

Wide Flow Control Zone Kits with Basket Filter

XCZ-100-PRB-LC | **XCZ-100-PRB-R** | XCZ-100-PRB-COM | XCZ-100-IVMQ

Technical Specifications



XCZ-100-PRB-LC

1" Wide Flow Control Zone Kit
for Light Commercial



XCZ-100-PRB-R

1" Wide Flow Control Zone Kit
(Non-Potable)



XCZ-100-PRB-COM

1" Wide Flow Control Zone Kit
with Quick-Check
Basket Filter



XCZ-100-IVMQ

1" Wide Flow Control Zone
Kit with Quick-Check
Basket Filter and
IVM Solenoid

Commercial grade control zones engineered to conquer every application from the purest water source to the harshest environment and everywhere in between. All models include a no-spill filter with pressure regulation.

FEATURES:

- **Wide Range:** Includes the flexible and proven PEB/PESB series valve with wide flow range. Purple marked model available for non-potable or recycled water.
- **Easy Clean Filter:** Basket filter with "no-spill" feature ensures dirt does not fall back into the filter during cleanup operation. Upgrade option to Quick-Check Basket Filter: provides an additional clean/dirty indicator.
- **Easy Shut Off:** Models that include a manual ball valve are easy to service without shutting off other zones.

OPERATING RANGE

Operating Flow Range*

3 to 20 gpm; (11 to 75 l/m)

Min Diagnostic Flow

XCZ-100-PRB-LC: n/a

XCZ-100-PRB-R: n/a

XCZ-100-PRB-COM: 3 gpm

XCZ-100-IVMQ: 3 gpm

Inlet Pressure

15 to 150 psi; (1,0 to 10,3 bar)

Regulated Pressure:

40 psi (2.8 bar)

DIMENSIONS

XCZ-100-PRB-LC: 12" Length

XCZ-100-PRB-R: 10.5" Length

XCZ-100-PRB-COM: 14" Length

XCZ-100-IVMQ: 15.5" Length

OTHER SPECIFICATIONS

Valve

XCZ-100-PRB-LC: 100PEB

XCZ-100-PRB-R: 100PESBR

XCZ-100-PRB-COM: 100PESB & ball valve

XCZ-100-IVMQ: 100PESBIVM & ball valve

Filter

XCZ-100-PRB-LC: Basket Filter; 150 mesh (100 micron)

XCZ-100-PRB-R: Basket Filter; 150 mesh (100 micron)

XCZ-100-PRB-COM: Quick-Check Basket Filter; 150 mesh (100 micron)

XCZ-100-IVMQ: Quick-Check Basket Filter; 150 mesh (100 micron)

Flow Rate Capability**

20 to 1300 ft (6 to 396 m) of dripline

Valve Box

Standard Rectangular

Warranty

3 years

Controller Compatibility

- Compatible with traditionally-wired controllers.
- Compatible with TBOS / DC controller when used with DC Latching solenoid.
- Compatible with IVM controllers (ESP-LXIVM/LXIVMP) when used with IVM solenoid.
- Compatible with 2-wire decoder systems like ESP-LXD controller.

Replacement Filter

QKCHK120M (Green)

QKCHK150M (Blue)

QKCHK200M (White)

Inlet Size

1" x 1" NPT

ADDITIONAL SPECIFICATION NOTES:

*For flows below 5 gpm Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm

**0.9 gph dripline with 12" emitter spacing

SPECIFICATIONS:

The control zone kit shall contain from 2 to 4 pieces: an integrated Pressure-Regulating Filter (PR Filter – models vary); a valve, a ball valve (selected models, not selected optional); a SCH40 Riser Extender (selected models).

The body of the PR Filter shall be a vertical cylinder with a filter inside and 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.

The filter shall be removable by hand for cleaning and have a trap at the bottom so it may be removed without debris falling into the outlet. The filter media shall be stainless steel and shall be available in 120 mesh (green), 150 mesh (blue) and 200 mesh (white).

The pressure regulator mechanism shall be preset to a fixed pressure (40 psi / 2.8 bar) and integrated to the filter body. All parts shall be molded plastic, stainless steel, rubber or other non-corrosive materials.

For Quick-Check Basket Filter Model

The unit shall incorporate an indicator window as part of the cover that shows when the filter needs to be cleaned.

The control zone kits shall have an automatic irrigation control valve. The electric remote control valve shall be a normally closed 24 VAC 50/60 Hz (cycles/sec) solenoid actuated globe pattern design. The valve pressure rating shall not be less than 200 psi (13.80 bar). The valve shall be operated at the following specifications for this kit: _____

The valve body shall be constructed of heavy-duty, glass-filled, UV-resistant nylon and have stainless steel studs and flange nuts; diaphragm shall be of nylon reinforced nitrile rubber. The valve construction shall be such as to provide for all internal parts to be removable from the top of the valve without disturbing the valve installation.

The valve shall have both internal and external manual open/close control (internal and external bleed) to open and close the valve without electrically energizing the solenoid. The valve's internal bleed shall prevent flooding of the valve box. The valve shall house a fully-encapsulated, one-piece solenoid.

The solenoid shall have a captured plunger with a removable retainer for easy servicing and a leverage handle for easy turning. This 24 VAC 50/60 Hz valve solenoid shall open with 19.6 VAC minimum at 200 psi (13.80 bar). At 24 VAC, average inrush current shall not exceed 0.41 amps. Average holding current shall not exceed 0.28 amps.

The valve shall have a brass flow control stem for accurate manual regulation and/or shut-off of outlet flow. The valve must open or close in less than 1 minute at 200 psi (13.80 bar), and less than 30 seconds at 20 psi (1.38 bar).

The PESB-R valve shall have a self-cleaning stainless steel screen designed for use in dirty water applications.

The control zone kits shall be manufactured by Rain Bird Corporation, Azusa, CA.

| XCZ-100-PRB-COM, XCZ-100-IVMQ, XCZ-100-PRB-LC | | | |
|--|----------------|---|----------------|
| 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 | 47 | 20 | 3.3 |
| 6 | 48 | 25 | 3.4 |
| 7 | 49 | 30 | 3.5 |
| 8 | 50 | 35 | 3.6 |
| 9 | 51 | 40 | 3.7 |
| 10 | 52 | 45 | 3.8 |
| 11 | 54 | 50 | 3.9 |
| 12 | 55 | 55 | 4.0 |
| 13 | 56 | 60 | 4.1 |
| 14 | 58 | 65 | 4.2 |
| 15 | 59 | 70 | 4.3 |
| 16 | 60 | 75 | 4.4 |
| 17 | 61 | - | - |
| 18 | 63 | - | - |
| 19 | 64 | - | - |
| 20 | 65 | - | - |

| XCZ-100-PRB-R | | | |
|--|----------------|---|----------------|
| 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 | 48 | 20 | 3.4 |
| 6 | 49 | 25 | 3.5 |
| 7 | 50 | 30 | 3.6 |
| 8 | 51 | 35 | 3.7 |
| 9 | 52 | 40 | 3.8 |
| 10 | 54 | 45 | 3.9 |
| 11 | 55 | 50 | 4.0 |
| 12 | 56 | 55 | 4.1 |
| 13 | 57 | 60 | 4.2 |
| 14 | 58 | 65 | 4.3 |
| 15 | 59 | 70 | 4.4 |
| 16 | 61 | 75 | 4.5 |
| 17 | 62 | - | - |
| 18 | 63 | - | - |
| 19 | 64 | - | - |
| 20 | 65 | - | - |

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