

Large-Capacity Filters

Large-Capacity high flow and low maintenance with a solid build

Features

- Provides extra large filtration capacity for residential, commercial, and municipal applications
- Durable filters can be easily removed for cleaning, significantly reducing cleaning time
- Disc filters can decompress for easy cleaning
- Auxiliary connection with a threaded cap can be drilled to allow draining or depressurization

Operating Range

- 1" Model: Maximum flow: Up to 26 gpm (6 m³/hr)
 - Filtering surface (disc): 28 in² (180cm²)
- 1.5" Models: Maximum flow: Up to 62 gpm (14 m³/hr)
 - Filtering surface (disc): 48 in² (310 cm²)
 - Filtering surface (screen): 42 in² (270 cm²)
- 2" Models: Maximum flow: Up to 110 gpm (25 m³/hr)
 - Filtering surface (disc): 81 in² (525 cm²)
 - Filtering surface (screen): 75 in² (485 cm²)
- Maximum Pressure: 116 psi (8 bar)
- Maximum Temperature: Up to 140° F (60° C)

Models

- LCRBY100D - 1" Large-Capacity Disc Filter
- LCRBY150S - 1.5" Large-Capacity Screen Filter
- LCRBY150D - 1.5" Large-Capacity Disc Filter
- LCRBY200S - 2" Large-Capacity Screen Filter
- LCRBY200D - 2" Large-Capacity Disc Filter

Specifications

- Inlet / Outlet Size:
 - 1" Models: 1" NPT
 - 1.5" Models: 1.5" NPT
 - 2" Models: 2" NPT

Dimensions

- 1": (6.8" H x 7.5" W x 3.3" D)
- 1.5": (9.5" H x 10.3" W x 5.7" D)
- 2": (9.7" H x 10.6" W x 5.7" D)

Filtration

- Stainless Steel Screen Filter: 120 Mesh (130 Micron)*
- Plastic Filter Discs: 120 Mesh (130 Micron)

*Screen not available in 1" model

Replacement Filters

- | | |
|-------------|---------------|
| Disc | Screen |
| • LGFC120MD | • LGFC120MS |



LCRBY200D



Disc & Screen Filters

Pressure Loss Characteristics - Disc Filter

Flow Rate gpm	l/m	1" Filter		1.5" Filter		2" Filter	
		psi	bar	psi	bar	psi	bar
5	18.93	0.60	0.04	0.08	0.01	0.10	0.01
11	41.67	1.16	0.08	0.18	0.01	0.10	0.01
22	83.33	2.61	0.18	0.40	0.03	0.10	0.01
33	125.0	4.35	0.30	0.73	0.05	0.24	0.02
44	166.67	—	—	1.05	0.07	0.40	0.03
55	208.33	—	—	1.50	0.10	0.60	0.04
66	250.00	—	—	2.18	0.15	0.82	0.06
77	291.67	—	—	3.10	0.21	1.10	0.08
88	333.33	—	—	3.95	0.27	1.60	0.11
99	375.00	—	—	—	—	2.03	0.14
110	416.67	—	—	—	—	2.47	0.17

Pressure Loss Characteristics - Screen Filter

Flow Rate gpm	l/m	1" Filter		1.5" Filter		2" Filter	
		psi	bar	psi	bar	psi	bar
5	18.93	0.80	0.06	0.00	0.00	0.00	0.00
11	41.67	1.74	0.12	0.00	0.00	0.00	0.00
22	83.33	2.90	0.20	0.50	0.03	0.20	0.01
33	125.0	4.06	0.28	0.95	0.07	0.25	0.02
44	166.67	—	—	1.45	0.10	0.44	0.03
55	208.33	—	—	1.89	0.13	0.60	0.04
66	250.00	—	—	2.32	0.16	0.87	0.06
77	291.67	—	—	2.76	0.19	1.16	0.08
88	333.33	—	—	3.19	0.22	1.45	0.10
99	375.00	—	—	—	—	1.89	0.13
110	416.67	—	—	—	—	2.32	0.16

Note: Body dimensions are available on the Rain Bird website.

Note: Filter must be installed downstream of the valve, to prevent the filter from being under constant pressure.