

Irrigation Catalogue



company profile

The value in innovation

For half a century, Amiad Water Systems has devoted itself to innovation in water filtration. Combining this dedication with the passion, expertise and vast experience of our professional teams, we have developed a comprehensive line of exceptionally efficient automatic self-cleaning water filters that rely on our advanced screen and disc technologies. With filtration expertise second to none, Amiad's know-how continues to drive innovative solutions that solve the challenges in irrigation.

Clear solutions to water filtration challenges

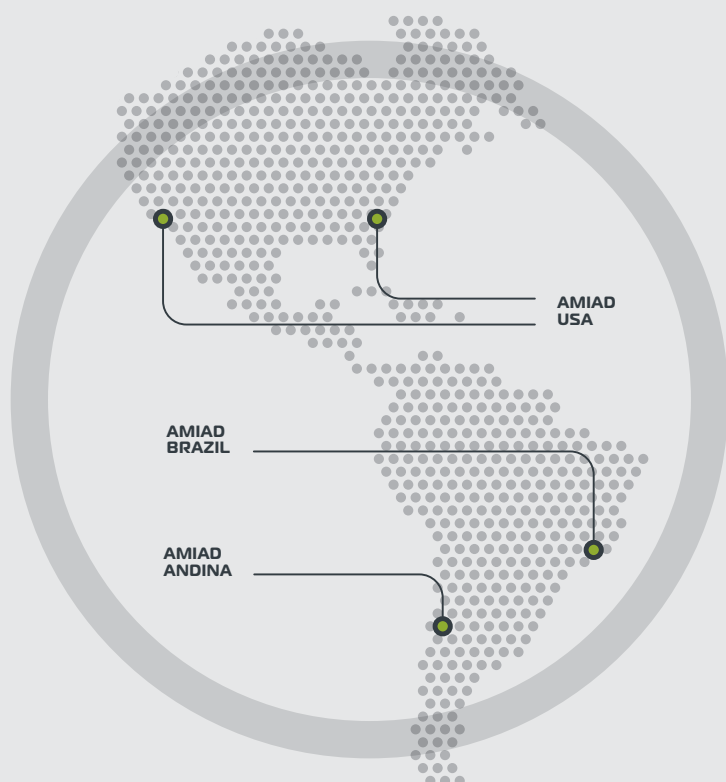
Water filtration systems by Amiad can be found at the heart of nearly every conceivable water irrigation application — agriculture, horticulture, landscape, golf, turf and many others.

Our Amiad, Arkal and Filtomat products operate efficiently year after year to process millions of cubic meters of water and deliver clean water all year round — all over the world — regardless of water source, outlet requirement and varied environment.

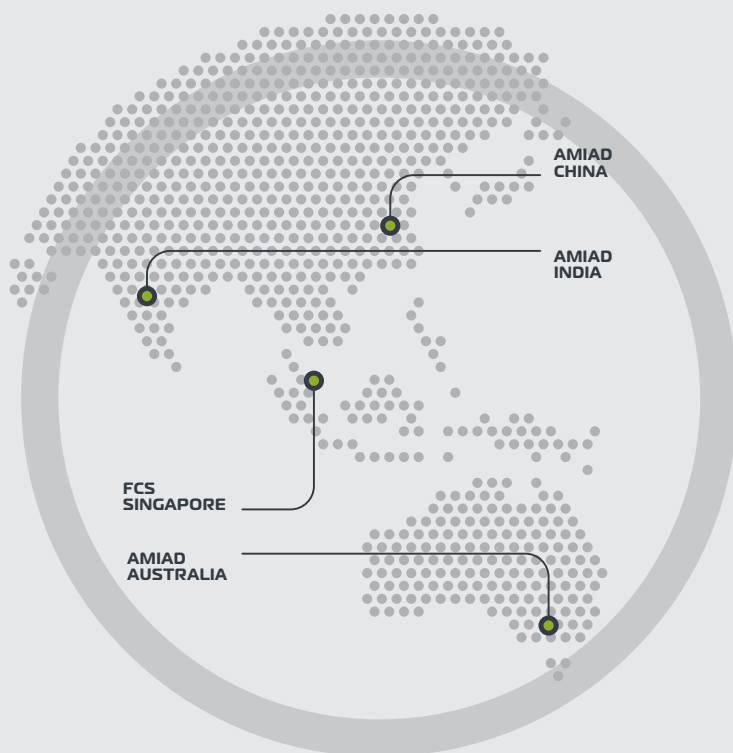
Reaching growing markets

From offices around the world, we stand ready to serve our customers and handle their changing needs. We continue to expand our global operations to reach out and meet the demands of customers in new and evolving markets.

We take pride in our reputation protecting water systems around the globe with innovative technologies, broad product lines, strong customer relationships and total customer service.



point to point all over the world



A 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 irrigation companies, a dedicated distribution network and third-party distributors around the world.

Amiad is renowned worldwide for its high-quality standards, consistently prompt delivery, availability of parts and ongoing customer support.

world leader in water filtration technology

Our extensive line of water filters and water filtration systems includes manual, semi-automatic and fully automatic self-cleaning screen and disc filters. We also manufacture various filter elements to suit filtration needs from 3500 to 2 microns.



Innovating into the future

Over the last 50 years, Amiad Water Systems has developed a range of automatic self-cleaning filters incorporating innovative technology with industry-leading benefits: low-maintenance filters with low-energy consumption for operating at substantially reduced costs.

As we move forward into our next 50 years, we maintain our commitment to developing innovative water filtration technology and systems designed to contend with the world's growing awareness of water and energy usage.

Customized water filtration solutions for every need

From our systems in the North Sea to Antarctica, Amiad customizes its water filtration solutions to meet specific needs. Our experienced teams utilize their extensive knowledge base to tailor innovative filtration solutions and provide specific solutions to solve any irrigation problem.

Our unrivalled range of water filtration solutions stands up to demanding, diverse requirements of agriculture, horticulture, greenhouses and landscaping. Our specialized technologies effectively treat and filter the water according to each customer's specific requirements.

Proven reliability

We sell our durable systems as integrated components or as complete filtration solutions for varied irrigation applications. Designed to withstand difficult climates and environments and changing water conditions, our flexible configurations make Amiad solutions suitable for installation anywhere along the water or irrigation system.

Each Amiad system is built in accordance with international standards for quality.

Our global responsibility: Clean technology to produce clean water for a sustainable world

At Amiad, starting with the design and counting through the manufacture of our water filtration systems, we place environmental responsibility at the core of our business. As a world leader in water filtration solutions, our innovations in highly efficient filtration systems improve overall agricultural water management.

- We reduce the amount of backflush water to a bare minimum, so farmers and growers actually use fewer cubic meters per hour for greater yields.
- Our automatic self-cleaning systems clean without chemicals to provide a green irrigation solution.
- Many of our systems operate without electricity, further reducing water usage and energy footprint.
- Our reliable water filtration solutions protect the irrigation equipment and systems for improved performance over time.



AMIAD

Fast, efficient self-cleaning
screen technology for the
continuous flow of filtered water

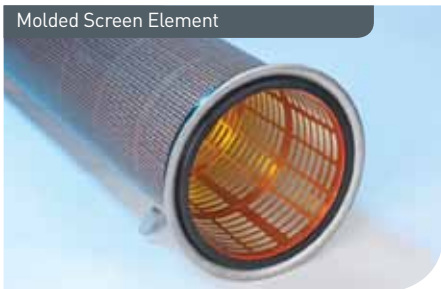
The technology: Amiad's leading suction-scanning technology combines focused flush with automated self-cleaning.

About self-cleaning: The self-cleaning cycle is triggered by the accumulation of suspended solids (filter cake) on the screen surface. There's no need to isolate the filter during the self-cleaning cycle.

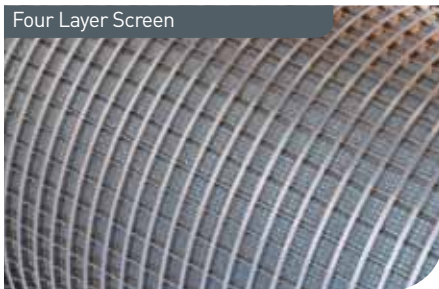
The highlight: Performed "as needed," for greater efficiency and minimal wasted water and energy.

The benefit: An uninterrupted process flow for highly efficient cleaning with minimal exhaust.

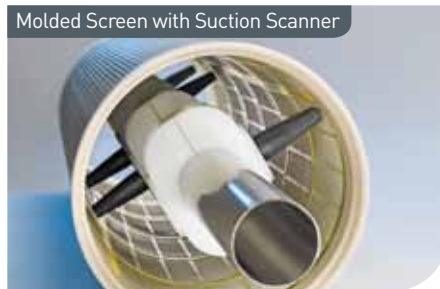
Molded Screen Element

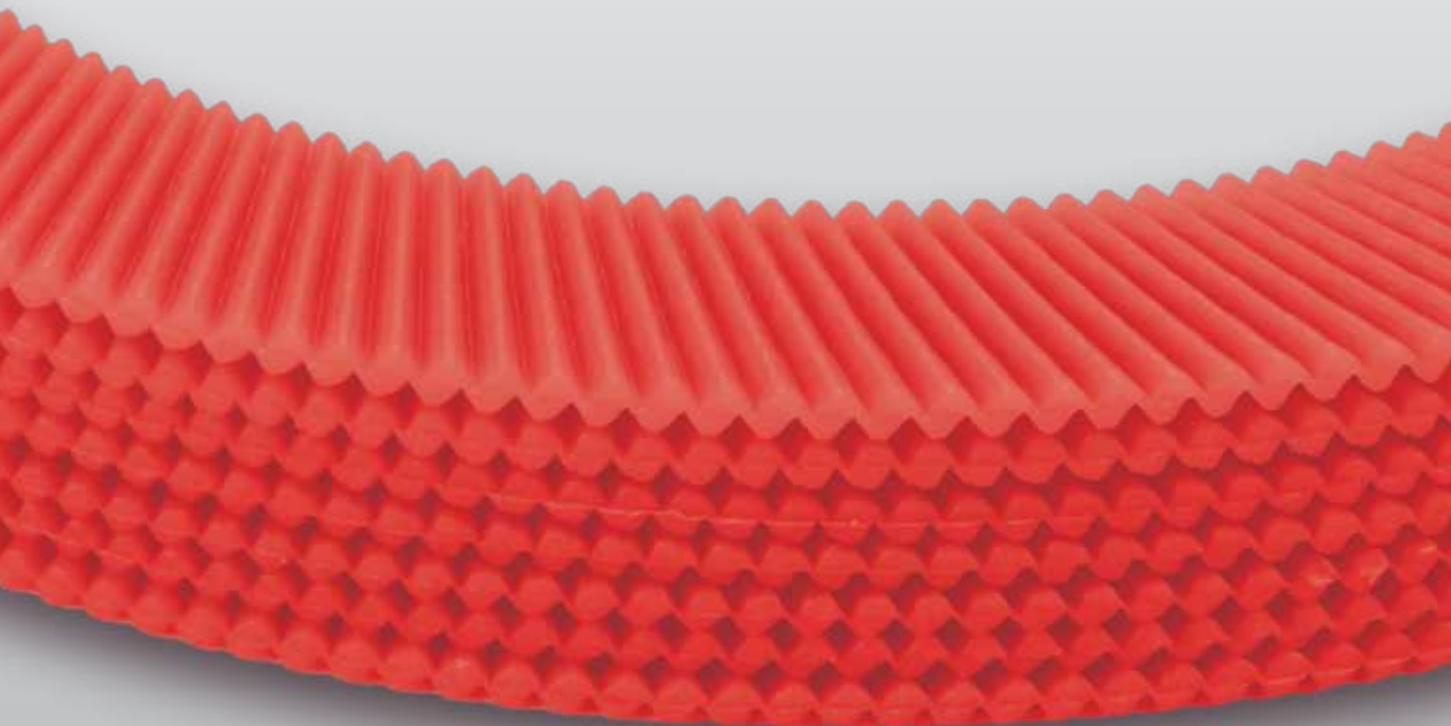


Four Layer Screen



Molded Screen with Suction Scanner





Reliable, effective self-cleaning
SpinKlin® disc technology for
clean water

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

The discs: The "dual groove" discs (grooved on both sides in opposite directions) form a series of "crossing points" that trap multiple particles.

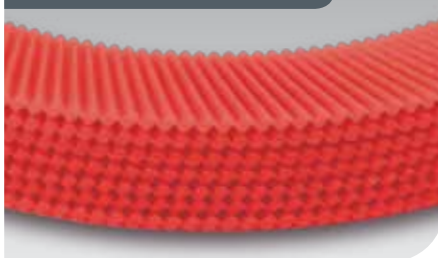
The highlight: When stacked and compressed on a specially designed spine, a series of discs produce a matrix of consecutive crossing points to form a depth-filtration element that captures and retains large amounts of solid particles.

The benefit: A longer filtration cycle combined with a short, efficient backwash process conserves water and energy. The simple operation requires only minimal maintenance.

The SpinKlin® Spine



Grooved Disc Elements



water source

reservoirs



wells



wastewater



Water quality depends on a number of factors—the source, geographic location, and prevailing weather conditions.

Each type of water source from reservoirs to rivers presents different filtration challenges. Water collected in reservoirs may come from floodwater or treated water. Collected organic matter and debris can lead to clogs and cause blockages anywhere in the irrigation system. The quality of water in canals and rivers changes dramatically from season to season, requiring high-performance filtration systems that can handle significant variations and fluctuations in water quality.

canals



rivers



Amiad's focus on water filtration, its decades of experience, and its innovative suction-scanning and Spinklin® disc technologies produce filtration products and solutions that manage the challenges of different water sources to solve every irrigation problem.

emitters





Drip Irrigation

Agriculture • Horticulture • Greenhouses • Landscape

- Small volumes of water pass through the drippers
- Required filtration degree between 130 and 80 microns



Micro Sprinklers

Horticulture • Greenhouses • Landscape

- Medium volumes of water pass through the nozzles
- Required filtration degree between 300 and 130 microns



Sprinklers

Agriculture • Gardening • Golf • Landscape

- Large volumes of water pass through the nozzles
- Required filtration degree between 3500 and 200 microns



Pivot Irrigation

Agriculture • Horticulture

- Large volumes of water pass through the nozzles
- Required filtration degree between 3500 and 500 microns

Protection for Drip Irrigation in Open Field Crops

Filtomat series M100 Series

Application: Drip Irrigation

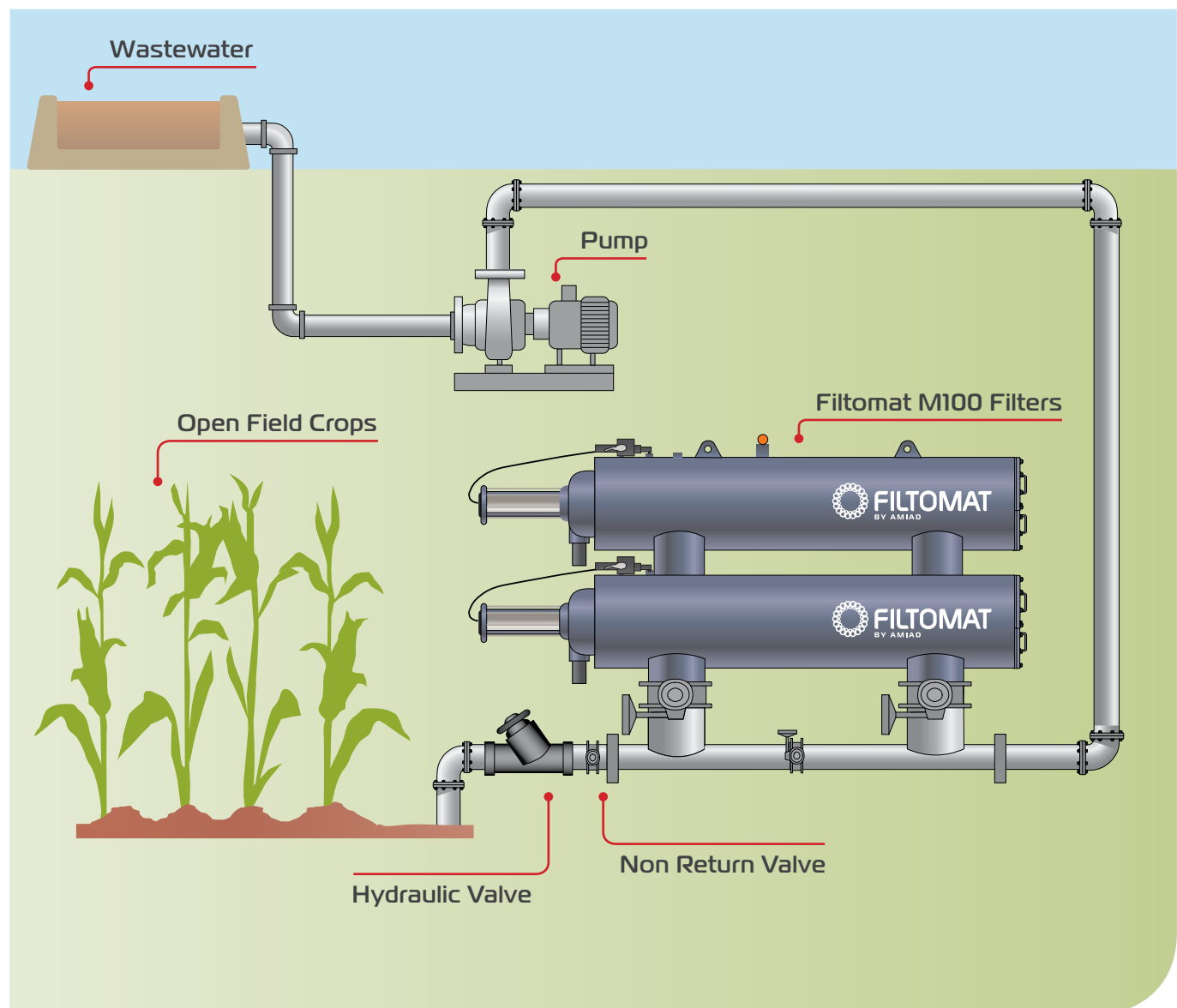
Flowrate: 720 m³/h

Filtration degree: 130 micron

Working pressure: 11 bar

Water source: Wastewater

Filtration solution: 2 units of MG 114
(4* 108LP)



Protection for Drip Irrigation in Vegetable Crops

Arkal SpinKlin® Apollo

Application: Drip Irrigation

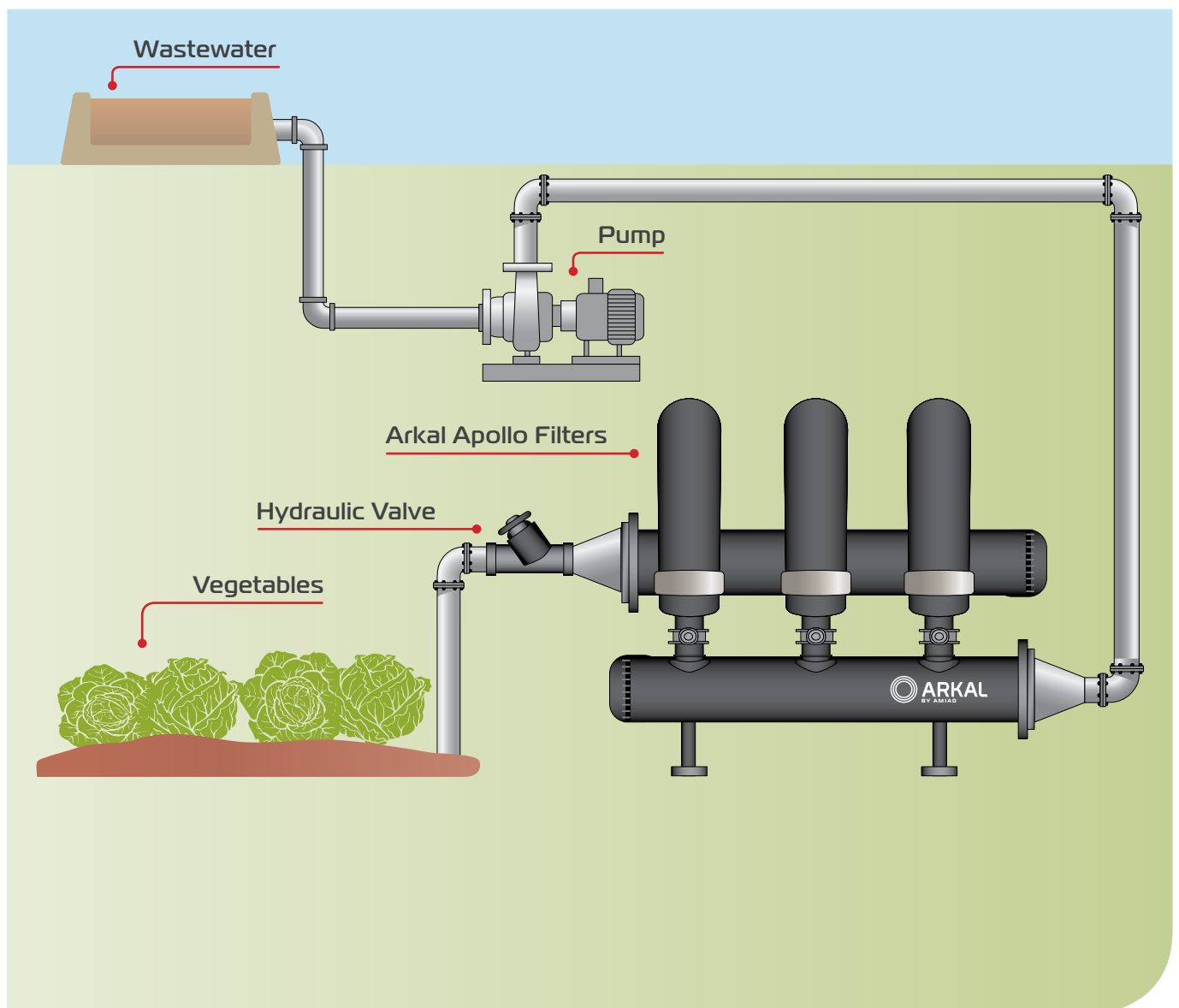
Flowrate: 120 m³/h

Filtration degree: 130 micron

Working pressure: 5.5 bar

Water source: Wastewater

Filtration solution: 3 x 3" Apollo Angle



Protection for Drip Irrigation in Orchards

Arkai SpinKlin® Apollo

Application: Drip Irrigation

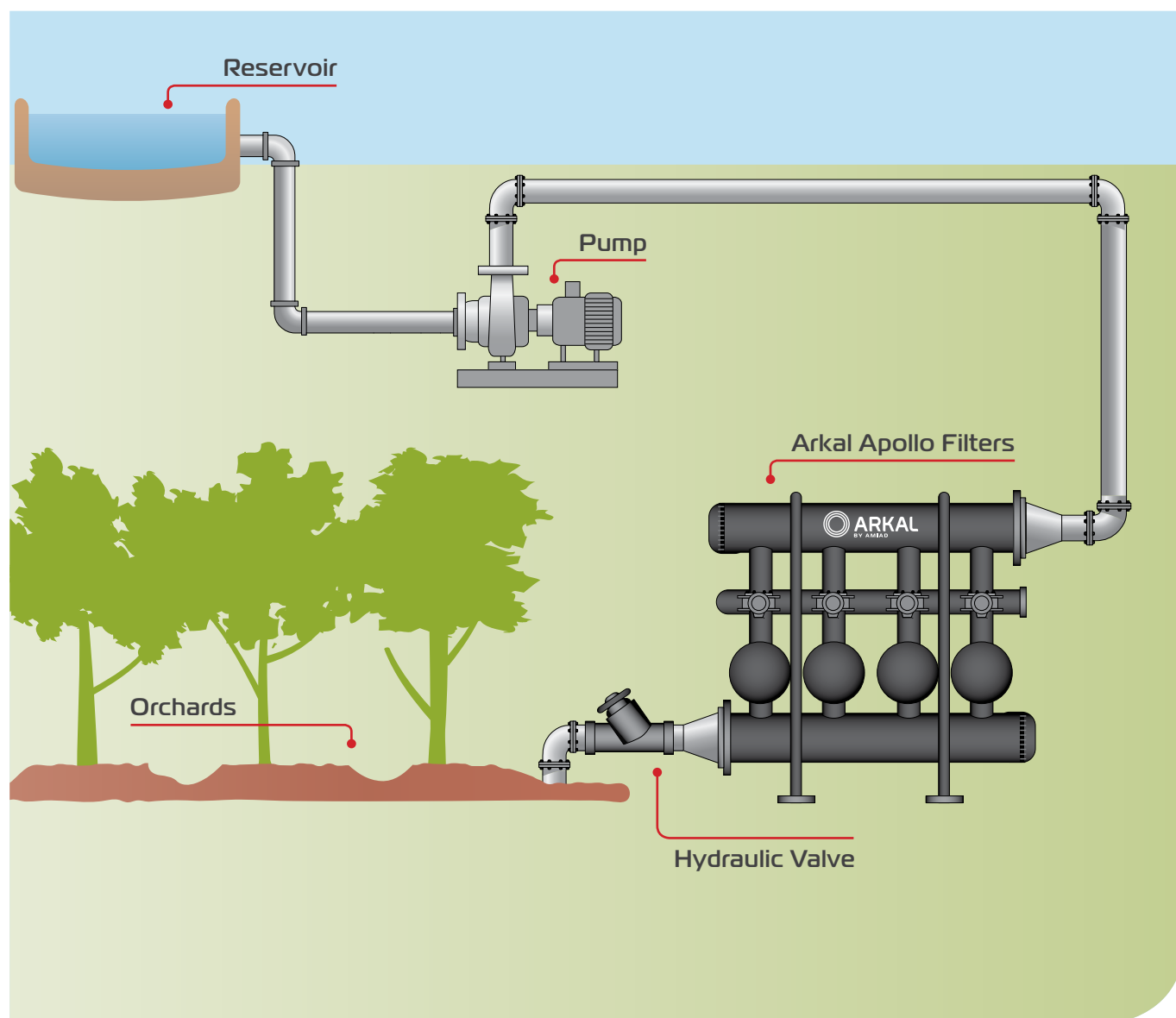
Flowrate: 700 m³/h

Filtration degree: 130 micron

Working pressure: 4.5 bar

Water source: Reservoir water

Filtration solution: 3 Batteries of Apollo 4" x 5 units



Protection for Sprinklers Irrigation in Open Field Crops

Arkal SpinKlin® Galaxy 4"

Application: Drip Irrigation

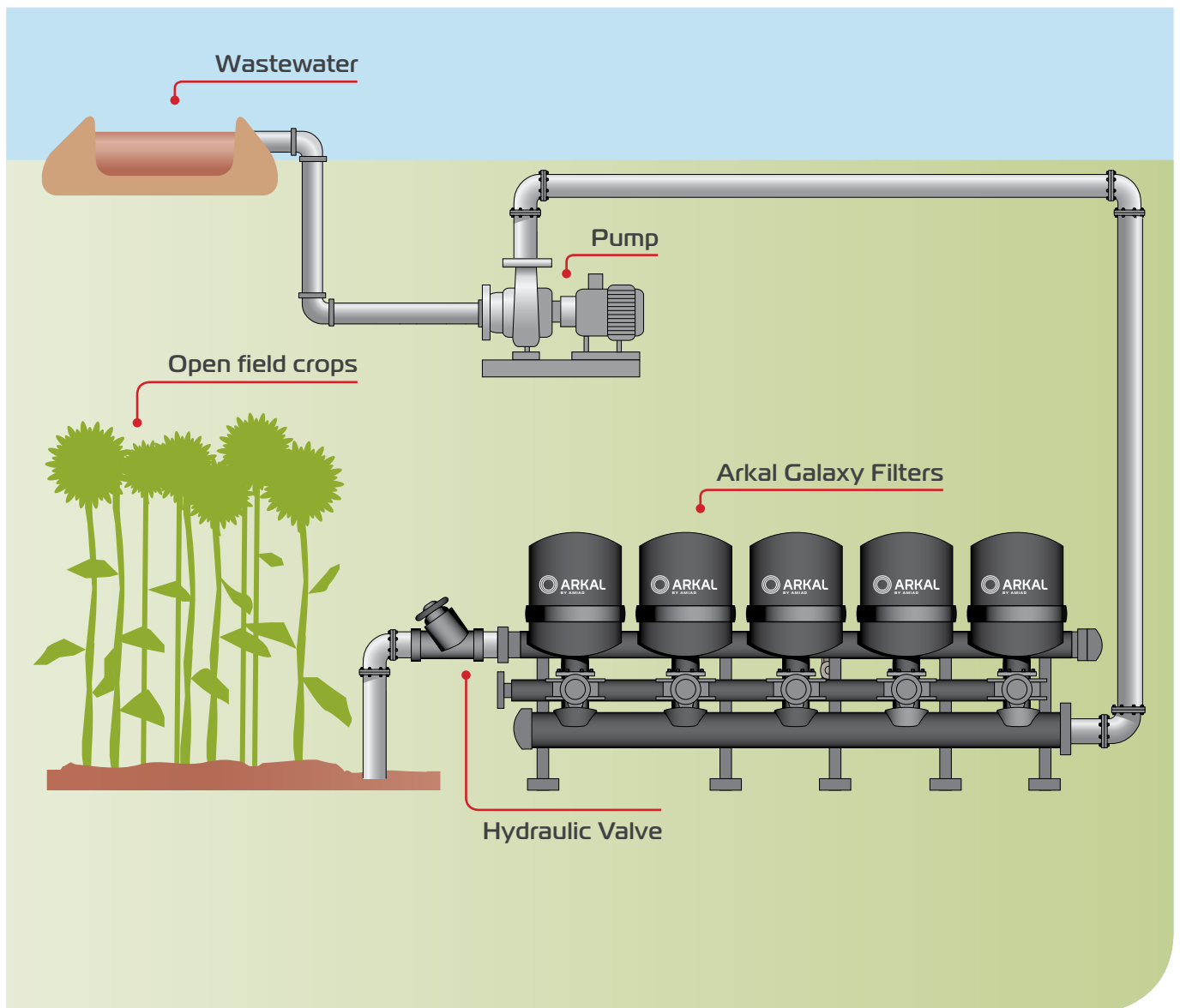
Flowrate: 1,300 m³/h

Filtration degree: 130 micron

Working pressure: 8 bar

Water source: Wastewater

Filtration solution: 3 batteries of Galaxy 4" x 7



Protection for Pivot Irrigation in Raw Plantations

Amiad SAF Series

Application: Pivot Irrigation

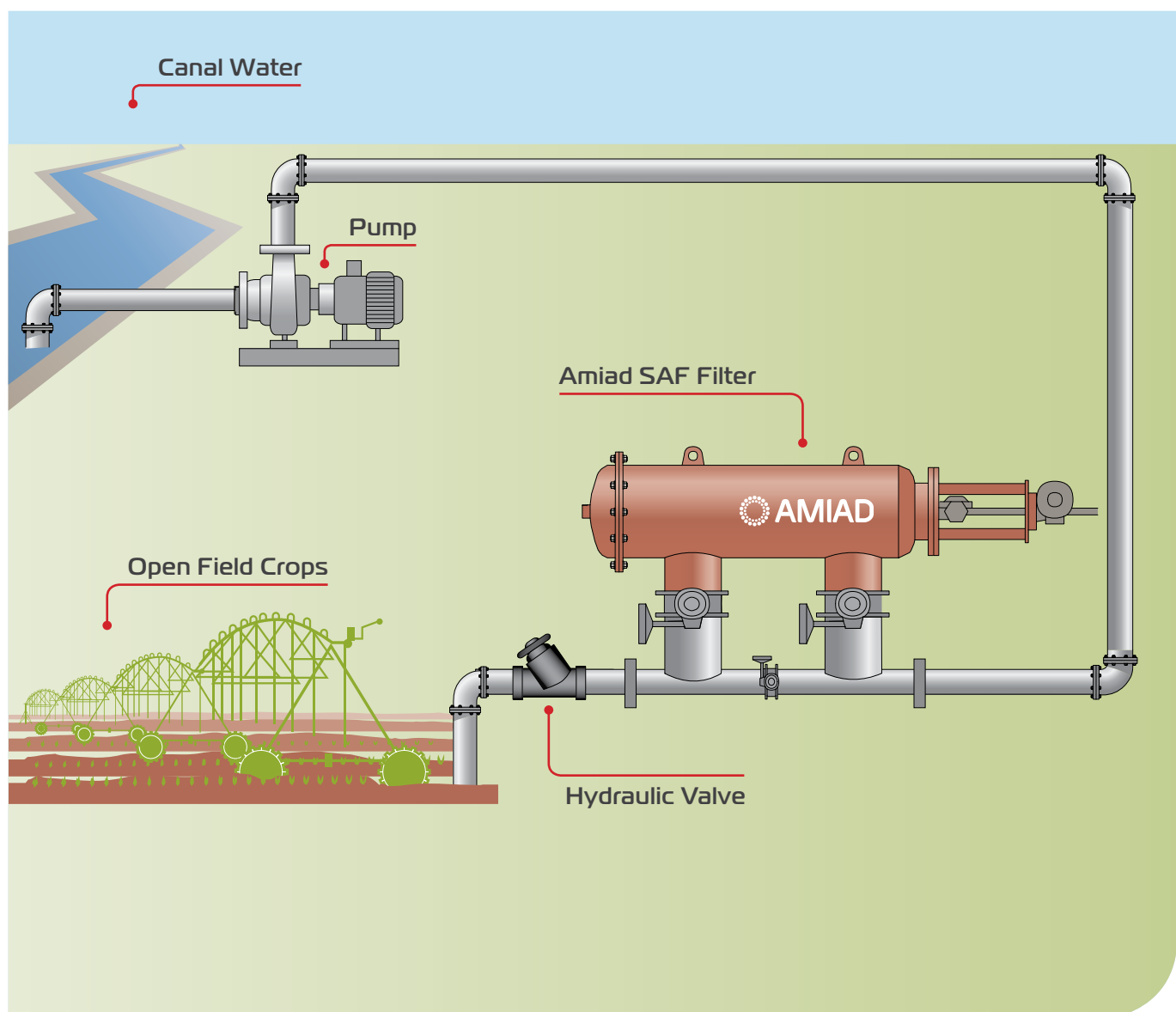
Flowrate: 1,200 m³/h

Filtration degree: 500 micron

Working pressure: 3 bar

Water source: Canal water

Filtration solution: 3 units of SAF
6,000 cm²



Protection for Drip Irrigation in Raw Plantations

Amiad EBS Series

Application: Drip Irrigation

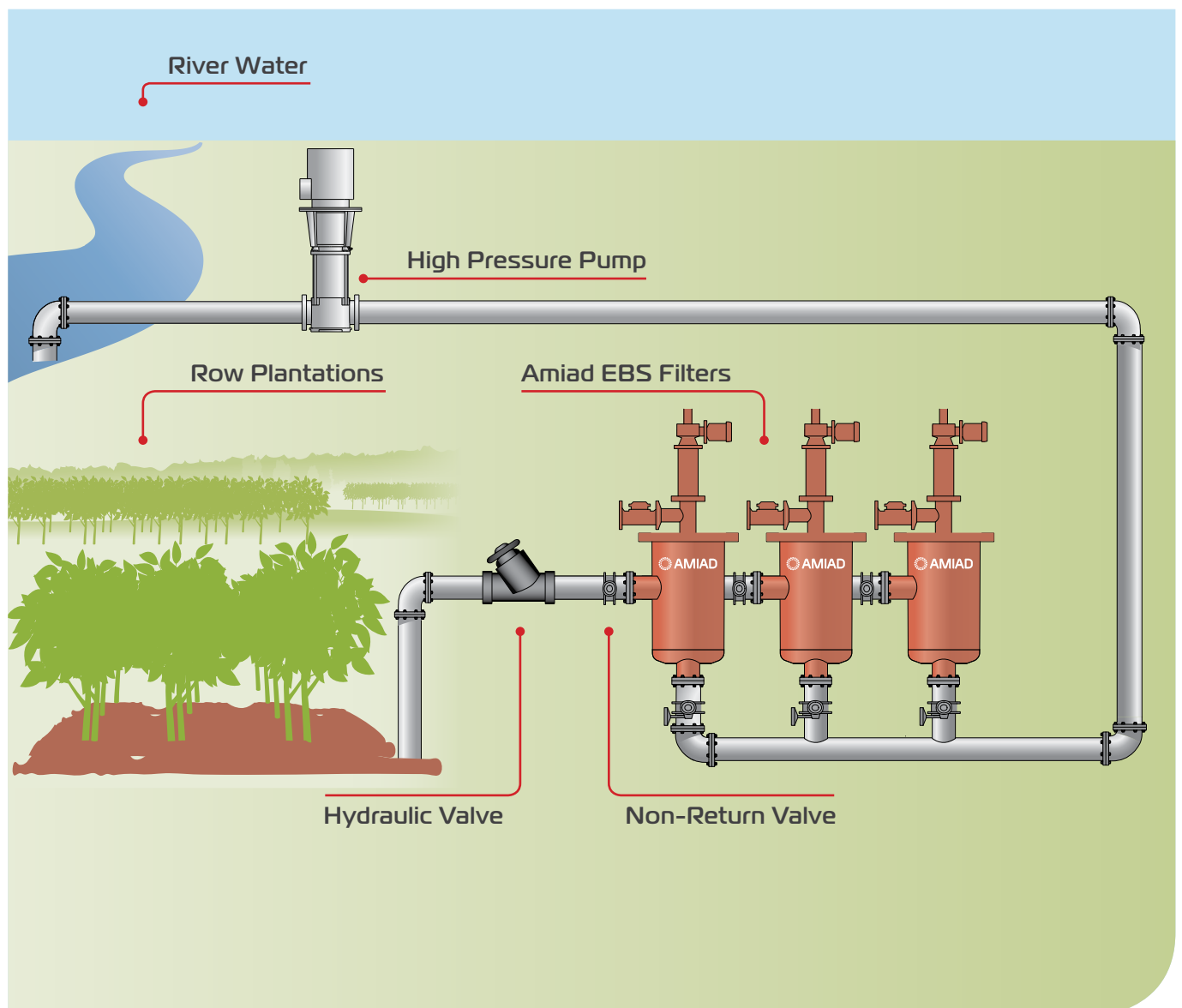
Flowrate: 7,500 m³/h

Filtration degree: 130 micron

Working pressure: 5.5 bar

Water source: River water

Filtration solution: 15 units of EBS
10,000 cm² On line



Protection for Drip Irrigation in Open Field Crops

Filtomat M100 Series

Application: Drip Irrigation

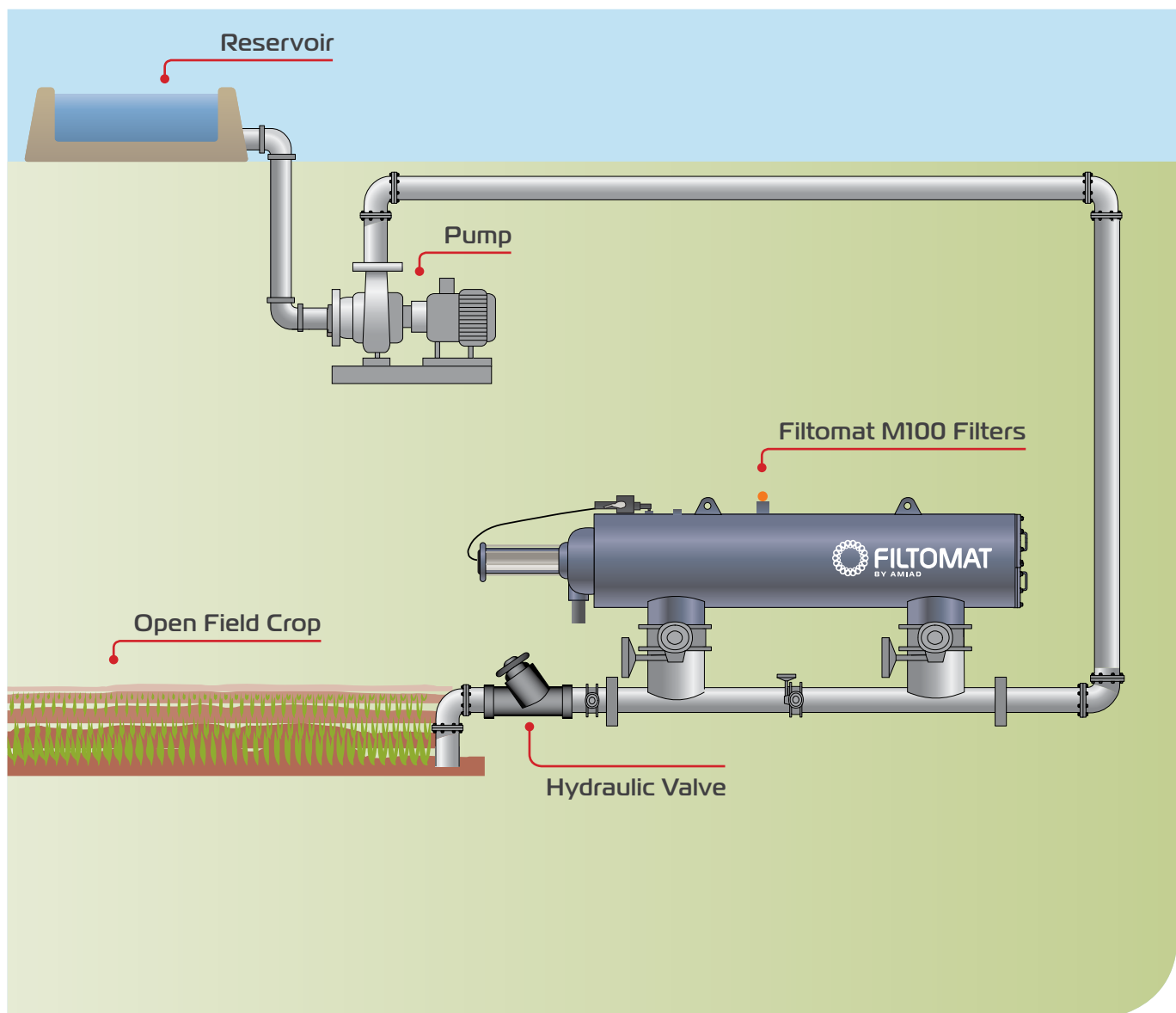
Flowrate: 200 m³/h

Filtration degree: 130 micron

Working pressure: 4 bar

Water source: Reservoir water

Filtration solution: 2 x 8" M100-6800



Protection for Drip Irrigation for Gardening Use

Filtomat M100 series

Application: Drip Irrigation for landscape

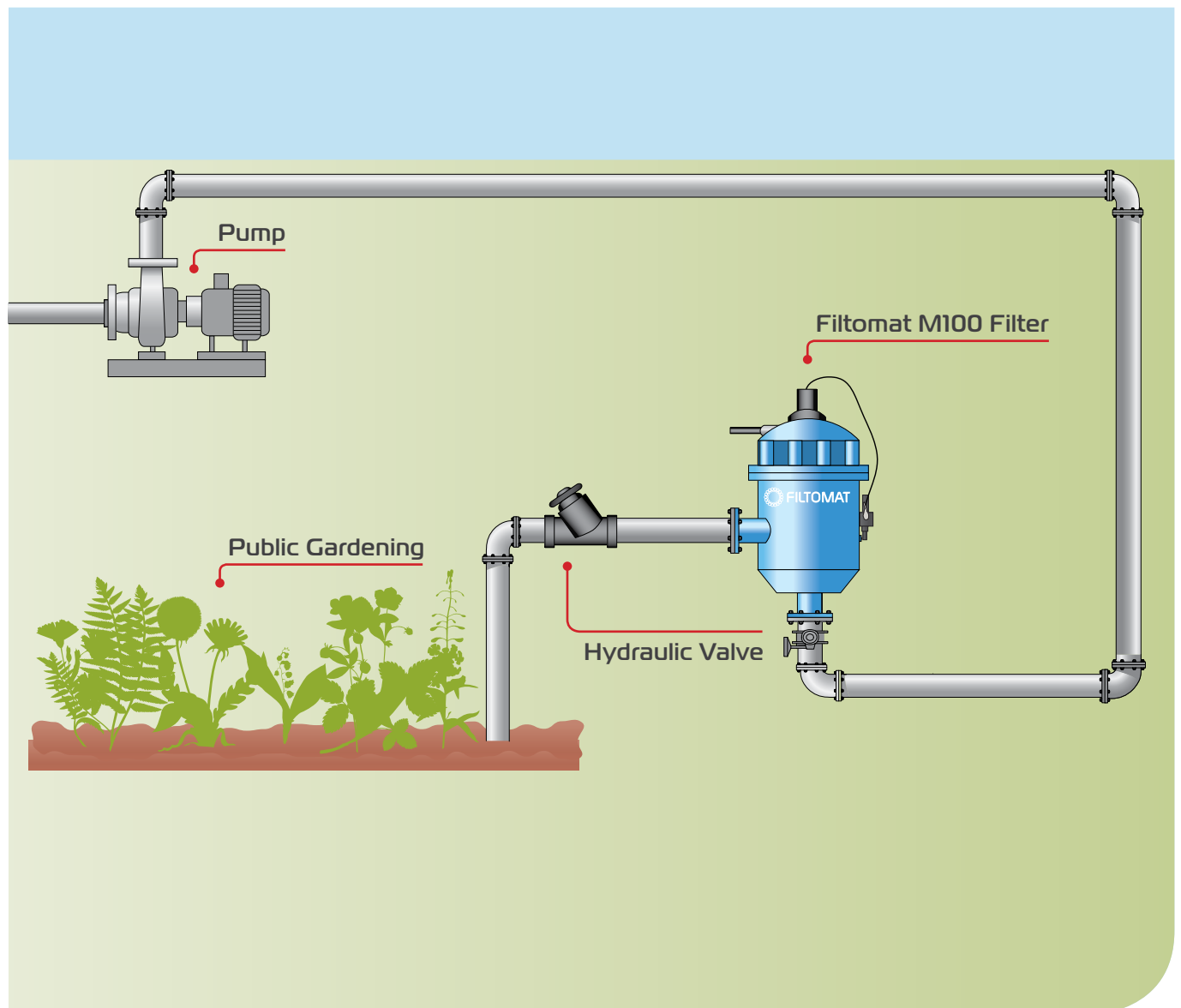
Flowrate: 50 m³/h

Filtration degree: 100 micron

Working pressure: 5 bar

Water source: Canal water

Filtration solution: 4" M100-1500





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