

COMPANY INTRODUCTION

ADVANCED FILTRATION TECHNOLOGIES

S.I. IRRIGATION SYSTEMS is an Israeli company, experienced in design and manufacture of cost-effective filtration technology for drip irrigation systems and micro sprinklers. With over 15 years of experience in irrigation management and irrigation project applications, **S.I.** brings the most advanced and efficient filtration solutions for the agriculture market.

SUPERIOR SERVICE BY A GROUP OF PROFESSIONALS

The company is managed by dedicated, highly trained employees who focus on quality, innovation and customer service. We strive to provide our clients the best products alongside superior service - this is the key to our success.

TRULY SAFE IRRIGATION WATER

Our goal and aim is to provide our clients the most safe water. Our highly advanced irrigation solutions are crafted and designed to provide peak performance when it comes to reliability.

OUR KEY PRODUCTS

Our key products are Disc filters, Screen filters and Sand separators. All filters are made using advanced plastic injection machines which can manufacture a broad range of plastic products to meet all specifications and requirements.

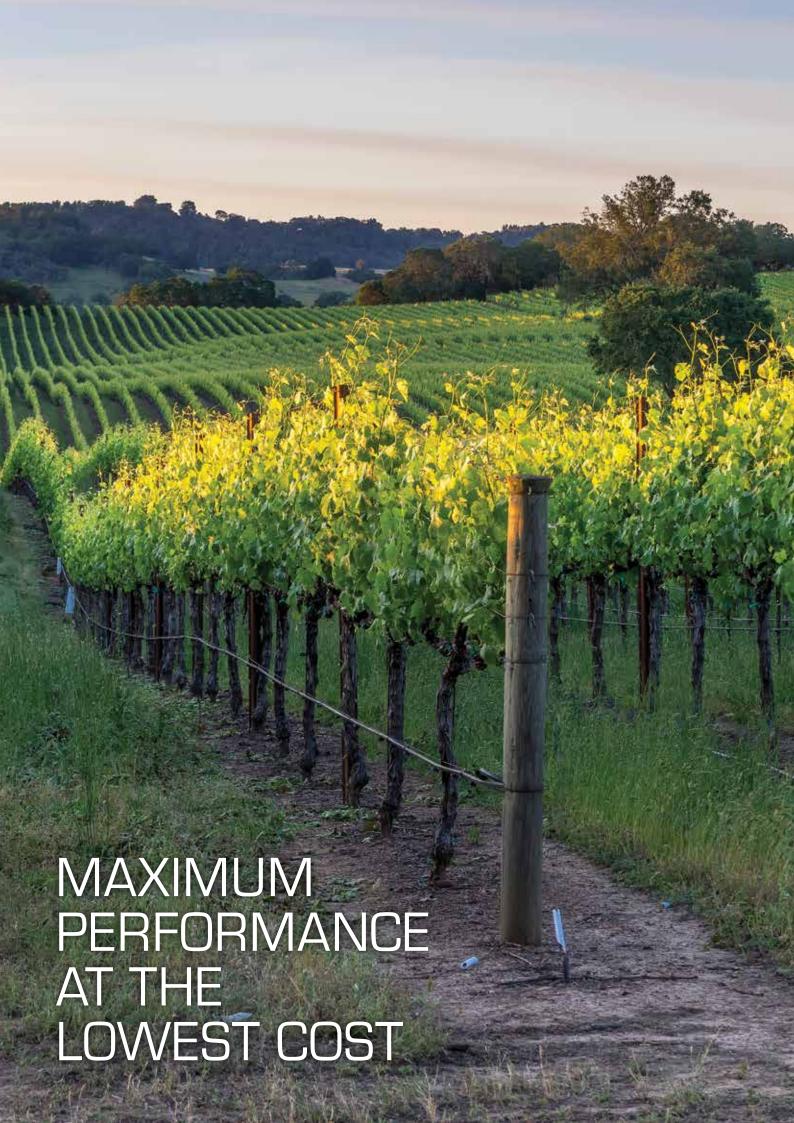
WE BELIEVE IN QUALITY

The production plan is a Quality-audited ISO-9001. We are committed to promoting improvement to ensure the future quality of products and state of the art innovation to ensure our clients they are getting the best water filtration solutions.

COST-EFFECTIVE IRRIGATION SOLUTIONS

Our advanced technology, alongside the smart design, offer our clients not only the best irrigation equipment today, but also an excellent cost-effective irrigation mechanism, designed to provide maximum performance at the lowest cost.

Our filters are designed to efficiently coordinate with the irrigation applications providing cost-effective high performance and reliability featuring many advantages: Saving flushing water, a minor footprint, easy maintenance, eliminates leaks and rusting, lowering the installation costs and a portable & easy to move system.



AUTOMATIC SELF CLEANING DISC FILTERS

LOWER MAINTENANCE AND PROLONGED LONGEVITY

The automatic self cleaning disc filters features a large filtration area with excellent depth filtration. It does not require high pressure and uses a small quantity of flushing water.

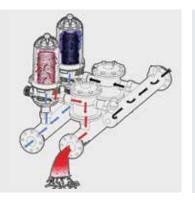
FEATURES & BENEFITS

- Due to the low pressure required for backflushing (>2.0Bar), the customer can save energy costs by reducing the size of the irrigation pump.
- ◆ The system is portable, pre-assembled, light-weight and requires a small footprint, saving time and money in terms of transportation and installation.
- ◆ The system is made from composed plastic materials, designed for chemical resistance and featuring a minimum of moving parts, ensuring lower maintenance and longevity.



FILTRATION MODE

The disc is held tightly together, allowing the irrigation water to pass through the micron water passages between the disc and debris traps.



BACK-FLUSHING MODE

The Backflush process initiated by time or by a differential pressure switch which measures the pressure before and after the filter. The pressure differential results from debris accumulated on the disc. The filter's controller sends a command to a 3-way valve to change the flow direction through the filter element. The opposite flow decompresses the stacked discs and jets of water will spin the discs and flush all the trapped debris down the drain. This process is done for each filter in the system.

AUTOMATIC SYSTEM - FILTRATION GRADE

Micron	50μ	80µ	100μ	130μ	180µ	420µ
Mesh	300	200	150	120	80	40
Disc Color						















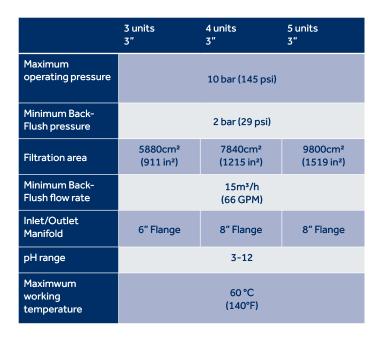
	2 units 2"	3 units 2"	2 units 3"	3 units 3"	4 units 3"	5 units 3"	6 units 3"
Maximum operating pressure				10 bar (145 psi)			
Minimum Back- Flush pressure				2 bar (29 psi)			
Filtration area	1960cm² (304 in²)	2940cm² (456 in²)	2980cm² (456 in²)	4470cm² (684 in²)	5960cm² (911 in²)	7450cm² (1139 in²)	8940cm² (1367 in²)
Minimum Back- Flush flow rate		n³/h GPM)			10m³/h (44 GPM)		
Inlet/Outlet Manifold	3" Flange	4" Flange	4" Flange	4" Flange	6" Flange	6" Flange	8" Flange
pH range				3-12			
Maximwum working temperature				60°C (140°F)			

MAXIMUM FLOW RATE @ 130MICRON

Water Quality	2 units 2"	3 units 2"	2 units 3"	3 units 3"	4 units 3"	5 units 3"	6 units 3"
Good	40m³/h	60m³/h	60m³/h	90m³/h	120m³/h	150m³/h	180m³/h
Average	34m³/h	50m³/h	50m³/h	75m³/h	100m³/h	125m³/h	150m³/h
Poor	27m³/h	40m³/h	40m³/h	60m³/h	80m³/h	100m³/h	120m³/h







MAXIMUM FLOW RATE @ 130MICRON

Water Quality	3 units 3"	4 units 3"	5 units 3"
Good	120m³/h	160m³/h	200m³/h
Average	100m³/h	135m³/h	170m³/h
Poor	80m³/h	105m³/h	135m³/h





	4 units 4"	5 units 4"	6 units 4"	7 units 4"	8 units 4"	9 units 4"	10 units 4"
Maximum operating pressure				10 bar (145 psi)			
Minimum Back- Flush pressure				2 bar (29 psi)			
Filtration area	11920cm² (1823 in²)	14900cm² (2278 in²)	17880cm² (2734 in²)	20860cm² (3190 in²)	23840cm² (3646 in²)	26820cm² (4101 in²)	29800cm² (4557 in²)
Minimum Back- Flush flow rate				20m³/h (88 GPM)			
Inlet/Outlet Manifold	6" Flange	8" Flange	8" Flange	8" Flange	8" Flange	10" Flange	10" Flange
pH range				3-12			
Maximwum working temperature				60°C (140°F)			

MAXIMUM FLOW RATE @ 130MICRON

Water Quality	4 units 4"	5 units 4"	6 units 4"	7 units 4"	8 units 4"	9 units 4"	10 units 4"
Good	240m³/h	300m³/h	360m³/h	420m³/h	480m³/h	540m³/h	600m³/h
Average	200m³/h	250m³/h	300m³/h	350m³/h	400m³/h	450m³/h	500m³/h
Poor	160m³/h	200m³/h	240m³/h	280m³/h	320m³/h	360m³/h	400m³/h





Our manual filtration T&H models are the perfect solution for simple application or for big project where a secondary filter is required at every irrigation block.

This sustainable and quality solution is available from 2" to 4" and can be assembled with both Screen and Disc elements.

Micron	50µ	80µ	100μ	130µ	180µ	420µ
Mesh	300	200	150	120	80	40
Color						

	2" T Filter	2½" T Filter	3" T Filter (Small)	3" T Filter (Large)	3" H Filter	4" H Filter (Small)	4" H Filter (Large)
Maximum operating pressure				10 bar (145 psi)			
Disc Filtration area	1225 cm² (190 in²)	1225 cm² (190 in²)	1225 cm² (190 in²)	1756 cm² (272 in²)	2450cm² (380 in²)	2450cm² (380 in²)	3512cm² (544 in²)
Screen Filtration area	1180cm² (183 in²)	1180cm² (183 in²)	1180cm² (183 in²)	1580cm² (245 in²)	2360cm² (366 in²)	2360cm² (366 in²)	3160cm² (490 in²)
Maximum Flow rate	30 m³/h (132 GPM)	40 m³/h (176 GPM)	40 m³/h (176 GPM)	50 m³/h (220 GPM)	50 m³/h (220 GPM)	70 m³/h (308 GPM)	100 m³/h (440 GPM)
Inlet/Outlet Connections			BSP	, NPT, Flange, Vict	aulic		
pH range	3-12						
Maximwum working temperature				60°C (140°F)			





Y MODELS

TECHNICAL SPECIFICATION

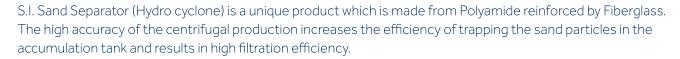
The Y filter is an attractive and economic solution for Landscape application as well as Municipal application. Its varies from small size of 3/4" to large size of 3". By utilizing the Y shape, it will fit most of installation infield. The Y filter is the perfect solution for fertilizer usage where soluble fertilizer is being mixed with water and stored in a fertilizer tank.

Micron	130μ	180μ	420µ
Mesh	120	80	40
Color			

	³¼" Y Filter	1" Y Filter	1¼" Y Filter	1½" Y Filter (Small)	1½" Y Filter (Large)	2" Y Filter	2½" & 3" Y Filter
Maximum operating pressure				8 bar (116 psi)			
Disc Filtration area	192cm² (30 in²)	192cm² (30 in²)	334cm² (52 in²)	334cm² (52 in²)	490cm² (76 in²)	490cm² (76 in²)	880cm² (136 in²)
Screen Filtration area	160cm² (25 in²)	160cm² (25 in²)	311cm² (48 in²)	311cm² (48 in²)	408cm² (63 in²)	408cm² (63 in²)	800cm² (124 in²)
Maximum Flow rate	5 m³/h (22 GPM)	6 m³/h (26 GPM)	15 m³/h (66 GPM)	20 m³/h (88 GPM)	25 m³/h (110 GPM)	25 m³/h (110 GPM)	35 m³/h (154 GPM)
Inlet/Outlet Connections				BSP, NPT			
pH range				3-12			
Maximwum working temperature				60°C (140°F)			







	2" Sand Separator 3" Sand Separator		4" Sand Separator				
Maximum operating pressure	8 bar (116 psi)						
Flow rate	10 - 30 m³/h (44 - 132 GPM)	25 - 55 m³/h (110 - 242 GPM)	50 - 100 m³/h (220 - 440 GPM)				
Accumulation Tank	16 Liter (4.2 US Gallon)	16 Liter (4.2 US Gallon)	27 Liter (7.1 US Gallon)				
Inlet/Outlet Connections		BSP, NPT, FI	ange				
pH range	3-12						
Maximum working temperature		60°C (140°F)					





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