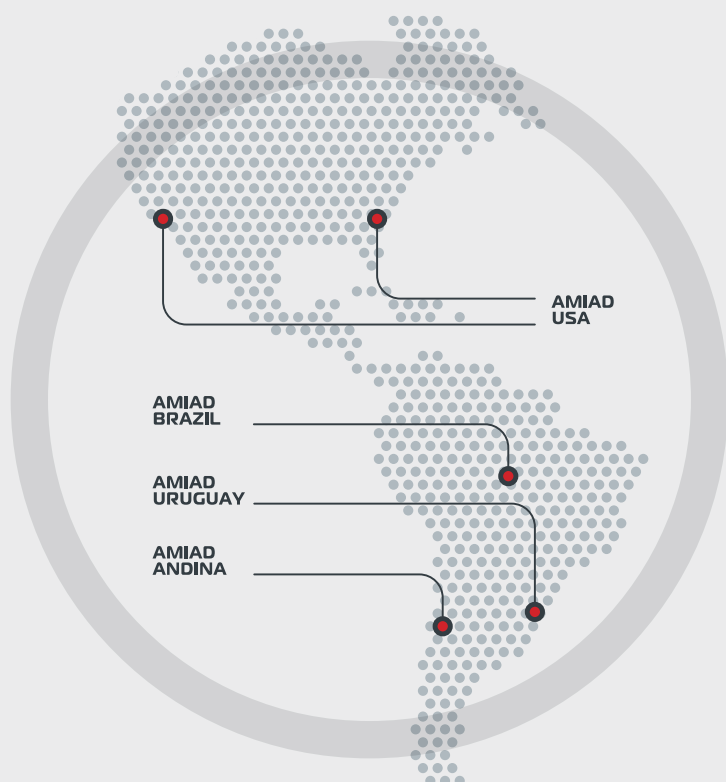
For half a century, Amiad Water Systems has devoted its passion and Innovation to develop a comprehensive line of exceptionally efficient automatic self-cleaning water filters. The 50 year effort of total commitment and focus solely on water filtration has yielded a product range of screen, disc and microfiber technology as well as filtration expertise second to none. We are grateful for the reputation we've earned and never forget that it depends on the paramount importance we dedicate to our customers and their water systems we proudly protect with our filtration solutions.

## Clear Solutions to Water Filtration Challenges

Amiad, Arkal and Filtomat products meet the challenges presented by different water sources, outlet requirements and extreme working conditions - our solutions process millions of cubic meters of water every day, delivering clean water all year round and all over the world. Water Filtration Systems by Amiad are commissioned at the heart of every conceivable water system, protecting water applications for industrial, municipal, agricultural, and domestic use.

## Growing Demands, Exceptional Results

Amiad is dedicated to meet the varying needs of its customers worldwide - in Europe, Asia, the Americas, Africa, and Oceania, ever growing its worldwide presence to serve its customers. For decades, Amiad has invested its leverage as a rapidly growing company in continuously expanding its reach to its customers and will continue to do so to meet the growing demands of this evolving market.



# point to point all over the world



## Worldwide Presence

Amiad provides solutions to more than 70 countries, with eleven subsidiaries and sales offices. The company sells through dedicated distribution network, as well as directly to end-users and to water treatment system integrators and irrigation companies. The company operates from its headquarters in Israel and manufacturing centers in Israel and Asia.

Amiad has offices in Singapore, China, India, Turkey, Germany, France, Uruguay, Chile, Brazil and North America and third party distributors around the world. Amiad is renowned worldwide for its high-quality standards, consistent availability of parts, prompt delivery, and ongoing customer support.

# world leader in filtration technology

Our extensive line of water filters and water filtration systems includes plastic, steel, semi-automatic and fully automatic self-cleaning screen, disc and microfiber filters. Amiad also manufactures various filter elements to suit different filtration needs from 3500 to 2 micron.

## **Tailor-made water filtration solutions for challenging industrial and municipal needs**

Amiad's unrivalled range of filtration solutions is designed to meet the demanding and diverse requirements of industries and municipalities. Our specialized systems are designed to effectively treat and filter the water according to each customer's specific requirements.

## **Proven Reliability, Global Reach**

Amiad's durable industrial and municipal solutions can be customized for a wide range of applications to meet the toughest climates, water conditions, and technical requirements. Our in-depth knowledge and expertise is built on years of experience, undertaking in projects around the world — from Antarctica to the North Sea.

Amiad provides water filtration products and systems as integrated components or as complete filtration solutions for water treatment, potable water, and wastewater; oil and gas plants; cooling towers and more.

Amiad filters are built to meet the highest industry and municipal standards. Flexible configuration makes Amiad filters suitable for installation anywhere along the water system line.

## **Our Commitment: Clean Technology for a Greener World**

At Amiad, environmental responsibility is a core value. Amiad water filtration systems are more than just effective and reliable—they're safe to use as well as environmentally sound:

- No chemicals
- No polymers
- A bare minimum of back flush water
- Reduced energy demand – many of Amiad's systems don't even require electricity

## **Customized Solutions to Meet Any Challenge**

Amiad develops and designs filtration solutions to meet specific needs. Our experienced team utilizes their extensive expertise to develop innovative filtration solutions, providing custom-built solutions to meet market needs.

## **Innovation: The Future is Automated**

Over the last 50 years, Amiad Water Systems Limited has developed a range of compact automatic, self-cleaning filters incorporating innovative technology. The benefits are clear—low maintenance filters with low energy consumption substantially reduce costs. Designed for a small footprint, these filters are available in sizes ranging from 2 inches to 36 inches in diameter and in filtration degrees ranging from as much as 3500 microns to as fine as 2 microns.



## Fast, Efficient Self-Cleaning Technology for Continuous Flow of Filtered Water

Amiad's leading suction-scanning technology combines focused flush with automation to provide 100% cleaning of the screen area, using less than 1% of the total process water for cleaning. The self-cleaning cycle is triggered by the accumulation of suspended solids (filter cake) on the screen surface, as measured by the pressure differential. Because cleaning is performed "as needed", it results in minimal water and energy waste. Suction-scanning technology eliminates the need to isolate the filter during the self-cleaning cycle. The focused cleaning and the minimal exhaust requirement allow for uninterrupted process flow.



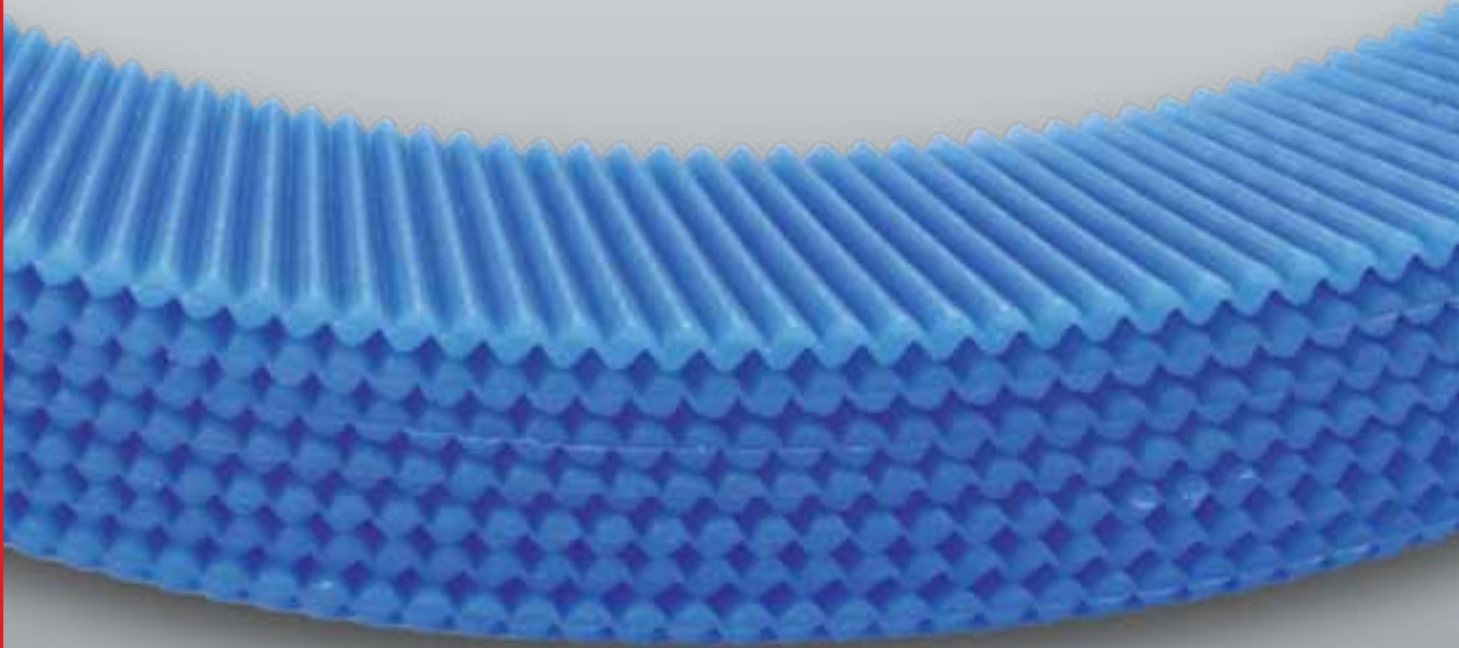
Suction Scanning Technology



Spring Loaded Nozzles [S.L.N.]



Multi-Layer Stainless Steel Screen

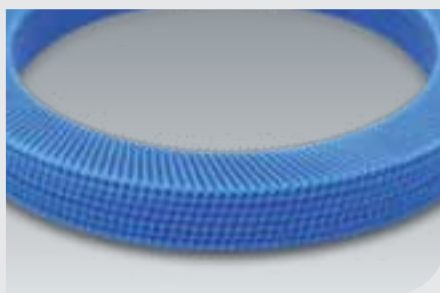


Arkal's unique Spin Klin® disc filtration and patented backwash technology, operates using thin, color-coded discs of a specific micron size.

The discs are grooved on both sides, in opposite directions, creating a series of crossing points which form multiple particle traps.

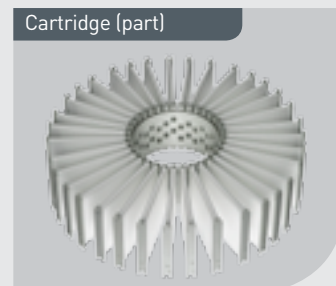
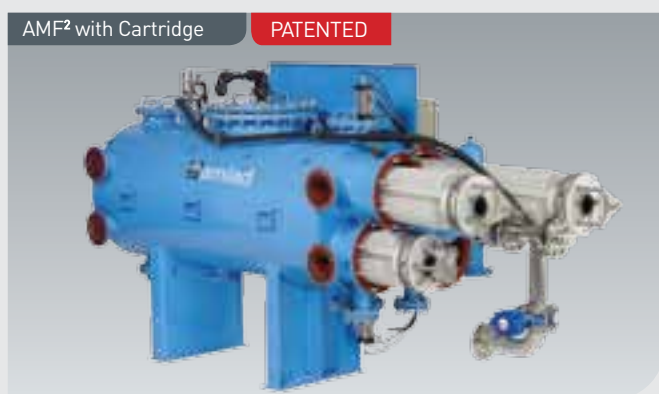
A series of discs are stacked and compressed on a specially designed spine, producing a matrix of consecutive crossing points which trap the particles, thus creating a depth filtration element.

The system enters backflush mode, activated by predefined time command or differential pressure.





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.



# amiad applications

## Industrial & Municipal Applications

A

### OIL & GAS

- A1** cooling water
  - A2** injection water
  - A3** pre-filtration to membranes
  - A4** produced water
- 

B

### WASTEWATER

- B1** pre-filtration to membranes
  - B2** polishing
  - B3** intake water
- 

C

### INDUSTRIAL

- C1** cooling towers
  - C2** intake water
  - C3** pre-filtration to membranes
  - C4** process water
- 

D

### MUNICIPAL

- D1** removal of desolved chemical elements
  - D2** pre-filtration to membranes
  - D3** potable water
  - D4** desalination
- 

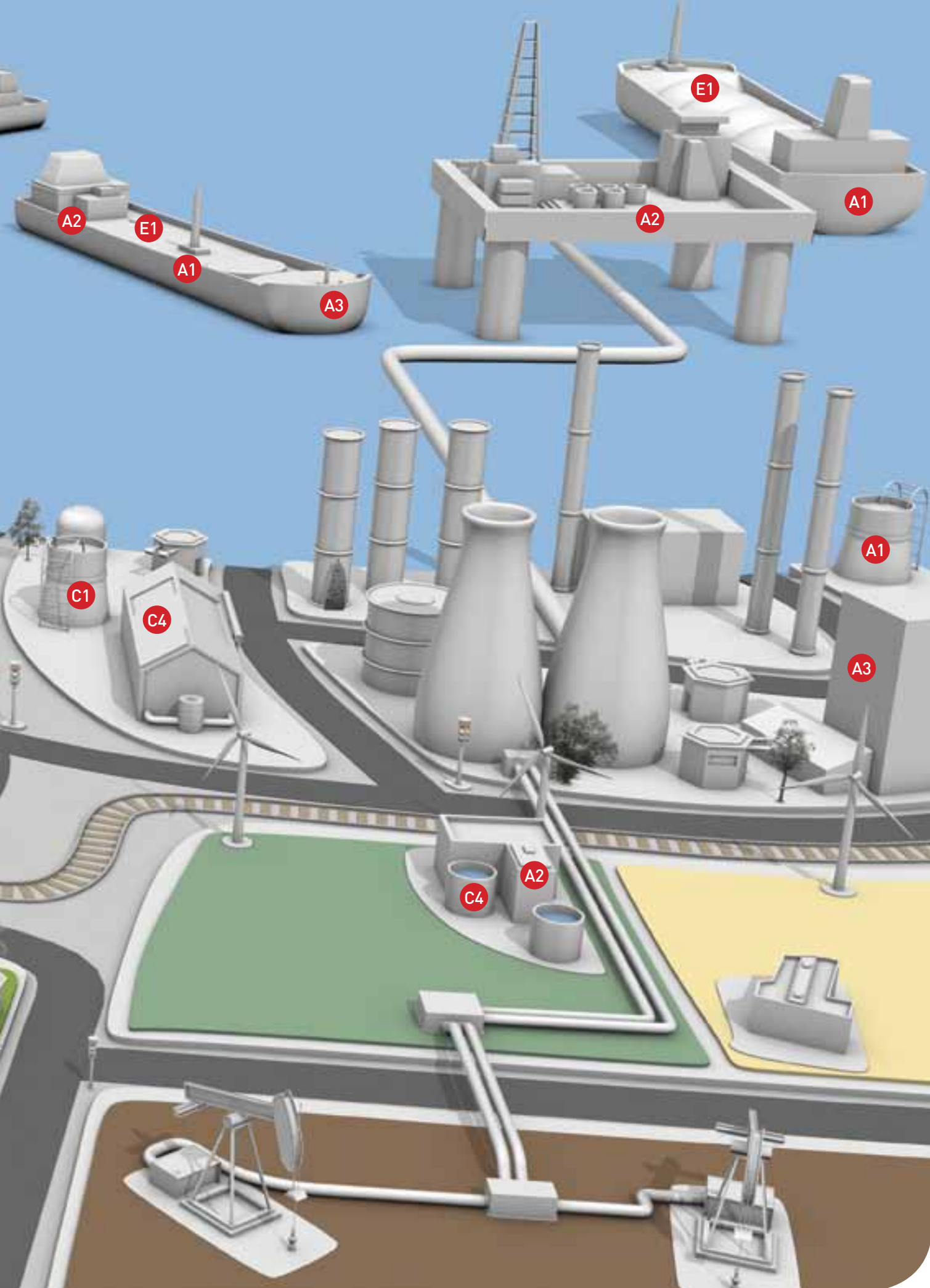
E

### MARINE

- E1** Ballast water







# Oil & Gas Injection Water

**EBS 10000 - 25 micron | AMF<sup>2</sup> 370k - 7 micron**

**Application:** Salt dome leaching for gas storage

**Flow rate:** 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 AMF<sup>2</sup> 370k

## OUR BENEFITS



Small  
Footprint



Water  
Conservation



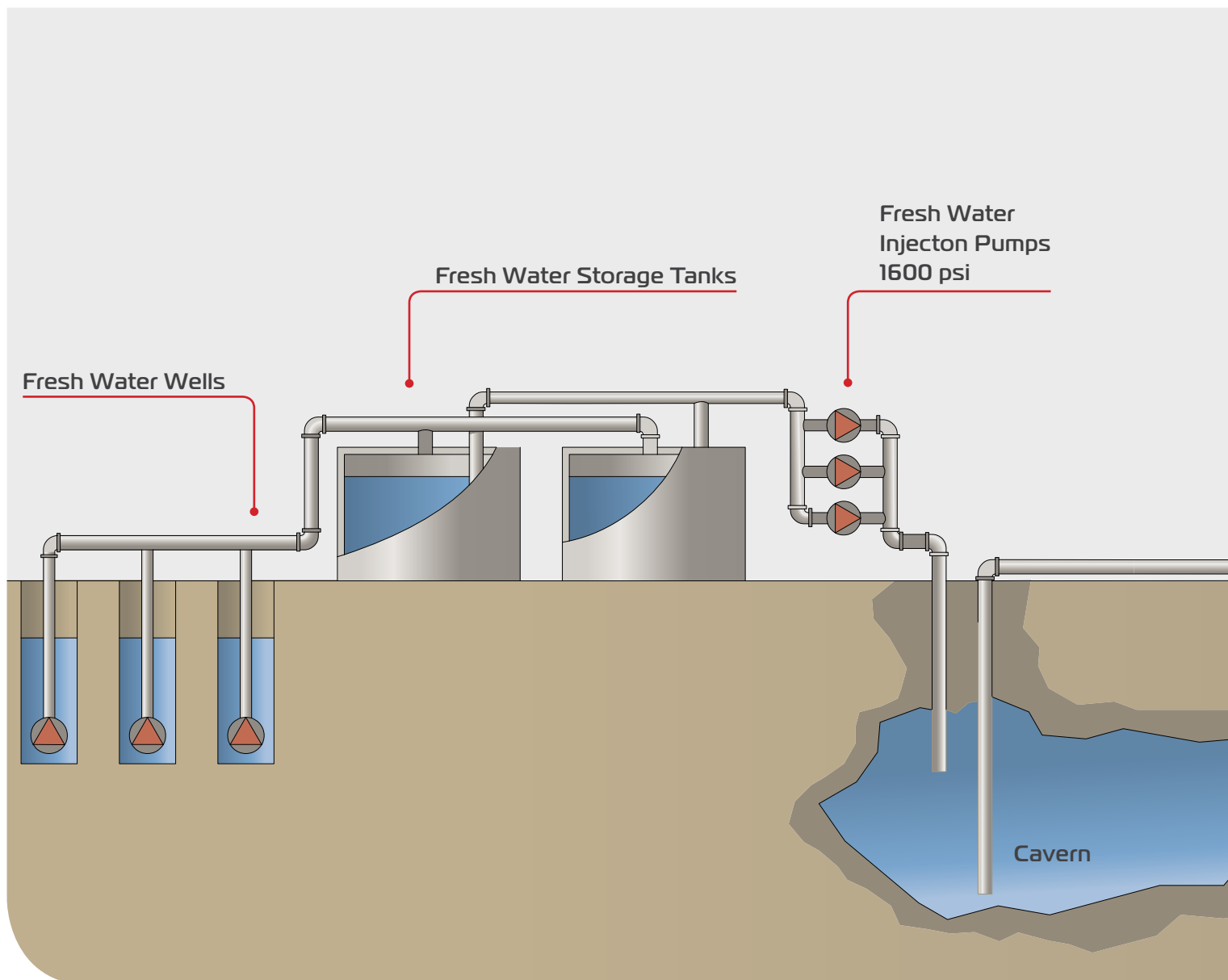
Green  
Technology

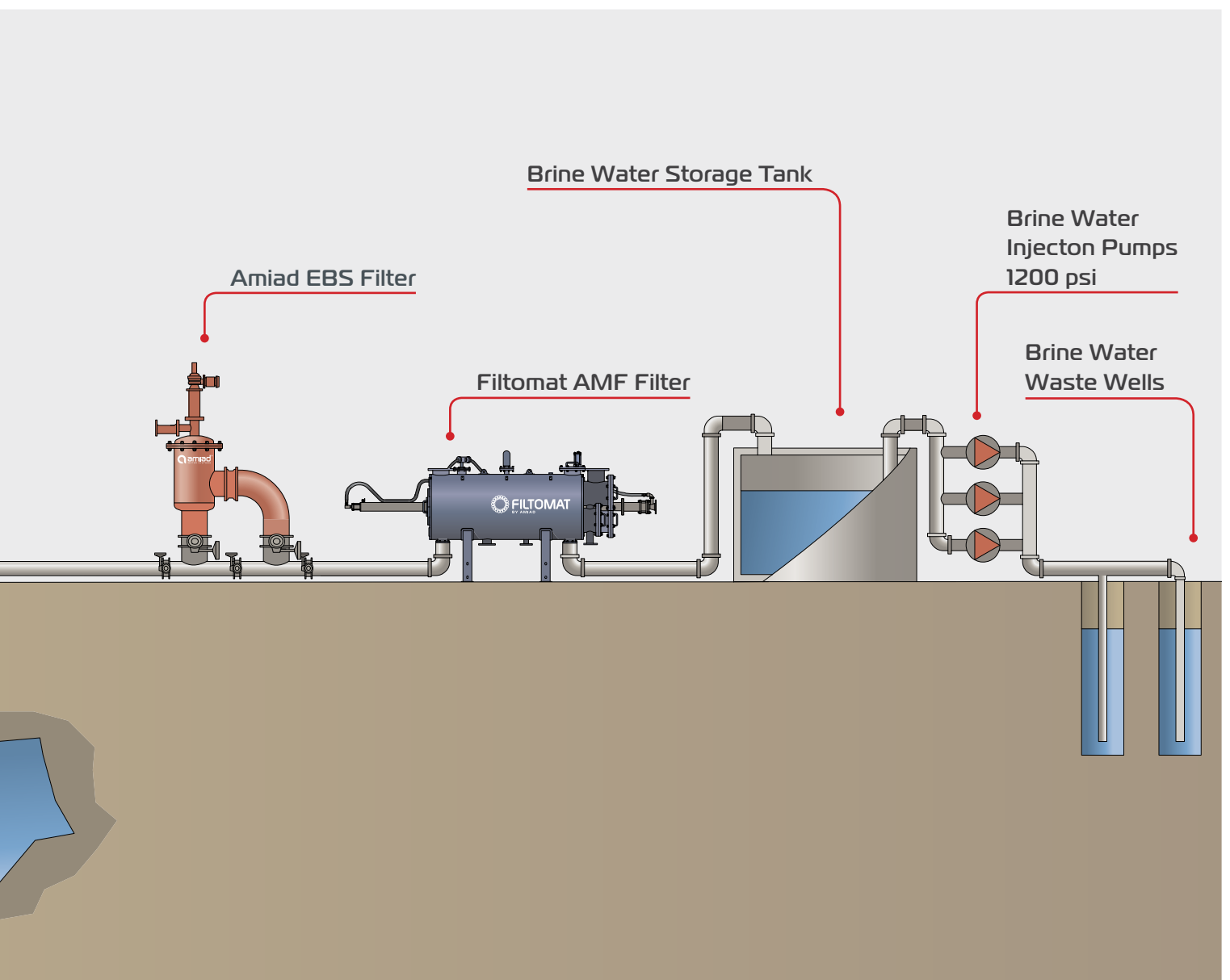


Low  
Maintenance



Saving Energy





# Oil & Gas Injection Water

## EBS 10000 - 25 micron

**Project name:** FPSO, Singapore

**Application:** Injection Water

**Flow rate:** 220 m<sup>3</sup>/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



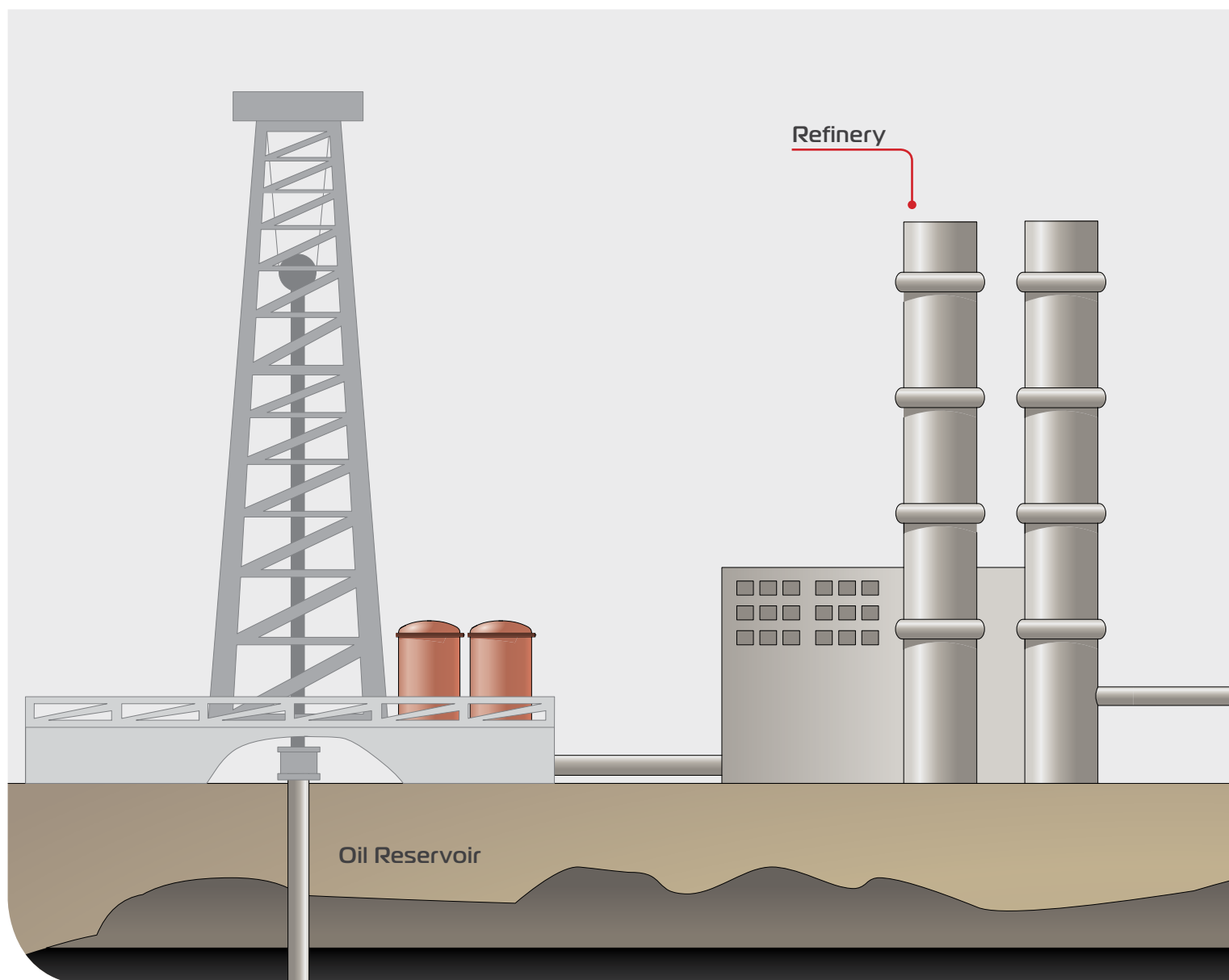
Green  
Technology

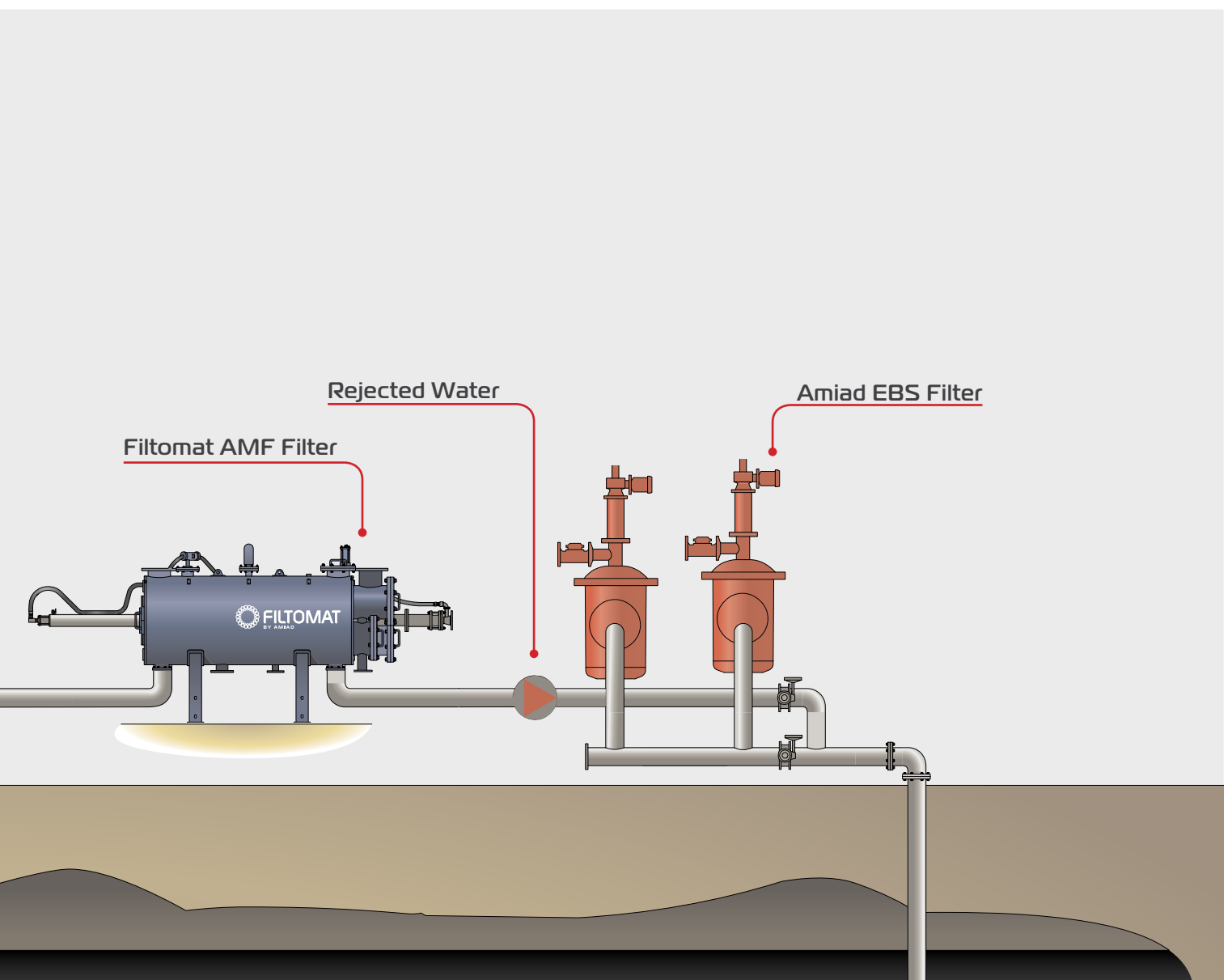


Low  
Maintenance



Saving Energy





# Wastewater Tertiary Treatment

## AMF<sup>2</sup> 93K - 10 micron

**Project name:** Wastewater Treatment Plant,  
South Carolina, USA

**Application:** Tertiary Treatment

**Flow rate:** 57 m<sup>3</sup>/h; 250 USgpm

**Filtration degree:** 10 micron

**Water source:** Treated wastewater

**Filtration solution:** 2xAMF<sup>2</sup> 93K

## OUR BENEFITS



Small  
Footprint



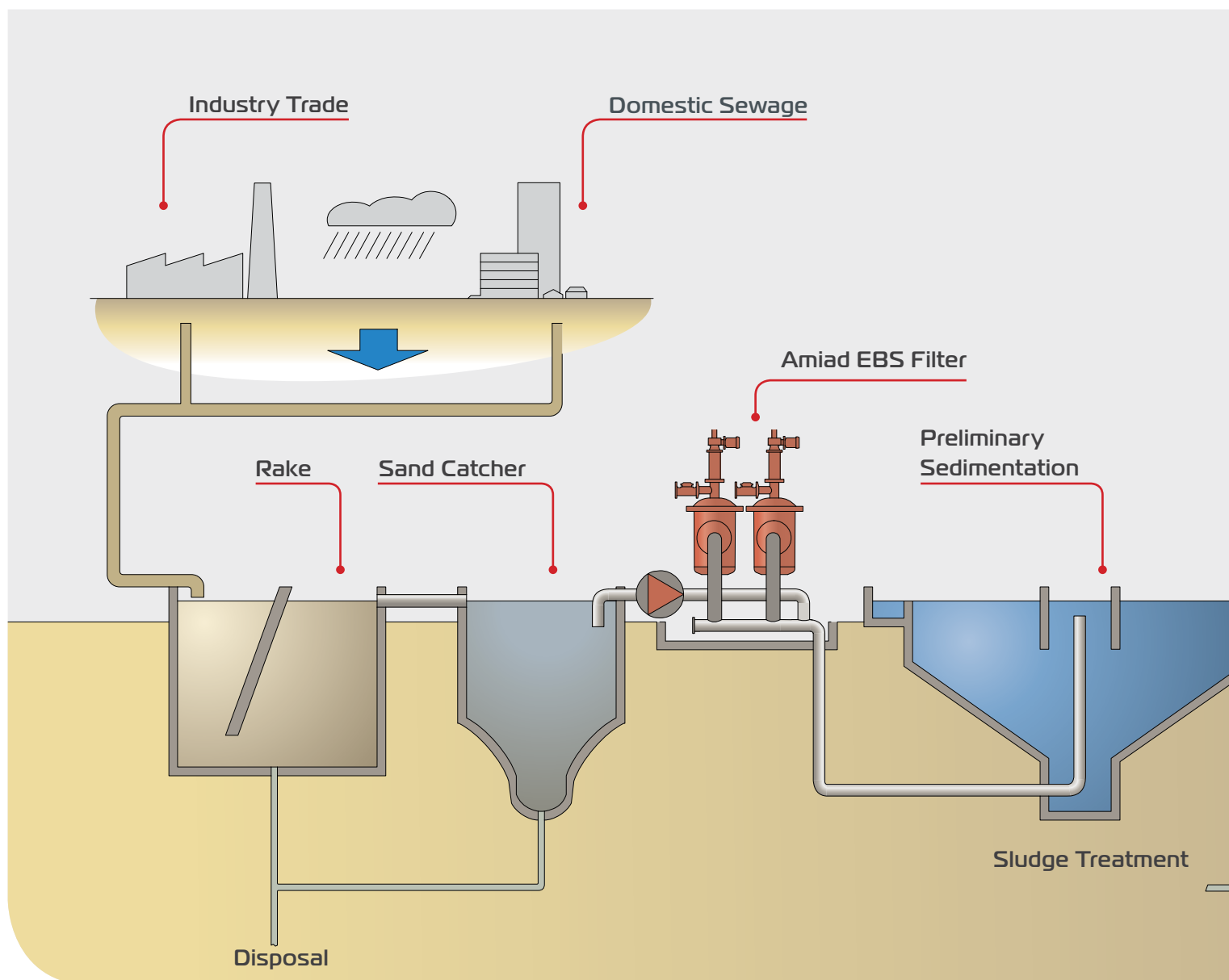
Water  
Conservation

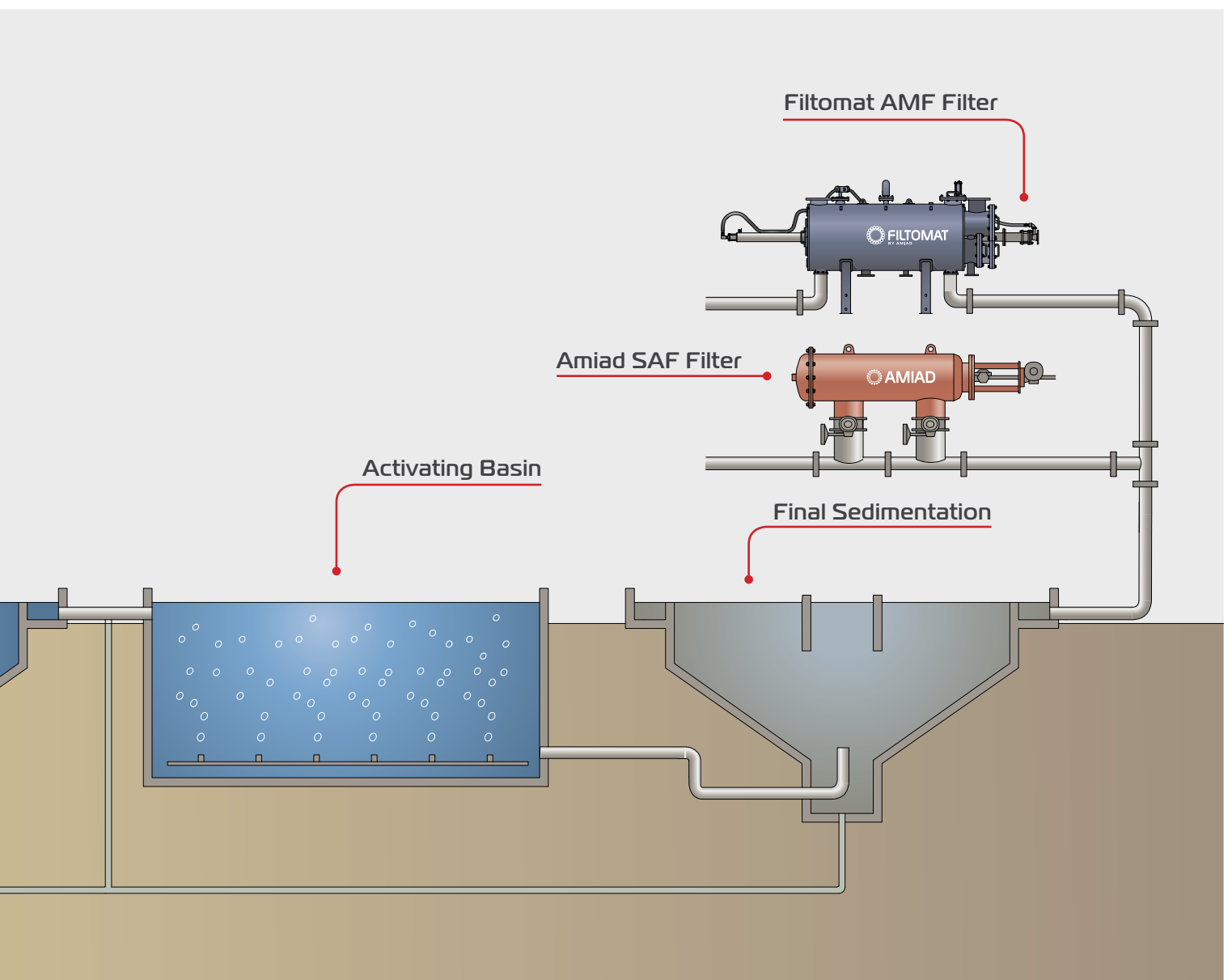


Green  
Technology



Low  
Maintenance





# 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

**Flow rate:** 2,060 m<sup>3</sup>/hr; 9,070 USgpm

**Filtration degree:** 500 micron

**Water source:** Secondary treated sewage effluent

**Filtration solution:** 4x14" ABF-10000 Filters, stainless steel 316

## OUR BENEFITS



Small  
Footprint



Water  
Conservation



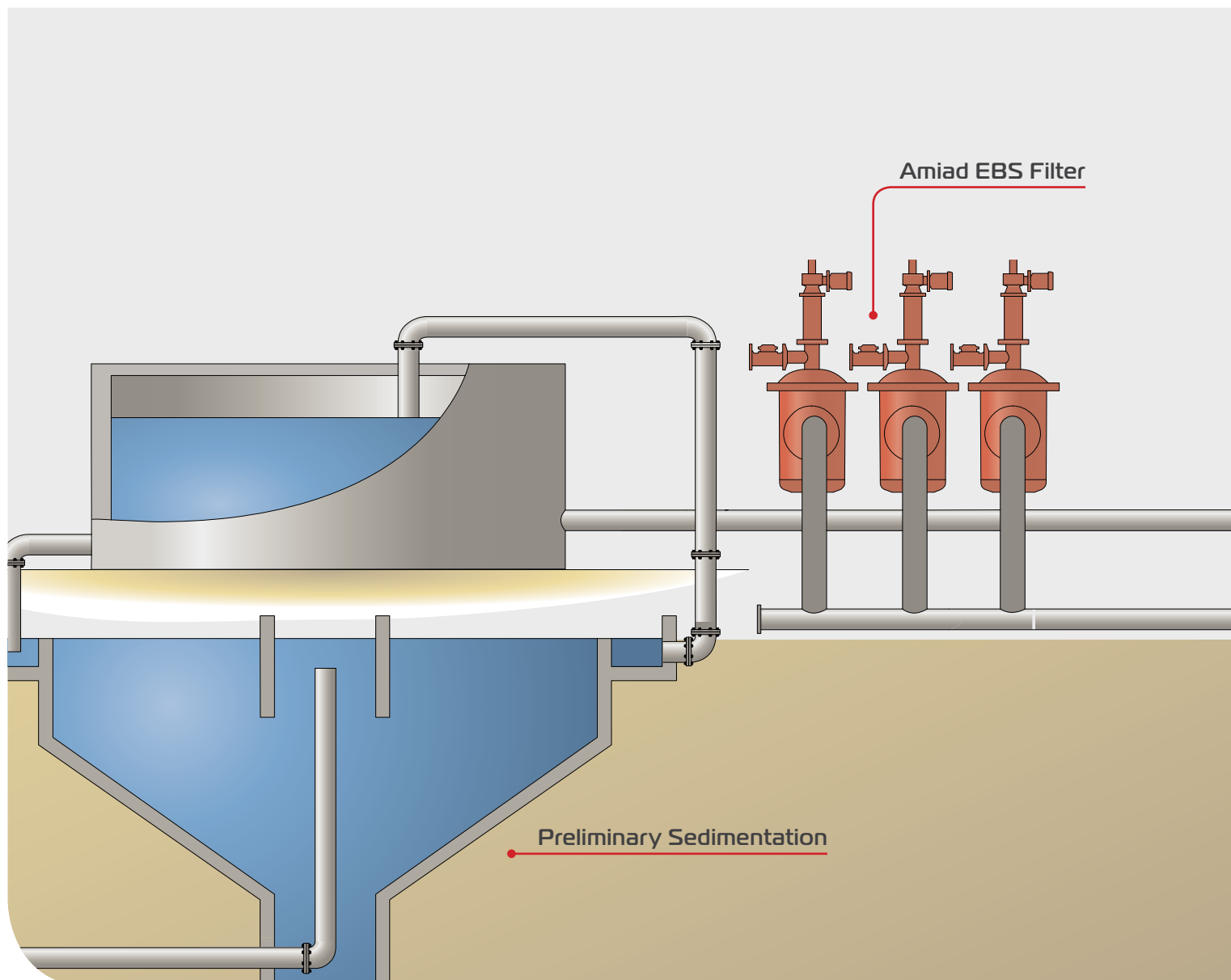
Green  
Technology

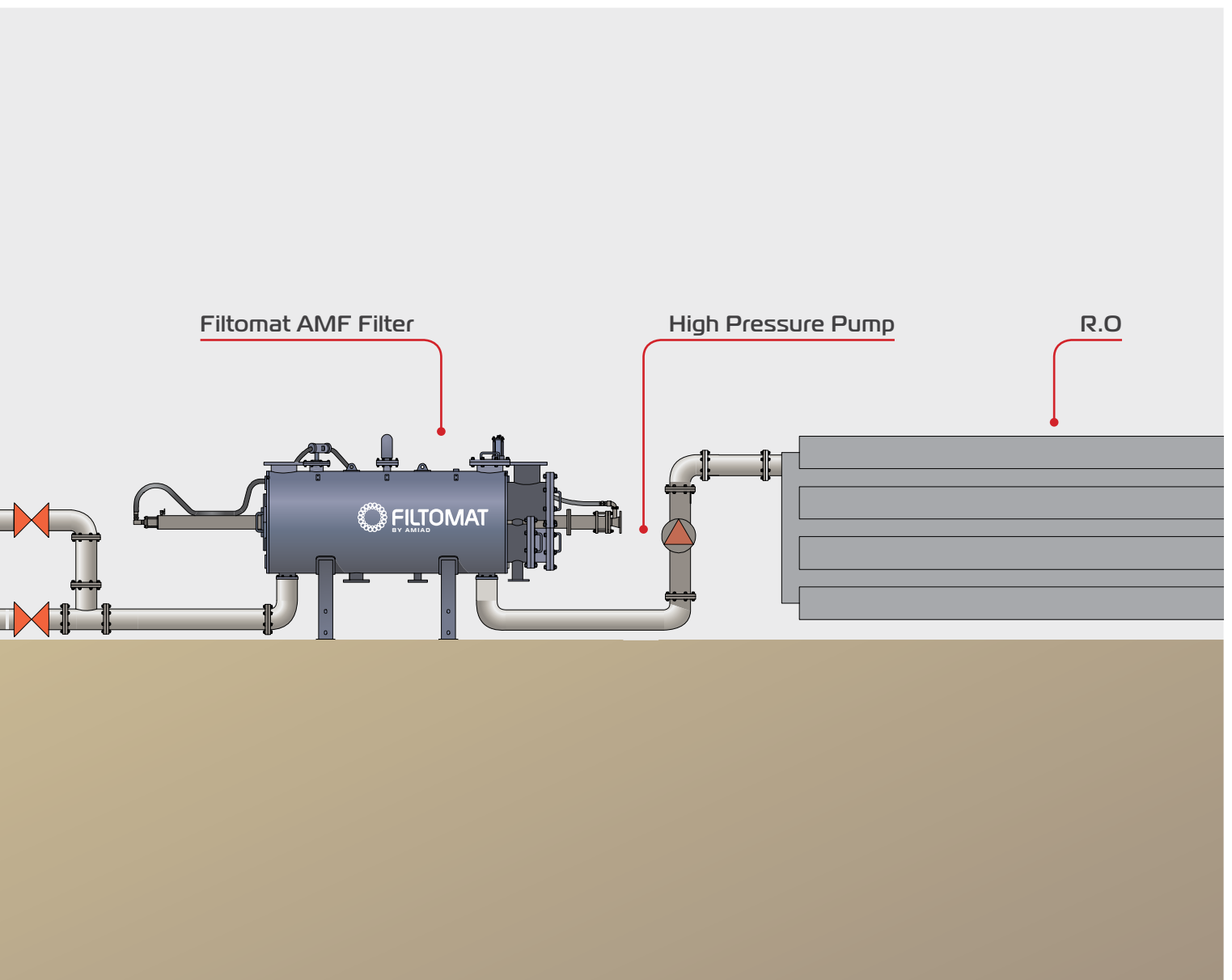


Low  
Maintenance



Saving Energy





# Cooling Tower

## 4" Galaxy – 70 micron

**Project name:** Fine Chemicals Producer, Korea

**Application:** Side stream cooling tower

**Flow rate:** 200 m<sup>3</sup>/h

**Filtration degree:** 70 micron

**Water Source:** Treated River Water (make-up water)

**Filtration Solution:** 5 x 4" Galaxy

## OUR BENEFITS



Water  
Conservation



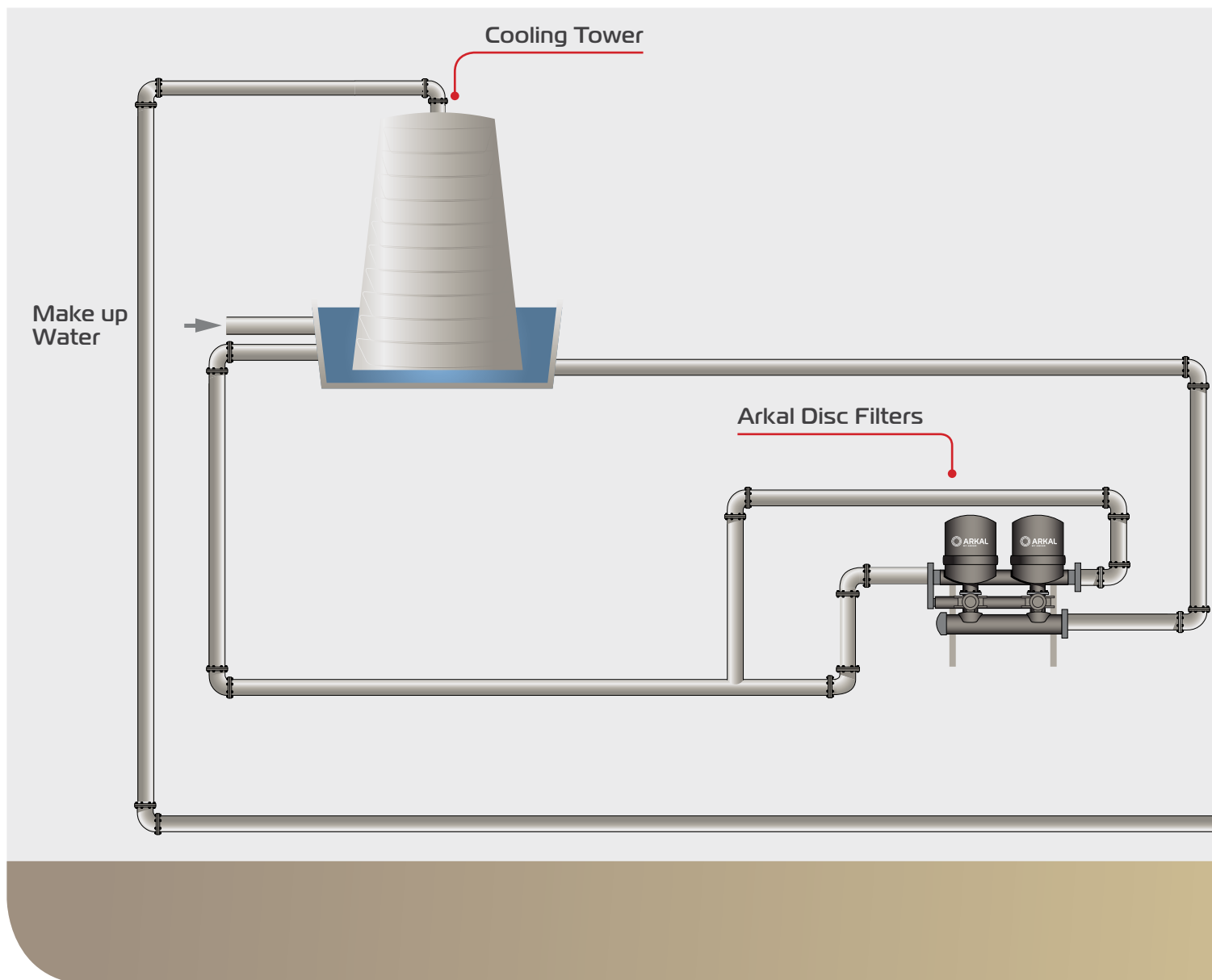
ROI



Low  
Maintenance



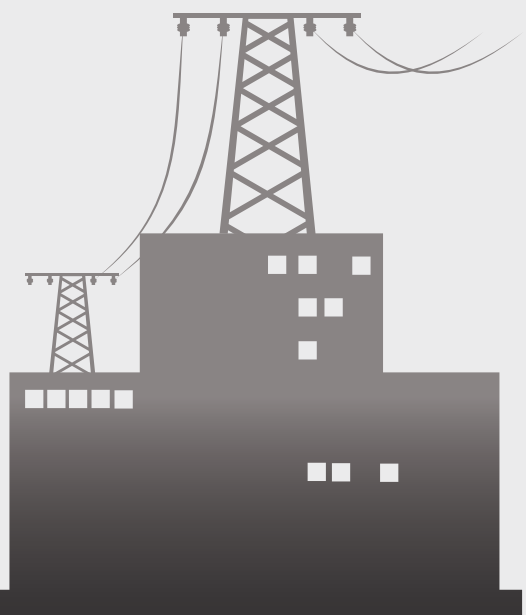
Saving Energy





Side-Stream Filtration

Cooling Consumers



# Cooling Tower

## ABF 10000 - 200 micron

**Project name:** Guangdong Shao Steel Plant, China

**Application:** Cooling Water

**Flow rate:** 8,000 m<sup>3</sup>/h; 35,200 USgpm

**Filtration degree:** 200 micron

**Water source:** Dam water

**Filtration solution:** 8x16" ABF

## OUR BENEFITS



Small  
Footprint



Water  
Conservation



Green  
Technology

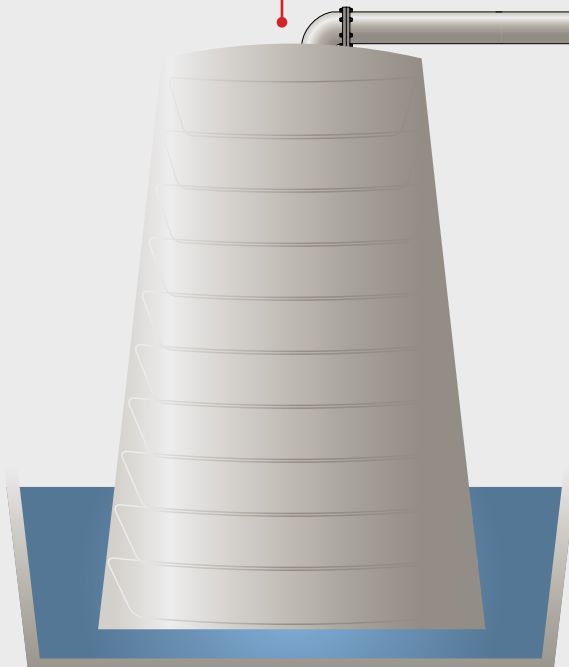


Low  
Maintenance

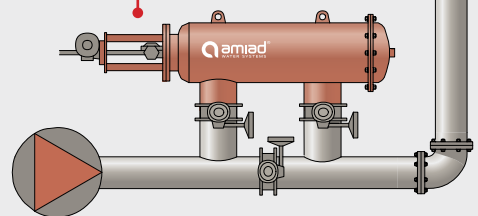


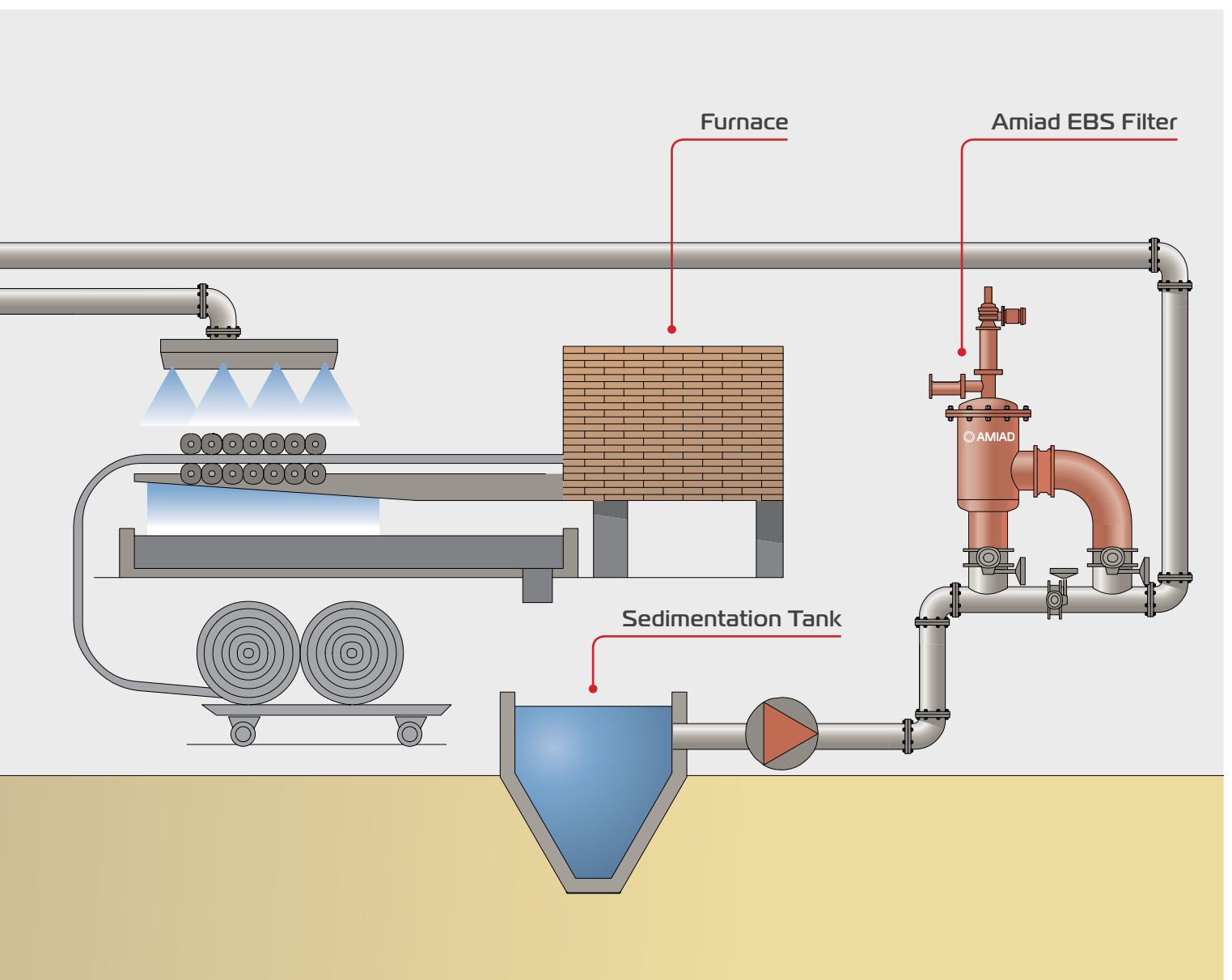
Saving Energy

Cooling Tower



Amiad SAF Filter





# Pre-filtration to Desalination

## 6" Galaxy 100 micron

**Project name:** Escombreras Desalination Plant, Spain

**Application:** Pre-filtration to seawater RO

**Flow rate:** 7200 m<sup>3</sup>/h

**Filtration degree:** 100 micron

**Water Source:** Sea Water

**Filtration Solution:** Module configuration 6 x 12 6" Galaxy

## OUR BENEFITS



Water  
Conservation



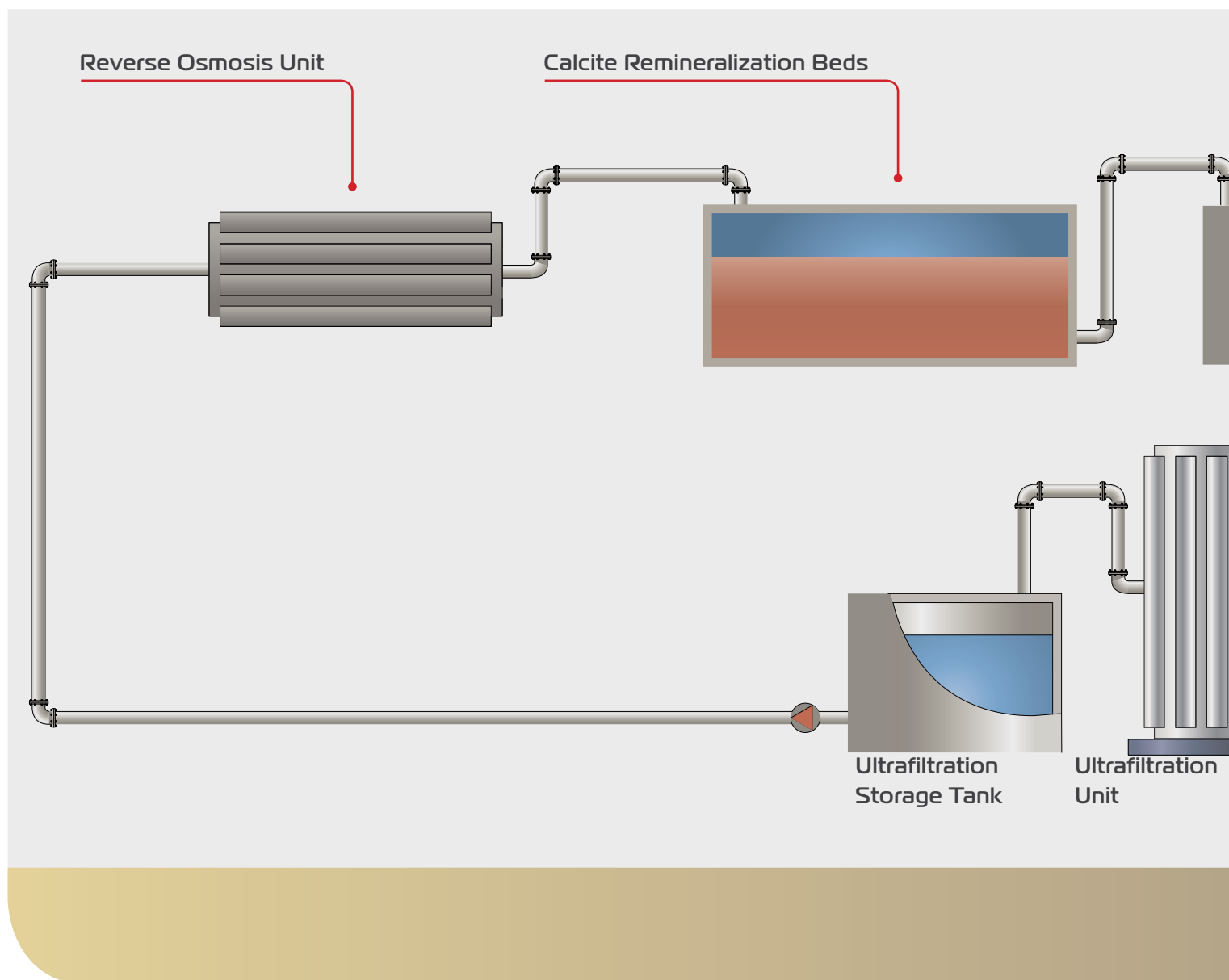
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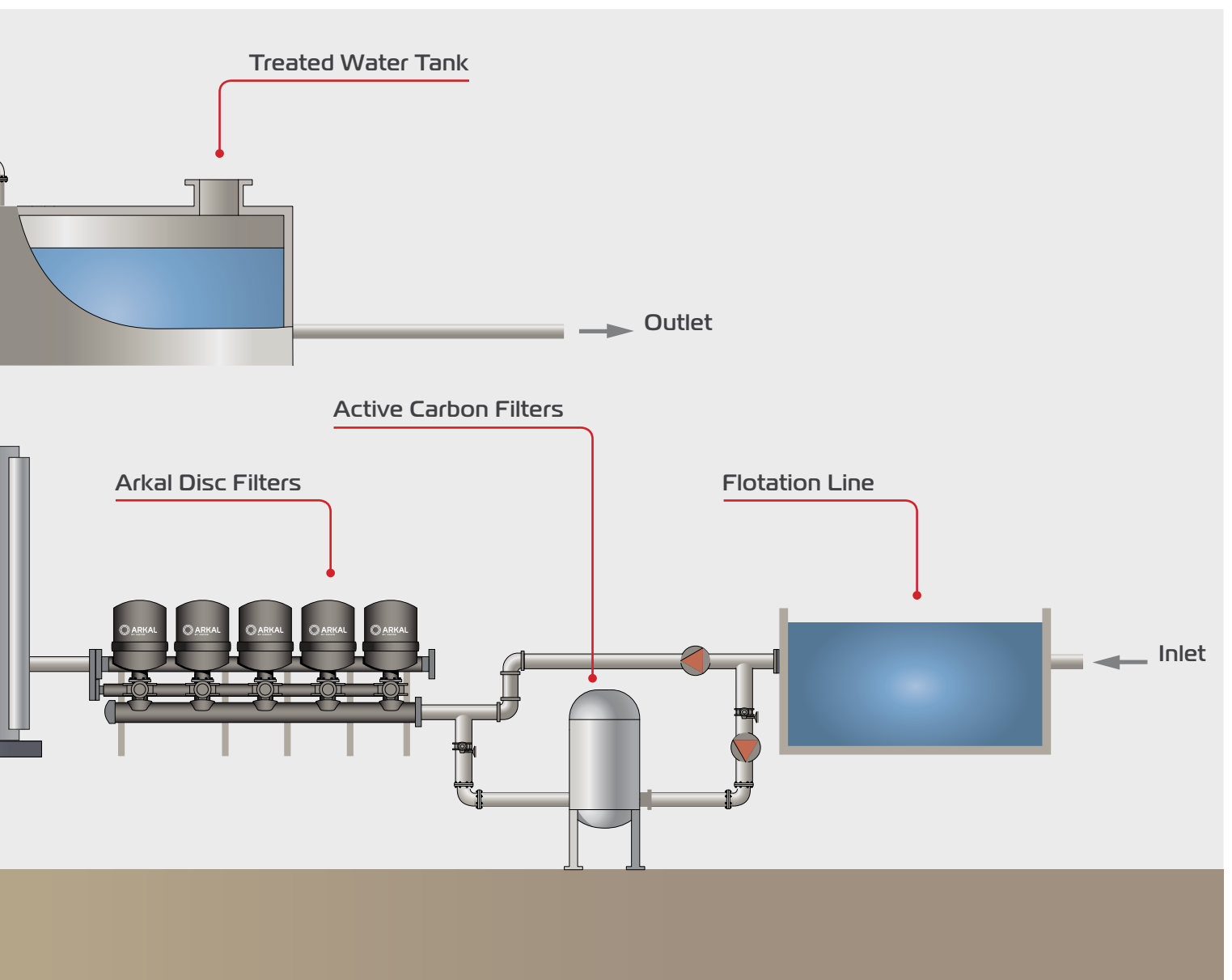


Low  
Maintenance



Saving Energy





# Potable Water - Dissolved Metal

## AMF<sup>2</sup> 370K - 3 micron

**Project name:** Ramenskoe Potable WTP, Russia

**Application:** Iron removal

**Flow rate:** 250 m<sup>3</sup>/hr; 1,100 USgpm

**Filtration degree:** 3 micron

**Water source:** Wells

**Filtration solution:** 2xAMF<sup>2</sup> 370K

## OUR BENEFITS



Small  
Footprint



Water  
Conservation



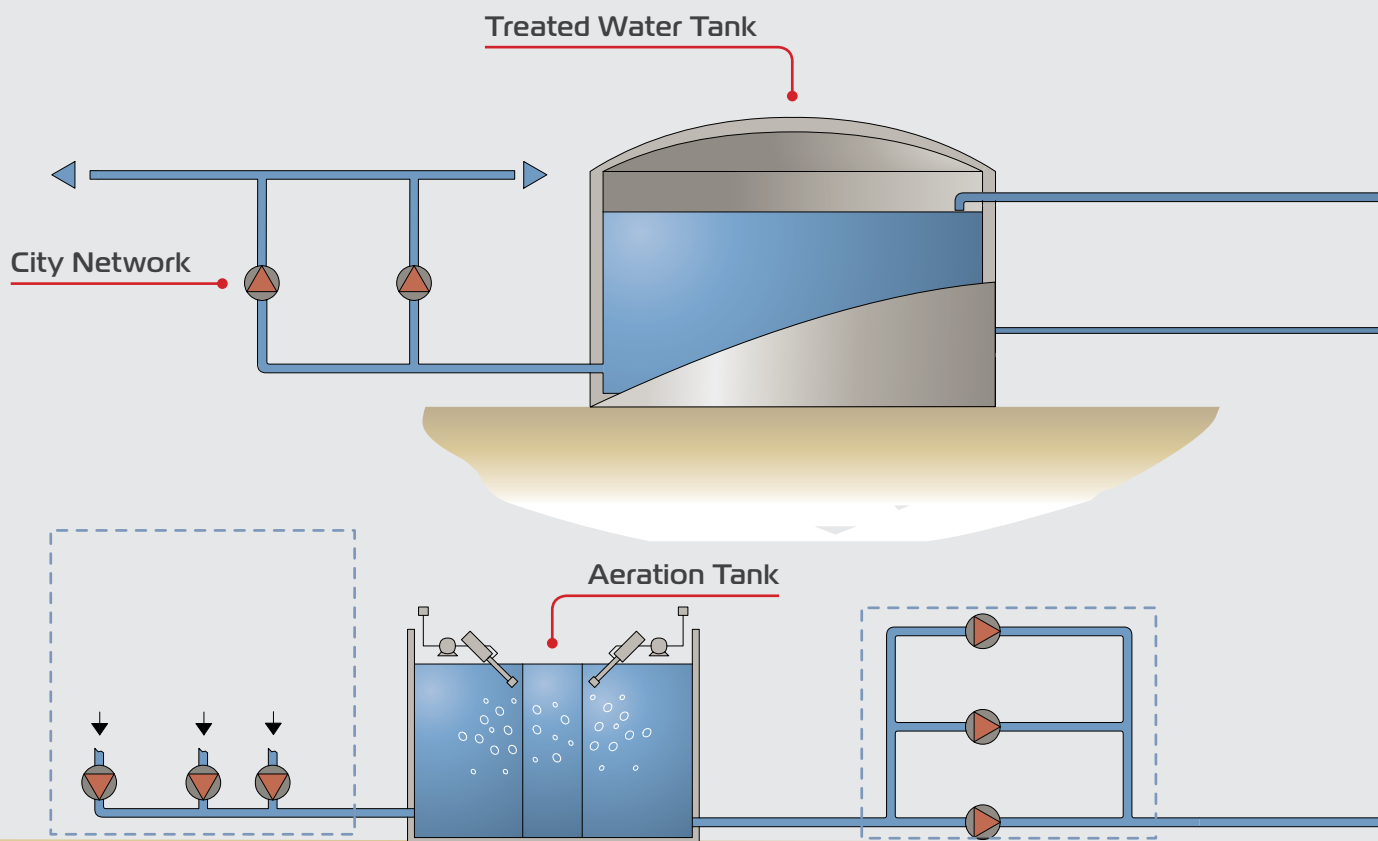
Green  
Technology

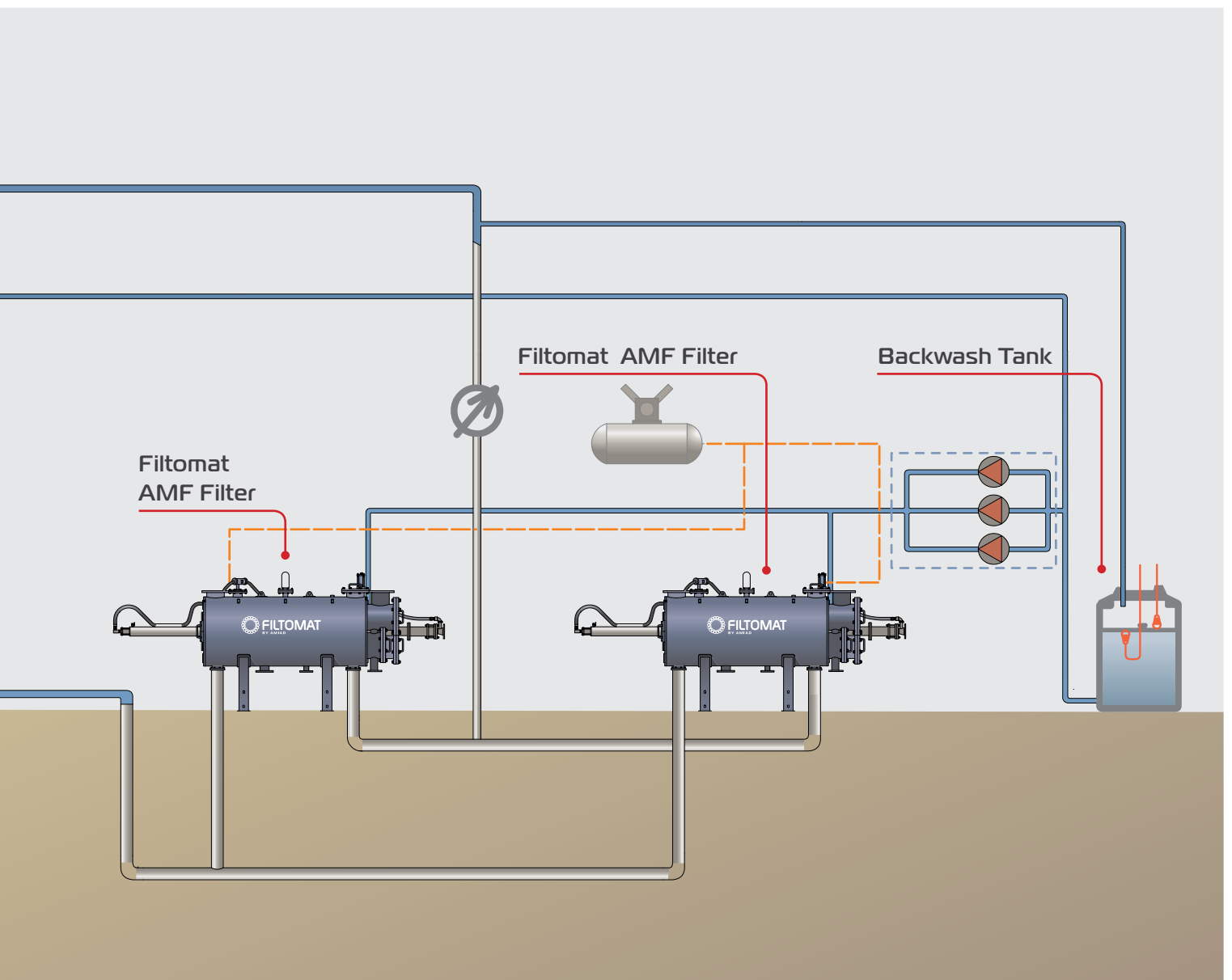


Low  
Maintenance



Saving Energy





# Ballast Water

## 4" Galaxy – 55 micron

**Project name:** Cruise ship, USA

**Application:** Ballast Water Treatment

**Flow rate:** 250 m<sup>3</sup>/h

**Filtration degree:** 55 micron

**Water Source:** Sea water

**Filtration Solution:** 6x4" Galaxy battery

## OUR BENEFITS



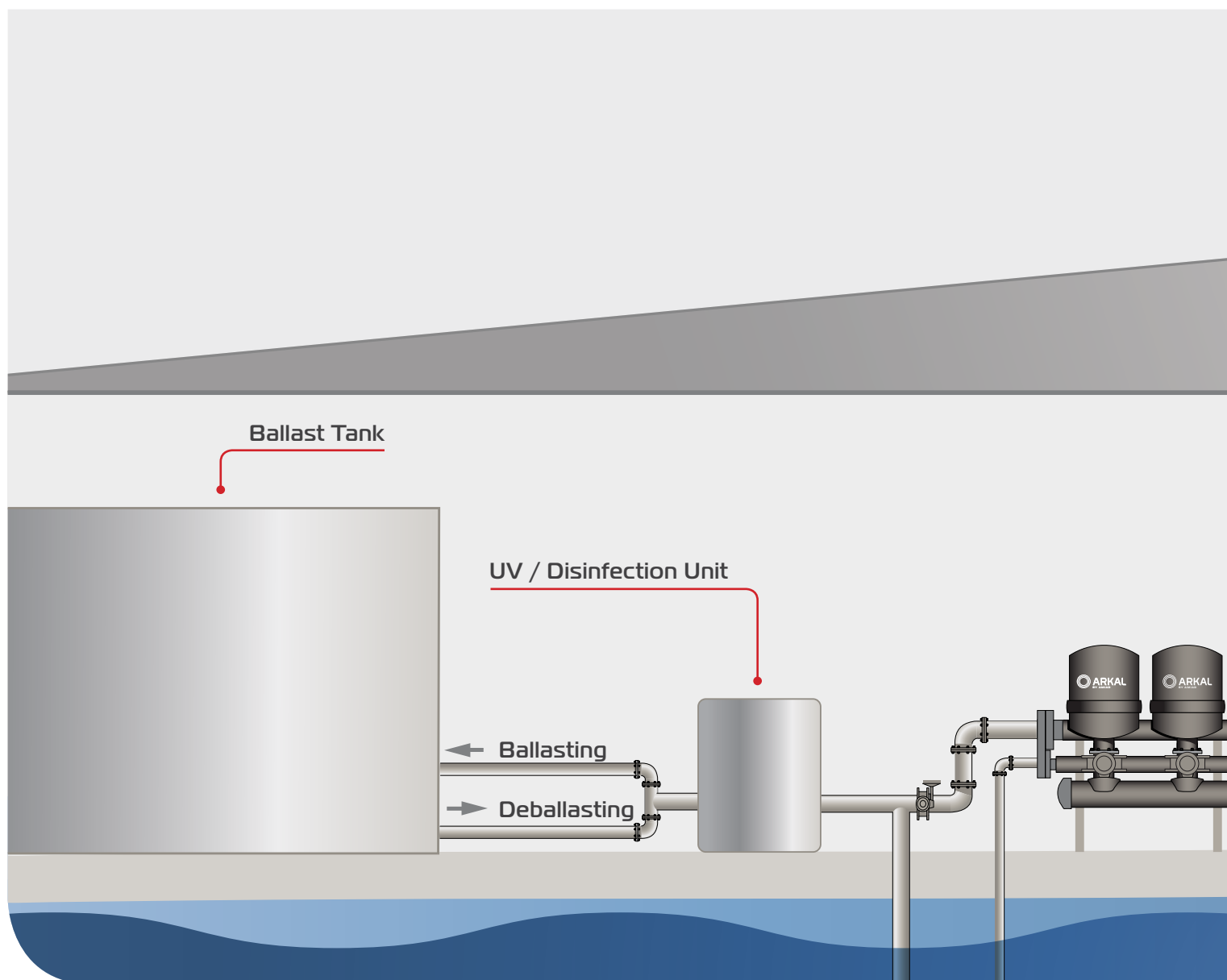
ROI

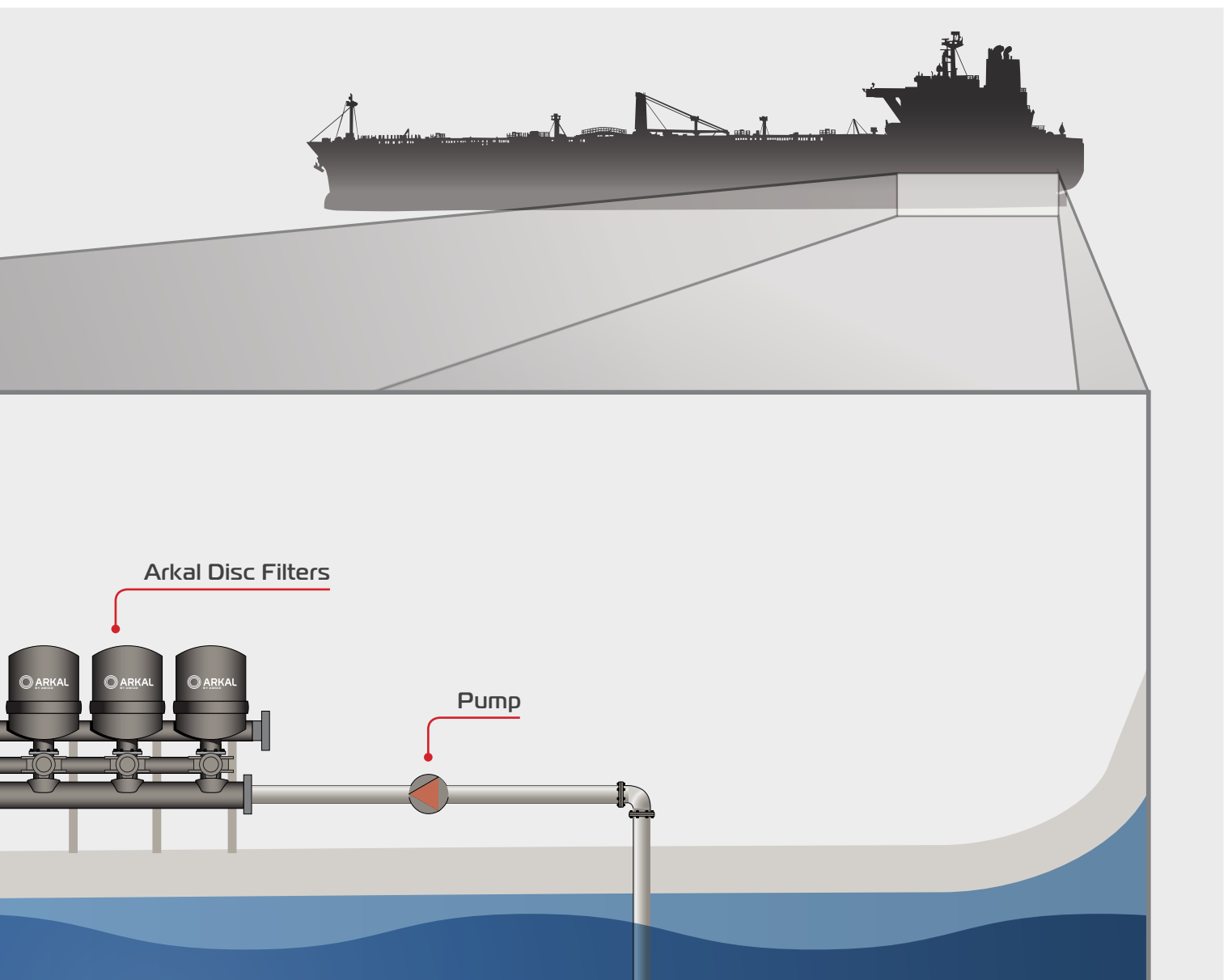


Low  
Maintenance



Commitment







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