

Landscape Drip Application Guide

A Practical Guide for Designing and Installing Drip Irrigation Systems



Inspired by nature. Powered by ingenuity.

The Efficiency of Micro-Irrigation, by Rain Bird®

The Rain Bird's low volume irrigation products were coined with the phrase "Xerigation" in the 1990's and include drip irrigation and low volume spray products. The Rain Bird Xerigation system is the most efficient way to water landscapes.

Over the last fifteen years, Rain Bird has been a leader in innovation advances that customers value. Earlier advances included the Root Watering System designed to provide deep root growth and enhance tree development, and the PR Series Pressure Regulating Filter that combined the regulator and filter into one component reducing the potential for leaks.

Today, Rain Bird continues the tradition of innovation with the SQ Series Nozzle and the XF Series Dripline featured below. With the broadest product line, Rain Bird's Xerigation systems can be designed to meet any site requirement providing unmatched quality, efficient water use, and ease of installation.

Featured Rain Bird® Drip Products



SQ Series Nozzle

For irrigating small areas with dense plantings, the SQ Series Nozzle is the most precise and efficient nozzle available. With built-in pressure compensation and a unique square spraying pattern, the need for overlapping is greatly reduced. This means less overspray, overwatering, and runoff than traditional nozzles. It also means you need less nozzles, dramatically reducing your costs and installation time.



XF Series Dripline (XFD/XFCV/XFS)

The XF Series Dripline is the most flexible, pressure-compensating inline emitter tubing available. Its unique material offers significantly greater flexibility, allowing tighter turns with fewer elbows for easier installation. The dual-layered tubing (brown over black) provides unmatched resistance to chemicals, UV damage and algae growth.



Control Zone Kits

Control your zones with preassembled, compact Rain Bird Control Zone Kits. Two components (valve and pressure regulating filter) are combined to create a shorter kit, when compared with the competition. This allows you to fit more control zone kits in a single valve box without cramping the work space inside the box, saving you time and money.

Benefits of Xerigation®

O Design flexibility

 Elimination of overspray and runoff

O—— High water efficiency

O Water is delivered at or near the plant root zone

 Plants stay healthier and live longer

It is Rain Bird's long-standing commitment to engineering and quality excellence that sets our micro-irrigation products apart.



Demonstrated Water Savings



Solution: Rain Bird developed a comprehensible irrigation system for the IEUA site, including Xerigation products.

Results: 73% less water used than a comparable facility. First public agency building to ahieve a LEED Platinum Rating.











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Application Guide

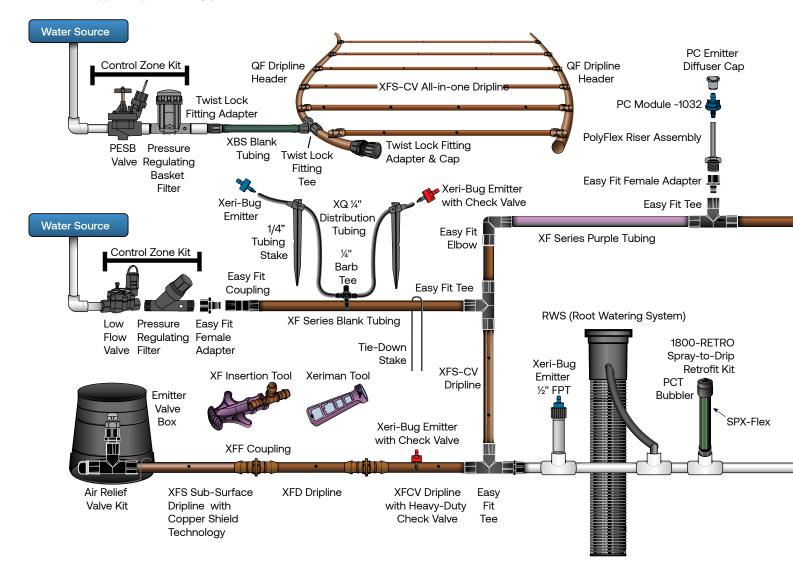
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Anatomy of Xerigation®/ Landscape Drip System Overview

Broadest Product Line in the Industry

With over 150 products, Rain Bird has the products needed for your application. Systems can be designed to meet any site requirements and offer many exclusive Rain Bird advances including:

- Flexible XF Series dripline with advanced polymers that provide kink- resistance and reduced coil memory for easier installation
- Compact Control Zones with matched pressure regulator and filter to reduce parts, eliminate potential leak problems, and allow for fitting more Control Zones in a valve box
- Precision low volume SQ spray nozzles that offer a square wetting pattern and adjust to either 2.5' or 4' throw distances
- Point-source emitters that provide pressure compensation with a wide selection of flow rates and three inlet options (Barb, 1032 threaded, and ½" FPT)
- XFS dripline with Copper Shield Technology™ for use in sub-surface applications under turf or shrub and groundcover areas. The copper chip effectively protects the emitter from root intrusion

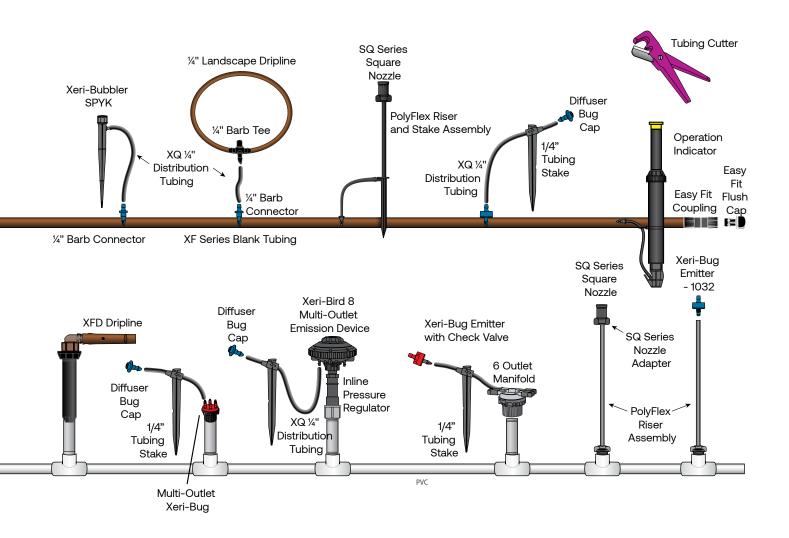




Targeted Watering with Xerigation® / Landscape Drip

Rain Bird Xerigation/Landscape Drip products are made especially for low-volume irrigation systems. By delivering water at or near the plants' root zones, Rain Bird Xerigation products offer targeted watering with the following advantages:

- Water conservation
- Greater efficiency (target each plant)
- Design flexibility; simple construction and easily expandable
- Healthier plants
- Reduced liability (e.g. no overspray, no runoff)
- · Minimization of weed growth
- Cost savings



(c) NOTE: Not all products listed in the Product Guide section are in the diagram above

Landscape Drip Irrigation

A low volume irrigation system typically applies water slowly, at low pressure, at or near the root zones of the plant material. Whether referred to as drip, micro-irrigation, or low volume, these systems feature emission devices that apply water in gallons per hour (GPH) as opposed to the gallons per minute (GPM) of a conventional overhead spray irrigation system.

Design Flexibility - Provides the most versatile design options

- Point-source drip irrigation provides the most design flexibility in any irrigation system
- · Many different emitters and sprays provide solutions for different placement and flow
- Multiple ways to install a single product, versatility that can address any of your irrigation projects

Reliability - Market Leadership in low volume irrigation; trusted performance and reliability

- Peace of Mind Rain Bird is the market leader in landscape drip emitters, specify the most trusted brand
- · Performance Consistent flow rate performance overtime, backed by Rain Bird's 3 year warranty

Water Savings - Provides water saving solutions by targeting watering to where the plant needs it

- Ease of use Compact profile and color coded by flow rate for easy identification/auditing
- Deliver the water right where the plant needs it instead of saturating the soil. Point source irrigation can provide up to 90% water efficiency
- Versatile many different applications





Considerations for Selecting Emission Devices

Density

In Sparse plantings, Individual plants are generally irrigated by individual emission devices that supply a precise amount of water directly to the plant's root zone. Dense plantings require emission devices that supply a precise and uniform amount of water across the entire area. Add individual emission devices that supply a precise amount of additional water to selected plants

Installation

Emitters can be installed in different ways depending on the inlet. Barb inlets are ideal for installation directly to drip tubing, or with 6mm tubing. Various threaded inlets are used on risers. Threaded installation is more durable for high traffic areas, ideally below grade. Spikes are used for very precise placement, above grade.

Flow

Use 3.8 or 7.6 I/h GPH emitters for most sparse planting schemes, and 1.9 I/h emitters for container plants and very fine soils. For larger shrubs and trees and/or to reduce the total number of emitters required, choose an option that provides higher flows. The type of soil also influences the amount of water needed – with coarse soil needing more water than fine soil.

Pattern & Radius

Match the spray pattern and radius to the location and saturation you need. Consider square patterns for use in boxes or corners, or low radius emitters for inside containers.

Pressure Compensation (PC)

With PC, the emitter will deliver a consistent output at varying water inlet pressures. Use PC emitters to compensate for uneven terrain, length of supply tube and other factors that impact inlet flows.

Check Valve

The check valve feature prevents water from draining out of source tube when there is an elevation change. This comes in very useful in elevated zones, slopes, and hanging baskets.

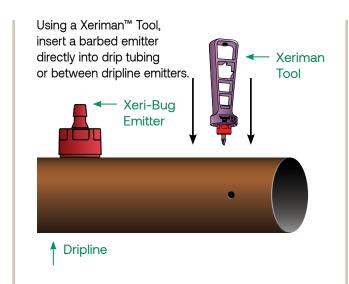
Planting Scheme	Emission Device	Applications	Pressure Compensation	Spray Pattern
		Ideal for ground cover, mass plantings, annual flower beds	no	Quarter Circle Stream / Finger
	Xeri Sprays			Half Circle Stream / Finger
	and Misters			Full Circle Stream / Finger
3 3				Full Circle Mist
INSE PI	Xeri 360 True Spray	Ideal for ground cover, mass plantings, annual flower beds	no	Full Circle Fan
		Commercial grade Small or defined areas with dense plantings	yes	Square Pattern - Quarter
	SQ Series Nozzles			Square Pattern - Half Square Pattern - 3 Quater
				Square Pattern - Full
	Xeri Bug Emitters	Low flow emitters for watering the root zones of individual plants, shrubs, and trees	yes	Drip
SZ	Xeri Bug Emitters with Check Valve	Low flow emitters for watering the root zones of individual plants, shrubs, trees, containers and hanging baskets, especially when elevated or on a slope	yes	Drip
LANGE OF THE PARTY	Xeri Bug Multi Outlet	Use for watering the root zones of plants and trees and container plants	yes	Drip
SPARSE	PC Modules	Watering larger shrubs and trees with higher water requirements:	yes	Drip
		Ideal for shrubs, trees, containers and flower beds Use anywhere clogging	no	180 stream
	Xeri Bubblers			360 stream
	- Bubblets	is a concern or there is heavy mineral content in the water		360 umbrella

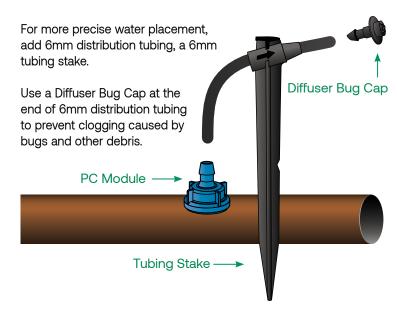


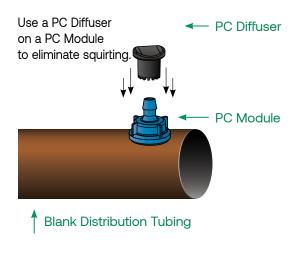
Planting	Emission Device	Radius		Flow		
Scheme		Imperial	Metric	Imperial	Metric	Inlet Options
DAILE	Xeri Sprays and Misters	0 to 10.6 ft.	0 to 3.2 m	0 to 29 @ 30 psi	0 to 109.8 l/h @ 2.07	10-32
		0 to 13.4 ft.	0 to 4.1 m	0 to 20 @ 00 ры	psi	10 02
ENSE PLA	Xeri 360 True Spray	0 to 6.7 ft.	0 to 2 m	0 to 17 gph @ 15 psi; 0 to 24.5 gph @ 30 psi	0 to 64 l/h at 100 kPa 0 to 92.7 l/h at 200 kpa	Spike, Barb, or 10-32
				6 gph	22.7 l/h	
	SQ Series	Adjustable	Adjustable 0.8 m or	12 gph	45.4 l/h	Thread
	Nozzles	2.5' or 4'	1.2 m	18 gph	68.1 l/h	Triioda
J. J.				24 gph	90.8 l/h	
	Xeri Bug Emitters	Drip	Drip	1 gph, 2gph 0.5 gph, 1 gph, 2gph 0.5 gph, 1 gph, 2gph	3.79 l/h, 7.57 l/h 1.89 l/h, 3.79 l/h, 7.57 l/h 1.89 l/h, 3.79 l/h, 7.57 l/h	1/2" FPT, Barb, or 10-32
<u>5</u> 7	Xeri Bug Emitters with Check Valve	Drip	Drip	0.5 gph, 1 gph, 2gph	1.89 l/h, 3.79 l/h, 7.57 l/h	Barb
					0.5 gph, 1 gph, 2gph	1.89 l/h, 3.79 l/h, 7.57 l/h
PLANT	Xeri Bug Multi Outlet	Drip	Drip	0.5 gph, 1 gph, 2 gph 0.5 gph, 1 gph, 2 gph	1.89 l/h, 3.79 l/h, 7.57 l/h 1.89 l/h, 3.79 l/h, 7.57 l/h	1/2" FPT or Barb
PARSE	PC Modules			5gph, 7gph, 10gph	18.93 l/h, 26.50 l/h, 37.85 l/h	1/2" FPT
SPA		I Drin I	Drip	5gph, 7gph, 10gph, 12gph, 18gph, 24gph	18.93 l/h, 26.50 l/h, 37.85 l/h, 45.42 l/h, 68.13 l/h, 90.84 l/h	Barb
				5gph, 7gph, 10gph	18.93 l/h, 26.50 l/h, 37.85 l/h	10-32
4 7		0 - 2.2' radius	0 - 0.67 m radius	0 to 13 gph @ 30 psi 0 to 8.5 gph @ 15 psi	0 to 49.21 l/h at 2.1 bar 0 to 30 l/h at 1 bar	Spike, Barb, or 10-32
	Xeri Bubblers	0 - 3' diameter	0 - 0.9 m diameter	0 to 13 gph @ 30 psi 0 to 8.5 gph @ 15 psi	0 to 49.21 l/h at 2.1 bar 0 to 30 l/h at 1 bar	Spike, Barb, or 10-32
		0 - 2' radius	0 - 0.58 m diameter	0 to 35 gph @ 30 psi 0 to 26 gph @ 15 psi	0 to 132.48 l/h at 2.1 bar 0 to 98 l/h at 1 bar	Spike, Barb, or 10-32

Installation Option: Place a Barbed Emitter Directly Into Drip Tubing

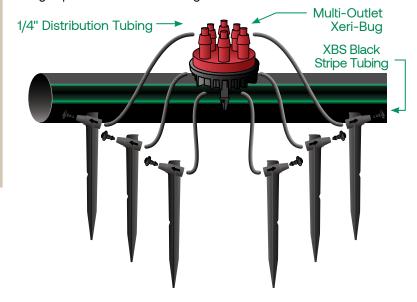
Rain Bird has a variety of emitters, bubblers, sprays, and misters that offer different features and flow rates to help with designing the ideal drip system; below is a sample installation option.







The Multi-Outlet Xeri-Bug provides centralized water distribution for up to six plants. All six outlets have the same flow rate. Connect the $\frac{1}{2}$ " distribution tubing to one of the outlets on the Multi-Outlet Xeri-Bug. Use a $\frac{1}{2}$ " tubing stake to ensure precise water placement. Insert a bug cap at the end of the tubing.





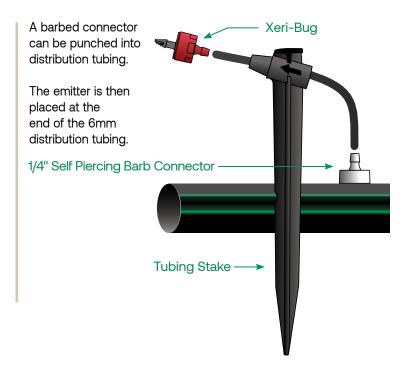
Rain Bird's Xeriman™ Tool:

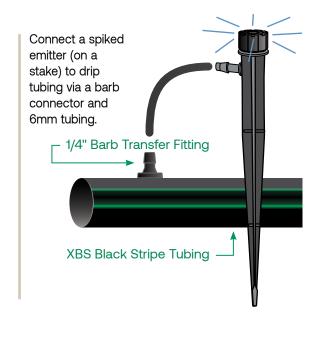
- Provides fast, easy, one-step installation of Xeri-Bug[™] emitters and PC Modules directly into 1/2" or 3/4" drip tubing, XF Dripline or Landscape Dripline
- Cuts emitter installation time
- All-in-one tool inserts emitters, removes emitters, inserts 1/4" barbed fittings and installs goof plugs



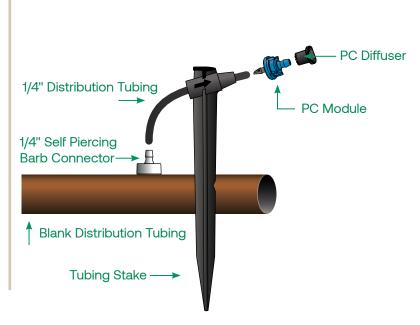
Installation Option: Connect to Drip Tubing Using a Barbed Fitting or Stake

Rain Bird has a variety of emitters, bubblers, sprays, and misters that offer different features and flow rates to help with designing the ideal drip system; below is a sample installation option.





Use a 1/4" Self-Piercing Barb Connector to transfer water to a PC Module. Add a PC Diffuser to eliminate squirting.

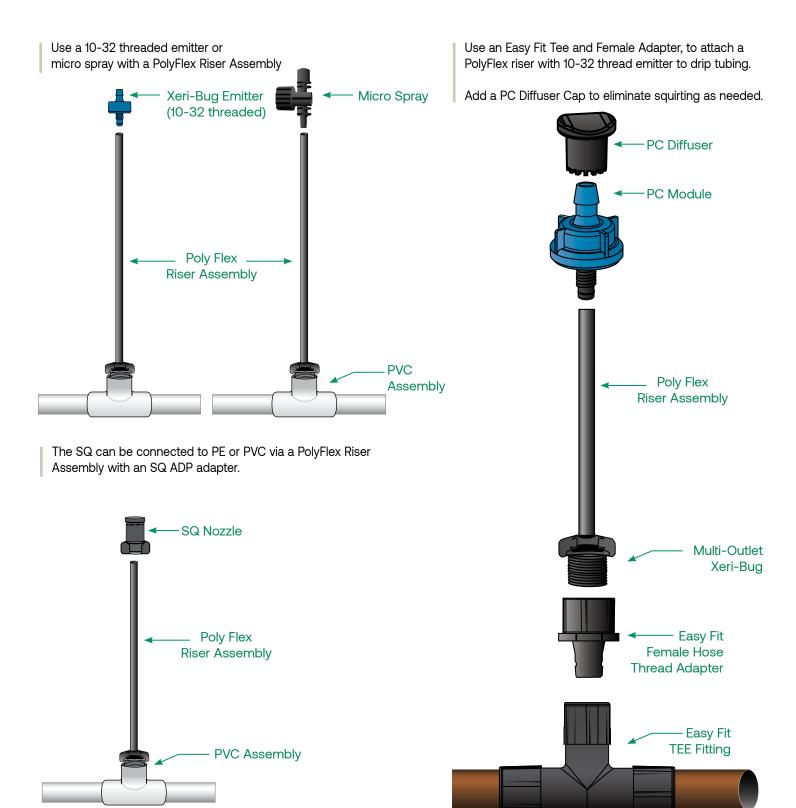


The SQ series nozzle or any 1032 Thread emitter can be placed on a PolyFlex Riser Stake and connected to drip tubing.



Installation Option: Connect to PVC or Drip Tubing with Polyflex Riser Assembly

Rain Bird has a variety of emitters, bubblers, sprays, and misters that offer different features and flow rates to help with designing the ideal drip system; below is a sample installation option.





Installation Option: Install Atop a ½" Schedule 80 PVC riser

Rain Bird has a variety of emitters, bubblers, sprays, and misters that offer different features and flow rates to help with designing the ideal drip system; below is a sample installation option.

Use the ½" FPT inlet Xeri-bug Drip Emitter connected to a PVC schedule 80 riser.

The SQ can be attached to a schedule 80 PVC riser using a PA-8S Plastic Shrub Adapter.

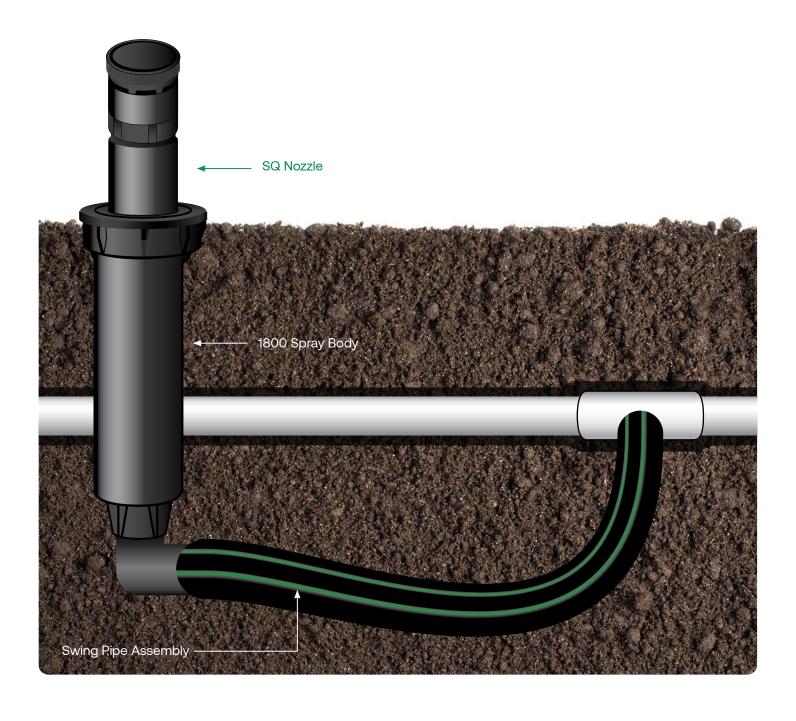




Installation Option: Install Nozzle on a 1800 Spray Head

Rain Bird has a variety of emitters, bubblers, sprays, and misters that offer different features and flow rates to help with designing the ideal drip system; below is a sample installation option.

The SQ Nozzle can be installed on a Rain Bird 1800 Series Spray Head





Installation Option: Use a Centralized Distribution Connection / Manifold

Rain Bird has a variety of emitters, bubblers, sprays, and misters that offer different features and flow rates to help with designing the ideal drip system; below is a sample installation option.

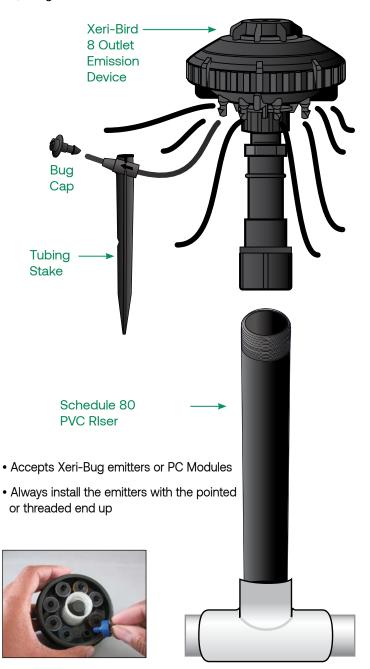
The 6 Outlet Manihfold provices a centralized water distribution connection for up to six different emission devices.

The emitter is placed on the end of the 6mm distribution tubing to regulate the water flow

1/4" Distribution Tubing
6 Outlet Manifold
Schedule 80
PVC RIser

The Xeri-Bird 8 Outlet Emission Device provides a centralized location for up to eight emitters. Use a mix of emitters to provide the flow rates needed for different plants. Tentacles of 6mm distribution tubing, 6mm tubing stakes, and bug caps allow for precise water placement.

Use inline pressure regulator to prevent blowout in event of surge.



Rain Bird Control Zone Kits



Reduced Material and Labor Costs

- Typically lower cost that nindividual components
- Compact size requires fewer and smaller valve boxes
- Preassembled models or prepackaged components provide time savings on installation

Convenience

- Convenient choices of models to meet the needs of diverse zones
- Be ready at installation with prepackaged and/or preassembled components
- Fewer parts and fewer threaded connections means less chance of leaking/maintenance calls

Reliability

- Performance you can count on for a long lasting drip zone: on/off control, pressure regulation and filtration
- Be confident knowing you have the highest quality components from Rain Bird that have been tested for reliable performance
- 3 year warranty

Control Zone Kit Selection Guide

RESIDENTIAL CONTROL ZONE KITS





XACZ-075-PRF FLOW: 0.2 - 5 gpm



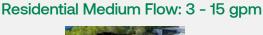
XCZ-075-PRF FLOW: 0.2 - 5 gpm



XCZLF-100-PRF FLOW: 0.2 - 10 gpm



XACZ-100-PRF FLOW: 3 - 15 gpm





XCZ-100-PRF FLOW: 3 - 15 gpm



XCZPGA-100-PRF FLOW: 3 - 15 gpm

COMMERCIAL CONTROL ZONE KITS



Commercial Wide Flow: 0.3 - 20 gpm



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-IVMQ FLOW: 0.3 - 20 gpm

Commercial High Flow: 15 - 62 gpm



XCZ-150-LCS FLOW: 20 - 62 gpm



XCZ-150-LCDR FLOW: 20 - 62 gpm

FLOWER BED

Combination Applications

Solution

XF Series Dripline Grid with Xeri-Bug Emitters

Advantages

- Up to 60% water savings
- No unsightly run off in high visibility areas
- No damage to walls, entry way or cart paths from overspray
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• XFD-06-12: XF Series Dripline .6 gph @ 12" Spacing

• XCZ-075-PRF 3/4" Xeri Control Zone Kit

-• MDCF Series Easy Fit Compression Fittings/Adapters

-• XFF Series XFF Dripline 17mm Insert Fittings

ARV050 1/2" Air Relief ValveTDS-050-30 Tie Down Stake

• XB XX* Xeri-Bug Pressure Compensating

Drip Emitters (0.5 to 2.0 gph)

XQ-100
 TDS-6050
 TDS-6050</l

• DCB-025 Diffuser Bug Cap



XFD





DL XB XX

TO DO LIST:

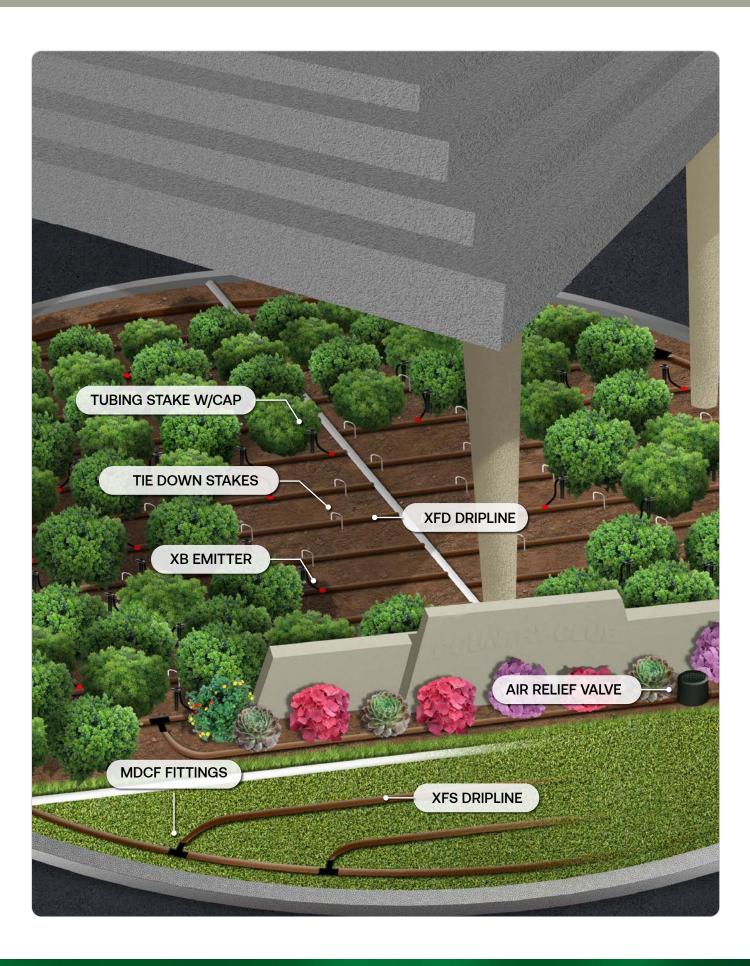
- 1. Assemble Control Zone Kit and connect to water source.
- 2. Cut lengths of XF Series Dripline to build grid in planting area.
- 3. Connect lengths of XF Series Dripline to Easy Fit Fittings to create grid, add 1/2" Air Relief Valve.
- 4. Connect Easy Fit Adapter to Easy Fit Tee for connection to Control Zone Kit.
- 5. Stake XF Series Dripline grid in place.
- 6 Punch self-piercing barb inlet of Xeri-Bug Emitters into XF Series Dripline, connect 1/4" tubing to barb outlet and run 1/4" tubing to larger plant.
- 7. Stake tubing in place and attach Diffuser Bug Cap on the end.
- 8. Flush system until clean water flows.
- 9. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.10 min/50'
- 3. 20 min/50'
- 4.5 min
- 5. 5 min/10'
- 6.8 min/Emitter
- 7. 3 min/Stake
- 8. 2 min

- Supplemental Xeri-Bug Emitters are placed next to larger plants with higher water requirements.
- ♦ Flush the zone upon installation and 2-4 times per year.
- ♦ Install Xeri-Bug Emitters with the Xeriman Tool (XM Tool) for 50% faster installation.
- ♦ Leave XF Series Dripline coil in the sun while preparing for installation.

^{*} Select appropriate emitter flow rate



LANDSCAPED AREAS ON THE COURSE ADJACENT TO TEE BOX, FAIRWAYS OR GREENS

Solution

Pressure Compensating Multi-Outlet Xeri-Bug Device on a PVC Lateral

Advantages

- Up to 60% water savings
- Durable installation in high maintenance areas
- Targeted watering reduces weed growth and extends life of mulch
- Native plant life helps reduce water usage



INSTALLATION PRODUCTS:

• XBT-10-6 1.0 GPH Multi-Outlet Xeri-Bug Manifold

XQ-100
1/4" Distribution Tubing
TS-025
1/4" Tubing Stake
1/2" Riser
DCB-025
Diffuser Bug Cap

• PVC Misc. PVC Laterals, Fittings, Glue

• SEB7X Emitter Box (optional)



XBT-10-6



TS-025

TO DO LIST:

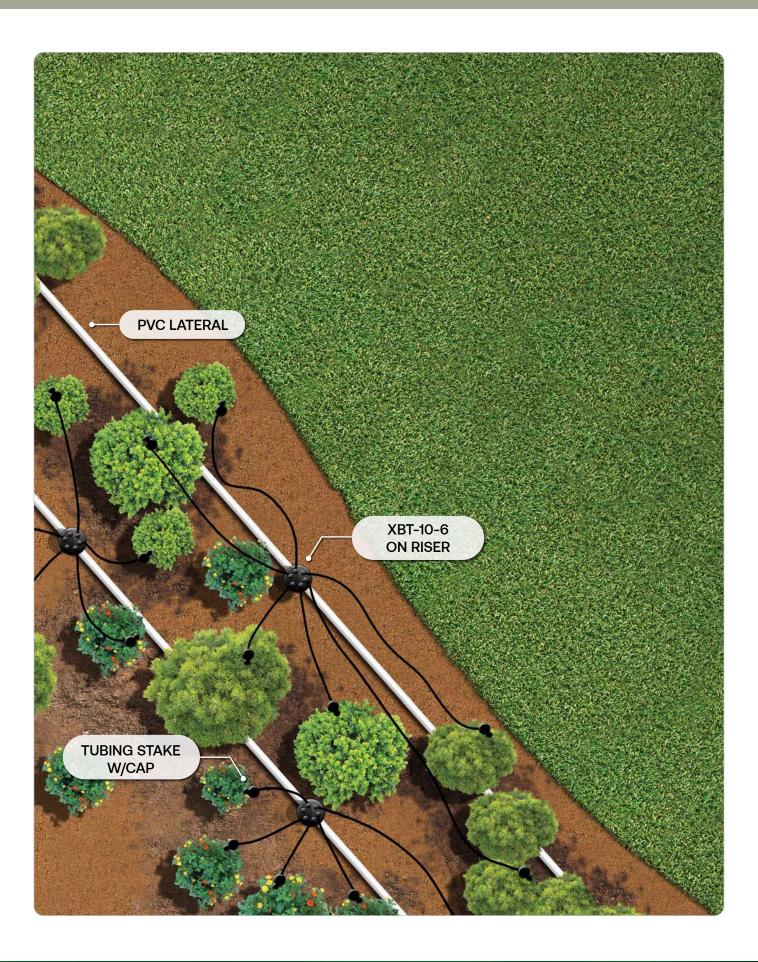
- 1. Trench, cut and glue PVC laterals.
- 2. Assemble Control Zone Kit and position in valve box.
- 3. Connect Control Zone to water source and laterals.
- 4. Thread 1/2" riser into PVC and thread 1.0 GPH Multi-Outlet Xeri-Bug Manifold onto riser.
- 5. Connect 1/4" lines to manifold outlets and run to sparse plantings.
- 6. Stake in place and add Diffuser Bug Cap to end of lines.
- 7. Flush system until clean water flows.
- 8. Add planting material and mulch.

TIME: (approx.)

- 1.1 hr/20'
- 2. 20 min
- 3.1 hr
- 4. 5 min/Assembly
- 5.5 min/Line
- 6. 3 min/Stake
- 7. 2 min
- 8. Variable

- Flush the zone after installation and 2-4 times per year.
- ◆ Do not run 1/4" lines more than 5'-8' from water source for optimal performance.
- ♦ Adjust watering time as seasons/weather changes.





NARROW BEDS

Raised Beds

ج Solution

XFCV Dripline Grid

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas
- XFCV Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

XFCV-06-12 XFCV Dripline .6 gph @ 12" spacing
 MDCF Series Easy Fit Compression Fittings/Adapters
 XFF Series XFF Dripline 17mm Insert Fittings

• TDS-050 BEND Tie Down Stake



XFF FITTINGS



XFCV DRIPLINE

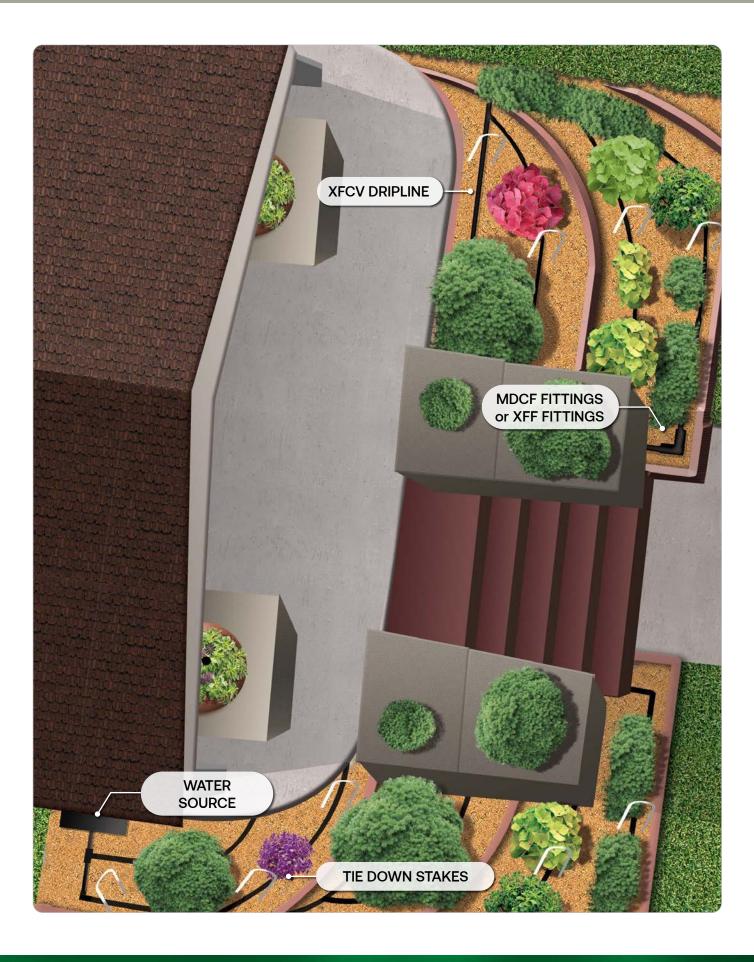
TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Cut lengths of XFCV Dripline to build grid in crib wall.
- 3. Connect lengths of XF Series Dripline to Easy Fit Fittings (or XFF Dripline fittings) to create grid. Connect to Control Zone Kit.
- 4. Stake XF Series Dripline grid in place and flush until clean water flows.
- 5. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.10 min/50'
- 3. 30 min/50'
- 4. 5 min/10'
- 5. Variable

- Flush the zone upon installation and 2-4 times per year.
- Leave XFCV Dripline coil in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.



NARROW PLANTING BED NEXT TO CLUBHOUSE OR CART PATH

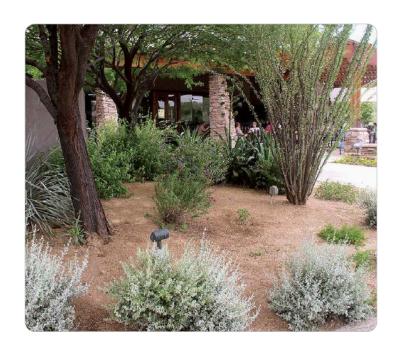
Sparse Application

c Solution

Xeri-Bird 8 & Xeri-Bug Emitters on a PVC Lateral

Advantages

- Up to 60% water savings
- Xeri-Bird 8 Manifold with PRS offers pressure regulation, filtration and controlled watering to multiple plants
- Manifold allows for increase/decrease in future plant water demands



INSTALLATION PRODUCTS:

• XBD-80 Xeri-Bird 8 Outlet Manifold

• XB XX* Xeri-Bug Pressure Compensating Drip

Emitters (0.5 to 2.0 gph)

• PRS-050-30 In-stem 30 psi Pressure Regulator

XQ-100
TS-025
DCB-025
Diffuser Bug Caps

• PVC Misc. PVC Laterals, Fittings, Glue

• SEB7X Emitter Box

* Select appropriate emitter flow rate and barbed or threaded connection



XBD-80



PRS-050-30



XB XX

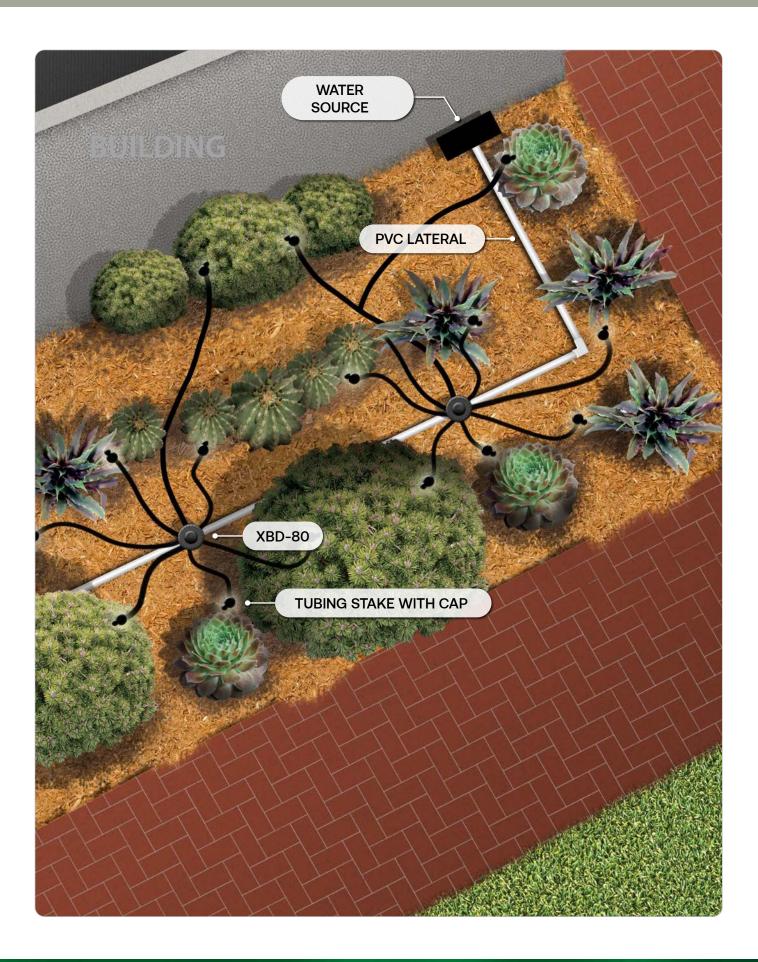
TO DO LIST:

- 1. Trench, cut and glue PVC laterals.
- 2. Connect lines to water source.
- Thread Xeri-Bird 8 Outlet Manifold onto in-stem 30 psi Pressure Regulator, then connect to PVC tee.
- 4. Attach 1/4" distribution tubing to outlets on Xeri-Bird 8 Outlet Manifold.
- 5. Run 1/4" lines to plants, stake in place with a Diffuser Bug Cap on the end.
- 6. Install the desired Xeri-Bug Emitter inside Xeri-Bird 8 Outlet Manifold.
- 7. Use an SEB7X Emitter Box for added protection of the Xeri-Bird 8. (optional)

TIME: (approx.)

- 1.1 hr/20'
- 2.1 hr
- 3. 8 min/Assembly
- 4. 5 min/XBD-80
- 5.8 min/Stake
- 6. 3 min/XBD-80

- ♦ Flush the zone after installation and 2-4 times per year.
- Install Xeri-Bug Emitters in Xeri-Bird 8 Outlet Manifold with self-piercing barb end up.
- ♦ Leave 6" slack in 1/4" tubing next to manifold in case of unexpected maintenance.



NARROW PLANTING BED NEXT TO A STRUCTURE

Sparse Applications

Solution

Xeri-Bird 8 & Xeri-Bug Emitters on a PVC Lateral

Advantages

- Up to 60% water savings
- No overspray damage to structures, fences or windows
- Targeted watering reduces weed growth
- Manifold design allows for increase/decrease in future plant water demands

INSTALLATION PRODUCTS:

• XBD-80 Xeri-Bird 8 Outlet Manifold

• XB XX* Xeri-Bug Pressure Compensating

Drip Emitters (0.5 to 2.0 gph)

• PRS-050-30 In-stem 30 psi Pressure Regulator

XQ-100 1/4" Distribution Tubing
TS-025 1/4" Tubing Stake

• PVC Misc PVC Laterals, Fittings, Glue

DBC-025 Diffuser Bug CapSEB7X Emitter Box (optional)









XBD-80

PRS-050-30

XB XX

TO DO LIST:

- 1. Trench, cut and glue PVC laterals.
- 2. Connect lines to water source.
- 3. Thread Xeri-Bird 8 Outlet Manifold onto in-stem 30 psi Pressure Regulator, then connect to PVC tee.
- 4. Attach 1/4" distribution tubing to outlets on Xeri-Bird 8 Outlet Manifold.
- 5. Run 1/4" lines to sparse plantings, stake in place with a Diffuser Bug Cap on the end.
- 6. Install the desired Xeri-Bug Emitter inside Xeri-Bird 8 Outlet Manifold.
- 7. Use an SEB7X Emitter Box as added protection for the Xeri-Bird 8. (optional)

TIME: (approx.)

- 1.1 hr/20'
- 2.1 hr
- 3. 5 min/Assembly
- 4. 3 min/Xeri-Bird 8
- 5.8 min/Stake
- 6. 2 min

- Flush the zone after installation and 2-4 times per year.
- Install XB Emitters in Xeri-Bird 8 Outlet Manifold with self-piercing barb or 1032 thread end up.
- ♦ Adjust watering time as seasons/weather changes.
- ♦ Leave 6" slack in 1/4" tubing in case of unexpected maintenance.

^{*} Select appropriate emitter flow



Narrow Planting Bed Next to a Structure

Dense Applications

Solution

XFD Dripline Grid + Root Booster NET Under Dripline

Advantages

- Up to 60% water savings due to zero wind loss
- No runoff = reduced liability in high traffic areas
- No overspray damage to structures, fences or windows
- XFD Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• XFD-06-12 XFD Dripline .6 gph @ 12" Spacing • RBS-02-N-500 Root Booster NET 500 Sq. Ft. XCZ-100-PRF 1" Xeri Control Zone Kit 1/2" Air Relief Valve

ARV050

Easy Fit Compression Fittings MDCF Series XFF Series XFF Dripline 17mm Insert Fittings

• TDS-050 Tie Down Stake



ROOT BOOSTER NET



XFD DRIPLINE

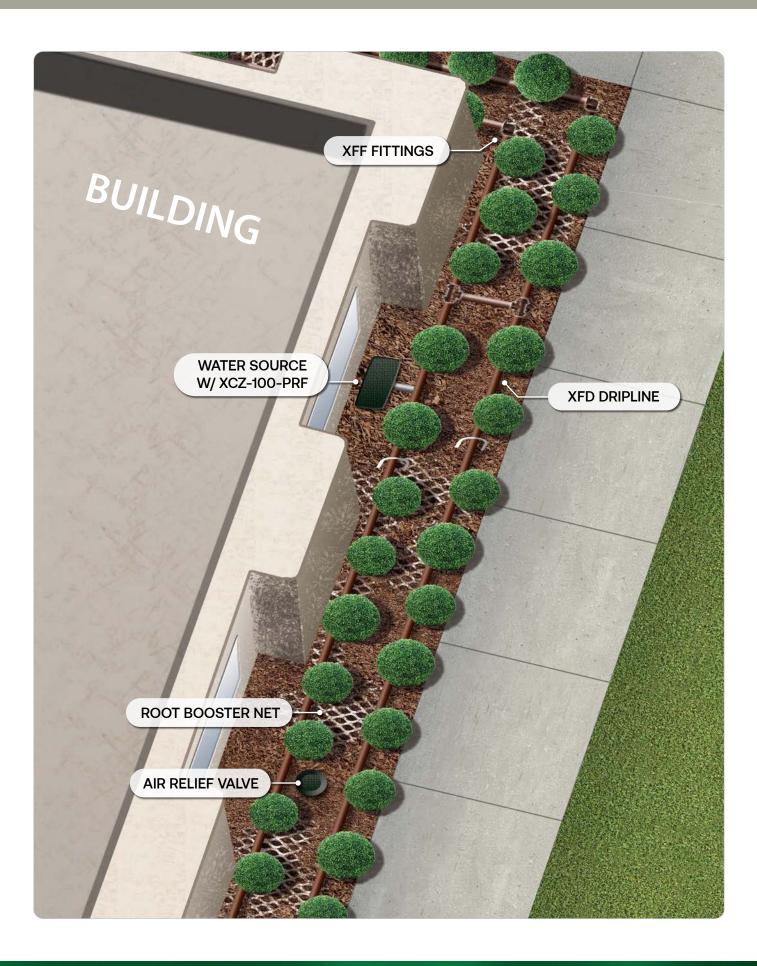
TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Add Root Booster NET before the drip or plants. Lay approximately 4" deep, or just below expected root depth of the plants.
- 3. Cut lengths of XF Dripline to build grid in planting area.
- 4. Connect lengths of XF Dripline to Easy Fit Fittings (or XFF Dripline Fittings) to create grid. Add 1/2" Air Relief Valve kit to the zone.
- 5. Connect Easy Fit Adapter to Easy Fit Tee for connection to Control Zone Kit.
- 6. Stake XF Dripline grid in place and flush until clean water flows.
- 7. Install planting material.

TIME: (approx.)

- 1. 1hr
- 2.5 min
- 3.10 min/50'
- 4. 25 min/50'
- 5. 5 min
- 6. 5 min/50'
- 7. Variable

- Flush the zone after installation and 2-4 times per year.
- Install Air Relief Valve Kit at high point in the system.
- Leave XFD Dripline coil in the sun while preparing for installation.



NARROW PLANTING BED NEXT TO A STRUCTURE

Dense Applications

ج Solution

SQ Series Nozzle + Root Booster STRIPS

Advantages

- Precise square wetting pattern reducing overspray, overwatering, and runoff
- Up to 65% water savings due to efficient control of water placement with pressure compensation
- Adjustable radius or throw in one unit makes design and installation simple
- Highest distribution uniformity in the industry for short radius nozzles



INSTALLATION PRODUCTS:

SQ-XXX*
 SQ Series Nozzles

RBS-05-ST-30 Root Booster STRIPS 30 Gallon Bag

- PA-8S Plastic Shrub Adapter for use with Schedule 80 Risers

SQ ADP
 SQ PolyFlex Riser Adapter for use with PFR-FRA

PolyFlex Risers

• PFR-FRA 12" PolyFlex Riser with ½" Male Threaded Base Adapter

• PVC Misc PVC Laterals, Fittings, Glue

*Half, full, or quarter nozzles as needed for planting bed



SQ NOZZLES

TO DO LIST:

- 1. Trench, cut and glue PVC laterals.
- 2. Connect lines to water source.
- 3. Thread in Schedule 80 riser, attach PA-8S Adapter and SQ Series Nozzle.
- 4. Thread in PFR-FRA 12" PolyFlex Riser into PVC tee, attach SQ ADP Adapater and SQ Series nozzle.
- 5. Mix Root Booster STRIPS into subsoil (1:20 ratio)
- 6. Add Plant Material
- 7. Cover with topsoil or mulch

TIME: (approx.)

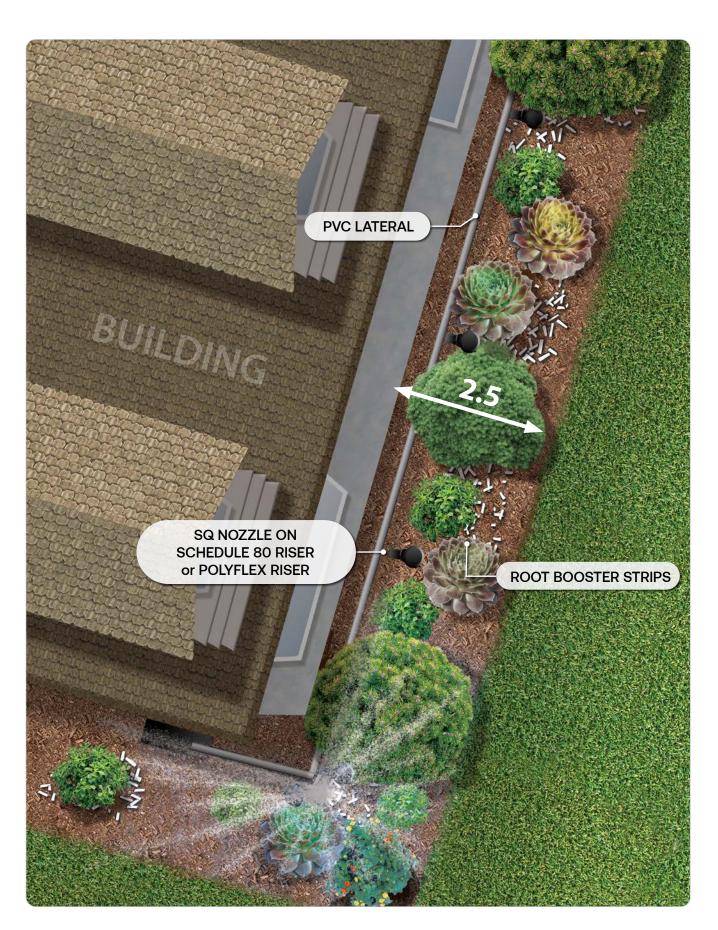
- 1.1 hr / 20'
- 2.1 hr
- 3.5 min / Assembly
- 4. 5 min / Assembly
- 5.15 min
- 6. Variable
- 7. Variable

INSTALLATION AND MAINTENANCE TIPS:

- Flush the zone after installation and 2-4 times per year.
- Adjust watering time as seasons/weather changes.
- ♠ Ensure that all SQ Series Nozzles are adjusted to the appropriate throw distance.

🕻 Drip Tip

All SQ Series Nozzles in the same zone should be adjusted to either 2.5' or 4' throw. DO NOT mix throw settings in the same zone.



NARROW PLANTING BED NEXT TO A STRUCTURE

Combination Applications

ح Solution

XFD Dripline Grid with Xeri-Bug Emitters

Advantages

- Up to 60% water savings due to zero wind loss
- XFD Dripline is easy to install for labor savings
- No overspray damage to structures, fences or windows



• XFD-06-12 XFD Dripline .6 gph @ 12" Spacing

• XCZ-075-PRF 3/4" Xeri Control Zone Kit

MDCF Series Easy Fit Compression Fittings/Adapters

• XFF Series XFF Dripline 17mm Insert Fittings

TDS-050 BEND Tie Down Stake
 ARV050 1/2" Alr Relief Valve

• XB XX* Xeri-Bug Pressure Compensating

Drip Emitters (0.5 to 2.0 gph)

• DT-025 1/4" Distribution Tubing

TS-025 1/4" Tubing StakeDCB-025 Diffuser Bug Cap

* Select appropriate emitter flow rate





XFD





XB XX

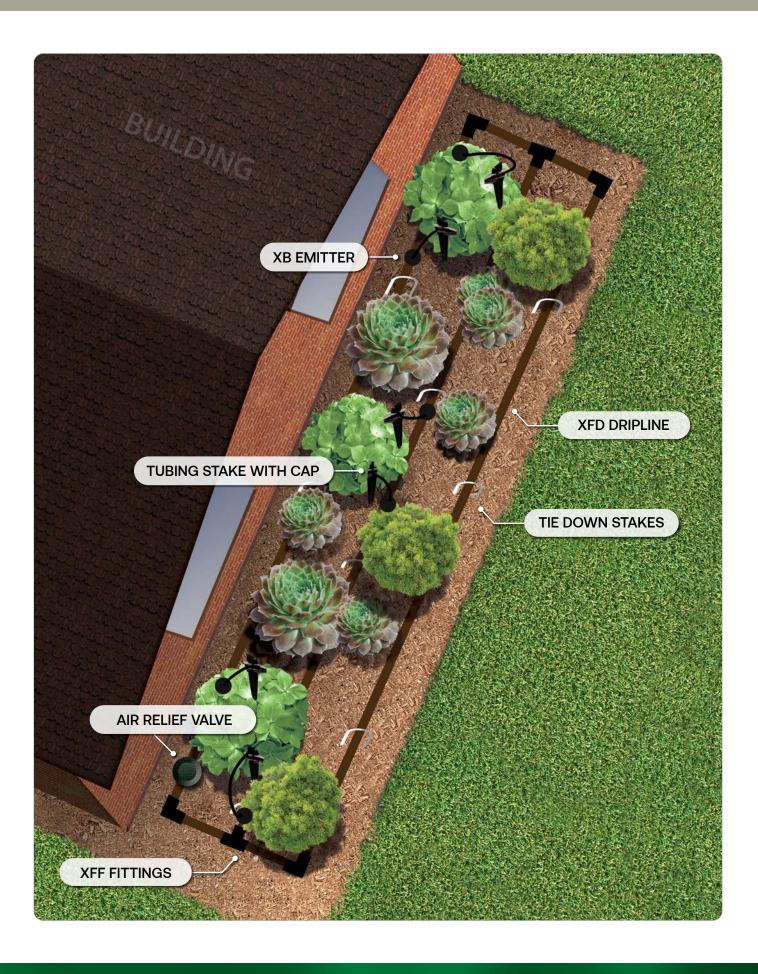
TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Cut lengths of XFD Dripline to build grid in planting area.
- Connect lengths of XF Series Dripline to Easy Fit Fittings (or XFF Dripline fittings) to create grid, add Air Relief Valve
- 4. Connect Easy Fit Adapter to Easy Fit Tee for connection to Control Zone Kit.
- 5. Stake XF Series Dripline grid in place.
- 6. Punch self-piercing barb inlet of Xeri-Bug Emitters into XF Series Dripline, connect 1/4" tubing to barb outlet and run 1/4" tubing to larger plant.
- 7. Stake tubing in place and attach Diffuser Bug Cap on the end.
- 8. Flush system until clean water flows.
- 9. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.10 min/50'
- 3. 20 min/50'
- 4. 5 min
- 5. 5 min/10'
- 6. 8 min/Emitter
- 7. 3 min/Stake
- 8.2 min
- 9. Variable

- Supplemental Xeri-Bug Emitters are placed next to larger plants with higher water requirements.
- Flush the zone upon installation and 2-4 times per year.
- Install Xeri-Bug Emitters with the Xeriman Tool (XM Tool) for 50% faster installation.
- ♦ Leave XF Series Dripline coil in the sun while preparing for installation.



NARROW PLANTING BED **NEXT TO A STRUCTURE**

Dense Applications

راج Solution

XF Series Dripline

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• XFD-06-12 XF Series Dripline .6 gph @ 12" Spacing

• XCZ-100-PRF 1" Xeri Control Zone Kit • ARV 050 1/2" Air Relief Valve

Easy Fit Compression Fittings/Adapters MDCF Series

• XFF Series XFF Dripline 17mm Insert Fittings

• TDS-6050 Tie Down Stake (50 pack)





XFD

XFF FITTINGS

TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Cut lengths of XF Series Dripline to lay laterally below retaining wall.
- 3. Connect lengths of XF Series Dripline to Easy Fit Fittings, add 1/2" Air Relief Valve and add Flush Cap to end. Connect to Control Zone Kit.
- 4. Stake XF Series Dripline in place and flush until clean water flows.
- 5. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.10 min/50'
- 3. 30 min/50'
- 4. 5 min/10'

- Flush the zone upon installation and 2-4 times per year.
- Install 1/2" Air Relief Valve Kit at high point in the system.
- Leave XF Series Dripline coil in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.
- Use XFS Series Dripline to protect against root intrusion.

- 5. Variable



MEDIAN OR DIVIDER

Sparse Applications

Solution

PolyFlex Riser/Adapter with Xeri-Bug 10-32 Drip Emitters on a PVC Lateral

Advantages

- Up to 60% water savings
- No overspray damage to vehicles or parking lot
- Targeted watering reduces weed growth
- No runoff = reduced liability in high traffic areas



INSTALLATION PRODUCTS:

PFR/FRA PolyFlex Riser/Adapter

• XB XX* 10-32 Xeri-Bug Pressure Compensating Drip Emitters

(0.5 to 2.0 gph) w/10-32 Thread

PVC Misc.
 PVC Laterals, Fittings, Glue
 XCZ-075-PRF
 3/4" Xeri Control Zone Kit







PFR-FRA

TO DO LIST:

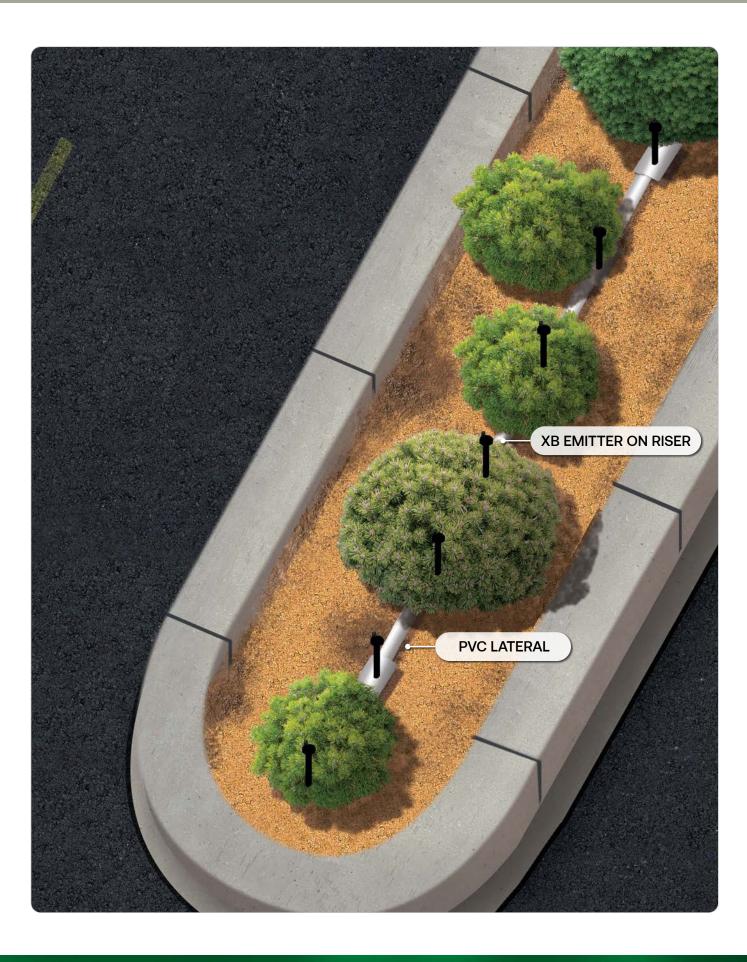
- 1. Trench, cut and glue PVC laterals.
- 2. Assemble Control Zone Kit and position in valve box.
- 3. Connect Control Zone to water source and laterals.
- 4. Thread PolyFlex Riser/Adapter into PVC tees.
- 5. Thread Xeri-Bug Emitter into PolyFlex Riser.
- 6. Flush system until clean water flows.
- 7. Add planting material and mulch.

TIME: (approx.)

- 1.1 hr/20'
- 2.1 hr
- 3.1 hr
- 4.5 min/Tee
- 5. 5 min/PFR
- 6. 2 min
- 7. Variable

- Flush the zone after installation and 2-4 times per year.
- For larger trees use higher flow PC Modules and Diffuser caps to avoid wash out.
- Adjust watering time as seasons/weather changes.
- Cut PolyFlex Risers slightly above grade (before installing the Xeri-Bug Emitters) for an "invisible" installation.
- ♦ The PolyFlex Riser Adapter (FRA) is made of Marlex®, so no Teflon® tape is needed.

^{*} Select appropriate emitter flow rate



STREET MEDIANS

Dense Applications

Solution

XF Series Dripline Grid + Root Booster NET Under Dripline

Advantages

- Up to 60% water savings due to zero wind loss
- No overspray damage to roadways and vehicles
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• XFD-06-12 XF Series Dripline .6 gph @ 12" Spacing

RBS-02-N-500 Root Booster NET 500 Sq. Ft.
XCZ-100-PRF 1" Xeri Control Zone Kit
ARV050 1/2" Air Relief Valve Kit

- MDCF Series Easy Fit Compression Fittings/Adapters

XFF Dripline 17mm Insert Fittings

• TDS-050 BEND Tie Down Stake

PVC Misc.
 PVC Laterals and Fittings
 XP600X
 Xeri-Pop (optional)

• SQ QTR SQ Series Nozzle (optional)



XFD DRIPLINE



ROOT BOOSTER NET

TO DO LIST:

XFF Series

- 1. Asemble Control Zone Kit and connect to water source.
- 2. Add Root Booster NET before the drip or plants. Lay approximately 4" deep, or just below expected root depth of the plants.
- 3. Cut lengths of XF Series Dripline to build grid in planting area.
- 4. Connect lengths of XF Series Dripline to Easy Fit Fittings (or XF Dripline 17mm fittings) to create grid (add Air Relief Valve Kit to the zone and connect to Control Zone Kit).
- 5. Stake XF Series Dripline grid in place and flush until clean water flows.
- 6. Install planting material.

TIME: (approx.)

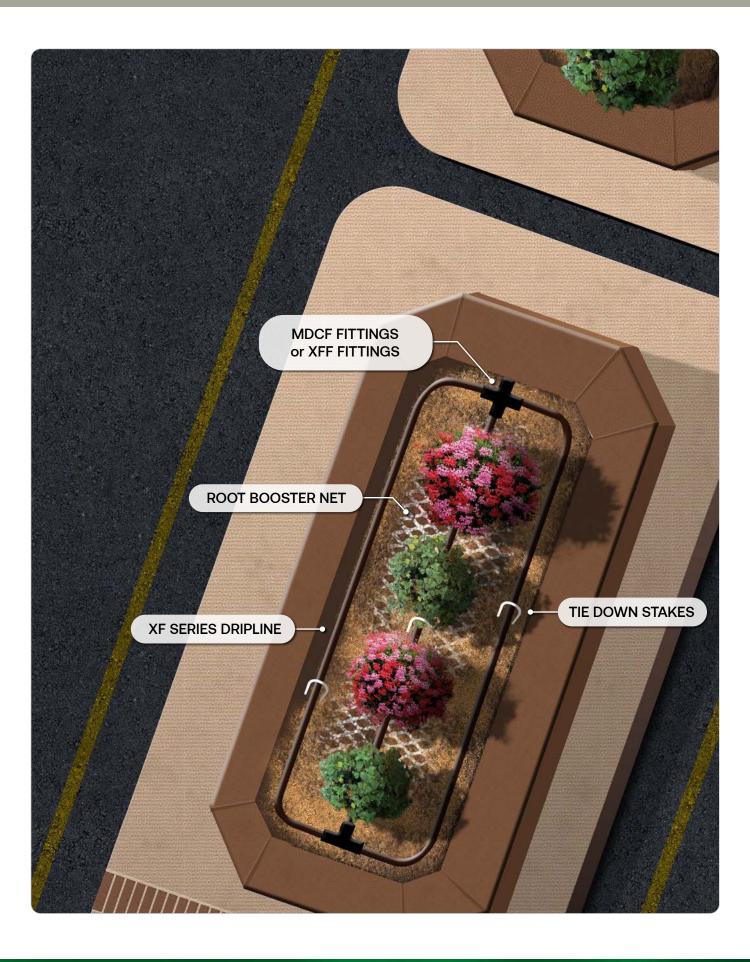
- 1.1 hr
- 2.5 min
- 3.10 min/50'
- 4. 25 min/50'
- 5. 5 min/10'
- 6. Variable

INSTALLATION AND MAINTENANCE TIPS:

- Flush the zone upon installation and 2-4 times per year.
- ♦ Install 1/2" Air Relief Valve Kit at high point in the system.
- ♦ Leave XF Series Dripline coil in the sun while preparing for installation.
- Use XFS Series Dripline to protect against root intrusion



Add an Operation Indicator (OPERIND) to the end of the line for quick visual assurance that your drip irrigation system is running.



MEDIAN OR DIVIDER

Dense & Combination Applications

Solution (Combination)

SQ Series Nozzle on 1800 Spray Heads with Swing Assembly on PVC Lateral

Advantages

- Precise square wetting pattern reduces overspray, overwatering, and runoff = up to 65% water saving
- Adjustable radius in one unit makes design and installation simple
- Highest distribution uniformity in the industry for short radius nozzles

INSTALLATION PRODUCTS:

SQ-XXX*
 SQ Series Nozzles

• 180XX 1800 Series Spray Head with Desired

Pop-up Height

SA-XXX SA Series Swing AssemblyPVC Misc PVC Laterals, Fittings, Glue

* Half, full, or quarter nozzles as needed for planting bed

TO DO LIST:

- 1. Trench, cut and glue PVC laterals. (1 hr/20')
- 2. Connect lines to water source. (1 hr)
- 3. Thread 1800 Series Spray Head onto swing assembly then thread the swing assembly into the Slip x Slip x Threaded Tee PVC fitting. (5 min/Assembly)
- Cut PVC laterals and glue in Slip x Slip x Threaded Tee assembly. (5 min/Tee)
- 5. Flush system until water flows clear. (As needed)
- Install SQ Series nozzles on 1800 Spray Heads. (2 min/Nozzle)

INSTALLATION AND MAINTENANCE TIPS:

- Flush the zone after installation and 2-4 times per year.
- ♦ Adjust watering time as seasons/weather changes.
- Ensure that all SQ Series nozzles are adjusted to the appropriate throw distance.

Drip Tip

With a simple turn of the nozzle to the next preset stop, the SQ Series Nozzle adjusts from a 2.5' throw to a 4' throw. All nozzles in the same zone must be adjusted to the same throw.

د Solution #2

SQ Series Nozzle on 1800 Spray Heads with Swing Assembly on PVC Lateral

Advantages

- Precise square wetting pattern reduces overspray, overwatering, and runoff
- Up to 65% water savings due to efficient control of water placement with pressure compensation
- Adjustable radius in one unit makes design and installation simple
- Highest distribution uniformity in the industry for short radius nozzles

INSTALLATION PRODUCTS:

SQ-XXX*
 SQ Series Nozzles

• 18XX 1800 Series Spray Head with

Desired Pop-up Height

SA-XXX SA Series Swing AssemblyPVC Misc PVC Laterals, Fittings, Glue

* Half, full, or quarter nozzles as needed for planting bed

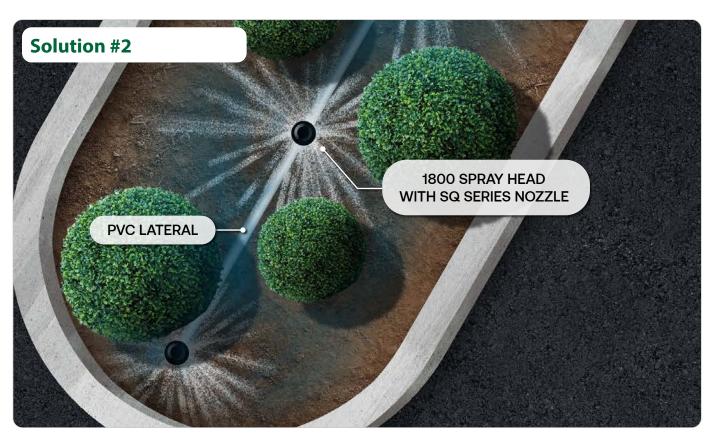
TO DO LIST:

- 1. Trench, cut, and glue PVC laterals.
- 2. Connect lines to water source.
- 3. Thread 1800 Series Spray Head onto swing assembly then thread the swing assembly into the Slip x Slip x Threaded Tee PVC fitting.
- Cut PVC laterals and glue in Slip x Slip x Threaded Tee assembly.
- 5. Flush system until water flows clear.
- 6. Install SQ Series nozzles on 1800 Spray Heads.

- Flush the zone after installation and 2-4 times per year.
- ♦ Adjust watering time as seasons/weather changes.
- Ensure that all SQ Series Nozzles are adjusted to the appropriate throw distance.







Median or Divider

Combination Applications

Solution

XF Series Dripline Grid with Xeri-Bug Emitters

Advantages

- Up to 60% water savings due to zero wind loss
- No overspray damage to roadways and vehicles
- No runoff = reduced liability in high traffic areas
- Low maintenance results in labor savings
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

•XFD-06-12 XF Series Dripline .6 gph @ 12" Spacing

XCZ-100-PRF 1" Xeri Control Zone Kit
ARV050 1/2" Air Relief Valve

XFF Series XF Dripline 17mm Insert Fittings
 XB XX* Xeri-Bug Pressure Compensating

Drip Emitters (0.5 to 2.0 gph)

• XQ-100 1/4" Distribution Tubing

TS-025 1/4" Tubing Stake
TDS-050 Tie Down Stake
DBC-025 Diffuser Bug Cap

* Select appropriate emitter flow rate





XFD



XBXX



½" AIR RELIEF VALVE

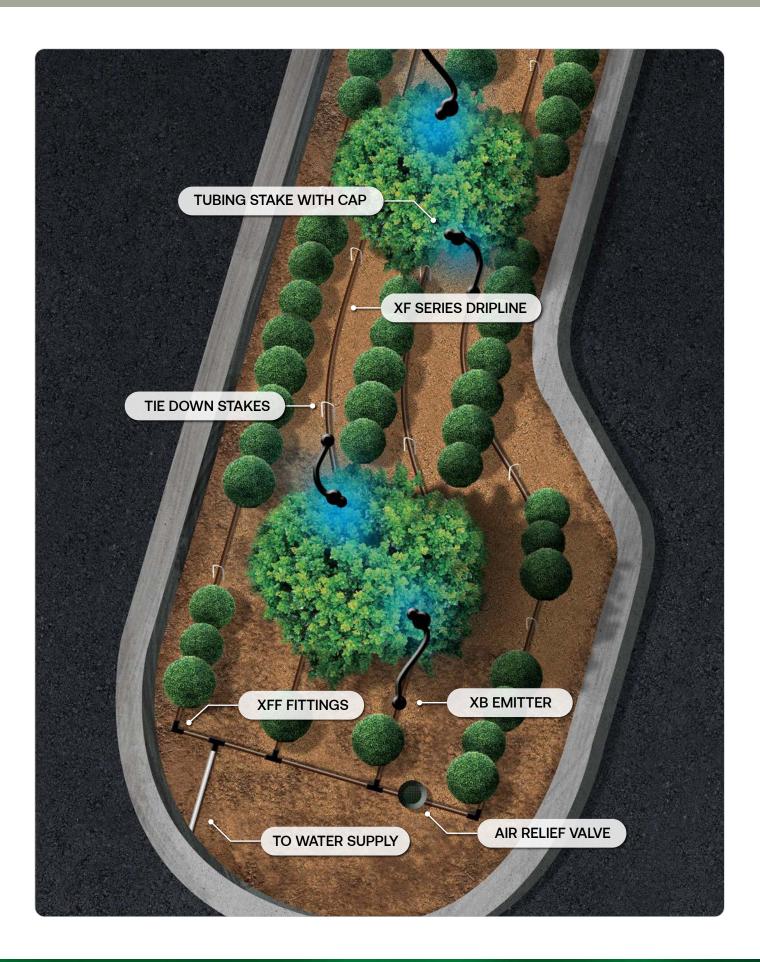
TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Connect Easy Fit series for connection to Control Zone Kit.
- 3. Cut lengths of XF Series Dripline to assemble grid in planting area.
- 4. Use Easy Fit Compression Fittings (or XFF Dripline fittings) to create XF Series Dripline grid. Add 1/2" Air Relief Valve Kit and stake grid in place. Insert Xeri-Bug Emitters into XF Series Dripline for supplemental watering.
- 5. Connect 1/4" tubing to Xeri-Bug Emitters, run lines and stake next to larger plants.
- 6. Flush zones until clean water flows.
- 7. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.5 min
- 3. 10 min/50'
- 4.1 hr 30 min
- 5.8 min/Stake
- 6. 2 min
- 7. Variable

- Flush the zone upon installation and 2-4 times per year.
- ♦ Install 1/2" Air Relief Valve Kit at high point in the system.
- ♦ Leave XF Series Dripline coil in the sun while preparing for installation.
- Supplemental Xeri-Bug Emitters or Pressure Compensating Modules are placed next to larger plants with higher water requirements.



SLOPES

Dense or Combination Applications

c Solution

XF Series Dripline Grid with Xeri-Bug Emitters with Check Valve (XXBCV) + Root Booster NET Under Dripline

Advantages

- Up to 60% water savings due to zero wind loss
- Low maintenance results in labor savings
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings
- Both XFCV Dripline and XBCV Emitters feature built-in check valves which eliminates low point draininage and runoff by holding back water up to 10 ft. when system is off

INSTALLATION PRODUCTS:

• XFCV-06-12 XFCV Dripline w/Heavy-Duty Check Valve

(.6 gph @ 12" Spacing)

RBS-02-N-500 Root Booster NET 500 Sq. Ft.
 XCZ-100-PRF 1" Xeri Control Zone Kit

- • MDCF Series Easy Fit Compression Fittings/Adapters

• XFF Series XF Dripline 17mm Insert Fittings

• XBCV-*** Xeri-Bug Emitters with Check Valve

(0.5 to 2.0 gph)

TS-025 1/4" Tubing StakeTDS-6050 Tie Down Stake

XM Tool Xeriman Installation Tool

• DBC-025 Diffuser Bug Cap





ROOT BOOSTER NET

XBCV EMITTERS

TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Connect Easy Fit Adapter to Easy Fit Tee for connection to Control Zone Kit.
- 3. Add Root Booster NET before the drip or plants. Lay approximately 4" deep, or just below expected root depth of the plants.
- 4. Cut lengths of XFCV Dripline Tubing to assemble grid on a slope up to 10ft on each grid segment.
- 5. Connect lengths of XFCV Dripline Tubing to XF Dripline fittings to create grid.
- 6. Insert Xeri-Bug Emitters directly into XFCV Dripline Tubing to provide supplemental water for areas where plants will be placed.
- 7. Stake the tubing grid in place and flush until clean water flows.
- 8. Install planting material.

INSTALLATION AND MAINTENANCE TIPS:

- Flush the zone upon installation and 2-4 times per year.
- ♦ Leave Tubing coil in the sun while preparing for installation.
- Use the Xeriman Tool to install the emitters into XF Series Dripline.

TIME: (approx.)

- 1.1 hr
- 2.5 min
- 3. 30 min
- 4.10 min/50'
- 5. 25 min/50'
- 6. 3 min/Emitter
- 7. 5 min/10'
- 8. Variable

^{*} Select appropriate emitter flow rate



SLOPES

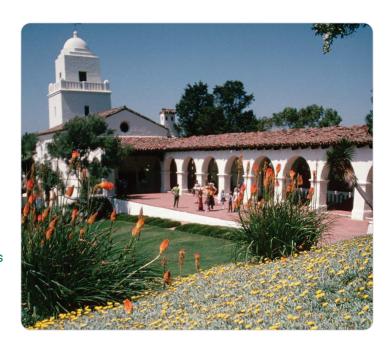
Combination Applications

Solution

XFCV Dripline Grid with Xeri-Bug Emitters

Advantages

- Up to 60% water savings due to zero wind loss
- · Low maintenance results in labor savings
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• XFCV-06-12 XF Series Dripline .6 gph @ 12" Spacing

• XCZ-100-PRF 1" Xeri Control Zone Kit

- MDCF Series Easy Fit Compression Fittings/Adapters

• XFF Series XFF Dripline 17mm Insert Fittings

• XQ-100 1/4" Distribution Tubing

TS-025 1/4" Tubing Stake
TDS-050 Tie Down Stake
DBC-025 Diffuser Bug Cap



XFCV



MDCF FITTINGS

TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Connect Easy Fit adapter to Easy Fit Tee for connection to Control Zone Kit.
- 3. Cut lengths of XF Series Dripline to assemble grid in planting area.
- 4. Use MDCF Fittings (or XFF Dripline fittings) to create grid and stake in place. Insert Xeri-Bug Emitters into XF Series Dripline for supplemental watering.
- 5. Connect 1/4" tubing to Xeri-Bug Emitters, run lines and stake next to larger plants.
- 6. Flush zones until clean water flows.
- 7. Install planting material.

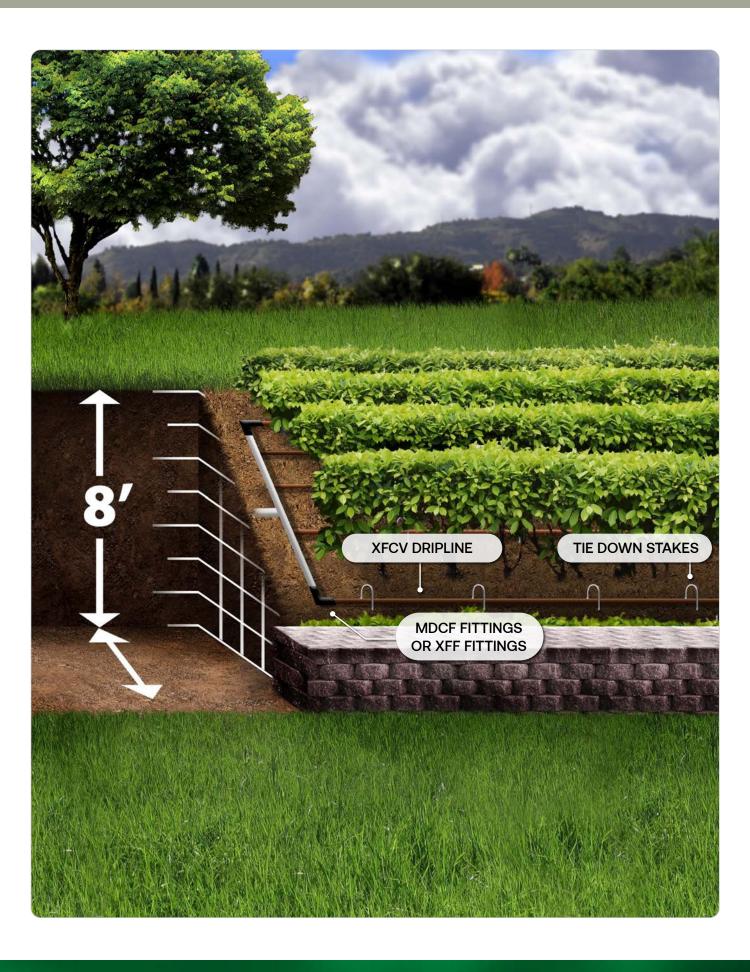
TIME: (approx.)

- 1.1 hr
- 2.5 min/XCZ
- 3.10 min/50'
- 4.1 hr 30 min
- 5.8 min/Stake
- 6. 2 min
- 7. Variable

- ♦ Supplemental Xeri-Bug Emitters or Pressure Compensating Modules can be placed next to larger plants with higher water requirements.
- Flush the zone upon installation and 2-4 times per year.
- ♦ Leave XF Series Dripline coil in the sun while preparing for installation.

^{*} Select appropriate emitter flow rate

Application Guide



PATIO POTS ON SEPARATE ZONE

Pots will need different amounts of water based off pot size and plant material. (1 of 3)

ج Solution

- OPTION A: PVC Tubing with Xeri-Bird 8 & Xeri-Bug Emitters
- OPTION B: PVC Tubing with 6 Outlet Manifold & 1/4" Landscape Dripline Loop

Advantages

- Up to 60% water savings
- Xeri-Bird 8 Manifold with PRS offers pressure regulation, filtration and controlled watering to multiple pots
- Manifold allows for increase/decrease in future plant requirements



INSTALLATION PRODUCTS:

OPTION (A)

• XBD-80 • XB XX*	Xeri-Bird 8 Outlet Manifold Xeri-Bug Pressure Compensating Drip Emitters (0.5 to 2.0 gph)
• PRS-050	In-stem 30 psi Pressure Regulator
• XQ-100	1/4" Distribution Tubing
• TS-025	1/4" Tubing Stake
• DBC-025	Diffuser Bug Cap
• PVC Misc.	PVC Laterals, Fittings, Glue

^{*} Select appropriate emitter flow rate

OPTION (B)

• EMT-6XERI	6 Outlet Manifold
• XQ-100	1/4" Distribution Tubing
• XBF-3TEE	1/4" Barb Tee
• LDQ-08-06-100	1/4" Landscape Dripline
• PVC Misc.	PVC Laterals, Fittings, Glue

TO-DO LIST (A):

- 1. Trench (as needed), cut and glue PVC laterals.
- 2. Connect lines to water source.
- Thread Xeri-Bird 8 Outlet Manifold onto in-stem 30 psi Pressure Regulator and connect to PVC tee.
- 4. Attach 1/4" distribution tubing to outlets on manifold.
- 5. Run 1/4" lines to Pots, stake in place with a bug cap on the end.
- 6. Install the desired Drip Emitter inside manifold.*
- * Emitter varies by location (0.5 to 2.0 gph)

TIME (A): TO-DO LIST (B):

1.1 hr/20'

3.5 min

4. 2 min/

XBD-80

5.8 min/

6.2 min

Pot

2.1 hr

- 1. Trench (as needed), cut and glue PVC laterals.
- 2. Connect lines to water source.
- 3. Thread 6 Outlet Manifold onto riser, then connect to PVC tee.
- 4. Attach 1/4" distribution tubing to outlets on manifold.
- Run 1/4" lines to pots and connect tubing to barb tee. Then run 1/4" Landscape Dripline in a circle inside the pot and connect both ends to the barb tee.

TIME (B):

1.1 hr/20'

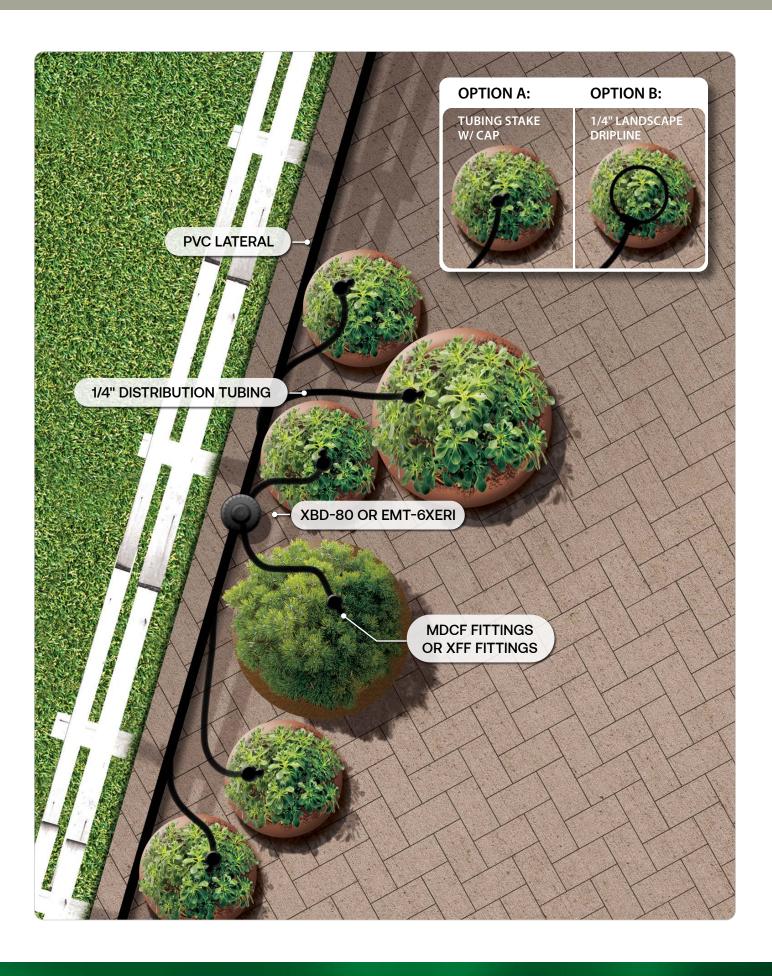
2.1 hr

3. 2 min/ EMT-6Xeri

4. 2 min

5.8 min/Pot

- Flush the zone after installation and 2-4 times per year.
- ♦ Adjust watering time as seasons/weather changes.



PATIO POTS ON SEPARATE ZONE

Pots will need different amounts of water based off pot size and plant material. (2 of 3)

ج Solution

Poly Tubing Lateral with Multi-Outlet Xeri-Bug

+ Root Booster STRIPS

Advantages

- Up to 60% water savings
- Poly tubing flexible for odd shaped areas
- Multi-Outlet Xeri-Bug ensures even watering to multiple pot
- Water half as often with Root Booster STRIPS



INSTALLATION PRODUCTS:

• XCZ-075-PRF 3/4" Xeri Control Zone Kit

• RBS-05-ST-30 Root Booster STRIPS 30 Gallon Bag

• XB-XX-6* Multi-Outlet Xeri-Bug (6 Outlet PC

Manifold w/ Barb Inlet)

XBS Xeri Black Stripe Poly Tubing

• XQ-100 1/4" Distribution Tubing

• TS-025 1/4" Tubing Stake

• DBC-025 Diffuser Bug Cap

* Select appropriate emitter flow rate







XB-XX-6



XBS

TO DO LIST:

- 1. Mix Root Booster STRIPS into the soil in a 1:20 ratio.
- 2. Cut and lay out poly lines.
- 3. Assemble Control Zone Kit and connect to water source and poly lines.
- 4. Punch hole in poly tubing and insert XB-XX-6 manifold.
- 5. Connect 1/4" tubing to XB-XX-6 barb outlets and run tubing to pots.
- 6. Stake in place with a bug cap on the end.

TIME: (approx.)

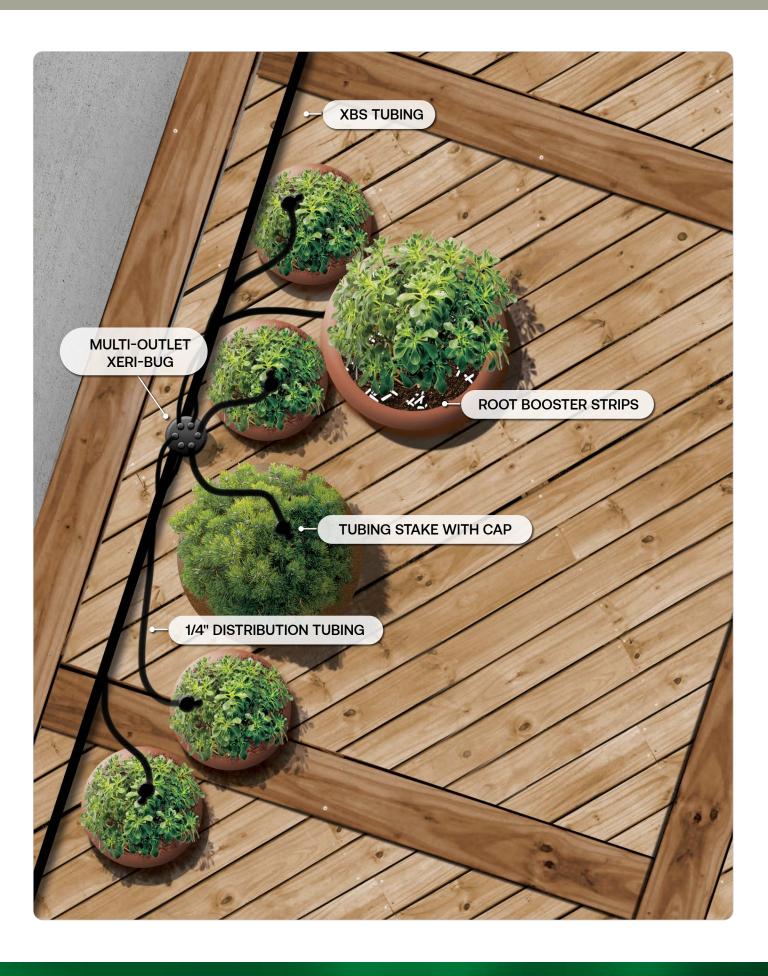
- 1.1 min/Pot
- 2. 30 min/50'
- 3.1 hr 15 min
- 4. 3 min/XB-XX-6
- 5.8 min/Pot
- 6.3 min/Pot

INSTALLATION AND MAINTENANCE TIPS:

• For invisible installation, run 1/4" tubing through the drain hole in the bottom of the pot prior to adding plant material.



Do not run 1/4" tubing more than 5'-8' from the XB emitter device.



PATIO POTS ON SEPARATE ZONE

Pots will need different amounts of water based off pot size and plant material. (3 of 3)

Solution

OPTION A: Poly Tubing Lateral with Xeri-Bug Barb Emitters OPTION B: Poly Tubing Lateral with 1/4" Landscape Dripline Loop

Advantages

- Up to 60% water savings
- Poly tubing flexible for odd shaped areas
- Xeri-Bug Emitters can accommodate the watering needs of a variety of potted plants



INSTALLATION PRODUCTS:

OPTION (A)

XCZ-075-PRF
 XBS Tubing
 XG-100
 XB XX*
 Xeri Black Stripe Poly Tubing
 1/4" Distribution Tubing
 XB XX*
 Xeri-Bug Pressure Compensating Drip Emitters (0.5 to 2.0 gph)

TS-025 1/4" Tubing StakeDBC-025 Diffuser Bug Cap

OPTION (B)

XCZ-075-PRF
XBS Tubing
XQ-100
XBF1CONN
XBF 3TEE
3/4" Xeri Control Zone Kit
Xeri Black Stripe Poly Tubing
1/4" Distribution Tubing
1/4" Barb Connector
1/4" Barb Tee

1/4" Landscape Dripline

TO-DO LIST (A):

- 1. Cut and lay out poly lines.
- 2. Assemble Control Zone Kit and connect to water source and poly lines.
- 3. Use Xeri-Bug Emitters' self-piercing barb to connect poly lateral tubing with 1/4" distribution tubes. Run 1/4" distribution tubes to pots.
- Connect distribution tubes to Tubing Stake with a bug cap on the end.

TIME (A):

- 1. 30 min/50'
- 2.1 hr 15 min
- 3.8 min/Pot
- 4. 3 min/Pot

TO-DO LIST (B):

• LDQ-08-06-050

- 1. Cut and lay out poly lines.
- 2. Assemble Control Zone Kit and connect to water source and poly lines.
- 3. Insert 1/4" barb connector into poly line, connect 1/4" distribution tubing to barb connector, run 1/4" lines to pots and connect tubing to barb tee. Then create loop by running 1/4" Landscape Dripline in a circle inside the pot and connect both ends to the barb tee.

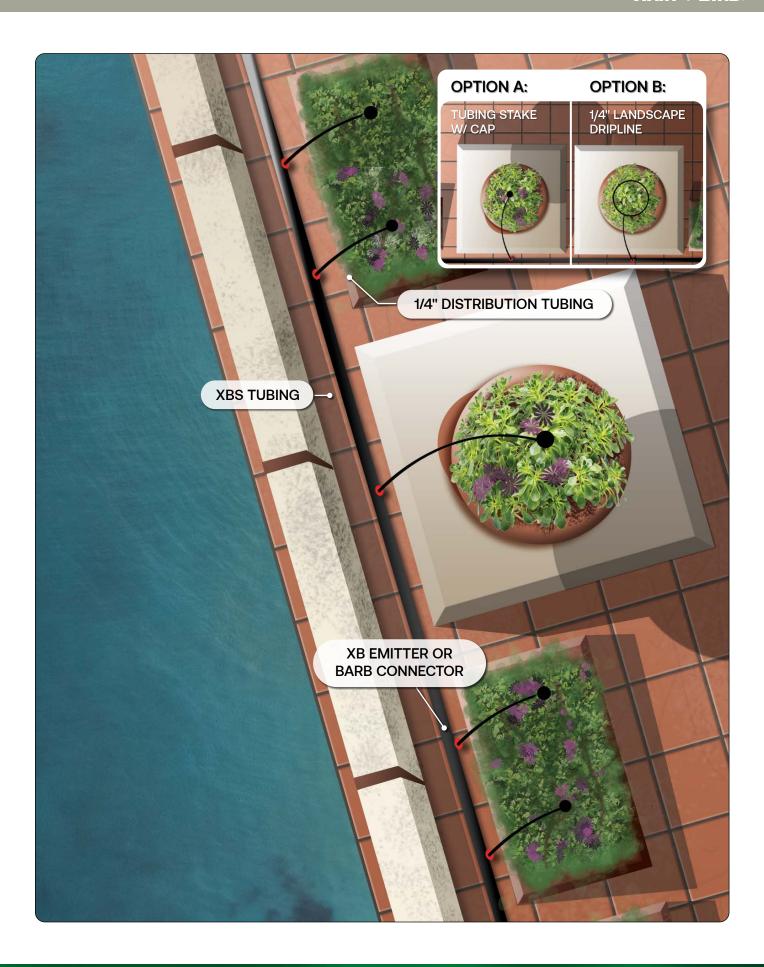
TIME (B):

- 1. 30 min/50'
- 2. 1 hr 15 min
- 3.8 min/Pot

INSTALLATION AND MAINTENANCE TIPS:

• Do not run 1/4" tubing more than 5'-8' from the XB emitter device.

^{*} Select appropriate emitter flow rate



HANGING BASKETS

cB Solution

OPTION A: Poly Tubing Lateral with Xeri-Bug Emitters OPTION B: Poly Tubing Lateral with 1/4" Landscape Dripline Loop

Advantages

- Up to 60% water savings
- · Targeted watering in baskets
- Eliminates hand watering
- · Connect to irrigation controller for consistent automatic watering
- XBCV Emitters feature built-in check valves which eliminates low point draininage and runoff by holding back water up to 10 ft. when system is off



INSTALLATION PRODUCTS:

OPTION (A):

• XCZ-075-PRF	3/4" Control Zone with 40 psi
	Pressure Regulator
• XBS	Xeri Black Stripe Poly Tubing
 XBCV-XXPC 	Xeri-Bug Emitters with Check Valve
	(0.5 to 2.0 gph)
• XQ-100	1/4" Distribution Tubing
 XM Tool 	XM Installation Tool
• Electrical Staples	1/2" Metal Staples
• TS-025	1/4" Tubing Stake

• LDQ-08-06-100

TO-DO LIST (A):

- 1. Assemble Control Zone Kit at water source and connect poly tube laterals to edge of structure.
- 2. Elbow poly lateral in vertical line up structure to eaves Staple poly lateral to structure.
- 3. Staple poly lateral along underside of eaves.
- 4. Use XM tool to punch 1/4" barb connector into poly Lateral above baskets.
- 5. Insert 1/4" barb connector into the poly line, Connect short length of 1/4" tubing to the barb connector.
- 6. Insert Xeri-Bug w/ Check Valve emitter at the other end of the 1/4" tubing Stake tubing in basket.

TIME (A):

- 1.1 hr
- 2.40 min/50'
- 3.5 min
- 4.1 min/ **Basket**
- 5.1 min/
- Basket
- 6.1 min/
- **Basket**

OPTION (B):

• XCZ-075-PRF	3/4" Xeri Control Zone Kit
• XBS	Xeri Black Stripe Poly Tubing
• XQ-100	1/4" Distribution Tubing
• XBF1CONN	1/4" Barb Connector
• XBF 3TEE	1/4" Barb Tee

1/4" Landscape Dripline

TIME (B):

1.1 hr

2.1 min

3.5 min

4.5 min

TO-DO LIST (B):

- 1. Assemble Control Zone Kit at water source and connect poly tube laterals to edge of structure.
- 2. Use XM Tool to punch 1/4" barb connector into poly lateral alongside potted plant.
- 3. Connect a length of 1/4" Distribution tubing into a drilled hole at the bottom of the pot.
- 4. Using 1/4" dripline, form a circular ring and connect to distribution tubing using a 1/4" barb tee.

- Flush the zone after installation and 2-4 times per year.
- ♦ Use XM Tool for faster installation of Xeri-Bug Emitters and 1/4" barb connectors.
- Break up watering cycles to avoid excess drainage.

^{*} Select appropriate emitter flow rate and barbed connection



GREEN WALLS

Half Moon Pots

c Solution

XF Series Blank Dripline with Misters and Emitters

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• XFD100 XF Series Blank Tubing (100 ft. Coil) XQ100 XQ Series 1/4" Distribution Tubing (100ft.)

 XCZ-100-PRF 1" Medium Flow Control Zone Kit

 X360ADJMIST Xeri-Spray - Full-Circle Adjustable Mister

• SPB025 Barb Transfer Fitting •*XBCV-05PC Xeri-Bug 0.5 GPH with a Check Valve TS025WCAP 1/4 in. Drip Tubing Stake with Bug Cap • MDCF Series Easy Fit Compression Fittings/Adapters • XFFTFA050 Low Profile XF Tee Female Adapter Fitting PFRFRA 12 in. Polyflex Riser & Adapter Assembly ARV 050

1/2" Air Relief Valve

• MDCF-COUP Easy Fit Fitting with Flush Cap

• + MDCFCAP



XF SERIES **BLANK TUBING**



FULL CIRCLE MISTER



MDCF FITTINGS



XERI-BUG **EMITTER**



AIR RELIEF VALVE



FLUSH CAP

* Select appropriate emitter flow rate and barbed or threaded connection

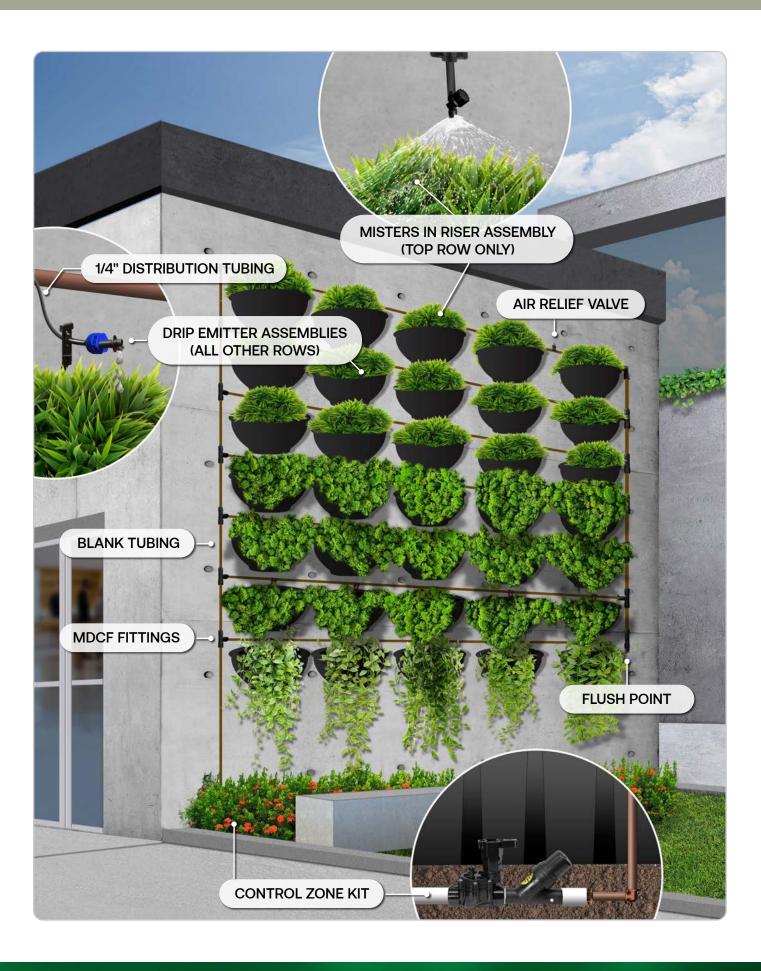
TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Cut lengths of XF Series Blank Tubing to form grid on wall.
- 3. Connect lengths of XF Series Blank Tubing to Easy Fit Fittings, add 1/2" Air Relief Valve and add Flush Cap to end. Connect to Control Zone Kit.
- Make Mister assemblies for top row: XFFTFA050 → PFRFRA→ X360ADJMIST
- Make Drip Emitter assemblies for bottom rows: SPB025 → XQ-100→TS025WCAP→XBCV-05PC
- 6. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.10 min/50'
- 3. 30 min/50'
- 4. 15 min/5 Assemblies
- 5. 60 min/30 Assemblies
- 6. Variable

- Flush the zone upon installation and 2-4 times per year.
- ♦ Install 1/2" Air Relief Valve Kit at high point in the system.
- Leave XF Series Blank Tubing coil in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.



GREEN WALLS

Wall Garden Grow Bag

Solution

XF Series Dripline and Misters

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• *XFCV061200 XFCV Dripline with Heavy-Duty Check Valve

XFD100 XF Series Blank Tubing (100 ft. Coil)
 XCZ-100-PRF 1" Medium Flow Control Zone Kit

X360ADJMIST Xeri-Spray - Full-Circle Adjustable Mister
 MDCF Series Easy Fit Compression Fittings/Adapters
 XFFTFA050 Low Profile XF Tee Female Adapter Fitting
 PFRFRA 12 in. Polyflex Riser & Adapter Assembly

MDCF-COUP Easy Fit Fitting with Flush Cap

+ MDCFCAP

ARV-050 1/2" Air Relief Valve



XF SERIES BLANK TUBING



XFCV DRIPLINE



FULL CIRCLE MISTER



MDCF FITTINGS

TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Cut lengths of XF Series Blank Tubing and Dripline to form grid on wall.
- 3. Connect lengths of XF Series Blank Tubing and Dripline to Easy Fit Fittings, and add 1/2" Air Relief Valve and Flush Cap to end. Connect to Control Zone Kit.
- 4. Make Mister assemblies for top row: XFFTFA050 → PFRFRA→ X360ADJMIST
- 5. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.10 min/50'
- 3. 30 min/50'
- 4. 15 min/5 Assemblies
- 5. Variable

- Flush the zone upon installation and 2-4 times per year.
- Leave XF Series Blank Tubing and Dripline coils in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.

^{*} Select appropriate dripline model based off emitter flow rate (0.6 or 0.9 gph) and emitter distance (12" or 18")



GREEN WALLS

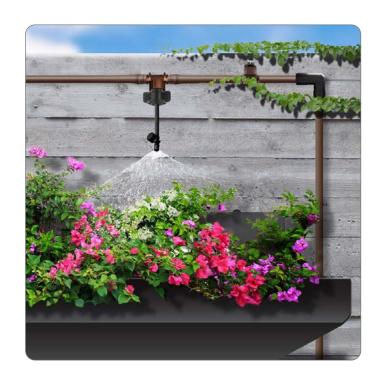
Trough Shelves

Solution

1/4" Dripline, Misters, and Root Booster STRIPS

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings
- STRIPS will hold the moisture in the blocks preventing run-off and pooling



INSTALLATION PRODUCTS

XFD100 XF Series Blank Tubing (100 ft. Coil)
 *LDQ0812100 1/4" Landscape Dripline, (0.8 gph)
 RBS-05-ST-30 Root Booster STRIPS 30 Gallon Bag
 SPB025 Barb Transfer Fitting

• XCZ-100-PRF 1" Medium Flow Control Zone Kit

X360ADJMIST Xeri-Spray - Full-Circle Adjustable Mister
 MDCF Series Easy Fit Compression Fittings/Adapters
 XFFTFA050 Low Profile XF Tee Female Adapter

PFRFRA
 12 in. Polyflex Riser & Adapter Assembly

MDCF-COUP
 Easy Fit Fitting with Flush Cap

+ MDCFCAP

• ARV-050 1/2" Air Relief Valve



XF SERIES BLANK TUBING



FULL CIRCLE MISTER



1/4" LANDSCAPE DRIPLINE



MDCF FITTINGS



AIR RELIEF VALVE



FLUSH CAP

TO DO LIST:

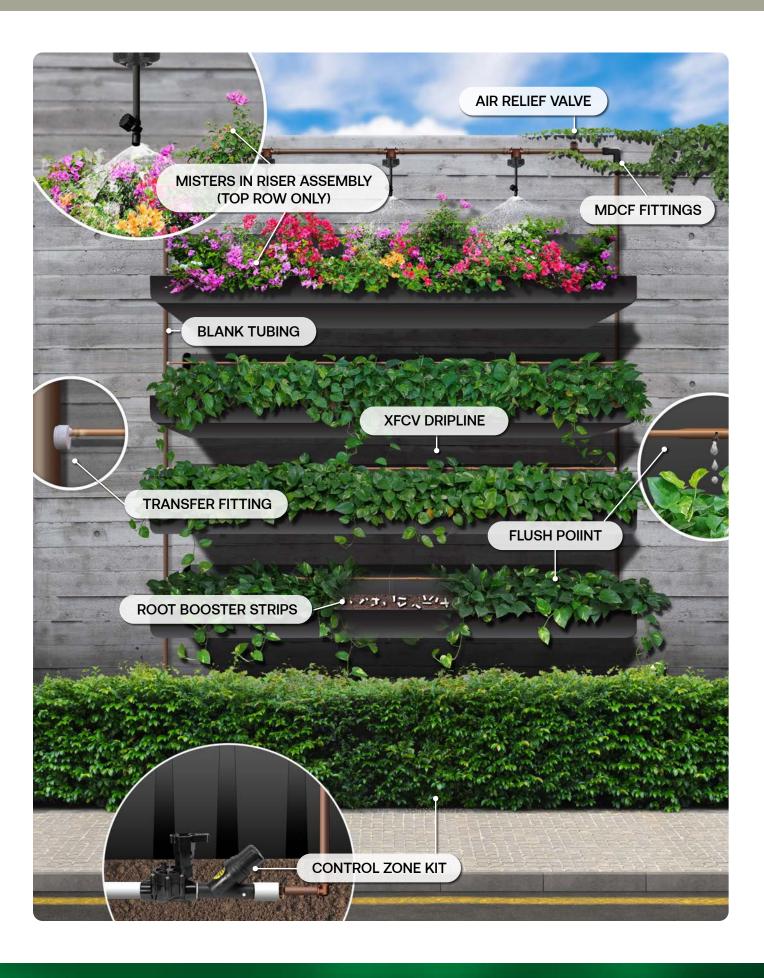
- 1. Assemble Control Zone Kit and connect to water source.
- 2. Cut lengths of XF Series Blank Tubing and 1/4" Dripline to form grid on wall.
- 3. Connect lengths of XF Series Blank Tubing and 1/4" Dripline to Easy Fit Fittings, barb trasfer fittings, connect Air Relief Valve, and add Flush Cap to end. Connect to Control Zone Kit.
- 4. Make Mister assemblies for top row: XFFTFA050 → PFRFRA→ X360ADJMIST
- 5. Mix Root Booster STRIPS into the soil in a 1:20 ratio.
- 6. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.10 min/50'
- 3. 30 min/50'
- 4. 15 min/5 Assemblies
- 5. 10 min
- 6. Variable

- Flush the zone upon installation and 2-4 times per year.
- ♦ Leave XF Series Blank Tubing and 1/4" Dripline coils in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.

^{*} Select appropriate 1/4" dripline model based off of emitter distance (6" or 12")



GREEN ROOF

Turf and Small Trees

cB Solution

XF Series Dripline, Xeri-Bug Emitters, and Root Booster NET Under Dripline

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings



INSTALLATION PRODUCTS:

• *XFS-CV-06-12-500 XFS-CV Dripline With Copper Shield™

Technology and • Heavy-Duty Check Valve

•**XBCV-20PC Xeri-Bug Emitterwith Check Valve

• XQ100 XQ Series 1/4" Distribution Tubing (100ft.)

• XBF1CONN 1/4" Barb Transfer Fittings

• XCZ-100-PRF 1" Medium Flow Control Zone Kit

• MDCF-COUP Easy Fit Fitting with Flush Cap

+ MDCFCAP

• TDS-6050 Tie Down Stake (50 pack)

• XFFTFA050 Low Profile XF Tee Female Adapter

• ARV-050 1/2" Air Relief Valve

* Select appropriate dripline model based off emitter flow rate (0.4, 0.6, or 0.9 gph) and emitter distance (12" or 18")

* Select Xeri-Bug Emitter based off flow rate (0.5, 1.0, or 2.0 GPH)



XFS-CV DRIPLINE



XERI-BUG EMITTER



AIR RELIEF VALVE



MDCF FITTINGS



FLUSH CAP

TO DO LIST:

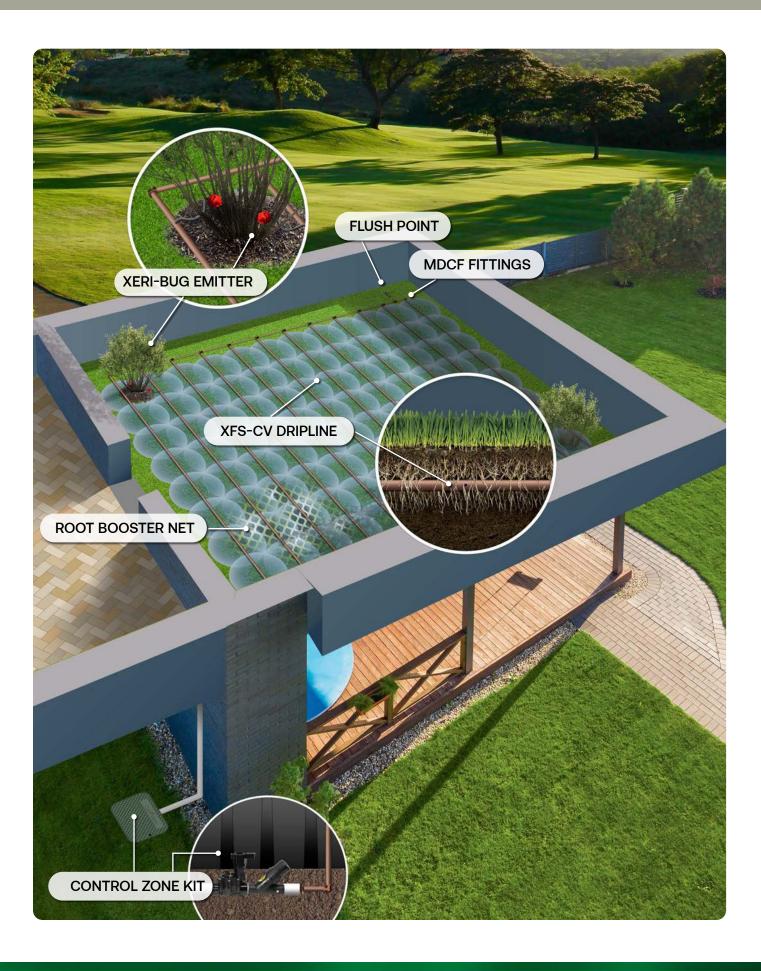
- 1. Assemble Control Zone Kit and connect to water source.
- 2. Install Root Booster NET across ground before dripline or grass lay approximately 4" deep.
- 3. Cut lengths of XFS-CV Dripline to form subsurface grid.
- 4. Connect rows of XFS-CV Dripline to Easy Fit Fittings, barb trasfer fittings, and add Flush Cap to end. Connect to Control Zone Kit.
- 5. Install turf above dripline grid.

INSTALLATION AND MAINTENANCE TIPS:

- Flush the zone upon installation and 2-4 times per year.
- Leave XF Series Dripline coil in the sun while preparing for installation.
- ♦ Break up watering cycles to avoid run off or pooling of water in blocks.
- ♦ Use XFS-CV Series Dripline to protect against root intrusion

TIME: (approx.)

- 1.1 hr
- 2.30 min
- 3.10 min/50'
- 4. 30 min/50'
- 5. 10 min/50'



ROOF GARDEN

Shrubs and Plants

c Solution

XBS Blank Tubing, Xeri-Bug Emitters, Xeri-Spray, and Root Booster STRIPS Mixed Into Subsoil

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas



INSTALLATION PRODUCTS:

• XBS700G100 XBS 700 - 1/2" XBS Black Stripe Blank Tubing

RBS-05-ST-30 Root Booster STRIPS 30 Gallon Bag
 *XBCV-20PC Xeri-Bug Emitter with Check Valve

SXB-360 Full-circle Bubbler, 8streams,10-32thread
 XQ100 XQ Series 1/4" Distribution Tubing (100ft.)

TLF FITTINGS 600 Series for 1/2" tubing
 TDS-6050 Tie Down Stake (50 pack)
 XCZ-100-PRF 1" Medium Flow Control 7c

XCZ-100-PRF
 MDCF-COUP
 "Medium Flow Control Zone Kit
 Easy Fit Fitting with Flush Cap

+ MDCFCAP

• XFFTFA050 Low Profile XF Tee Female Adapter

ARV-050 1/2" Air Relief Valve



ROOT BOOSTER STRIPS



TUBING



FULL CIRCLE BUBBLER



XERI-BUG EMITTER



TLF FITTINGS

TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Connect rows of XBS Black Stripe Tubing to TLF Fittings, add air relief valve, and add Flush Cap to end. Connect to Control Zone Kit.
- 3. Connect Sprays and Xeri-Bug Emitters to XBS Tubing with XQ Series 1/4" Distribution Tubing.
- 4. Mix Root Booster STRIPS into the plant holes in a 1:20 ratio
- 5. Install planting material
- 6. Cover with topsoil or mulch

TIME: (approx.)

- 1.1 hr
- 2. 30 min / 50°
- 3. 2 min. / plant
- 4. 30 min
- 5. Variable
- 6. Variable

- Flush the zone upon installation and 2-4 times per year.
- Install 1/2" Air Relief Valve Kit at high point in the system.
- ♦ Leave XBS coil in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.

^{*} Select Xeri-Bug Emitter based off flow rate (0.5, 1.0, or 2.0 GPH)



TREES

Small to Large Trees

Solution

SQ Nozzles

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas



INSTALLATION PRODUCTS:

• 3QTR SQ Series Square Pattern Nozzles - 3 Quarter Spray Pattern

• 1806 1800 Series Spray Heads

• RISER 2" Riser

• XCZ-100-PRF 1" Medium Flow Control Zone Kit



SQ NOZZLES



RISER



1800 SPRAY BODY

TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Connect PVC Assembly and install below grade.
- 3. Connect Risers to PVC Assemblies.
- 4. Connect SQ Nozzles to 1800 Spray Bodies and connect to Risers
- 5. Adjust SQ Nozzles for 2.5 ft. or 5 ft. throw distance

TIME: (approx.)

- 1.1 hr
- 2.1 hr
- 3.5 min.
- 4.10 min.
- 5. 5 min.

- Flush the zone upon installation and 2-4 times per year.
- ♦ Install 1/2" Air Relief Valve Kit at high point in the system.
- Break up watering cycles to avoid run off or pooling of water in blocks.



TREES

Tree Rings

Solution

XF Series Dripline + Root Booster NET for trees

Advantages

- Up to 60% water savings due to zero wind loss
- Targeted watering helps reduce erosion of wall
- No runoff = reduced liability in high traffic areas
- XF Dripline is easy to install, resulting in labor savings





INSTALLATION PRODUCTS:

XFS-CV-06-12-250 XFS-CV Dripline (250 ft. Coil)
 RBS-02-N-250 Root Booster NET 250 Sq. Ft.
 XFF-TEE 17mm Barb x Barb x Barb Tee

XFD-CROSS Barb cross 17mm x 17mm x 17mm x 17mm x 17mm
 XFF-MA-075 17mm Barb x 3/4" MPT Male Adapter

• TDS-6050 Tie Down Stake (50 pack)

• ARV 050 1/2" Air Relief Valve

• XFF-TFA-050 Barb tee female adapter 17mm x 1/2" FPT x 17mm

• MDCF-COUP Easy Fit Fitting with Flush Cap

+ MDCFCAP

• XCZ-100-PRF 1" Medium Flow Control Zone Kit

* Select appropriate dripline model based off emitter flow rate (0.4, 0.6, or 0.9 gph) and emitter distance (12" or 18")



ROOT BOOSTER NET



XFS-CV DRIPLINE



XF ADAPTER FITTING



XFD CROSS FITTING



XFF TEE FITTING

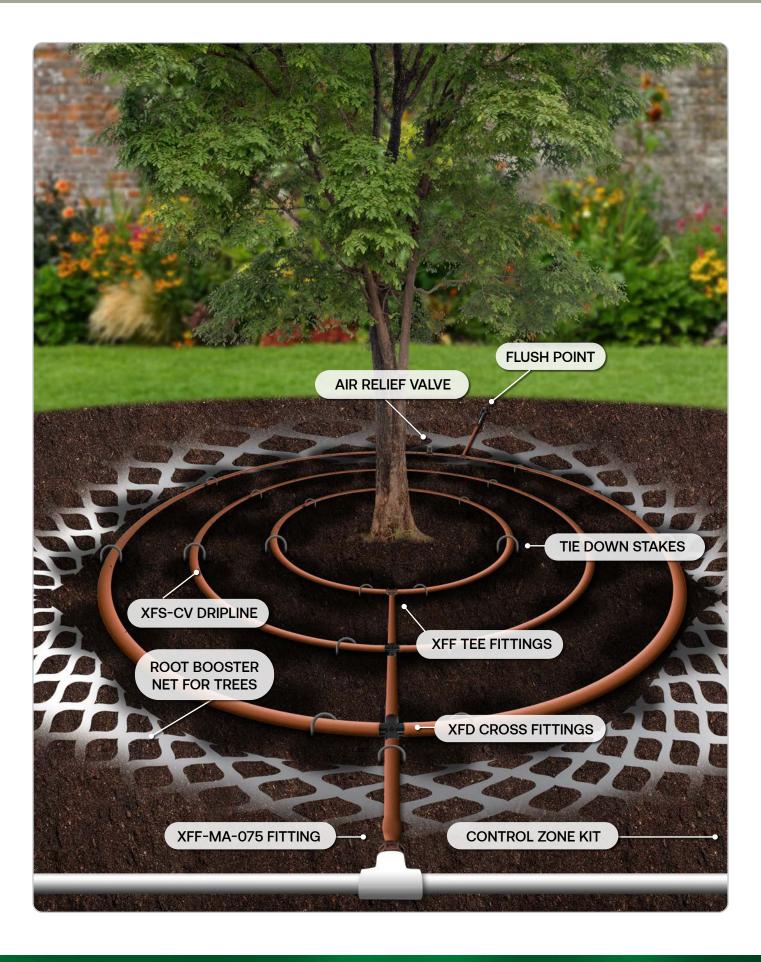
TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Install Root Booster NET in the tree pit or wrap around the root ball before dropping into pit.
- 3. Cut lengths of XF Series Dripline and connect into circular grid with fittings and tie down stakes. Connect to Control Zone Kit.
- 4. Assemble and install Air Relief Valve: XFF-TFA-050 → ARV050 (1/2" Air Relief Valve)
- 5. Assemble and install Flush Point: MDCF-COUP → MDCF-CAP (Flush Cap)
- 6. Install planting material.

TIME: (approx.)

- 1.1 hr
- 2.15 min
- 3.10 min/50'
- 4. 5 min
- 5. 5 min
- 6. Variable

- Flush the zone upon installation and 2-4 times per year.
- ♦ Install 1/2" Air Relief Valve Kit at high point in the system.
- ♦ Leave dripline coil in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.



TREES

Combination Applications

cb Solution

Root Watering Series with XF Series Dripline Blank Tubing

Advantages

- Helps prevent damage to hardscapes from tree roots
- Promotes health in trees and shrubs
- Vandal resistant



INSTALLATION PRODUCTS:

XCZ-100-PRF 1" Control Zone Kit

RWS or RWS-M RWS Root Watering Series
XFD-XXX XF Series Blank Tubing

SPB-025 1/4" Self Piercing Barb Connector

XQ-100 1/4" Distribution Tubing

XB XX* Xeri-Bug Pressure Compensating Drip Emitters (0.5 to 2.0 gph)

PC-XX Pressure Compensating Module

(be sure to use a PC Diffuser Cap)

Add other drip products as needed (optional)

* Select appropriate emitter flow rate



XFD



RWS

TO DO LIST:

- 1. Assemble Control Zone Kit and connect to water source.
- 2. Connect lengths of XF Blank Tubing and insert two to four 1/4" Self Piercing Barb Connectors for each tree. Attach length of 1/4" distribution tubing to each barb connector.
- 3. Connect Blank Tubing to RWS Root Watering Series unit, secure the 1/4" distribution tubing in the 1/4" tubing support brackets at the top of the RWS and install the appropriate Xeri-Bug or PC Module with Diffuser Cap emitter at the end of the tubing.
- 4. Install additional drip products as needed for other plant material (optional).
- 5. Flush system until water runs clear.

TIME: (approx.)

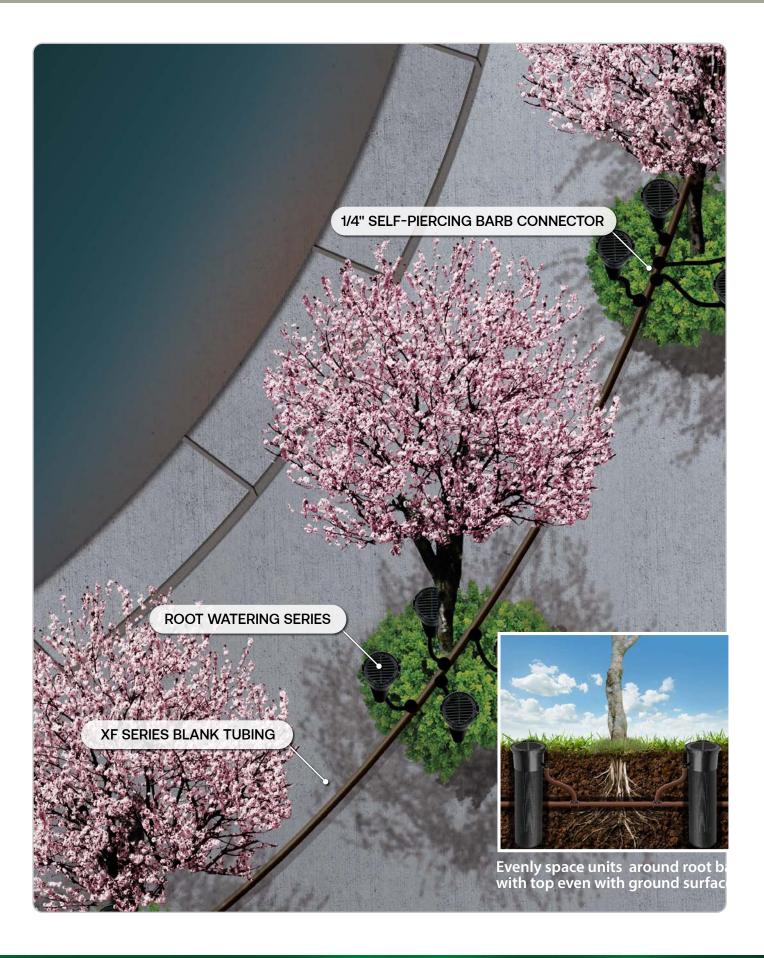
- 1.1 hr
- 2.10 min/50'
- 3.10 min/RWS
- 4. as needed
- 5. Variable

INSTALLATION AND MAINTENANCE TIPS:

- Flush the zone after installation and 2-4 times per year.
- Leave XF Series Dripline Blank Tubing coils in the sun while preparing for installation.
- Install emitters and 1/4" Self Piercing Barbs with a Xeriman Tool (XM Tool) for 50% faster installation.



Use two RWS for young/newly planted trees. Use three to four RWS for older/more mature trees.





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Specification Hotline 800-458-3005 (U.S. and Canada) Rain Bird International, Inc. 1000 West Sierra Madre Ave. Azusa, CA 91702 Phone: (626) 963-9311 Fax: (626) 852-7343

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