Wide Flow Control Zone Kits
with Basket Filter

TECHNICAL SPECIFICATIONS

XCZ-100-PRBLC
XCZ-100-PRBR
XCZ-100-PRBCOM
XCZ-100-FLOW
XCZ-100-IVM

Commercial grade control zone 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. 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 Flow Indicating Basket Filter: provides an additional flow measurement feature
- **Easy Shut Off:** Models including ball valve make shut off water to the valve for maintenance simple, without haven't to shut down from the main source. Convenient for systems with multiple zones.

MODELS:

XCZ-100-PRBLC
1" Wide Flow Control Zone Kit for Light Commercial

XCZ-100-PRBR
1" Wide Flow Control Zone Kit (Non-Potable)

XCZ-100-PRBCOM
1" Wide Flow Control Zone Kit with Quick-Check Basket Filter

XCZ-100-FLOW
1" Wide Flow Control Zone Kit with Flow-Indicating Basket Filter

XCZ-100-IVM
1" Wide Flow Control Zone Kit with Flow-Indicating Basket Filter and IVM

OPERATING RANGES:

Operating Flow Range**
0.3 to 20 gpm; (1.13 to 75.71 l/m)

Min Diagnostic Flow
XCZ-100-PRBLC: n/a
XCZ-100-PRBR: n/a
XCZ-100-PRBCOM: 3gpm
XCZ-100-FLOW: 3gpm
XCZ-100-IVM: 3gpm

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

Regulated Pressure:
40 psi (2.8 bar)

OTHER SPECIFICATIONS:

Valve
XCZ-100-PRBLC: 100PEB
XCZ-100-PRBR: 100PESBR
XCZ-100-PRBCOM: 100PESB & ball valve
XCZ-100-FLOW: 100PESB & ball valve
XCZ-100-IVM: 100PESBIVM & ball valve

Filter Type
XCZ-100-PRBLC: Basket Filter; 200 mesh (75 micron)
XCZ-100-PRBR: Basket Filter; 200 mesh (75 micron)
XCZ-100-PRBCOM: Quick-Check Basket Filter; 200 mesh (75 micron)
XCZ-100-FLOW: Flow-Indicating Basket Filter; 150 mesh (100 micron)
XCZ-100-IVM: Flow-Indicating Basket Filter; 150 mesh (100 micron)

Flow Rate Capability*
20 to 1300 ft (6 to 396m) of dripline

Valve Box
Mini-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/LX-IVMP) when used with IVM SOL
- Compatible with 2-wire decoder systems like ESP-LXD controller.

Dimensions
XCZ-100-PRBLC: 12" Length
XCZ-100-PRBR: 10.5" Length
XCZ-100-PRBCOM: 14" Length
XCZ-100-FLOW: 14" Length
XCZ-100-IVM: 14" Length

Replacement Filter
FLOW120M (Green)
FLOW150M (Blue)
FLOW200M (White)

Inlet Size
1" x 1" NPT

ADDITIONAL SPECIFICATION NOTES:

*0.9 gph dripline with 12" emitter spacing

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

RAIN BIRD®

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.

For Flow Indicating Basket Filter Model

The unit shall incorporate a flow indicator as part of the cover. The dial shall be shown in 5 GPM or 10 L/m increments on a linear scale. The dial shall have a water-tight, clear-domed cover. The top cover ring shall be adjustable by lifting, rotating and pushing down to mark the appropriate flow rate for the zone and to check flow rate changes in the future.

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-PRBLC

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure

FLOW		INLET PRESSURE	
gpm	l/m	psi	bar
0.3	1.1	41.0	2.8
1.0	3.8	41.5	2.9
5.0	18.9	43.0	2.9
10.0	37.9	48.0	3.3
15.0	56.8	56.0	3.8
20.0	75.7	65.0	4.5

XCZ-100-PRBR

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure

FLOW		INLET PRESSURE	
gpm	l/m	psi	bar
0.3	1.1	41.0	2.8
1.0	3.8	41.5	2.9
3.0	11.4	42.0	2.9
5.0	18.9	45.0	3.1
10.0	37.9	49.0	3.4
15.0	56.8	57.0	3.9
20.0	75.7	62.5	4.3

XCZ-100-PRB-COM

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure

FLOW		INLET PRESSURE	
gpm	l/m	psi	bar
0.3	1.1	41.0	2.8
1.0	3.8	41.5	2.9
3.0	11.4	42.0	2.9
5.0	18.9	44.0	3.0
10.0	37.9	47.3	3.3
15.0	56.8	53.0	3.6
20.0	75.7	62.5	4.3

XCZ-100-FLOW & XCZ-100-IVM

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure

FLOW		INLET PRESSURE	
gpm	l/m	psi	bar
1.0	3.8	46.4	3.2
5.0	18.9	54.4	3.8
8.0	30.2	57.0	3.9
10.0	37.8	62.6	4.3
12.0	45.4	66.8	4.6
15.0	56.7	74.0	5.1

Rain Bird Corporation 6991
East Southpoint Road
Tucson, AZ 85756
Ph: (520) 741-6100
F: (520) 741-6522

Rain Bird Corporation
970 West Sierra Madre Avenue
Azusa, CA 91702
Ph: (626) 812-3400
F: (626) 812-3411

Rain Bird International, Inc.
1000 West Sierra Madre Avenue
Azusa, CA 91702
Ph: (626) 963-9311
F: (626) 852-7343

Rain Bird Technical Services
(800) RAINBIRD (1-800-724-6247)
U.S. & Canada

Specifications Hotline
800-458-3005
U.S. & Canada

The Intelligent Use of Water™
www.rainbird.com