

Afriq Water

Irrigation Filters are ideal for filtering out organic and non-organic materials, to extend the lifetime of your irrigation system

Irrigation Filters



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Filters Definitions

Cartridge

The inner part of the filter. This piece is replaceable in the housing, and this piece is what determines effective filtration.

Screen Filters

Filters with screen cartridges



Screen cartridges are the most common filters and are excellent for removing hard particles such as sand. They are not ideal for removing organic materials such as algae and slime. These non-solid materials tend to embed themselves into the screen material where they are very difficult to remove or they simply slide through the holes in the screen.

Disc Filters

Filters with disc cartridges



Disc cartridges are good at removing both particulates, like sand and organic matter. A disc filter consists of a stack of round discs. The discs have minuscule spaces between them when stacked together. The water is forced between the spaces between the discs, and the particulates are filtered out because they won't fit through these gaps. The organics are snagged in between the discs.

Micron

Refers to the size of particles that a filter will filter out. If a filter is 5 microns, it can filter out the smallest bacteria particles, but a filter of 130 microns (which we recommend you use), filters out basic debris, sand, dirt, algae, etc. without affecting the flow rate.

Extend the lifetime of your...

Quick Coupling Sprinklers

Irrigation filters are ideal for sprinkler irrigation, to prevent clogging of nozzles and reduce the wear that particles and granules can have on your system.

Dripline Irrigation

Prevents emitters from becoming clogged, if the emitter becomes clogged, the dripline cannot function. Even if small sand particles can pass through the dripline system without blocking it, they cause wear on the equipment.

The 4 BIG Pollutants

Solids

Farmers who spread solids through their irrigation systems, like manure, can prevent large particles from entering their irrigation systems or lines.

Sand

Sand can not only clog your system, but will also cause damage to the interior walls of your pipes as it's flushed through the system, reducing your pipe's durability and longevity.

Algae

Algae will not only clog your outlet holes, but will also grow on the inner walls of the system, where it will accumulate sand, dirt or organic particles, creating blockages that are nearly impossible to find and remove.


Debris

Lots of farmers irrigate their fields by use of a dam or river. These sources have a naturally high level of pollutants. A filter is essential in this case, and the more filters available, the better.



Types of Filters

In-Line Y-Type Filters

	CODE	DIA.	FLOW	TYPE	SIZE	FILTRATION SURFACE
	800-034-03-01	20mm 3/4"	6m³/h	DISC	MINI	172,25cm²
	800-034-03-02	20mm 3/4"	6m³/h	SCREEN	MINI	172,25cm²
	800-100-03-01	25mm 1"	7m³/h	DISC	MINI	172,25cm²
	800-100-03-02	25mm 1"	7m³/h	SCREEN	MINI	172,25cm²
	800-114-02-01	32mm 1 1/4"	10m³/h	DISC	MIDI	599,20cm²
	800-114-02-02	32mm 1 1/4"	10m³/h	SCREEN	MIDI	599,20cm²
	800-112-02-01	40mm 1 1/2"	15m³/h	DISC	MIDI	311,96cm²
	800-112-02-02	40mm 1 1/2"	15m³/h	SCREEN	MIDI	311,96cm²
	800-112-01-01	40mm 1 1/2"	20m³/h	DISC	+PLUS	525,43cm²
	800-112-01-02	40mm 1 1/2"	20m³/h	SCREEN	+PLUS	525,43cm²
	800-200-01-01	50mm 2"	25m³/h	DISC	+PLUS	525,43cm²
	800-200-01-02	50mm 2"	25m³/h	SCREEN	+PLUS	525,43cm²

Single Filters

Available in Long/Short, with Stainless Steel/Plastic Clamps

Long: More filtration area, used for dirtier water

Short: Used with cleaner water.

STAINLESS STEEL CLAMPS

	CODE	DIA.	FLOW	TYPE	SIZE	FILTRATION SURFACE
	900-020-01-01	50mm 2"	40m³/h	DISC	SHORT	1335cm²
	900-020-02-01	50mm 2"	40m³/h	DISC	LONG	1810cm²
	900-020-02-04	50mm 2"	40m³/h	SCREEN	LONG	1620cm²
	900-025-01-01	63mm 2 1/2"	48m³/h	DISC	SHORT	1335cm²
	900-025-01-04	63mm 2 1/2"	48m³/h	SCREEN	SHORT	1210cm²
	900-025-02-01	63mm 2 1/2"	48m³/h	DISC	LONG	1810cm²
	900-025-02-04	63mm 2 1/2"	48m³/h	SCREEN	LONG	1620cm²
	900-030-01-01	80mm 3"	55m³/h	DISC	SHORT	1335cm²
	900-030-02-01	80mm 3"	55m³/h	DISC	LONG	1810cm²

PLASTIC CLAMPS

	CODE	DIA.	FLOW	TYPE	SIZE	FILTRATION SURFACE
	910-030-01-01	80mm 3"	55m³/h	DISC	SHORT	1335cm²
	910-030-02-01	80mm 3"	55m³/h	DISC	LONG	1810cm²

Double Filters

Available in Long/Short, with Stainless Steel/Plastic Clamps

Long: More filtration area, used for dirtier water

Short: Used with cleaner water.

STAINLESS STEEL CLAMPS

	CODE	DIA.	FLOW	TYPE	SIZE	FILTRATION SURFACE
	950-030-01-01	80mm 3"	70m³/h	DISC	SHORT	2670cm²
	950-030-02-01	80mm 3"	100m³/h	DISC	LONG	3615cm²
	950-040-01-01	100mm 4"	70m³/h	DISC	SHORT	2670cm²
	950-040-01-03	100mm 4"	70m³/h	SCREEN	SHORT	2435cm²
	950-040-02-01	100mm 4"	100m³/h	DISC	LONG	3615cm²

PLASTIC CLAMPS

	CODE	DIA.	FLOW	TYPE	SIZE	FILTRATION SURFACE
	960-030-01-01	80mm 3"	70m³/h	DISC	SHORT	2670cm²
	960-030-02-01	80mm 3"	100m³/h	DISC	LONG	3245cm²
	960-040-01-01	100mm 4"	70m³/h	DISC	SHORT	2670cm²
	960-040-02-01	100mm 4"	100m³/h	DISC	LONG	3615cm²



irrigating for a greener tomorrow

Factors to Consider

- ◆ The source of the water
- ◆ The level of filth in the water (the density of pollutants)
- ◆ Flow rate of water
- ◆ The diameter of the pump outlet
- ◆ Consider the cubic meters that need to be filtered per hour (m^3/hr)

Using Cubic Metres

To calculate the cubic meter required, you'll have to use the pump as a guide. For example, if your pump is rated to deliver 40 000 litres per hour, you will need a filter that can accommodate a minimum of $40^3\text{m}^3/\text{hr}$.

Dripline Example:

If you have 18 lines of 100m each, with 30 cm spacing & a flow rate of 2 litre/h per emitter, you can use the following equation to determine your filter size:

$$= \{[(\text{Spacing}) \times \text{Length of Dripline}] \times \text{Amount of Lines}\} \times \ell \text{ p/h}$$

$$= \{[(1\text{m}/.3 \text{ spacing}) \times 100] \times 18 \text{ lines}\} \times 2 \ell/\text{hr p.emitter}$$

$$= \{[3.33 \times 100] \times 18\} \times 2 \ell/\text{hr p.emitter}$$

$$= 5994 \text{ emitters} \times 2 \ell/\text{hr per emitter}$$

$$= 11988 \ell/\text{hr flow rate for the entire field.}$$

You will need a filter that can accommodate at least $12\text{m}^3/\text{hr}$, but it will be advised to use one size up which is the $15\text{m}^3/\text{hr}$ Y-Type Filter.

Cleaning your filter

Screen Filter

Remove the screen cartridge by removing the top of the filter and unscrewing the cartridge. Pull out and wash by hand with dishwashing liquid.

Disc Filters

Remove the disc cartridge by removing the top of the filter, unscrewing the cartridge, and pulling it out.

The layers of the disc filter will loosen, and you'll be able to clean between the discs with dishwashing liquid. The discs will come back together when you insert and tighten the cartridge.

Filters & Fertilizer Tanks

The fertilizer tank should be installed before the filter, as undissolved fertiliser particles can cause blockages in the irrigation system.

Recommendation

We recommend that you put one filter directly after your pump, and a filter at the start of each block. Keep in mind that filters can cause flow problems if they are not speced properly.



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**We do not do installations,
we will try our best to refer you to
experts in certain areas.**

