F2000 Media Filter

Product Information

Modular system

Unique double chamber underdrain

Five access ports for easy service and maintenance

Efficient backwash valve

Key Operating Guidelines

Maximum working pressure: 120 psi

Maximum pressure: 150 psi

Pressure differential: Not to exceed 7.5 psi

F2000 Media Filters (gravel or sand) provide the most effective and reliable filtration of water heavily contaminated with algae, organic matter, and other impurities found in open reservoirs, canals, and recycled water systems. The F2000 Media Filters use a bed of sand approximately sixteen inches deep to filter particles out of the water. Water passes through the open spaces between the sand particles. The sharp edges of the sand snag and trap the solid particles. The dirt particles trapped in the sand bed are removed during the backwash cycle. This dirt and backwash water is expelled from the tank into a disposal area.

Rivulis Irrigation

F2000 Media Filter

F2000 Media Filter Specifications

Product Dimensions

Model	D	H	H2	Configuration	Module Weight	Media Sand Weight
	(inch)	(inch)	(inch)		(lbs)*	(lbs)
36" Single module	40	76.5	14.4	1x36”	570	950
36" Double module	80.1	76.5	14.4	2x36”	1,240	
48" Single module	52	80.1	17	1x48”	990	1650
48" Double module	104	80.1	17	2x48”	2,050	

* Weight includes: Filters on skids, all manifolds & valves

Key Features

Modular System

Filters assembled on skids

Ready to connect as modules

Unique Under Drain

Even and dense distribution of slots in the

underdrain create uniform and thorough cleaning of the media during backflush

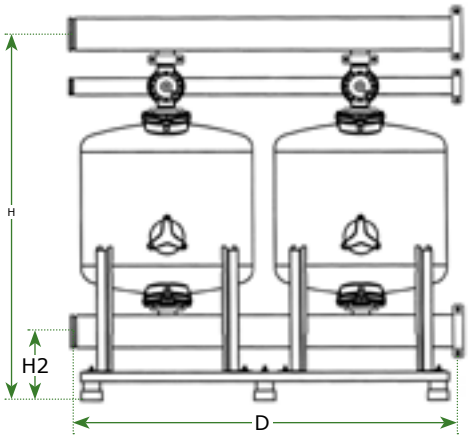
High Mushroom Diffusers count per filter

Large total slot open area

Large and uniform mean slot width

Easy to service threaded Mushroom Diffusers when media has been removed

Models 36”, 48”



Complete System

Components

Inlet, outlet, and backwash manifolds

Backup screen filter

Controller: AC or DC

Automatic flow control valve for backwash

Air release valves

Five Service Ports for Maintenance

1 on top

1 for the under drain

3 to remove media

Flow Recommendations

Model	Filtration Recommendation (gpm)			Backwash Recommendation (gpm)		
(inch)	Poor Water Quality (at 14-19 gpm/ft²)	Average water quality (at 18-25 gpm/ft²)	Good water quality (at 24-27 gpm/ft²)	Media - Basalt # 1 (at 32 gpm/ft²)	Media - Silica # 16 (at 21 gpm/ft²)	Media - Silica # 20 (at 15 gpm/ft²)
36	95 - 130	125 - 170	160 - 185	215	140	100
48	170-230	220-280	270-320	390	260	175

F2000 Media Filter

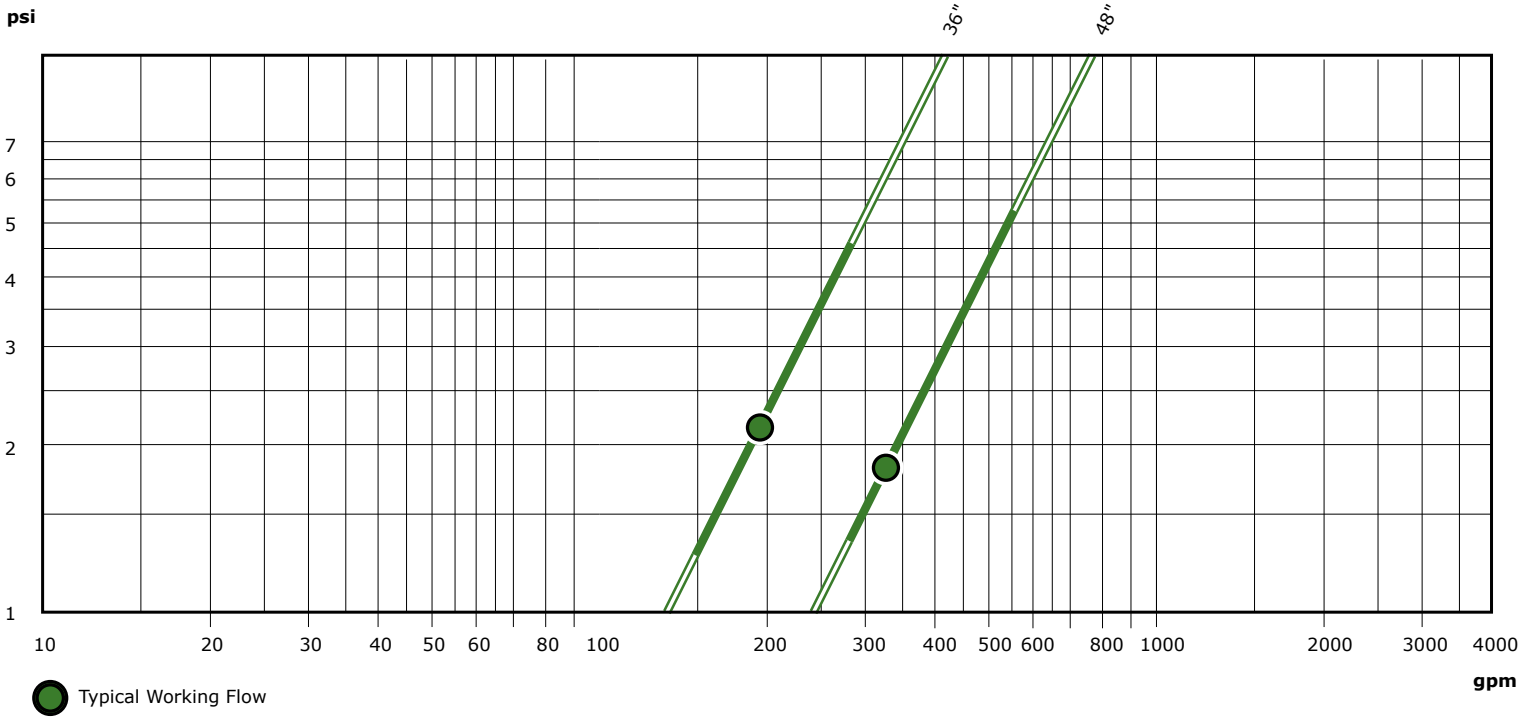
F2000 Media Filter Specifications

Head Loss Chart (psi) - 36” and 48” Body

Flow Rate (gpm)	100	125	175	200	225	250	275	300	400	500	600
Head Loss (psi) 36"	0.6	0.9	1.8	2.3	3	3.7	4.4	5.3	9.4		
Head Loss (psi) 48"			0.5	0.7	0.9	1.1	1.3	1.6	2.8	4.4	6.3

* Weight includes: Filters on skids, all manifolds & valves

Head Loss/Flow Rate



1 Efficient backwash valve

Benefit

Low head loss backwash valve enables F2000 media filter systems to backwash efficiently at lower pressure than most competitors.

Valve Cv during filtration: 240*

Valve Cv during backflush: 290

Pressure loss (psi) = (Flow (gpm)/Cv)² water @ 72F

* For 48” filters

2 Under Drain Features

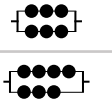
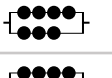
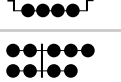
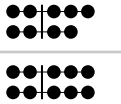
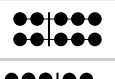
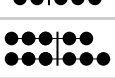
Size	Surface area	Mushroom Diffusers	
		Number	Slit area
(inch)	(ft²)		(in²)
36	6.8	42	29
48	12	72	50

Threaded Mushroom Diffusers

F2000 Media Filter

Item Number	Filter Diameter	Manifold Diameter	Number of Units	Standard Connection	Description
WT14298	36"	6"	1	VIC	Rivulis F2000 Media Filter modular array unit - 1x36" - VIC
WT14299	36"	6"	2	VIC	Rivulis F2000 Media Filter modular array unit - 2x36" - VIC
WT12855	48"	8"	1	VIC	Rivulis F2000 Media Filter modular array unit - 1x48" - VIC
WT12856	48"	8"	2	VIC	Rivulis F2000 Media Filter modular array unit - 2x48" - VIC

F2000 Media Filter - Complete filtration systems

Model	Item	Item	Number of Filters	Min. Flow	Max. Flow	Min. Backwash Flow	Configuration	Secondary Filter Diameter	Manifold Diameter
	(AC Model)	(DC Model)		(gpm)	(gpm)	(gpm)			
36″	WT14279	WT14281	2	320	370	140		4″	6″
	WT14283	WT14285	3	480	555	140		6″	6″
	WT14287	WT14289	4	640	740	140		6″	6″
48″	WT12614	WT12615	2	540	640	260		8″	8″
	WT12616	WT12617	3	810	960	260		8″	8″
	WT12618	WT12619	4	1080	1280	260		8″	8″
	WT12620	WT12621	5	1350	1600	260		8″	8″
	WT12622	WT12623	6	1620	1920	260		8″	8″
	WT12624	WT12625	6	1620	1920	260		8″	8″
	WT12626	WT12627	7	1890	2240	260		10″	10″
	WT12628	WT12629	8	2160	2560	260		10″	10″
	WT12630	WT12631	9	2430	2880	260		12″	12″
	WT12632	WT12633	10	2700	3200	260		12″	12″
	WT12634	WT12635	11	2970	3520	260		(2) 8″	12″
	WT12636	WT12637	12	3240	3840	260		(2) 10″	12″