

Industrial & Municipal Catalogue



ARKAL



FILTOMAT



AMIAD

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 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.

company profile

Values of Leadership

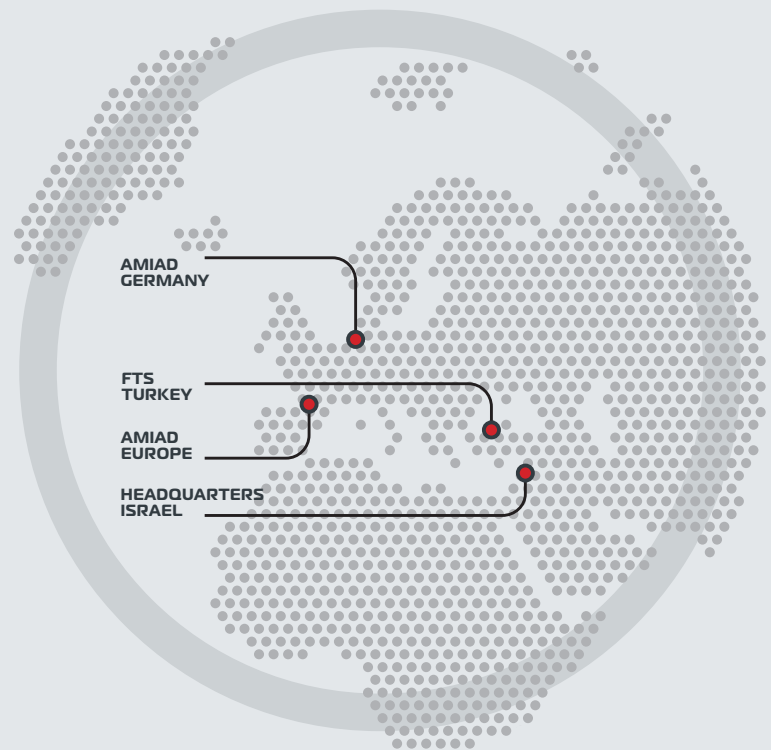
For half a century, Amiad Water Systems has devoted its passion and Innovation to develop a comprehensive line of exceptionally efficient automatic self-cleaning water filters. The 50 year effort of total commitment and focus solely on water filtration has yielded a product range of screen, disc and 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

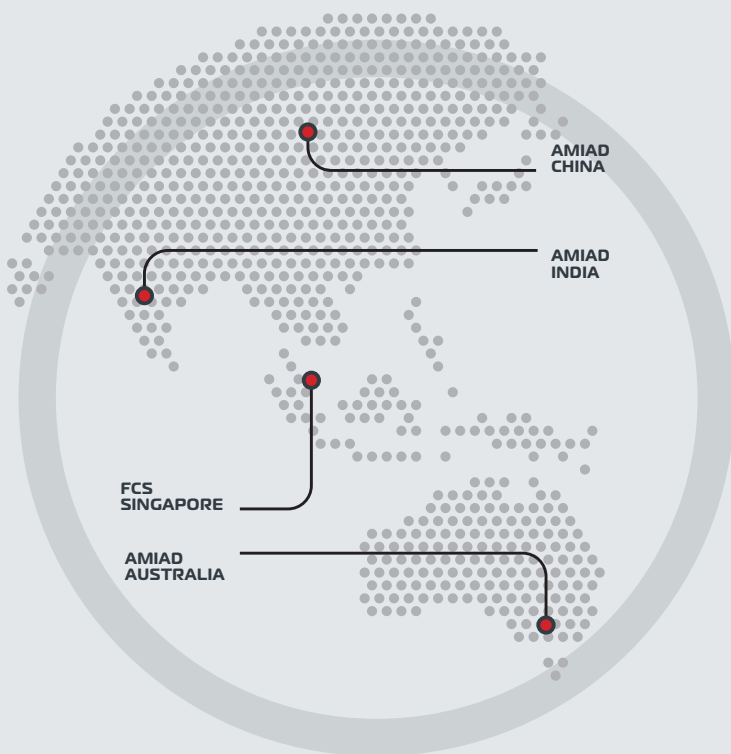
Amiad, Arkal and Filtomat products meet the challenges presented by different water sources, outlet requirements and extreme working conditions - our solutions process millions of cubic meters of water every day, delivering clean water all year round and all over the world. Water Filtration Systems by 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 operates from its headquarters and R&D center in Israel and six manufacturing centers. With nine subsidiaries in Australia, Singapore, China, India, Turkey, Europe, Chile, Brazil and the US - we provide filtration solutions to more than 70 countries. We sell through dedicated distribution network, as well as directly to end-users and to water treatment system integrators. Amiad is renowned worldwide for high-quality standards, consistently prompt delivery, availability of parts and ongoing customer support.

Amiad has offices in Australia, Singapore, China, India, Turkey, Europe, 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 water 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, undertaken 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:

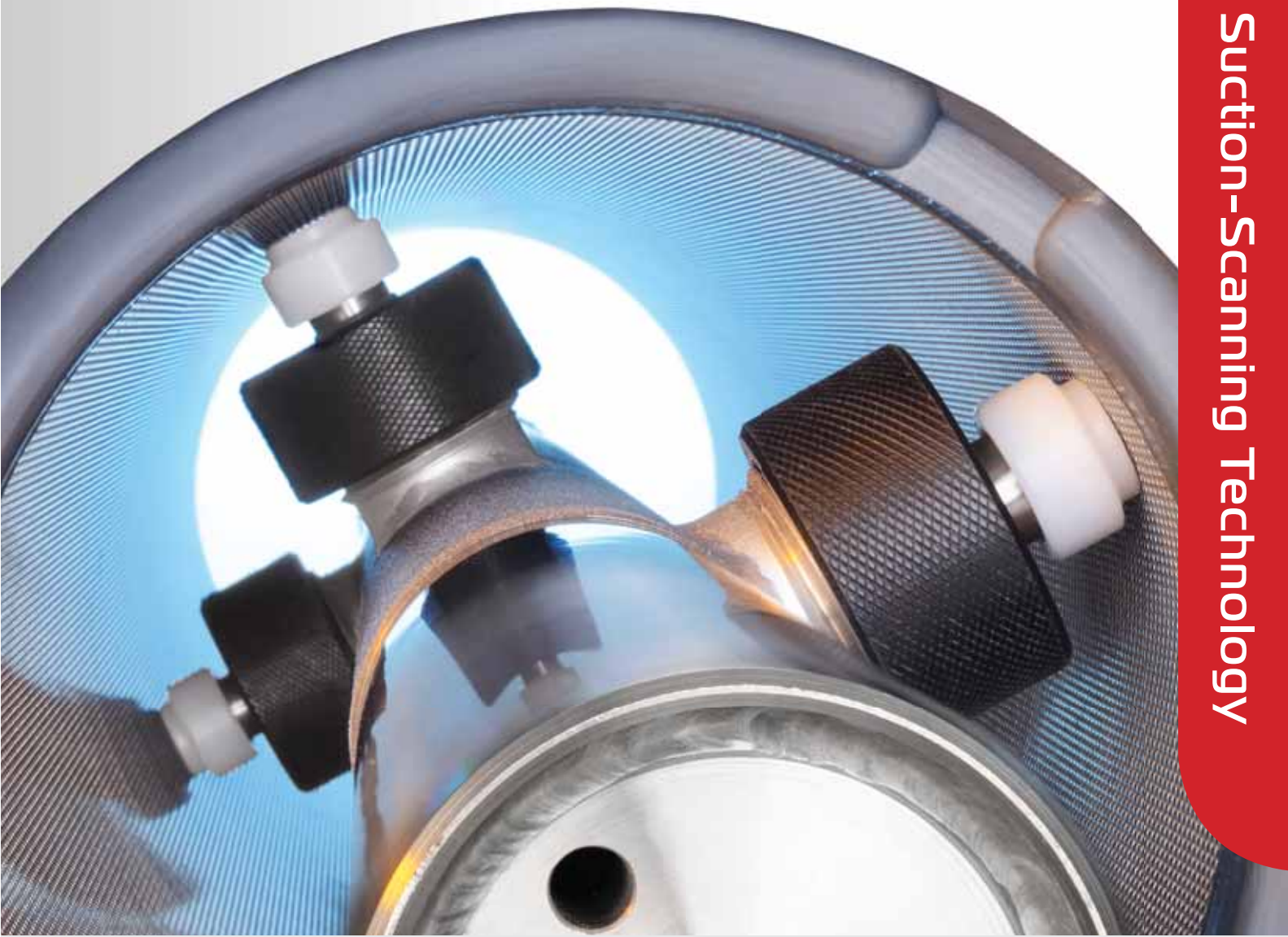
- No chemicals
- No polymers
- A bare minimum of back flush water
- Reduced energy demand – many of Amiad's systems don't even require electricity

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 requirements.

Innovation: The Future is Automated

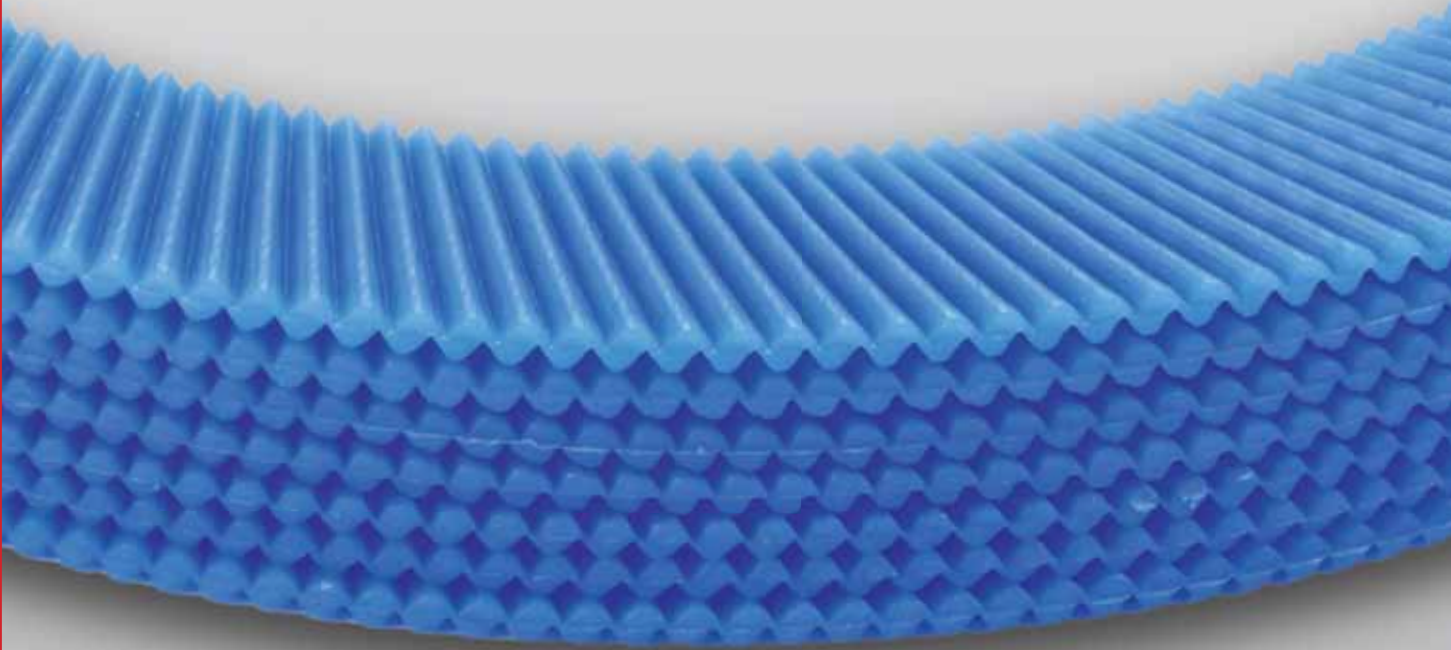
Over the last 50 years, Amiad Water Systems Limited has developed a range of compact automatic, self-cleaning filters incorporating innovative technology. The benefits are clear—low maintenance filters with low energy consumption substantially reduce costs. Designed for a small footprint, these filters 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.





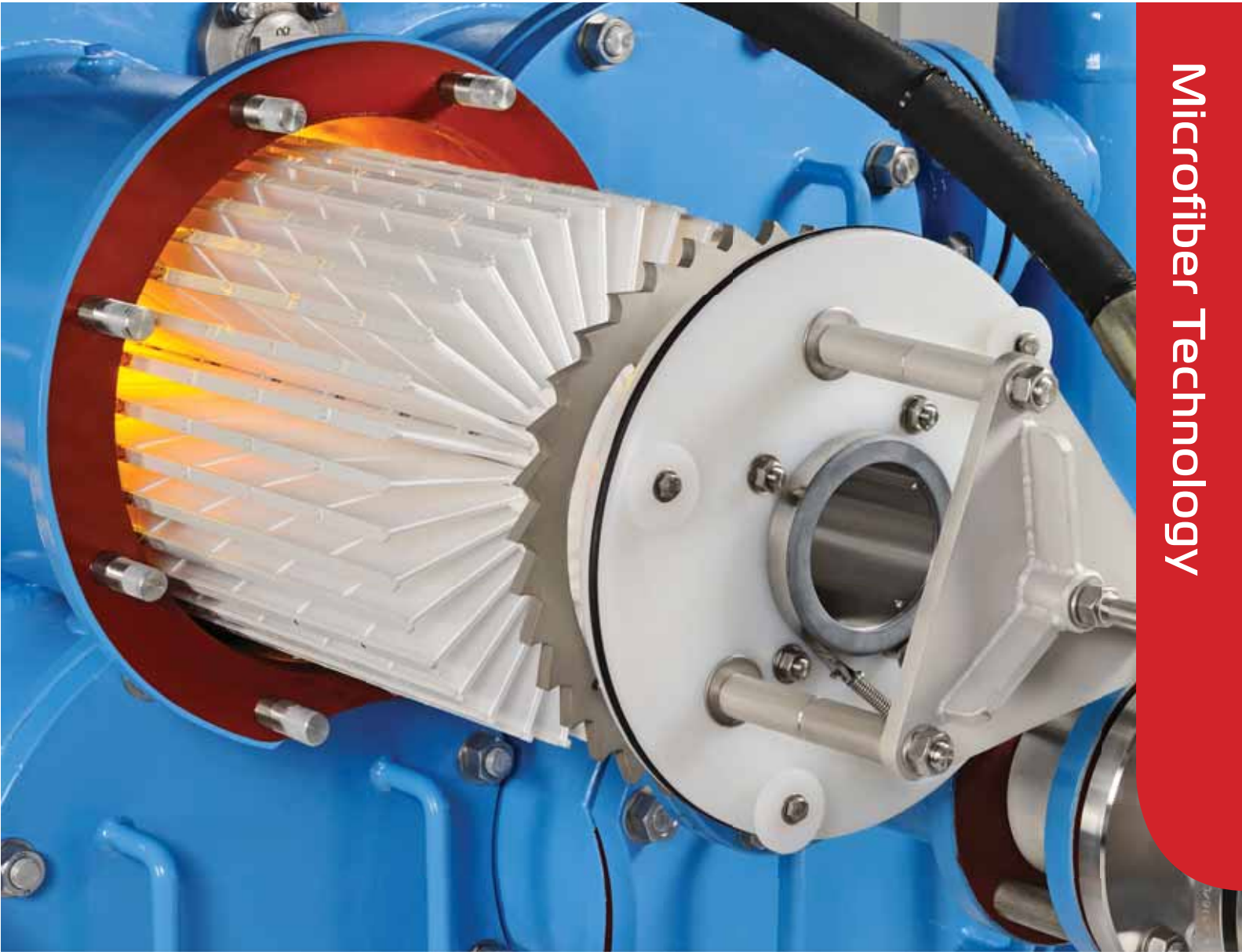
Arkal's unique SpinKlin® disc filtration and patented backwash technology, operates using thin, color-coded discs of a specific micron size.

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.

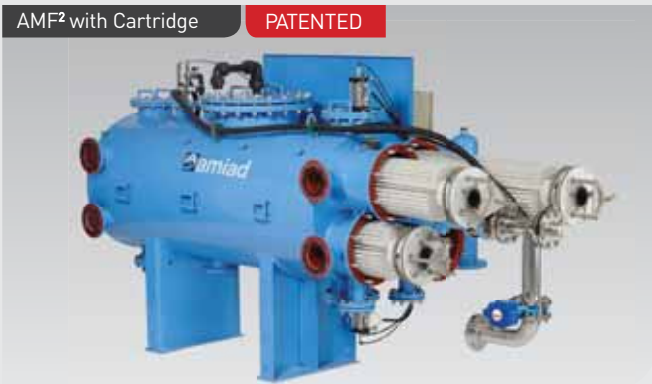




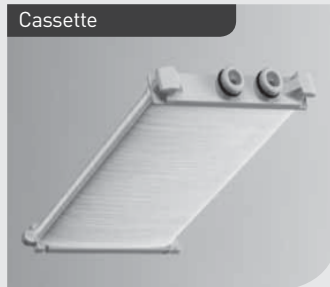
Amiad uses Filtomat microfiber thread technology to create highly-effective self-cleaning water filter systems. The automatic self-cleaning filters use a unique filtration medium constructed of fine threads wound in layers around a grooved plastic spool cassette, removing dirt particles as water flows 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.

AMF² with Cartridge

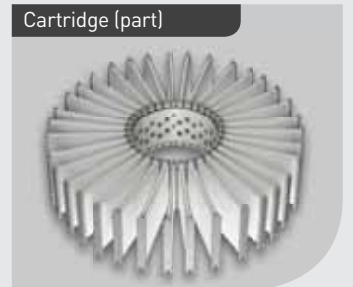
PATENTED



Cassette



Cartridge (part)



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

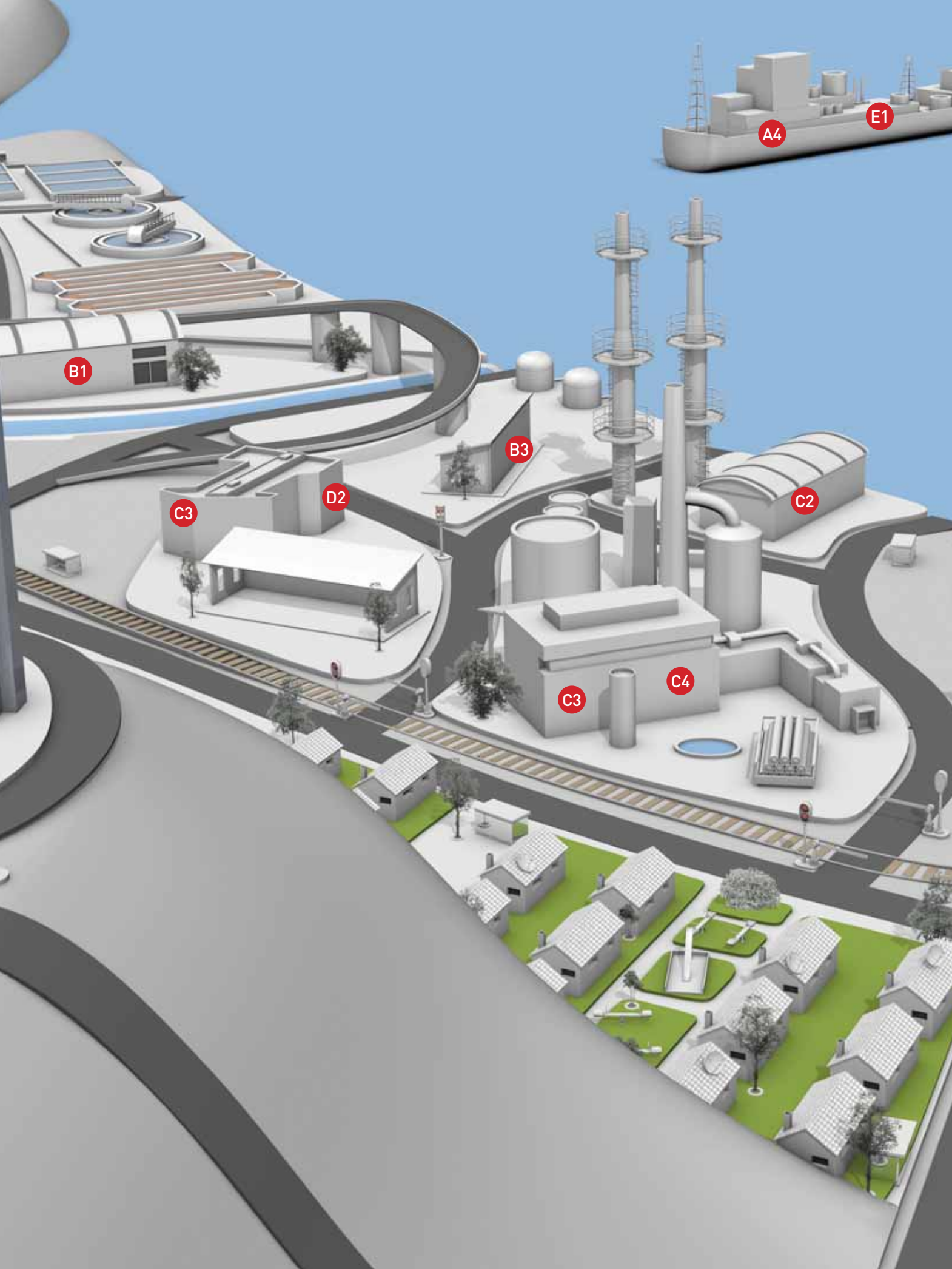
- D1** removal of desolved chemical elements
 - D2** pre-filtration to membranes
 - D3** potable water
 - D4** desalination
-

E

MARINE

- E1** Ballast water







Oil & Gas Injection Water

EBS 10000 - 25 micron | 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



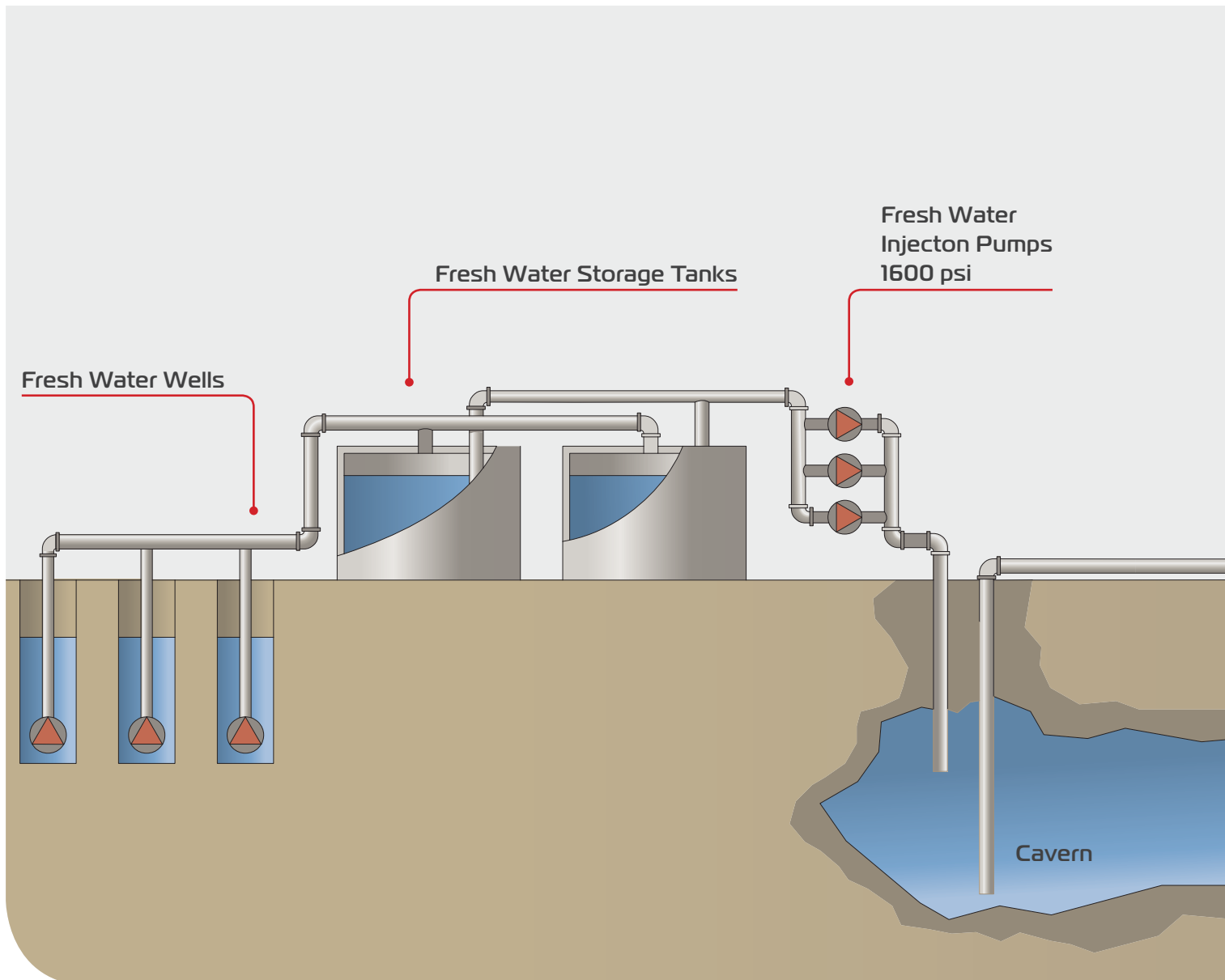
Green
Technology

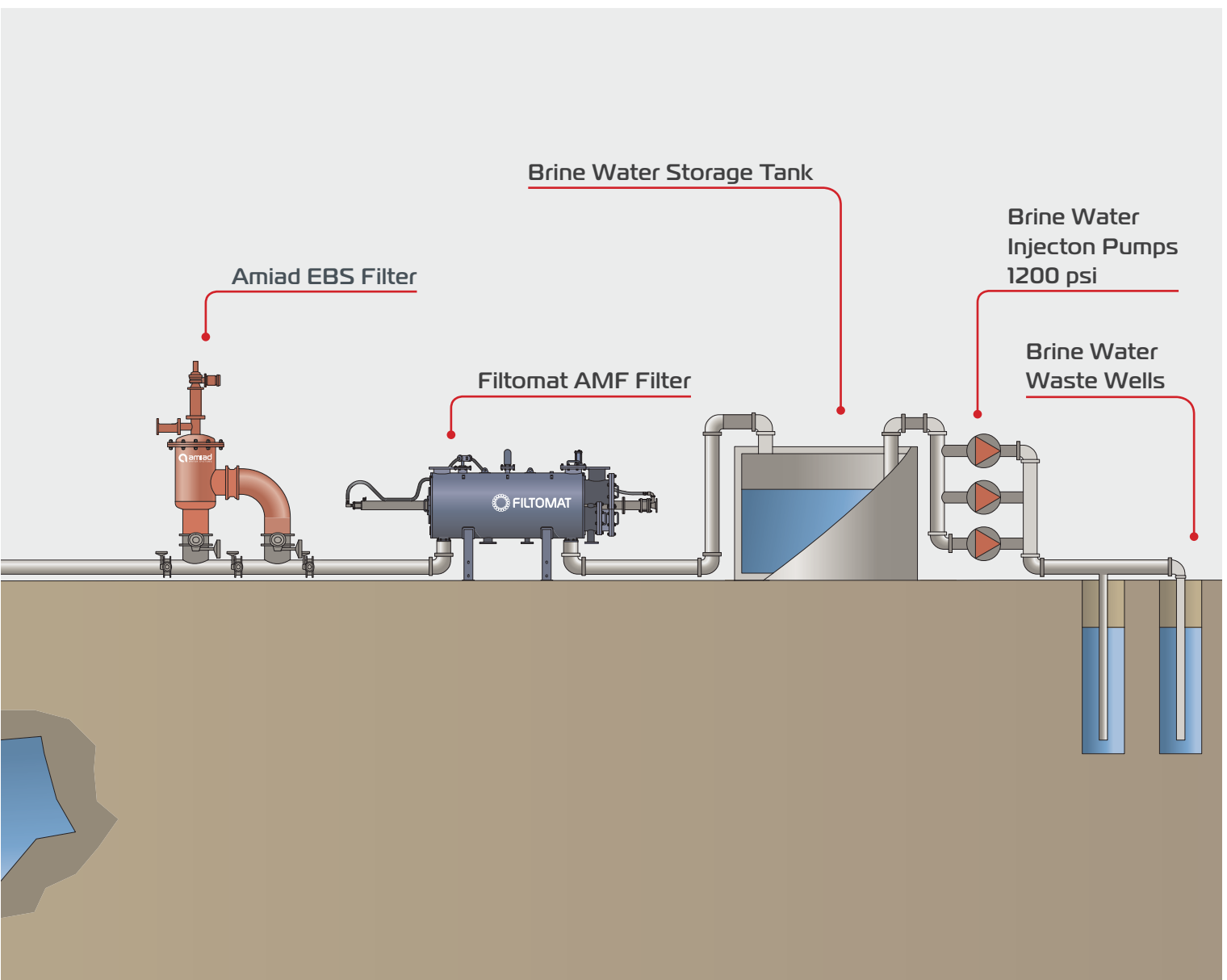


Low
Maintenance



Saving Energy





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: 200 μ , Stage 2: 25 μ , Stage 3: 5 μ

Water source: Seawater

Filtration solution:

Stage 1: 200 μ - 2x EBS,

Stage 2: 25 μ - 2x EBS,

Stage 3: 5 μ - cartridge system

OUR BENEFITS



Small
Footprint



Water
Conservation



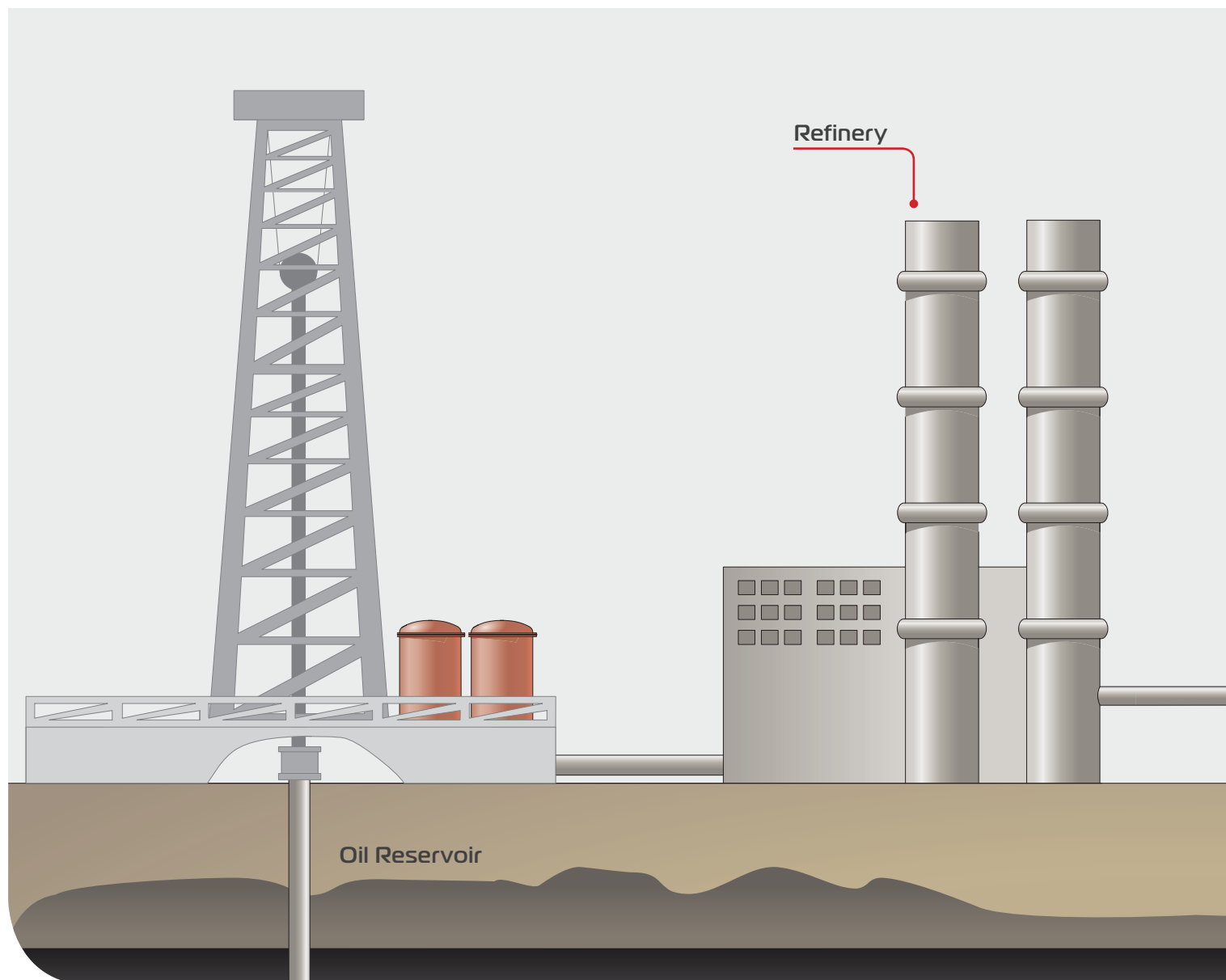
Green
Technology

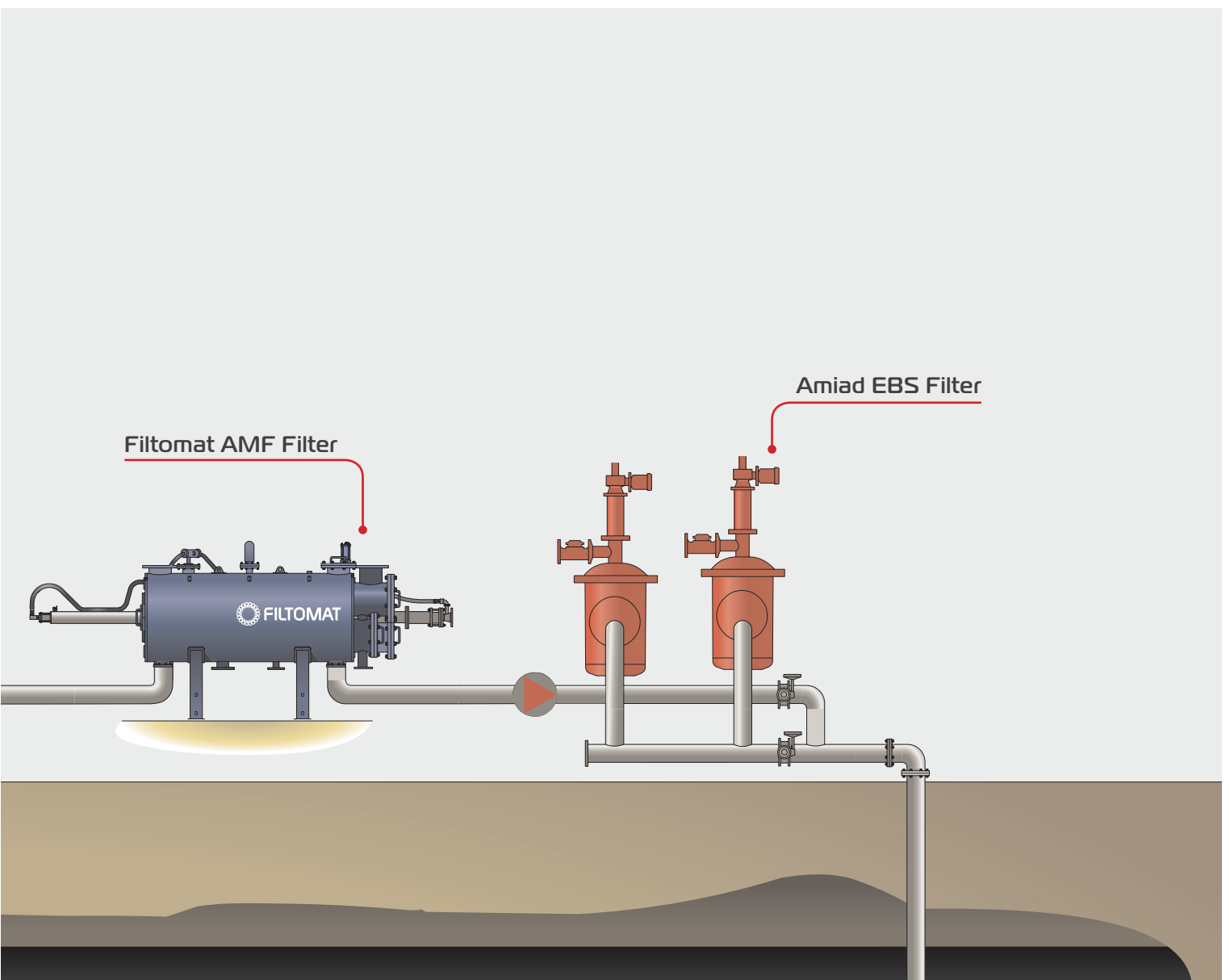


Low
Maintenance



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: 2xAMF² 93K

OUR BENEFITS



Small Footprint



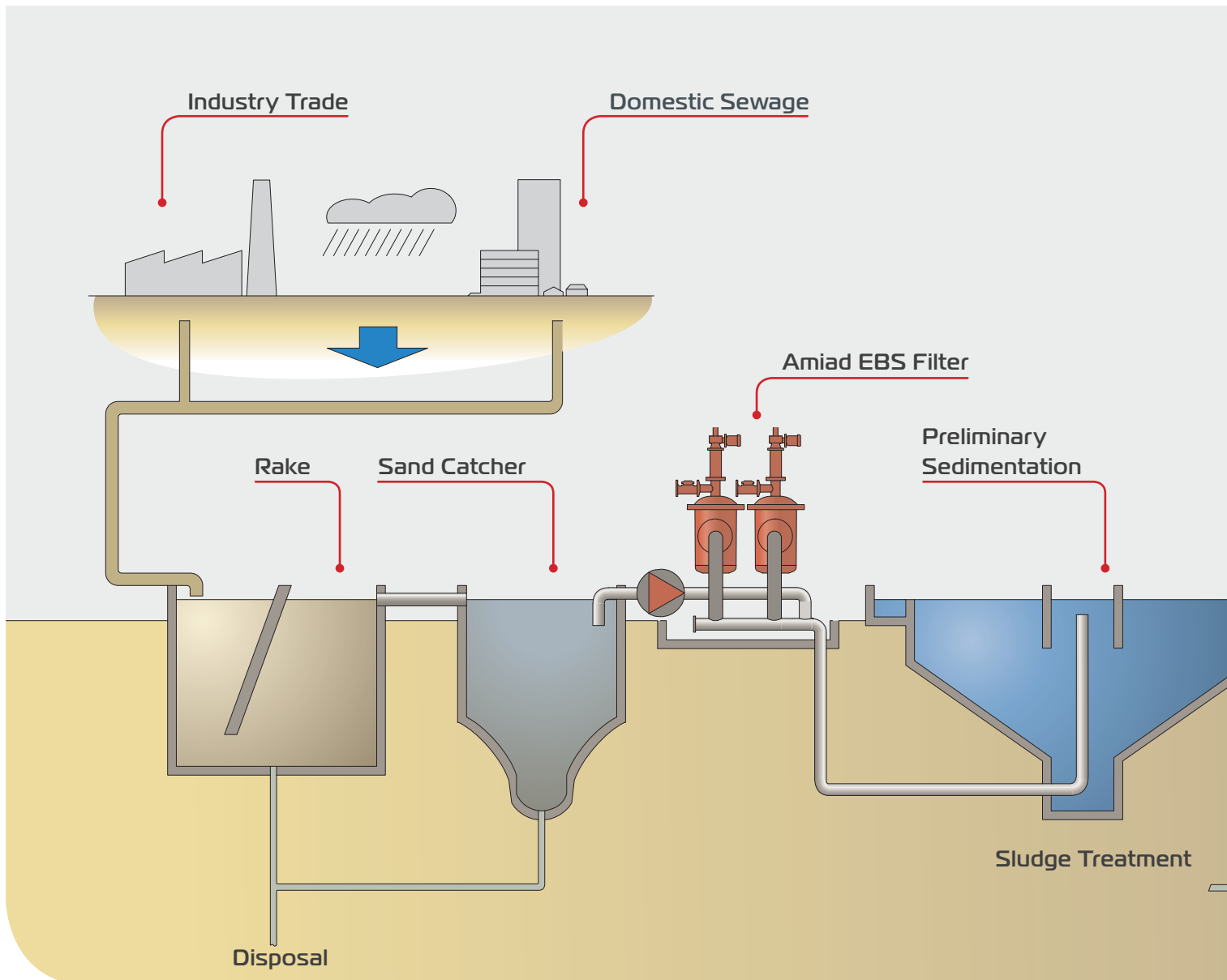
Water Conservation

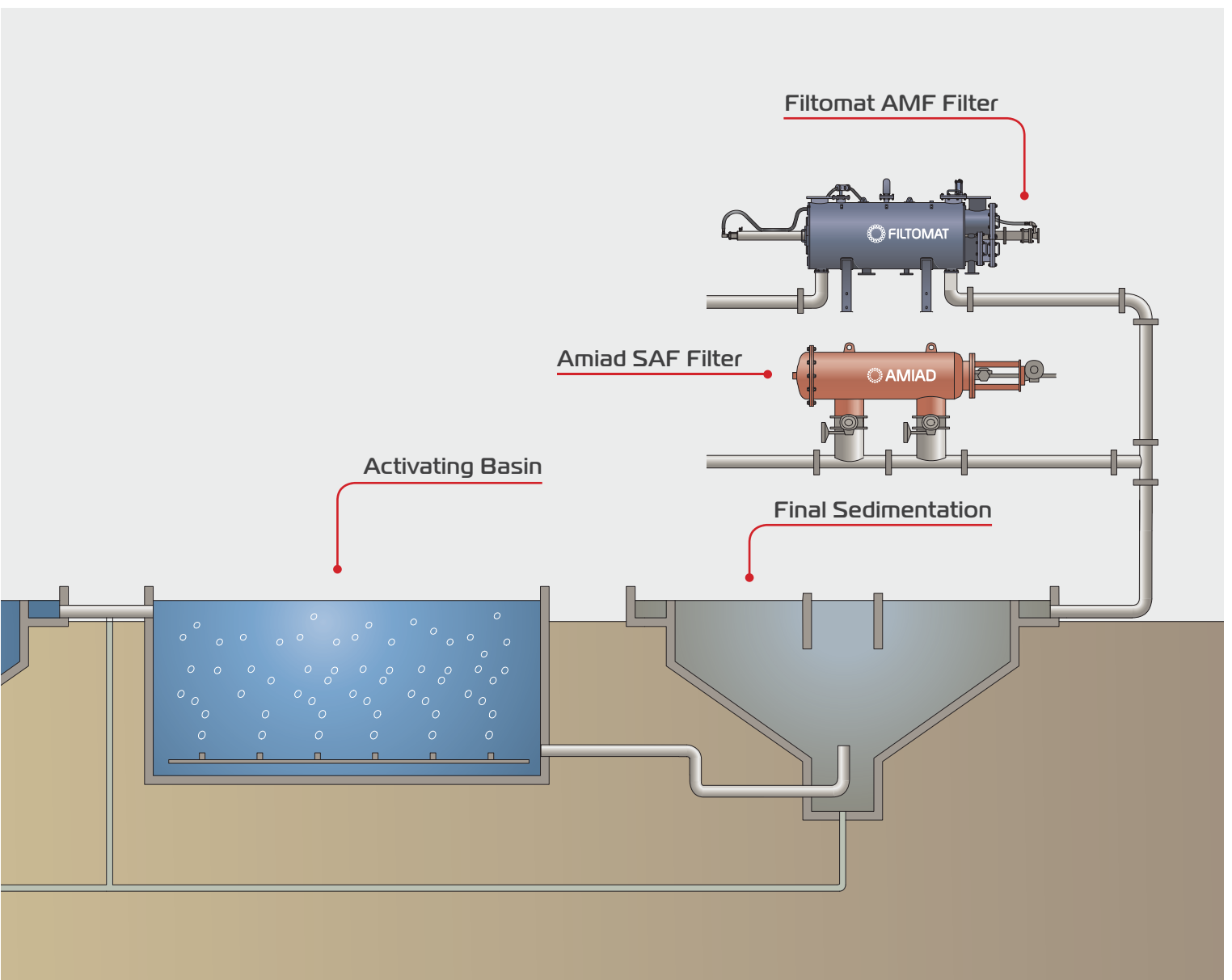


Green Technology



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

Flowrate: 2,060 m³/hr; 9,070 USgpm

Filtration degree: 500 micron

Water source: Secondary treated sewage effluent

Filtration solution: 4x 14" ABF-10000 Filters, stainless steel 316

OUR BENEFITS



Small
Footprint



Water
Conservation



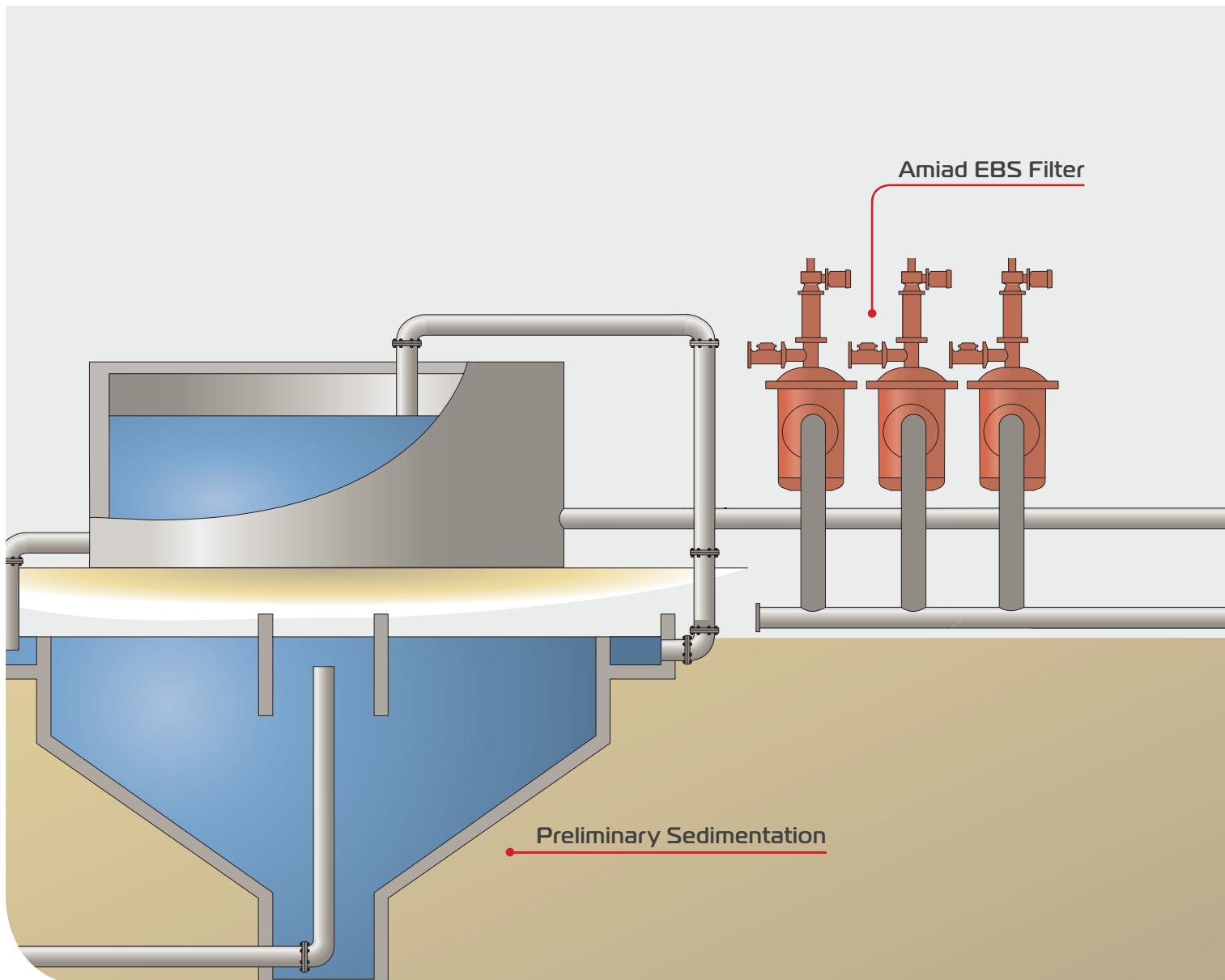
Green
Technology

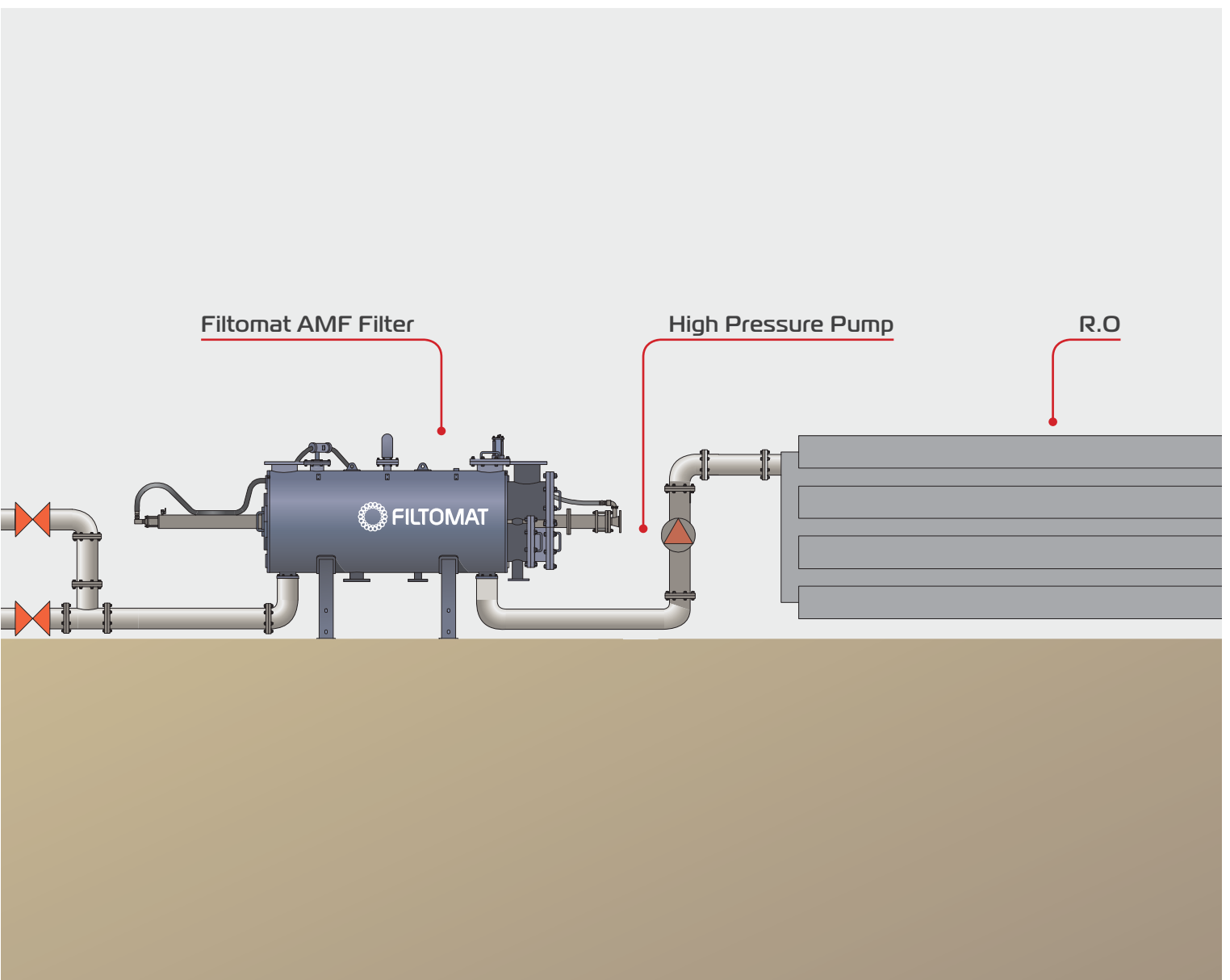


Low
Maintenance



Saving Energy





Cooling Tower

4" Galaxy – 70 micron

Project name: Fine Chemicals Producer, Korea

Application: Side stream cooling tower

Flowrate: 200 m³/h

Filtration degree: 70 micron

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

Filtration Solution: 5x4" Galaxy

OUR BENEFITS



Water
Conservation



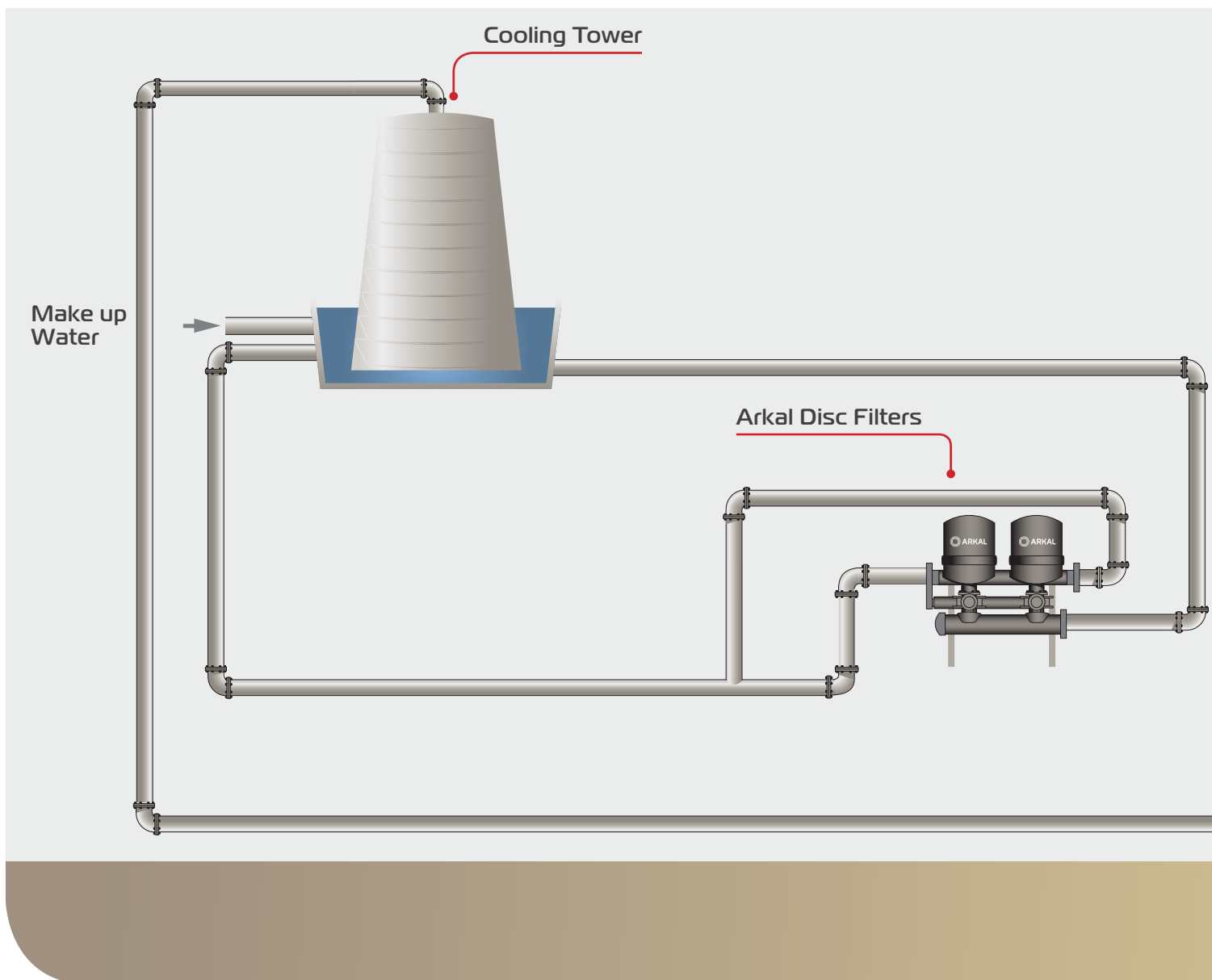
ROI



Low
Maintenance



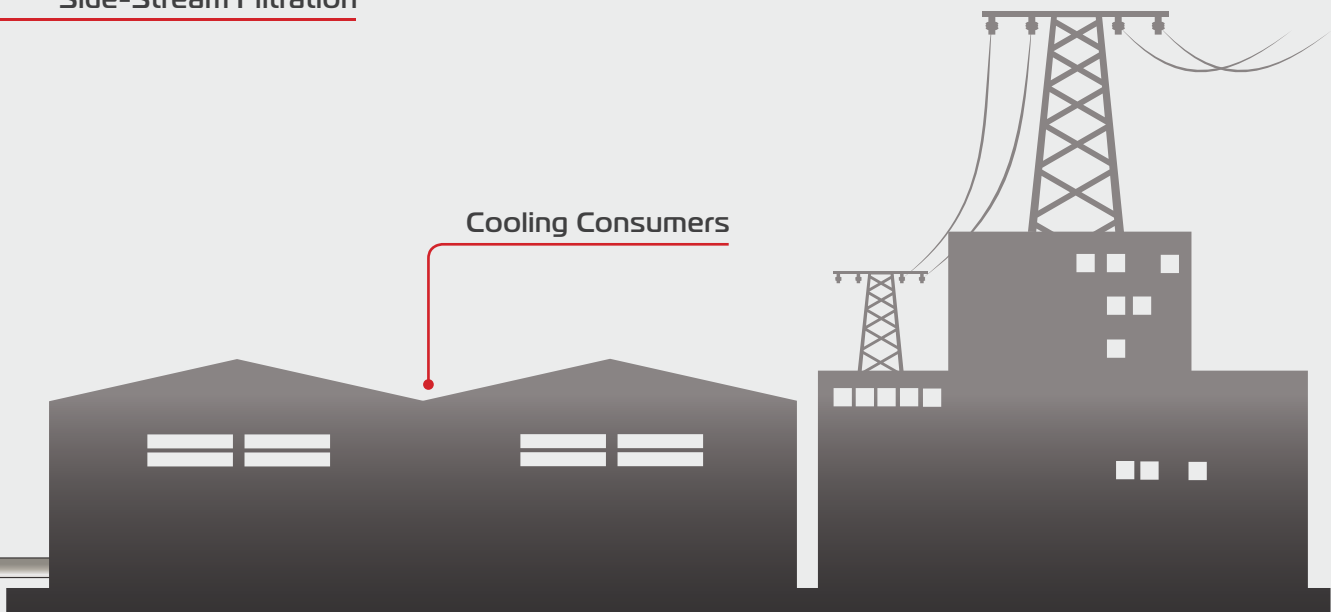
Saving Energy





Side-Stream Filtration

Cooling Consumers



Cooling Tower

ABF 10000 - 200 micron

Project name: Guangdong Shao Steel Plant, China

Application: Cooling Water

Flowrate: 8,000 m³/h; 35,200 USgpm

Filtration degree: 200 micron

Water source: Dam water

Filtration solution: 8x16" ABF

OUR BENEFITS



Small
Footprint



Water
Conservation



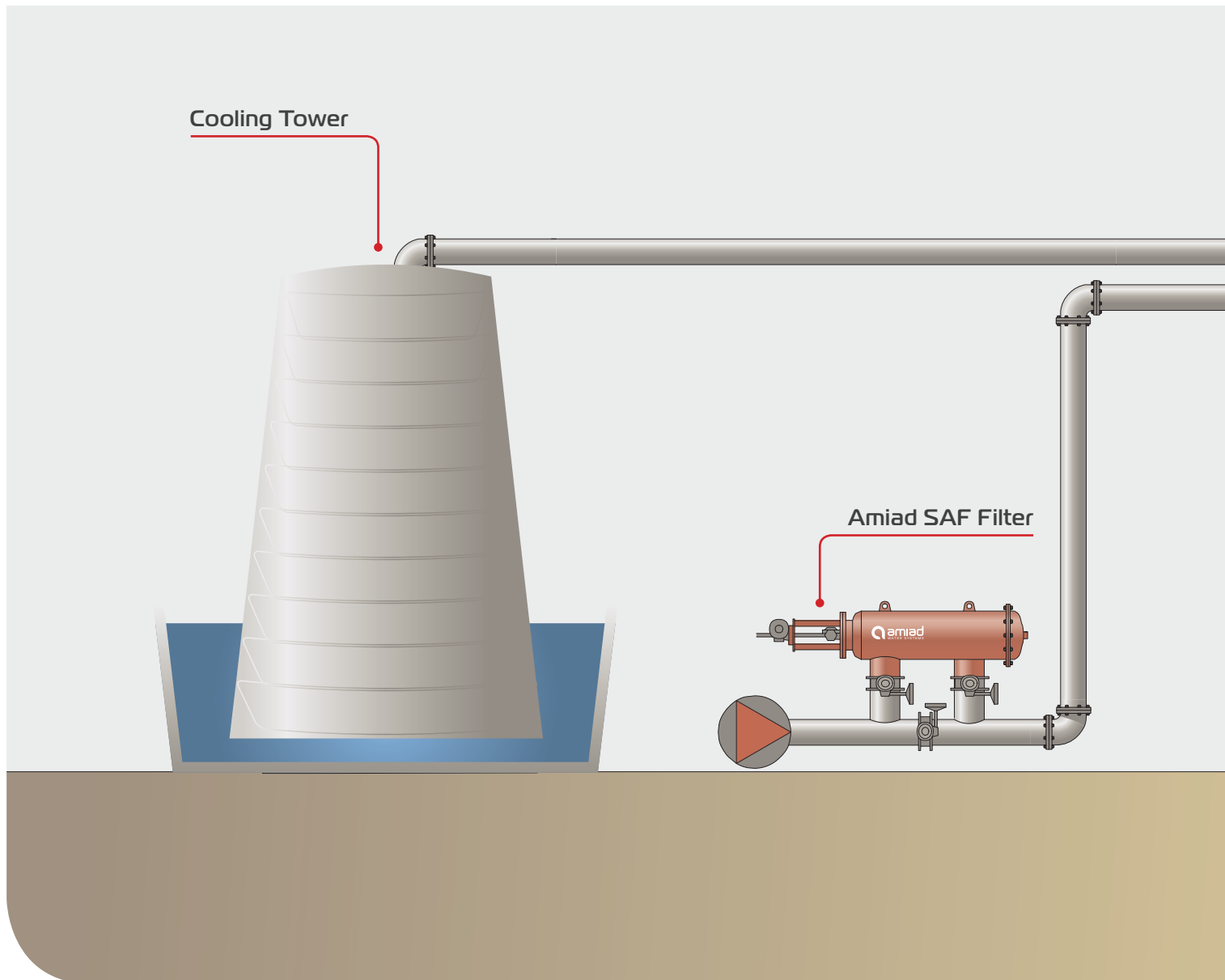
Green
Technology

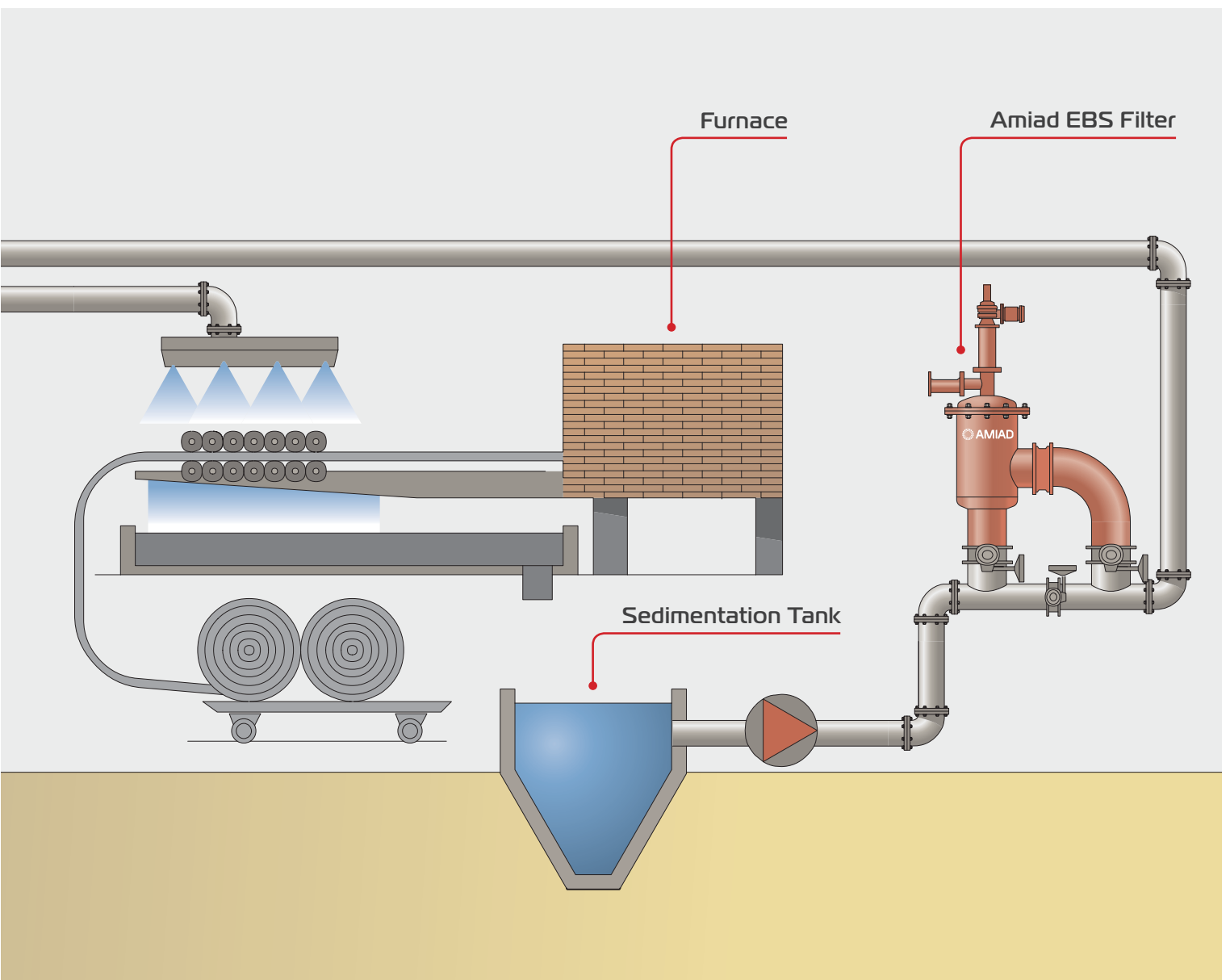


Low
Maintenance



Saving Energy





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 6x12 6" Galaxy

OUR BENEFITS



Water
Conservation



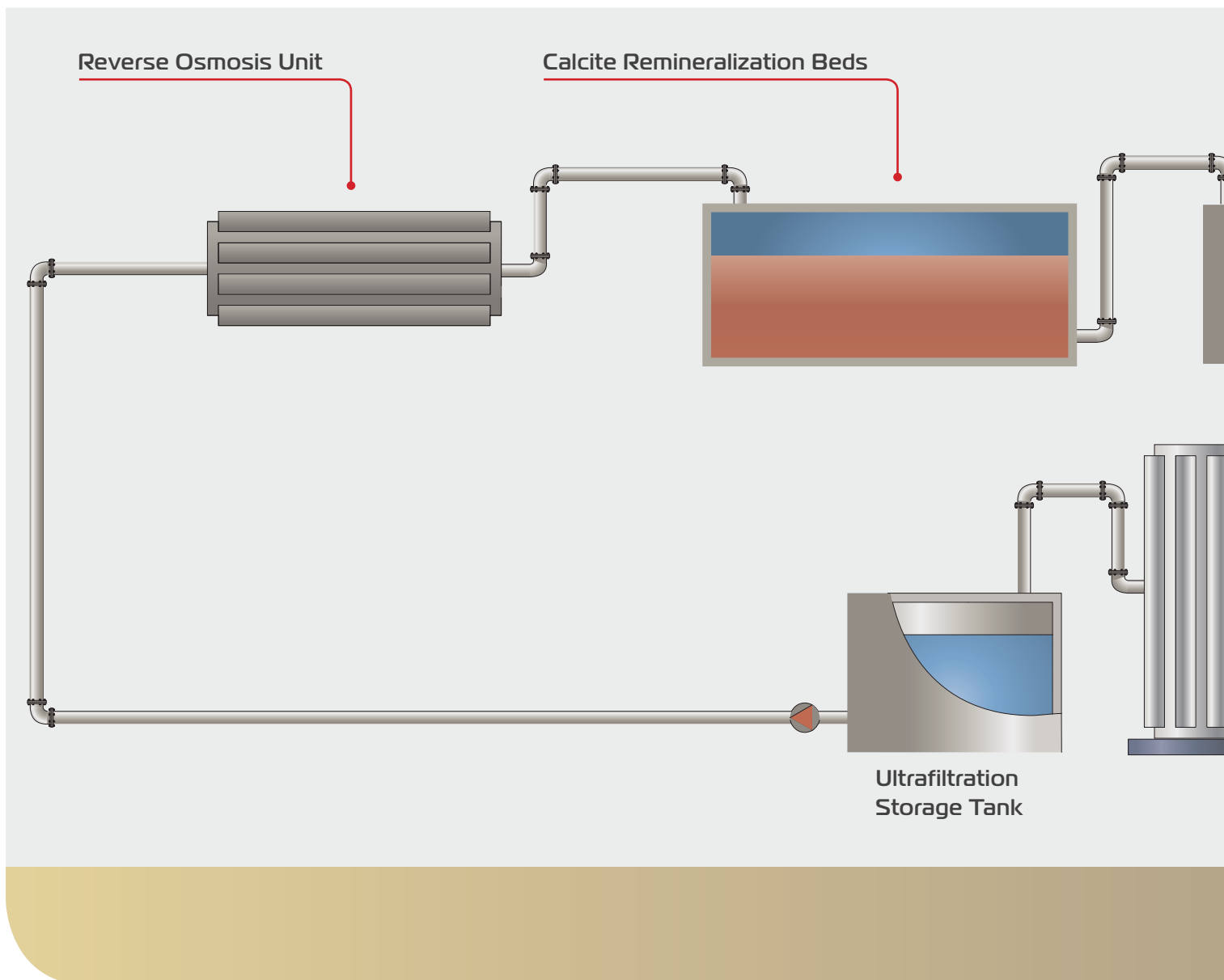
ROI

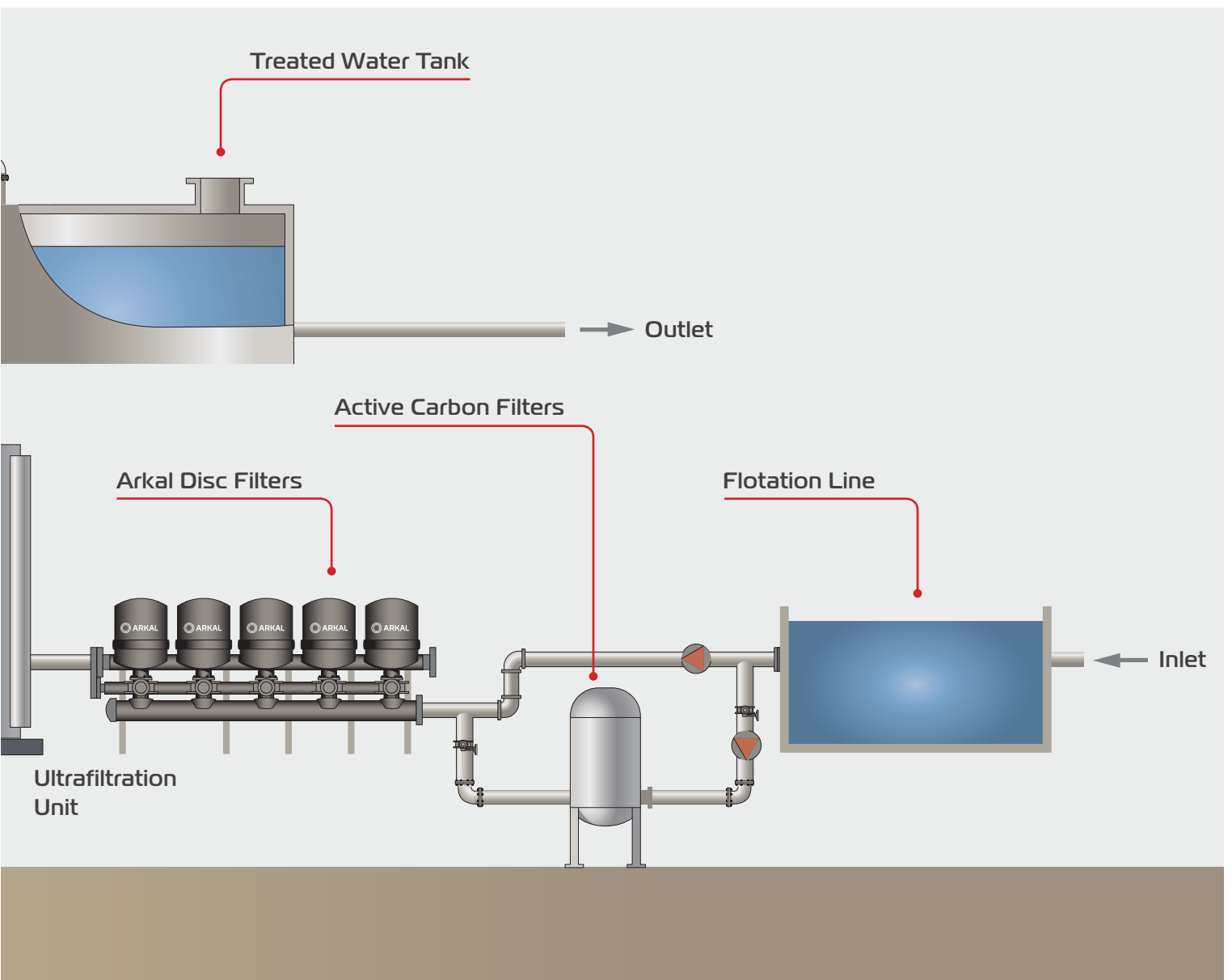


Low
Maintenance



Saving Energy





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: 2x AMF² 370K

OUR BENEFITS



Small
Footprint



Water
Conservation



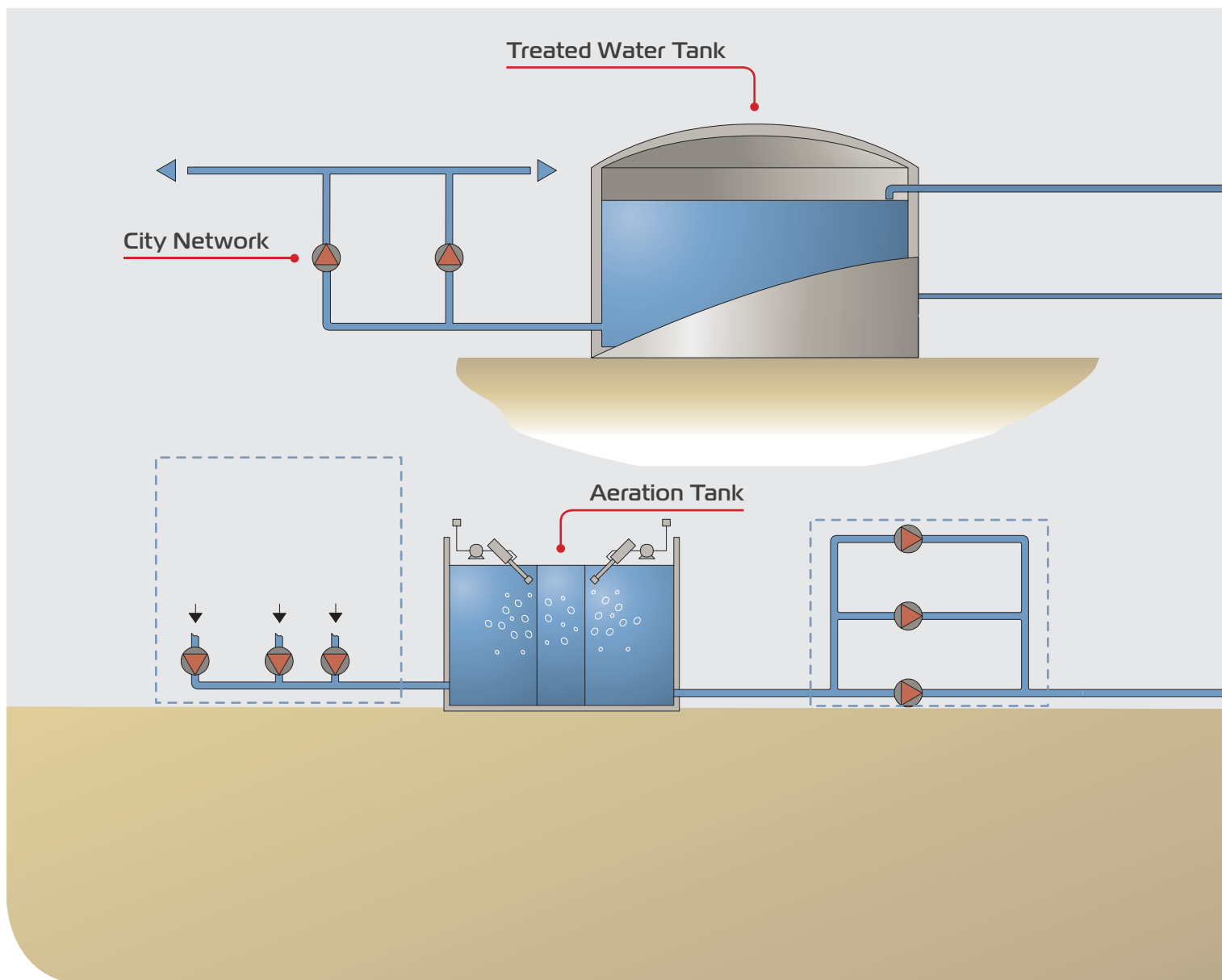
Green
Technology

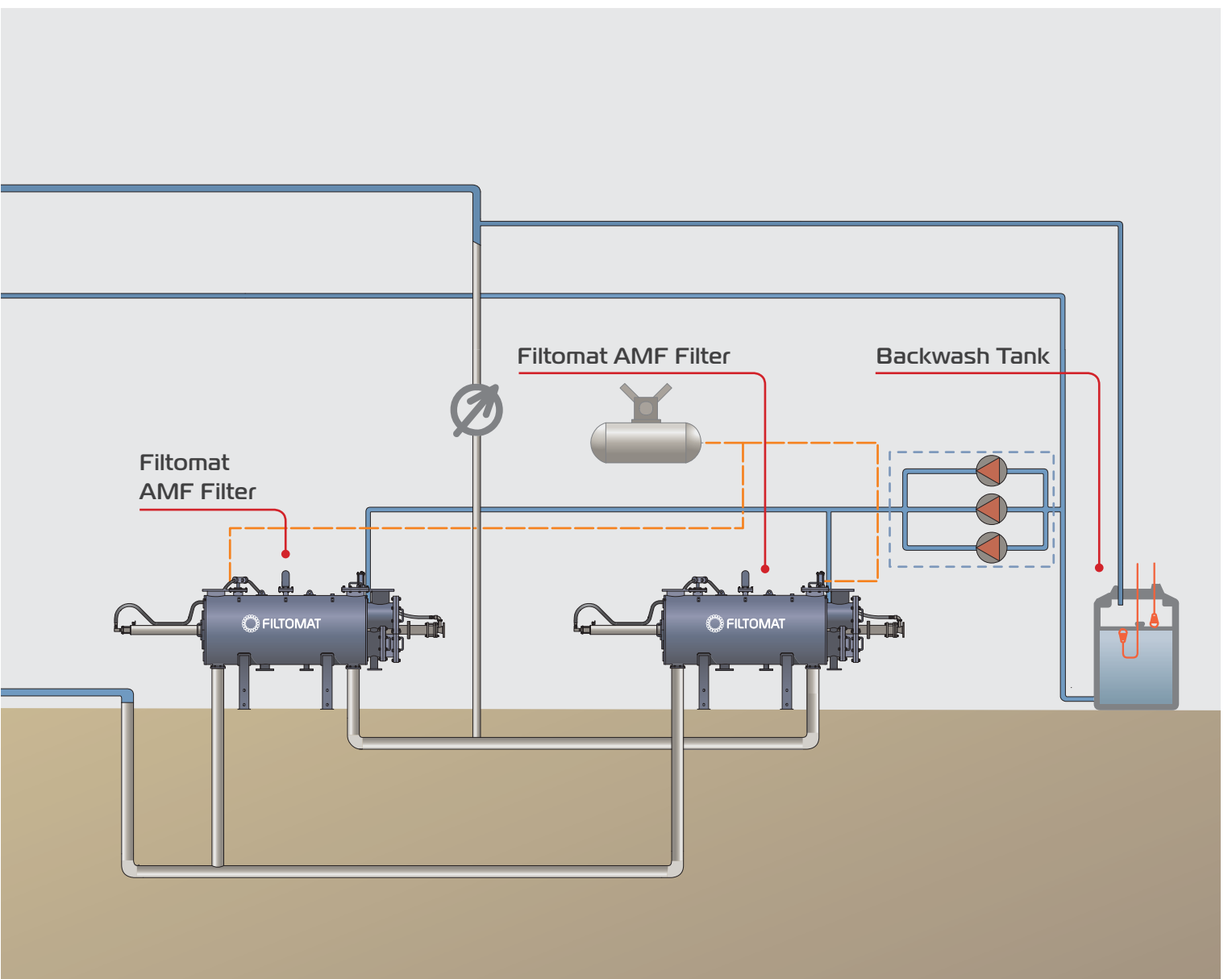


Low
Maintenance



Saving Energy





Ballast Water

4" Galaxy – 55 micron

Project name: Cruise ship, USA

Application: Ballast Water Treatment

Flowrate: 250 m³/h

Filtration degree: 55 micron

Water Source: Sea water

Filtration Solution: 6x4" Galaxy battery

OUR BENEFITS



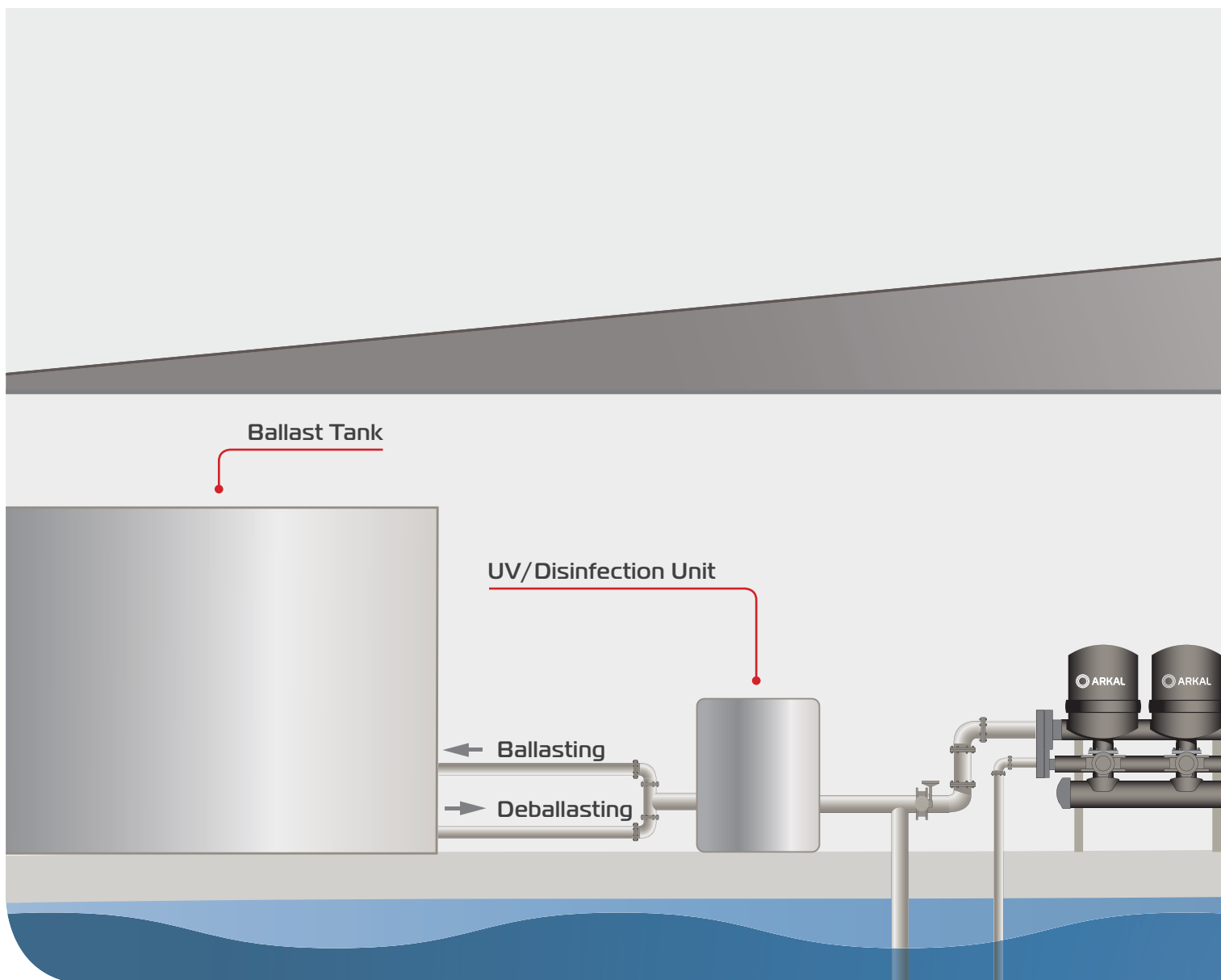
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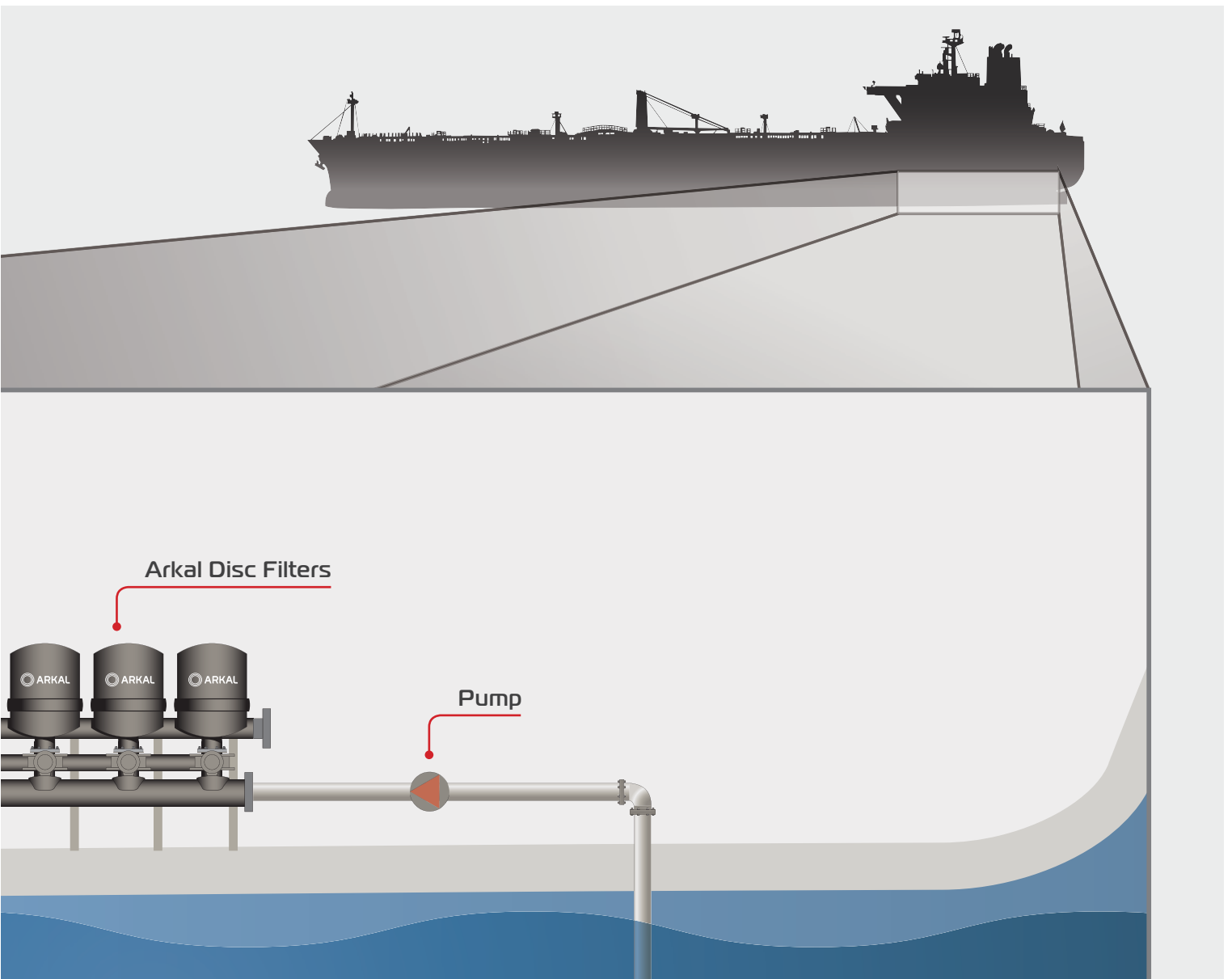


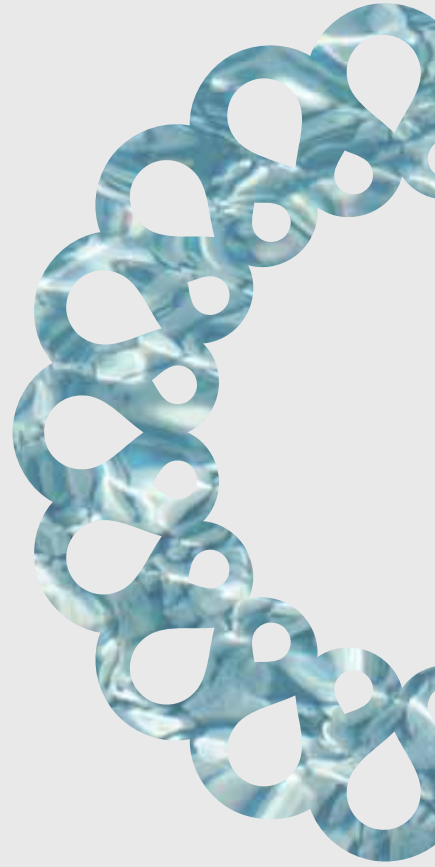
Low
Maintenance

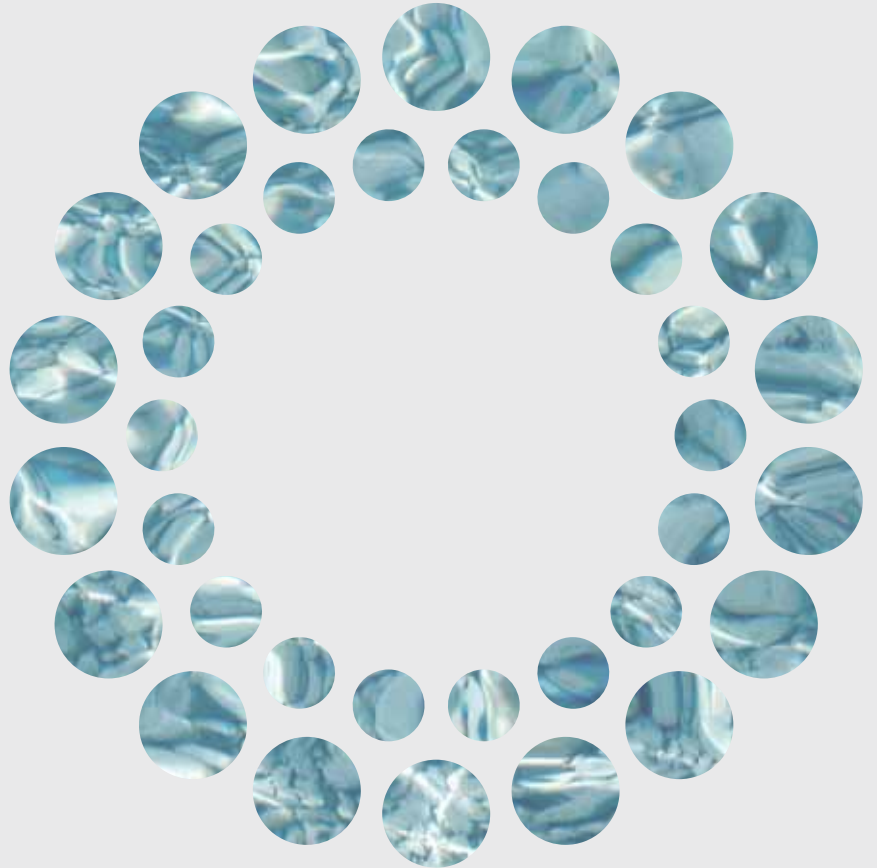
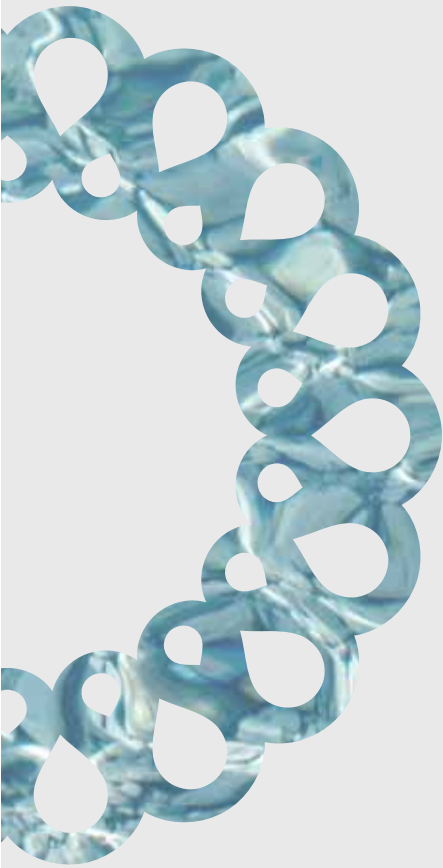


Commitment









Headquarters

Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel,
Tel: 972 4 690 9500, Fax: 972 4 814 1159,
E-mail: info@amiad.com

America



Amiad USA Inc. Main Office and Manufacturing: 120-J Talbert Road, Mooresville, NC 28117,
Tel: 1 704 662 3133, Fax: 1 704 662 3155, Toll Free: 1 800 24 FILTER,
E-mail: info@amiadusa.com www.amiadusa.com

West Coast Sales Office and Warehouse:
2220 Celsius Avenue, Oxnard, California 93030
Tel: 805 988 3323, Fax: 805 988 3313, Toll Free: 1 800 969 4055

Chile

Amiad Andina, Carretera General San Martín 16.500 No 30,
Loteo Industrial Los Libertadores, Colina, Santiago de Chile,
Tel: 56 2 24895100, Fax: 56 2 24895101, E-mail: amiadandina@amiad.com

Brazil

Amiad Sistemas de Água Ltda., Av. Funchal, 411, Conj. 42, Vila Olímpia, São Paulo, CEP 04551-060
Tel: +55 11 31923824, E-mail: infobrasil@amiad.com

Amiad Oil & Gas, E-mail: amisur@adinet.com.uy

Mexico

Amiad Mexico SA DE CV,
Priv. Retorno 8, Lote 3, Mza. 1, Interlomas Estado de Mexico
Tel/Fax: +52 55 636 28122, E-mail: info@amiadmexico.com

Asia



India

Amiad Filtration India Pvt Limited, 305 Sai Commercial Building,
Govandi St Rd, Govandi Mumbai 400 088,
Tel: 91 22-67997813/14, Fax: 91 22-67997814, Email: info@amiadindia.com

China

Amiad China [Yixing Taixing Environtec Co., Ltd.] 70 Baihe Chang, Xingjie Yixing Jiangsu, 214204,
Tel: 86 510 87134000, Fax: 86 510 87134999, E-mail: marketing@taixing.cc

South-East Asia

Filtration & Control Systems Pte. Ltd., 19B Teo Hong Road, 088330 Singapore,
Tel: 65 6 337 6698, Fax: 65 6 337 8180, E-mail: amiad@amiad.com.sg

Australia



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

Europe



Amiad Water Systems Europe SAS, Ilot No4 ZI La Boitardière, 37530 Chargé, France,
Tel: 33 (0) 2 47 23 01 10, Fax: 33 (0) 2 47 23 80 67, E-mail: info@amiad-europe.com

Germany

Amiad Water Systems SAS Europe [German branch office]
Zweigniederlassung Deutschland Prinz-Regent-Str. 68 a 44795 Bochum,
Tel: 49 (0) 234 588082-0, Fax: 49 (0) 234 588082-10, E-mail: info@amiad.de

Turkey

FTS – Filtration & Treatment Systems, Istanbul yolu 26 Km, Yurt Orta Sanayii, Saray, Ankara,
Tel: 90 312 8155266/7, Fax: 90 312 8155248, E-mail: info@fts-filtration.com

