Control Zone Kit Selection Guide

RESIDENTIAL CONTROL ZONE KITS

XCZ-075-PRF
FLOW: 0.2 - 5 gpm

XCZLF-100-PRF
FLOW: 0.2 - 10 gpm

XACZ-075-PRF
FLOW: 0.2 - 5 gpm

Residential Low Flow: 0.2 - 10 gpm   Pages 161, 164

XCZ-100-PRF
FLOW: 3 - 15 gpm

XCZPGA-100-PRF
FLOW: 3 - 15 gpm

XACZ-100-PRF
FLOW: 3 - 15 gpm

Residential Medium Flow: 3 - 15 gpm   Pages 162 - 164

COMMERCIAL CONTROL ZONE KITS

XCZ-100-PRB-LC
FLOW: 0.3 - 20 gpm

XCZ-100-PRB-COM
FLOW: 0.3 - 20 gpm

XCZ-100-PRB-R
FLOW: 0.3 - 20 gpm

XCZ-100-FLOW
FLOW: 0.3 - 20 gpm

XCZ-100-IVM
FLOW: 0.3 - 20 gpm

Commercial Wide Flow: 0.3 - 20 gpm   Page 165

XCZ-150-LCS
FLOW: 15 - 62 gpm

XCZ-150-LCDR
FLOW: 15 - 62 gpm

Commercial High Flow: 15 - 62 gpm   Page 167

Drip Irrigation

Control Zone Kits

Rain Bird Control Zone Kits provide all of the components necessary for on/off control, filtration, and pressure regulation in a single package, making them simple to order and easy to install.

- Most reliable kits, and contain revolutionary products such as the Low Flow Valve and Quick Check Basket Filter
- All kits in every category use the innovative PR Filter which combines the filter and pressure regulator into one unit.

- Rain Bird offers the most complete line of Control Zone Kits, giving contractors and specifiers the flexibility to meet every need from 0.2 to 40 gpm. Choose from:
- ¾", 1" or 1½" inlet opening
- Low Flow Valve, Anti-Siphon Valve, DV Valve, or PESB Valve
- Contains cutting-edge products such as the Low Flow Valve and Flow Indicating Basket Filter. Every kit uses the revolutionary PR Filter which combines the filter and pressure regulator into one unit.

Use the chart below to identify the most appropriate kit or see pages 161 - 167 for specific detailed information on these kits and their individual components. Also available is the interactive Control Zone Kit Pyramid Selection Guide for selection and detailed specification information; found at www.rainbird.com/professionals/products/drip-control

Control Zone Selection Chart

Model	Flow Rate	Flow rate capability (.9 gph dripline with 12" emitter spacing)	Valve Type	2-Wire Compatible	Filtration Type	Pressure Regulator	Inlet/ Outlet Size	Size	Minimal Valve Box Size
Commercial Control Zone Kits									
XCZ-150-LCS	15-62 GPM	1000 to 4000 feet of dripline	150-PEB		120 Mesh Disc Filter (130 Micron)	40 psi	1.5" x 1.5"	20.5" Length	Jumbo Rectangular
XCZ-100-FLOW	0.3-20 GPM	20 to 1300 feet of dripline	100-PESB	Yes	150 Mesh Disc Filter (100 Micron)	40 psi	1" x 1"	14" Length	Mini- Standard Rectangular
XCZ-100-PRB-COM					200 Mesh Stainless Steel (75 Micron)				
XCZ-100-PRB-LC			100-PEB					12" Length	
Commercial Control Zone Kits for Reclaimed Water									
XCZ-150-LCDR	15-62 GPM	1000 to 4000 feet of dripline	150-PESBR	Yes	120 Mesh Disc Filter (130 Micron)	40 psi	1.5" x 1.5"	23.5" Length	Jumbo Rectangular
XCZ-100-PRBR	0.3-20 GPM	20 to 1300 feet of dripline	100-PESBR	Yes	200 Mesh Stainless Steel (75 Micron)		1" x 1"	10.5" Length	Mini- Standard Rectangular
Residential Control Zone Kits									
XCZPGA-100-PRF	3-15 GPM	200 to 1000 feet of dripline	100-PGA	Yes	200 Mesh Stainless Steel (75 Micron)	40 psi	1" x 1"	11" Length	Mini- Standard or 10" Round
XCZ-100-PRF			100-DV					10" Length	
XCZLF-100-PRF	0.2-10 GPM	13 to 650 feet of dripline	LFV-100	No					
XCZ-075-PRF	0.2-5 GPM	13 to 300 feet of dripline	LFV-075			30 psi	3/4" x 3/4"		
Residential Control Zone Kits with Anti-Siphon									
XACZ-100-PRF	3-15 GPM	200 to 1000 feet of dripline	100-ASV	No	200 Mesh Stainless Steel (75 Micron)	40 psi	1" x 1"	14" Height	—
XACZ-075-PRF	0.2-5 GPM	13 to 300 feet of dripline	ASV-LFV-075			30 psi	3/4" x 3/4"		

Water Saving $ Combine a Xerigation® Control Zone Kit with a Rain Bird controller product to precisely regulate zone watering times.

Drip Irrigation

The Intelligent Use of Water.™

Low Flow Residential Control Zone Kits

■ **Optimized for Low Flow:** Includes the field-proven Low Flow Valve, the only valve on the market that can handle low flows (below 3 gpm) without weeping

■ **Compact Solution:** Shorter kits with only two components (valve plus pressure-regulating filter) mean that you can fit more Control Zone Kits in a valve box, saving time and money.

■ **Long-term Reliability:** These preassembled kits with PR Filters provide on/off control, filtration, and pressure regulation with only two parts; so there is less chance of leakage at the connections, both at installation and over the life of the system

Operating Range

• Flow Range
  - XCZ-075-PRF: 0.2 to 5.0 gpm; (0.8 to 18.91 l/m)
  - ICZ-075-9V: 0.2 to 5.0 gpm; (0.8 to 18.91 l/m)
  - XCZ-LF-100-PRF: 0.2 to 10.0 gpm; (0.8 to 37.85 l/m)
• Inlet Pressure: 20 to 150 psi: (1.4 to 10.3 bar)
• Regulated Pressure
  - XCZ-075-PRF: 30psi (2.1 bar)
  - ICZ-075-9V: 30psi (2.1 bar)
  - XCZ-LF-100-PRF: 40 psi (2.8 bar)

Specifications

• Filter Type: Stainless steel screen filter; 200 mesh (75 micron)
• Flow Rate Capability*: 13 to 300 ft (4 to 91m) of dripline
• Valve Box: Mini-Standard or 10" Round
• Inlet Size:
  - XCZ-075-PRF: 3/4" x 3/4" NPT
  - ICZ-075-9V: 3/4" x 3/4" NPT/BSP
  - XCZ-LF-100-PRF: 1" x 1" NPT
• 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 SOL
• Not compatible with 2-wire decoder systems like the ESP-LXD controller

Models

• XCZ-075-PRF: ¾" Low Flow Valve with ¾" PR RBY Filter (Assembled)
• ICZ-075-9V: ¾" Low Flow Control Zone Kit with TBOS solenoid (BSP)
• XCZLF-100-PRF: 1" Low Flow Valve with 1" PR RBY Filter (Assembled)

Replacement Filter

• RBY-200SSMX (200 mesh stainless steel screen)

0.9 gph dripline with 12" emitter spacing

Minimum Inlet Pressure for 30psi (2.1 bar) outlet pressure			
		XCZ-075-PRF	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (bar)
0.2	0.8	34.4	2.4
1.0	3.8	36.1	2.5
3.0	11.4	38.1	2.6
5.0	18.9	43.4	3.0

Minimum Inlet Pressure for 30psi (2.1 bar) outlet pressure			
		ICZ-075-9V	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (bar)
0.2	0.8	34.4	2.4
1.0	3.8	36.1	2.5
3.0	11.4	38.1	2.6
5.0	18.9	43.4	3.0

Minimum Inlet Pressure for 40psi (2.8 bar) outlet pressure			
		XCZLF-100-PRF	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (bar)
0.2	0.8	44.4	3.1
1.0	3.8	44.4	3.1
3.0	11.4	45.0	3.1
5.0	18.9	46.2	3.2
10.0	37.9	52.2	3.6

Comes Assembled!

XCZ-075-PRF

Comes Assembled!

XCZLF-100-PRF

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Medium Flow Residential Control Zone Kits

■ **Versatility:** Preassembled control Zone kit with popular DV Series Valve

■ **Compact Solution:** The pressure regulating RBY filter provides the protection of downstream components you need in a low-volume system, in a compact design

■ **Long-term Reliability:** These preassembled kits with PR Filters provide on/off control, filtration, and pressure regulation with only two parts; so there is less chance of leakage at the connections, both at installation and over the life of the system

Operating Range

- Flow Range: 3 to 15 gpm; (11.4 to 56.8 l/m)
- Inlet Pressure: 20 to 150 psi: (1.4 to 10.3 bar)
- Regulated Pressure: 40 psi (2.8 bar)

Specifications

- Filter Type: Stainless steel screen filter; 200 mesh (75 micron)
- Flow Rate Capability*: 200 to 1000 ft (61 to 304m) of dripline
- Valve Box: Mini-Standard or 10" Round
- Inlet Size: 1" x 1" NPT
- 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 SOL
- Not compatible with 2-wire decoder systems like the ESP-LXD controller

Models

- XCZ-100-PRF: 1" Medium Flow Control Zone Kit
- IXCZ-100-PRF: 1" Medium Flow Control Zone Kit (BSP)
- ICZ-100-9V: 1" Medium Flow Control Zone Kit with TBOS solenoid (BSP)

Replacement Filter

- RBY-200SSMX (200 mesh stainless steel screen)

*0.9 gph dripline with 12" emitter spacing

Minimum Inlet Pressure for 40psi (2.8 bar) outlet pressure			
		XCZ-100-PRF	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (bar)
3.0	11.4	42.9	3.0
5.0	18.9	44.1	3.0
10.0	37.9	48.5	3.3
15.0	56.8	55.5	3.8

Minimum Inlet Pressure for 40psi (2.8 bar) outlet pressure			
		IXCZ-100-PRF	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (bar)
3.0	11.4	45.8	3.2
5.0	18.9	47.0	3.2
10.0	37.9	50.7	3.5
15.0	56.8	57.6	4.0

Minimum Inlet Pressure for 40psi (2.8 bar) outlet pressure			
		ICZ-100-9V	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (bar)
3.0	11.4	45.8	3.2
5.0	18.9	47.0	3.2
10.0	37.9	50.7	3.5
15.0	56.8	57.6	4.0

Comes Assembled!

XCZ-100-PRF

The Intelligent Use of Water.™

Wide Flow Control Zone Kits with Basket Filter

- **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.

Operating Range

- 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)

Specifications

- 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
- Inlet Size: 1" x 1" NPT
- 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 SOL
- Compatible with 2-wire decoder systems like the ESP-LXD controller

For flows below 5gpm Rain Bird recommends use of upstream filtration to prevent debris from collecting below the diaphragm
**0.9 gph dripline with 12" emitter spacing*

2-Wire Compatible

XCZ-100-PRB-LC

2-Wire Compatible

XCZ-100-PRBR

2-Wire Compatible

XCZ-100-PRB-COM

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Wide Flow Control Zone Kits with Basket Filter (cont.)

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

Replacement Filter

- FLOW120M (Green)
- FLOW150M (Blue)
- FLOW200M (White)

2-Wire Compatible

NEW

XCZ-100-FLOW

2-Wire Compatible

NEW

XCZ-100-IVM

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure			
		XCZ-100-PRBLC	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (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

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure			
		XCZ-100-PRBR	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (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

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure			
		XCZ-100-PRB-COM	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (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

Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure			
		XCZ-100-FLOW & XCZ-100-IVM	
Flow (gpm)	Flow (l/m)	Pressure (psi)	Pressure (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

Drip Irrigation

The Intelligent Use of Water.™

Flow-Indicating Basket Filter

NEW

All-in-One Flow Measurement, Filtration and Pressure Regulation

Features

All-in-One Zone Protection

- Provides flow measurement, filtration (stainless steel, 150 mesh), and 40 psi integrated pressure regulation in an all-in-one compact product that protects your irrigation system

Important System Diagnostics

- The Flow-Indicating Basket Filter allows for easy monitoring of changes in the irrigation system with a quick glance at the dial, giving you additional control and peace of mind

- Mark the appropriate flow rate of the zone upon installation to assess proper operation, filter maintenance and excessive or limited flow rate conditions long term

Easy Maintenance & Installation

- Unique upright basket design provides easy access to clean the filter and prevents debris from falling into the downstream line during routine maintenance

- The retrofit model provides the ability to upgrade any Rain Bird Basket Filter model by simply changing the filter and the cap (less than one-minute installation)

Operating Range

- Operating Flow Rate: 3.0 to 20 gpm (11.4 to 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° to 43°C)

Specifications

- Height: 6.8" (17.3 cm)
- Length: 6.5" (16.5 cm)
- Width: 3.5" (8.8 cm)

Models

- FLOW-100-PRB: 1" Flow-Indicating Basket Filter with Pressure Regulation
- FLOW-100: 1" Flow-Indicating Basket Filter
- XCZ-100-FLOW: 1" Commercial Control Zone Kit with Flow Indication
- XCZ-100-IVM: 1" Wide Flow Control Zone Kit with Flow-Indicating Basket Filter and IVM
- FLOW-RETRO: 1" Flow-Indicating Basket Filter Retrofit Kit

Replacement Stainless Steel Filters

- FLOW120M: 120 mesh / 125 micron (Green)
- FLOW150M: 150 mesh / 100 micron (Blue)
- FLOW200M: 200 mesh / 75 micron (White)

Flow-100-PRB & IFlow-100-PRB
Minimum Inlet Pressure for 40 psi (2.8 bar) Outlet Pressure

Flow Rate		Inlet Pressure Required	
gpm	l/m	psi	bar
0.3	1.1	40	2.8
1	3.8	40	2.8
3	11.4	41	2.8
5	18.9	43	3.0
10	37.8	47	3.2
16	60.6	56	3.9
20	76.7	70	4.8

Flow-100 Pressure Loss Characteristics

Flow Rate		Pressure Drop	
gpm	l/m	psi	bar
0.3	1.1	0.1	0.01
1	3.8	0.2	0.01
3	11.4	0.6	0.04
5	18.9	1.0	0.07
10	37.8	1.5	0.10
15	60.6	2.0	0.15
20	76.7	4.0	0.28

FLOW-100-PRB

Healthy System

Leak in System

Dirty Filter

Drip Irrigation

A Solution For Every Job

FLOW-100-PRB
1" Flow-Indicating Basket Filter with Pressure Regulation

IFLOW-100-PRB
1" Flow-Indicating Basket Filter with Pressure Regulation (BSP threads)

FLOW-100
1" Flow-Indicating Basket Filter

XCZ-100-FLOW
1" Commercial Control Zone Kit with Flow Indication

FLOW-RETRO
Flow-Indicator Retrofit Kit

Mesh Filters
FLOW120M = 120 mesh
FLOW150M = 150 mesh
FLOW200M = 200 mesh