

# Residential Control Zone Kits with Anti-Siphon

## TECHNICAL SPECIFICATIONS

XACZ-075-PRF  
XACZ-100-PRF

The Control Zone Kit with Anti-Siphon is a combination zone optimized for a residential system with critical back-flow prevention function to avoid cross contamination of indoor water.

### FEATURES:

- **Optimized for Low Flow:** Includes the field-proven Low Flow Anti-Siphon Valve, that incorporates all features of DV/DVF Series valves.
- **Anti-Siphon:** The Low Flow Anti-Siphon Valve has an atmospheric vacuum breaker for backflow prevention and an IAPMO rating.
- **Compact Solutions:** 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.

### MODELS:



**XACZ-075-PRF**  
3/4" Low Flow Control Zone Kit w/ Anti-Siphon



**XACZ-100-PRF**  
1" Medium Flow Control Zone Kit w/ Anti-Siphon

### OPERATING RANGES:

#### Operating Flow Range

XACZ-075-PRF: 0.20 to 5.0 gpm; (0.8 to 18.9 l/m)  
XACZ-100-PRF: 3.0 to 15.0 gpm; (11.4 to 56.8 l/m)

#### Min Diagnostic Flow

N/A

#### Inlet Pressure

20 to 150 psi; (1.4 to 10.3 bar)

#### Regulated Pressure:

XACZ-075-PRF: 30 psi (2.1 bar)  
XACZ-100-PRF: 40 psi (2.8 bar)

### ADDITIONAL SPECIFICATION NOTES:

1. When installing indoors or on a design where the emission points are more than 5ft. above the Control Zone Kit, you must install a check valve after the pressure regulating filter (RBY or Basket Filter). The regulator has a permeable white dot that is designed to relieve excess pressure by slowly releasing water droplets.

2. Filter must be installed downstream of any valve; warranty will be void if installed under constant pressure

\*0.9 gph dripline with 12" emitter spacing

### OTHER SPECIFICATIONS:

#### Valve

XACZ-075-PRF: ASVLFV075  
XACZ-100-PRF: 100ASV

#### Filter Type

Stainless steel screen filter; 200 mesh (75 micron)

#### Flow Rate Capability\*

XACZ-075-PRF: 13 to 300 ft (4 to 91m) of dripline  
XACZ-100-PRF: 200 to 1000 ft (61 to 304m) of dripline

#### Valve Box

Above Ground

#### 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.

#### Dimensions

Height = 14"

#### Replacement Filter

RBY-200-SSMX

#### Inlet Size

XACZ-075-PRF: 3/4" x 3/4" NPT  
XACZ-100-PRF: 1" x 1" NPT



**SPECIFICATIONS:**

The control zone kit shall contain 2 pieces, which are pre-assembled: an integrated Pressure-Regulating Filter (PR Filter) and a valve.

The PR Filter shall contain both a 200 mesh filter and a pressure regulator. The pressure regulating filter body shall be constructed of heavy-duty, glass-filled, UV resistant plastic material providing a pressure rating of not less than 150 psi.

The filter element shall be constructed of a durable polyester fabric attached to a propylene frame. The standard 200-mesh (75 micron) screen shall be serviceable for cleaning purposes by unscrewing the cap from the body and removing the filter element. Replaceable filter elements (white) 200-mesh (75 micron) shall be available from the same manufacturer of the inline filter. The 3/4 pressure regulating filter body shall have a 3/4" male threaded inlet and outlet. The 1" PR Filter shall have a 1" male threaded inlet and outlet. The design shall be of a compact "Y" body and cap configuration. The dimension for the filter shall not exceed the following: Height: 4 1/2" (11,4 cm), Length: 5 1/2" (14 cm), Width: 2" (5,1 cm).

The pressure regulating element of the pressure regulating filter is a normally open device that allows full flow with a little pressure loss unless the inlet pressure is greater than preset level. As the inlet pressure increases above the preset level it compresses a spring and begins to reduce the flow and downstream pressure. The 3/4" pressure regulator shall have a preset outlet pressure of approximately 30 psi (2,0 bars) at a flow rate of \_\_\_\_GPM or (l/s: m3 /h). The 1" pressure regulator shall have a preset outlet pressure of approximately 40 psi (2,6 bars) at a flow rate of \_\_\_\_GPM or (l/s: m3 /h).

The pressure regulator shall be able to accommodate an inlet pressure rating of not less than 120 psi (8,3 bars). The control zone kits shall have the ability to be installed either above or below ground.

The control zone kits shall have an automatic irrigation control valve. The valve shall be normally closed 24 VAC 50/60 Hz (cycles per second) solenoid actuated,

balanced pressure type capable of a flow rate of \_\_\_\_gpm (l/s; m3 /h) with a pressure loss not to exceed \_\_\_\_ psi (bar). The valve pressure rating shall not be less than 150 psi (10.4 bar).

The remote control valve shall include as one unit an electric remote control valve and atmospheric backflow preventer. The valve shall have a patented, easy-to-turn, pressure-assisted flow control mechanism. The valve shall meet I.A.P.M.O. and A.S.S.E. listing specifications and be City of Los Angeles listings approved.

The valve body and bonnet shall be constructed of high impact weather resistant plastic, stainless steel and other chemical/UV resistant materials. The valve shall have a one unit diaphragm constructed of durable Buna-N rubber material with a clog resistant metering orifice. The valve shall have one 90-mesh (200 micron) pilot filter attached to the diaphragm. The valve shall have one fully encapsulated solenoid with captured plunger. The valve shall have one 90-mesh (200 micron) filter attached to the solenoid base.

The valve body shall have either a 3/4" globe configuration (20/27) or 1" (26/34) (FNPT) inlet and outlet.

The valve shall be actuated by a low power 0.30 A (7.2 VA) in-rush current and 0.23 A (5.5VA) holding current. The valve shall be capable of on/off control by turning the solenoid 1/4 turn. The valve shall provide a flush mode that is manually activated by 1/2 turn of the bleed screw where external porting is permissible.

The valve shall be as such to provide for all internal parts to be removable from the top of the valve without disturbing the valve installation.

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

**XACZ-075-PRF**

Minimum Inlet Pressure for 30 psi (2.1 bar) Outlet Pressure

FLOW		INLET PRESSURE	
gpm	l/m	psi	bar
0.2	0.8	37.4	2.6
1.0	3.8	39.1	2.7
3.0	11.4	40.0	2.8
5.0	18.9	49.7	3.4

**XACZ-100-PRF**

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

FLOW		INLET PRESSURE	
gpm	l/m	psi	bar
3.0	11.4	43.3	3.0
5.0	18.9	44.7	3.1
7.0	26.5	46.2	3.2
9.0	34.1	47.3	3.3
11.0	41.6	50.8	3.5
13.0	49.2	55.4	3.8
15.0	56.8	59.7	4.1

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