

Basket Filter

Commercial-Grade Filters for Low-Volume Irrigation Zones

Technical Specifications



QKCHK-100

PRB-100

Rain Bird Basket Filters are available with a built in pressure regulator and/or a clean/dirty indicator.

APPLICATIONS:

This filter can be used for low-volume irrigation zones in both residential and light commercial applications.

FEATURES:

All Basket Filters

- Threaded top makes it easy to remove and clean the stainless steel element.
- “No Spill” feature ensures that dirt and debris does not fall out of the basket filter element when you remove it for cleaning.
- Rugged design incorporates four Buna N o-rings for leak-free performance and is rated up to 150 psi.

Integrated Pressure Regulation (Select Models)

- Combines filtration and pressure regulation in one compact unit.
- Fewer connection points means less chance of leaking.
- Combined parts mean less assembly time, and compact size means smaller valve boxes.

Quick-Check Indicator Feature (Select Models)

- During regular operation, the Quick-Check indicator bubble remains a vibrant green.
- When debris accumulates to a level where significant pressure loss occurs, the indicator bubble switches to bright red and the filter needs to be cleaned.

OPERATING RANGE

Operating Flow Rate

0.3 to 20 gpm (1.13 to 75.7 l/m)

Diagnostic Flow Range

(Quick-Check models only): 3.0 - 20 gpm (11.3 - 75.7 l/m)

Inlet Pressure

0 to 150 psi (0 to 10.3 bar)

Regulated Outlet Pressure

(select models only) 40 psi (2.8 bar)

Filtration

150 mesh (100 Micron)
stainless steel filter included

Water Temperature

33°F to 110°F (0.5°C to 43°C)

MODELS

PRB-100: 1" NPT threaded Basket Filter with built-in Pressure Regulator (40 psi) and 150 mesh (100 micron) stainless steel screen

IPRB-100: 1" BSP threaded Basket Filter with built-in Pressure Regulator (40 psi) and 150 mesh (100 micron) stainless steel screen

QKCHK-100: 1" NPT threaded Quick-Check Basket Filter with 150 mesh (100 micron) stainless steel screen

PRB-QKCHK-100: 1" NPT threaded Quick-Check Basket Filter with built-in Pressure Regulator (40 psi) and 150 mesh (100 micron) stainless steel screen

IPRB-QKCHK-100: 1" BSP threaded Quick-Check Basket Filter with built-in Pressure Regulator (40 psi) and 150 mesh (100 micron) stainless steel screen

QKCHKCAP: Quick-Check Basket Filter Cap and O-ring

DIMENSIONS

Without Quick-Check With Quick-Check

Length

6.9 in (17.5 cm)

Width

3.5 in (8.8 cm)

Height

6 in (15.2 cm)

Length

6.9 in (17.5 cm)

Width

3.5 in (8.8 cm)

Height

6.8 in (17.3 cm)

REPLACEMENT STAINLESS STEEL FILTERS

QKCHK-120M: 120 mesh (125 micron) stainless steel screen, green

QKCHK-150M: 150 mesh (100 micron) stainless steel screen, blue

QKCHK-200M: 200 mesh (75 micron) stainless steel screen, white

SPECIFICATIONS:

The Basket Filter shall provide for continuous filtration and pressure regulation (on selected models) of the drip zone when the Basket Filter is connected to a valve and any 24-VAC controller or Rain Bird battery-operated controller. The Basket Filter shall be pressure rated to 150 psi to permit installation downstream of the control valve(s).

All parts shall be molded plastic, stainless steel, rubber or other non-corrosive materials. The body of the unit shall be constructed of impact resistant glass-filled polypropylene and the cap of glass-filled nylon. The body of the filter will have the inlet and outlet inline at the bottom. The body shall have male inlet and outlet threads. The top cap shall be removable by hand for access to the filter for maintenance.

For optimum filtration and system performance, The body of the Filter shall be a vertical cylinder and shall incorporate a stainless steel screen element with a basket design with a trap at the bottom to capture debris and prevent the debris from falling into the downstream line during routine maintenance.

The screen element shall be reinforced with polypropylene ribs to increase durability and the screen element shall be color-coded for easy identification of mesh size. The filter media shall be available in 120 mesh (green), 150 mesh (blue) and 200 mesh (white).

Pressure Regulating Models

When present, the pressure regulator mechanism shall be preset to a fixed pressure (40 psi / 2.8 bar) and integrated to the filter body. The PR Filter shall be capable of operating flow rates of 0.3 gpm to 20.0 gpm (1.13 to 75.7 l/m).

Quick-Check Indicator Models

The unit shall incorporate a UV resistant polyurethane indicator window as part of the cover that shows when the filter needs to be cleaned. During regular operation, the Quick-Check indicator remains a vibrant green. When debris accumulates to a level where significant pressure loss occurs, the indicator bubble switches to bright red and the filter needs to be cleaned.

QUICK-CHECK FILTER:



PRESSURE LOSS CHARACTERISTICS:

Quick-Check & PRB-100			
Minimum Inlet Pressure for 40 PSI outlet pressure (±10%)		Minimum Inlet Pressure for 2.8 bar outlet pressure (±10%)	
FLOW (GPM)	PRESSURE (PSI)	FLOW (LPM)	PRESSURE (BAR)
5	45	20	3.2
6	46	25	3.3
7	47	30	3.4
8	48	35	3.5
9	49	40	3.6
10	51	45	3.7
11	52	50	3.8
12	53	55	3.9
13	54	60	3.9
14	55	65	4.0
15	56	70	4.1
16	58	75	4.2
17	59	-	-
18	60	-	-
19	61	-	-
20	62	-	-

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