



## ISM-Series Sand Media Filters

Removal of Solids Down to 20 Microns

Rain Bird ISM-Series Sand Media filters are designed for the most challenging dirty water conditions and are a high performance solution for water filtration down to 20 microns. These durable carbon steel filters utilize a 24" vertical side shell depth for removal of organic and inorganic suspended solids for filtering large volumes of water with very little pressure drop and are a long-term value. All Rain Bird industrial media filters utilize our simple backwash system for ease of operation and consistent water quality. The automatically controlled filter system operates for an extended period of time prior to a short backwash cycle.



### Applications

- Removal of organic and/or inorganic suspended solids down to 20 microns
- Storm water runoff, industrial process water, incoming plant water, waste water clean-up, industrial water for plant reuse
- Pre-filtration in applications such as granular activated carbon, reverse osmosis, cartridge or bag filtration and deionized water
- 80 psi standard operating pressure (high pressure systems available)
- Flow ranges from 10 gpm and up

### Advantages

- State of the art fabrication provides added strength under pressure and long system life
- ASME code shaped head construction for durability and safety
- Stainless steel wedgewire underdrain:
  - Ensures structural integrity in the harshest conditions
  - Hydraulically balanced to increase effectiveness of backwash while reducing flush frequency and waste of water
  - High strength stainless steel wedgewire will withstand a collapse pressure in excess of 600 psi

- Standard carbon steel products - 3/16" thick material
- Backwash automatically initiated by elapsed time or pressure differential
- Easy-entry lid closure with weld tabs for operator safety
- Available in welded carbon steel
- 3M Scotchkote® 134 fusion bonded epoxy coating on interior surfaces

### Standard product includes:

- Completely assembled for easy installation
- Skid mounted tanks
- Easy-entry lid closure with side manway
- Valves
- Inlet/outlet and backwash manifolds
- Controller, solenoids, electrical wire, tubing
- Removable underdrain
- 3M Scotchkote® 134 fusion bonded epoxy coating on interior surfaces

### Available options:

- ASME code
- High pressure
- Solar package
- PLC controller
- Custom filter station layout piping
- Air scour

INDUSTRIAL & MUNICIPAL

## ISM-Series Sand Media Filters Specifications

Model	Number of Tanks in System	Standard Flow Ranges				Filtration Surface Area (Total sq ft)	Backwash Flow Rate (per tank)		Media Requirements (cubic feet per tank)		Maximum Pressure	Inlet/ Outlet Pipe Size  (in)	Backwash Line Pipe Size  (in)
		Minimum Flow		Maximum Flow			gpm	m <sup>3</sup> /hr	Gravel (1/2" - 3/4")	Media			
		gpm	m <sup>3</sup> /hr	gpm	m <sup>3</sup> /hr								
ISM-1824-1A	1	18	4	26	6	1.75	26	6	1	3	100 psi	2"	2"
ISM-2424-1A	1	32	7	47	11	3.15	47	11	2	5	100 psi	2"	2"
ISM-1824-2A	2	35	8	53	12	3.50	26	6	2	5	100 psi	3"	2"
ISM-3024-1A	1	49	11	74	17	4.91	74	17	3	7	100 psi	3"	3"
ISM-1824-3A	3	53	12	79	18	5.25	26	6	3	8	100 psi	3"	2"
ISM-2424-2A	2	63	14	95	22	6.30	47	11	3	9	100 psi	3"	2"
ISM-3624-1A	1	71	16	107	24	7.10	107	24	4	10	100 psi	3"	3"
ISM-2424-3A	3	95	22	142	32	9.45	47	11	5	14	100 psi	3"	2"
ISM-3024-2A	2	98	22	147	33	9.82	74	17	5	14	100 psi	4"	2"
ISM-4824-1A	1	126	29	189	43	12.60	189	43	7	21	80 psi	4"	4"
ISM-3624-2A	2	142	32	213	48	14.20	107	24	8	20	100 psi	4"	4"
ISM-3024-3A	3	147	33	221	50	14.73	74	17	8	21	100 psi	4"	2"
ISM-5424-1A	1	159	36	238	54	15.90	239	54	10	23	80 psi	4"	4"
ISM-3624-3A	3	213	48	320	73	21.30	107	24	12	30	100 psi	4"	4"
ISM-4824-2A	2	252	57	378	86	25.20	189	43	14	42	80 psi	6"	4"
ISM-5424-2A	2	318	72	476	108	31.80	239	54	19	46	80 psi	6"	4"
ISM-4824-3A	3	378	86	567	129	37.80	189	43	21	63	80 psi	6"	4"
ISM-5424-3A	3	477	108	714	162	47.70	239	54	29	69	80 psi	6"	4"
ISM-4824-4A	4	504	115	756	172	50.40	189	43	28	84	80 psi	8"	4"
ISM-4824-5A	5	630	143	945	215	63.00	189	43	35	105	80 psi	10"	4"
ISM-4824-6A	6	756	172	1134	258	75.60	189	43	42	126	80 psi	10"	4"
ISM-5424-4A	4	636	145	952	216	63.60	239	54	38	92	80 psi	8"	4"
ISM-5424-5A	5	795	181	1190	270	79.50	239	54	48	115	80 psi	10"	4"
ISM-5424-6A	6	954	217	1428	325	95.40	239	54	57	138	80 psi	10"	4"

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The Intelligent Use of Water™