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HydroProtec®

Hydrocyclone Sand Separators

2", 2½", 3" & 4"

Flow rate: 25-90 M^3/hr

Hydrocyclones are designed to effectively remove sand and dirt from water before it enters irrigation systems. Made from reinforced engineering plastic, this hydrocyclone is designed for maximum centrifugal action, ensuring that dirt is filtered out efficiently. With a simple installation process and low maintenance requirements, this filter is built to deliver optimal performance in the field.

HIGHLIGHTS

- **Efficient Dirt Removal:** Hydrodynamic design creates strong centrifugal action to remove sand and dirt.
- **Durable Construction:** Reinforced engineering plastic and a high wear- resistant plastic insert ensure long-lasting performance.
- **Clamp:** Equipped with a SS Lock for easy opening and closing of the collector cover.
- **Height Adjustment:** Comes with an adjustable stand to increase height as required.
- **Easy Maintenance:** Simple installation and minimal upkeep make it highly user- friendly. Dirt is easily flushed out through the drain port, and the collector chamber can be cleaned by opening the cover.

Applications

- **Agricultural Irrigation:** applicable for removing sand and high quantities of debris from irrigation water supply.

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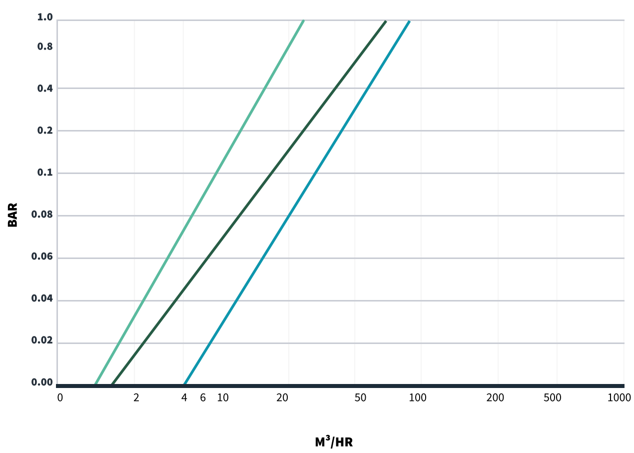
TECHNICAL DATA

filter model	HydroProtec 25	HydroProtec 30	HydroProtec 50
Connection Size (Inlet/Outlet)	2'' / 50mm	2½'' / 65mm	3'' / 80mm
Connection type	Threaded (BSP/NPT) / Grooved / Flanged		
Maximum Flow Rate* (M^3/HR)	25	30	50
Maximum . working Pressure	6		
Material of Construction	All polymeric		
Clamping	St.St. Clamp		
Flush Port	1'' – Male Threaded Port (with Flush valve)		

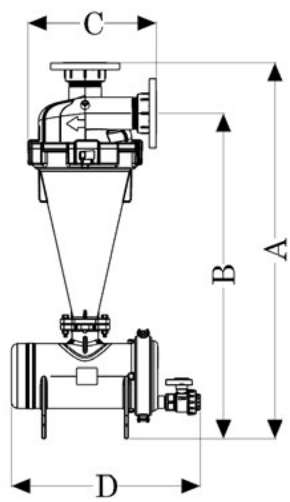
Dimensions

Model	Dimensions				Capacity of Collection Tank	
	A	B	C	D		
HydroProtec 25	95	82	25	51	liter	8
HydroProtec 30	95	82	25	51	liter	8
HydroProtec 50	99	87	28	51	liter	8
	100	89	28	60	liter	10

Head Loss Chart



HydroProtec 25
HydroProtec 30
HydroProtec 50



HydroProtec®

Cyclone Separator

4"

Highly efficient and maintenance-free filter designed to handle flow rates from 50 m^3/hr to 90 m^3/hr . Capable of removing 80-90% of solid particles with a size of 200 mesh (75 microns) and above in a single pass; these separators are ideal for agriculture, industrial, and municipal water applications. Constructed from corrosion-resistant, high-performance engineering plastic, they ensure long-lasting durability and efficient operation.

HIGHLIGHTS

- **High Filtration Efficiency:** Removes 80-90% of particles sized 200 mesh (75 microns) and larger in a single pass.
- **No Maintenance Required:** No screens or moving parts, eliminating the need for maintenance and reducing labour costs.
- **Continuous Operation:** Designed to operate without shutdown for cleaning, allowing for purging during operation without performance loss.
- **Purging Options:** Available with both auto and manual purge systems. The auto- purge option includes an advanced Bluetooth - enabled Automat Smart Purge Controller.
- **Flexible Installation:** Can be installed in both vertical and inclined configurations to suit various applications.

Applications

- **Agriculture Irrigation:** Efficiently separates sand and other solid particles from water.
- **Industrial & Municipal Uses:** Removes contaminants from water in various industrial and municipal applications, ensuring clean and efficient water supply.

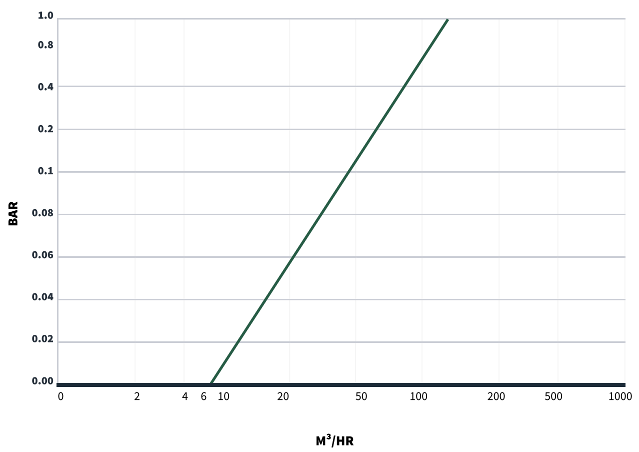
TECHNICAL DATA

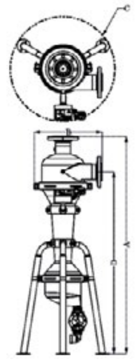
filter model	HydroProtec 90
Connection Size (Inlet/Outlet)	4’’/100mm
Connection type	Threaded (BSP/NPT) / Grooved / Flanged
Maximum Flow Rate* (M^3/HR)	90
Maximum . working Pressure	10
Material of Construction	All polymeric
Clamping	St.St. Clamp
Flush Port	1½’’ – Male Threaded Port (with Flush valve)

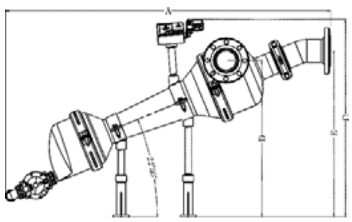
Dimensions

Model	Dimensions			Capacity of Collection Tank	
	A	B	C		
HydroProtec 90 (Vertical)	137	156	79	liter	11
HydroProtec 90 (Angular)	78	83	163		

Head Loss Chart







Keep in touch!

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