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.

Benefits of Xerigation®

- Design flexibility
- Elimination of overspray and runoff
- High water efficiency
- 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.

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.

**Demonstrated Water Savings**

*Inland Empire Utilities Agency (IEUA) Building - Chino, CA*

**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 achieve a LEED Platinum Rating.
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Anatomy of Xerigation®/ Landscape Drip System Overview

Broasted 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

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 l/h GPH emitters for most sparse planting schemes, and 1.9 l/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.
## DENSE PLANTING

<table>
<thead>
<tr>
<th>Planting Scheme</th>
<th>Emission Device</th>
<th>Applications</th>
<th>Pressure Compensation</th>
<th>Spray Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Xeri Sprays and Misters</td>
<td>Ideal for ground cover, mass plantings, annual flower beds</td>
<td>no</td>
<td>Quarter Circle Stream / Finger</td>
</tr>
<tr>
<td></td>
<td>Xeri 360 True Spray</td>
<td>Ideal for ground cover, mass plantings, annual flower beds</td>
<td>no</td>
<td>Full Circle Mist</td>
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<tr>
<td></td>
<td>SQ Series Nozzles</td>
<td>Commercial grade Small or defined areas with dense plantings</td>
<td>yes</td>
<td>Square Pattern - Quarter</td>
</tr>
</tbody>
</table>

## SPARSE PLANTING

<table>
<thead>
<tr>
<th>Planting Scheme</th>
<th>Emission Device</th>
<th>Applications</th>
<th>Pressure Compensation</th>
<th>Spray Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Xeri Bug Emitters</td>
<td>Low flow emitters for watering the root zones of individual plants, shrubs, and trees</td>
<td>yes</td>
<td>Drip</td>
</tr>
<tr>
<td></td>
<td>Xeri Bug Emitters with Check Valve</td>
<td>Low flow emitters for watering the root zones of individual plants, shrubs, trees, containers and hanging baskets, especially when elevated or on a slope</td>
<td>yes</td>
<td>Drip</td>
</tr>
<tr>
<td></td>
<td>Xeri Bug Multi Outlet</td>
<td>Use for watering the root zones of plants and trees and container plants</td>
<td>yes</td>
<td>Drip</td>
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<tr>
<td></td>
<td>PC Modules</td>
<td>Watering larger shrubs and trees with higher water requirements:</td>
<td>yes</td>
<td>Drip</td>
</tr>
<tr>
<td></td>
<td>Xeri Bubblers</td>
<td>Ideal for shrubs, trees, containers and flower beds Use anywhere clogging is a concern or there is heavy mineral content in the water</td>
<td>no</td>
<td>180 stream</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>360 stream</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>360 umbrella</td>
</tr>
<tr>
<td>Planting Scheme</td>
<td>Emission Device</td>
<td>Radius</td>
<td>Flow Rate</td>
<td>Inlet Options</td>
</tr>
<tr>
<td>----------------</td>
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<td>-----------</td>
<td>---------------</td>
</tr>
<tr>
<td>DENSE PLANTING</td>
<td>Xeri Sprays and Misters</td>
<td>Imperial: 0 to 10.6 ft. 0 to 13.4 ft. Metric: 0 to 3.2 m 0 to 4.1 m</td>
<td>Imperial: 0 to 29 @ 30 psi Metric: 0 to 109.8 l/h @ 2.07 psi</td>
<td>10-32</td>
</tr>
<tr>
<td></td>
<td>Xeri 360 True Spray</td>
<td>Imperial: 0 to 6.7 ft. Metric: 0 to 2 m</td>
<td>Imperial: 0 to 17 gph @ 15 psi; 0 to 24.5 gph @ 30 psi Metric: 0 to 64 l/h at 100 kPa 0 to 92.7 l/h at 200 kPa</td>
<td>Spike, Barb, or 10-32</td>
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<tr>
<td></td>
<td>SQ Series Nozzles</td>
<td>Adjustable 2.5' or 4'</td>
<td>6 gph 12 gph 18 gph 24 gph</td>
<td>Thread</td>
</tr>
<tr>
<td>SPARSE PLANTING</td>
<td>Xeri Bug Emitters</td>
<td>Drip</td>
<td>1 gph, 2 gph 0.5 gph, 1 gph, 2 gph 0.5 gph, 1 gph, 2 gph</td>
<td>1/2” FPT, Barb, or 10-32</td>
</tr>
<tr>
<td></td>
<td>Xeri Bug Emitters with Check Valve</td>
<td>Drip</td>
<td>0.5 gph, 1 gph, 2 gph 0.5 gph, 1 gph, 2 gph</td>
<td>Barb</td>
</tr>
<tr>
<td></td>
<td>Xeri Bug Multi Outlet</td>
<td>Drip</td>
<td>0.5 gph, 1 gph, 2 gph 0.5 gph, 1 gph, 2 gph</td>
<td>1/2” FPT or Barb</td>
</tr>
<tr>
<td></td>
<td>PC Modules</td>
<td>Drip</td>
<td>5 gph, 7 gph, 10 gph 5 gph, 7 gph, 10 gph 12 gph, 18 gph, 24 gph</td>
<td>1/2” FPT</td>
</tr>
<tr>
<td></td>
<td>Xeri Bubblers</td>
<td>0 - 2.2' radius 0 - 0.58 m diameter</td>
<td>0 to 35 gph @ 30 psi 0 to 26 gph @ 15 psi</td>
<td>0 to 132.48 l/h @ 21 bar 0 to 98 l/h at 1 bar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 - 2' radius 0 - 0.58 m diameter</td>
<td>0 to 35 gph @ 30 psi 0 to 26 gph @ 15 psi</td>
<td>0 to 132.48 l/h @ 21 bar 0 to 98 l/h at 1 bar</td>
</tr>
</tbody>
</table>

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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.

Using a Xeriman™ Tool, insert a barbed emitter directly into drip tubing or between dripline emitters.

For more precise water placement, add 6mm distribution tubing, a 6mm tubing stake.

Use a Diffuser Bug Cap at the end of 6mm distribution tubing to prevent clogging caused by bugs and other debris.

The Multi-Outlet Xeri-Bug provides centralized water distribution for up to six plants. All six outlets have the same flow rate. Connect the ¼" distribution tubing to one of the outlets on the Multi-Outlet Xeri-Bug. Use a ¼" 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 ½" or ¾" drip tubing, XF Dripline or Landscape Dripline
- Cuts emitter installation time
- All-in-one tool inserts emitters, removes emitters, inserts ¼" 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.

A barbed connector can be punched into distribution tubing. The emitter is then placed at the end of the 6mm distribution tubing.

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

Connect a spiked emitter (on a stake) to drip tubing via a barb connector and 6mm tubing.

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.

Use a 10-32 threaded emitter or micro spray with a PolyFlex Riser Assembly

Use an Easy Fit Tee and Female Adapter, to attach a PolyFlex riser with 10-32 thread emitter to drip tubing.

Add a PC Diffuser Cap to eliminate squirting as needed.

The SQ can be connected to PE or PVC via a PolyFlex Riser Assembly with an SQ ADP adapter.
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 Manifold provides 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.

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.

- Accepts Xeri-Bug emitters or PC Modules
- Always install the emitters with the pointed or threaded end up
Rain Bird Control Zone Kits

Reduced Material and Labor Costs
- Typically lower cost than individual 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
RESIDENTIAL CONTROL ZONE KITS

**Residential Low Flow: 0.2 - 10 gpm**
- XACZ-075-PRF
  - FLOW: 0.2 - 5 gpm
- XCZ-075-PRF
  - FLOW: 0.2 - 5 gpm
- XCZLF-100-PRF
  - FLOW: 0.2 - 10 gpm

**Residential Medium Flow: 3 - 15 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 Valve
• TDS-050-30: Tie Down Stake
• XB XX*: Xeri-Bug Pressure Compensating Drip Emitters (0.5 to 2.0 gph)
• XQ-100: 1/4” Distribution Tubing
• TDS-6050: Galvanized Tie Down Stake
• DCB-025: Diffuser Bug Cap

* Select appropriate emitter flow rate

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.

INSTALLATION AND MAINTENANCE TIPS:
♦ 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.

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
FLOWER BEDS

SLOPES

SPOTS & BASKETS

GREEN WALLS

GREEN ROOFS

NARROW PLANTING BEDS

MEDIANS OR DIVIDERS

TUBING STAKE W/CAP

TIE DOWN STAKES

XB Emitter

MDCF FITTINGS

XFS DRIPLINE

XFD DRIPLINE

AIR RELIEF VALVE

www.rainbird.com
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 Sch-80 Riser 1/2” MPT
• DCB-025 Diffuser Bug Cap
• PVC Misc. PVC Laterals, Fittings, Glue
• SEB7X Emitter Box (optional)

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

INSTALLATION AND MAINTENANCE TIPS:
• 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

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
- MDCF Series
- XFF Series
- TDS-050 BEND

XFCV Dripline .6 gph @ 12" spacing
Easy Fit Compression Fittings/Adapters
XFF Dripline 17mm Insert Fittings
Tie Down Stake

INSTALLATION AND MAINTENANCE TIPS:

- 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.

TIME: (approx.)
1. 1 hr
2. 10 min/50’
3. 30 min/50’
4. 5 min/10’
5. Variable

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.
XFCV DRIPLINE

MDCF FITTINGS or XFF FITTINGS

WATER SOURCE

TIE DOWN STAKES

FLOWER BEDS

SLOPES

SPOTS & BASKETS

GREEN WALLS

GREEN ROOFS

MEDIANS OR DIVIDERS

TREES
NARROW PLANTING BED NEXT TO CLUBHOUSE OR CART PATH
Sparse Application

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  1/4" Distribution Tubing
• TS-025  1/4" Tubing Stake
• DCB-025 Diffuser Bug Caps
• PVC Misc. PVC Laterals, Fittings, Glue
• SEB7X Emitter Box

* Select appropriate emitter flow rate and barbed or threaded connection

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 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

INSTALLATION AND MAINTENANCE TIPS:

♦ 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 Cap
- SEB7X Emitter Box (optional)

* Select appropriate emitter flow

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

INSTALLATION AND MAINTENANCE TIPS:
- 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.
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
• ARV050 ½” Air Relief Valve
• ARV050 MDCF Series Easy Fit Compression Fittings
• XFF Series XFF Dripline 17mm Insert Fittings
• TDS-050 Tie Down Stake

ROOT BOOSTER NET

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

INSTALLATION AND MAINTENANCE TIPS:

◆ 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

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

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 Adapter 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.
2.5 PVC LATERAL

SQ NOZZLE ON SCHEDULE 80 RISER or POLYFLEX RISER

ROOT BOOSTER STRIPS
NARROW PLANTING BED NEXT TO A STRUCTURE
Combination Applications

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

INSTALLATION PRODUCTS:
• 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" Air 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 Stake
• DCB-025 Diffuser Bug Cap

* Select appropriate emitter flow rate

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.
3. 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.

INSTALLATION AND MAINTENANCE TIPS:
♦ 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.
AIR RELIEF VALVE

XB EMITTER

TUBING STAKE WITH CAP

XFD DRIPLINE

TIE DOWN STAKES

XFF FITTINGS

BUILDING

FLOWER BEDS

SLOPES

POTS & BASKETS

GREEN WALLS

GREEN ROOFS

TREES

PLANTING BEDS

MEDIANS OR DIVIDERS
NARROW PLANTING BED
NEXT TO A STRUCTURE
Dense Applications

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
• XCZ-100-PRF
• ARV 050
• MDCF Series
• XFF Series
• TDS-6050

XF Series Dripline .6 gph @ 12” Spacing
1” Xeri Control Zone Kit
1/2” Air Relief Valve
Easy Fit Compression Fittings/Adapters
XFF Dripline 17mm Insert Fittings
Tie Down Stake (50 pack)

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’
5. 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.
◆ Break up watering cycles to avoid run off or pooling of water in blocks.
◆ Use XFS Series Dripline to protect against root intrusion.
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

* Select appropriate emitter flow rate

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

INSTALLATION AND MAINTENANCE TIPS:
- 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.
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 Series 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)

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 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.
FLOWER BEDS
SLOPES & BASKETS
GREEN WALLS
GREEN ROOFS
TREES

MDCF FITTINGS or XFF FITTINGS

ROOT BOOSTER NET

XF SERIES DRIPLINE

TIE DOWN STAKES
**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*  
- 180XX  
- SA–XXX  
- PVC Misc

<table>
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<td>SQ–XXX*</td>
</tr>
<tr>
<td>1800 Series Spray Head with Desired Pop-up Height</td>
<td>180XX</td>
</tr>
<tr>
<td>SA Series Swing Assembly</td>
<td>SA–XXX</td>
</tr>
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<td>PVC Lateral, Fittings, Glue</td>
<td>PVC Misc</td>
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* 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)
4. 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)
6. 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.

**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*  
- 18XX  
- SA–XXX  
- PVC Misc

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* 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.
4. Cut PVC laterals and glue in Slip x Slip x Threaded Tee assembly.
5. Flush system until water flows clear.

**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.
Solution (Combination)

- PVC LATERAL
- 1800 SPRAY HEAD WITH SQ SERIES NOZZLE

Solution #2

- PVC LATERAL
- 1800 SPRAY HEAD WITH SQ SERIES NOZZLE
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

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

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.
• Supplemental Xeri-Bug Emitters or Pressure Compensating Modules are placed next to larger plants with higher water requirements.
FLOWER BEDS
SLOPES & BASKETS
GREEN WALLS
GREEN ROOFS
NARROW PLANTING BEDS/MEDIANS/ OR DIVIDERS

TUBING STAKE WITH CAP

XF SERIES DRIPLINE

TIE DOWN STAKES

XFF FITTINGS

XB Emitter

TO WATER SUPPLY

AIR RELIEF VALVE

www.rainbird.com
SLOPES
Dense or Combination Applications

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 drainage 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 Stake
• TDS-6050 Tie Down Stake
• XM Tool Xeriman Installation Tool
• DBC-025 Diffuser Bug Cap

* Select appropriate emitter flow rate

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
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

* Select appropriate emitter flow rate

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

INSTALLATION AND MAINTENANCE TIPS:

- 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.
PATIO POTS ON SEPARATE ZONE

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

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 Xeri-Bird 8 Outlet Manifold
- XB XX* 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

TO-DO LIST (A):
1. Trench (as needed), 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 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.*

TIME (A):
1. 1 hr/20'
2. 1 hr
3. 5 min
4. 2 min/XBD-80
5. 8 min/Pot
6. 2 min

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 (B):
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.
5. 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

INSTALLATION AND MAINTENANCE TIPS:

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

* Emitter varies by location (0.5 to 2.0 gph)
OPTION A: TUBING STAKE W/ CAP

OPTION B: 1/4" LANDSCAPE DRIPLINE

1/4" DISTRIBUTION TUBING

XBD-80 OR EMT-6XERI

MDCF FITTINGS OR XFF FITTINGS
PATIO POTS ON SEPARATE ZONE

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

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

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.

Drip Tip

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:**

<table>
<thead>
<tr>
<th>OPTION (A)</th>
<th>OPTION (B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• XCZ-075-PRF</td>
<td>3/4&quot; Xeri Control Zone Kit</td>
</tr>
<tr>
<td>• XBS Tubing</td>
<td>Xeri Black Stripe Poly Tubing</td>
</tr>
<tr>
<td>• XQ-100</td>
<td>1/4&quot; Distribution Tubing</td>
</tr>
<tr>
<td>• XB XX*</td>
<td>Xeri-Bug Pressure Compensating Drip Emitters (0.5 to 2.0 gph)</td>
</tr>
<tr>
<td>• TS-025</td>
<td>1/4&quot; Tubing Stake</td>
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<tr>
<td>• DBC-025</td>
<td>Diffuser Bug Cap</td>
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<tr>
<td>• XBF1CONN</td>
<td>1/4&quot; Barb Connector</td>
</tr>
<tr>
<td>• XBF 3TEE</td>
<td>1/4&quot; Barb Tee</td>
</tr>
<tr>
<td>• LDQ-08-06-050</td>
<td>1/4&quot; Landscape Dripline</td>
</tr>
</tbody>
</table>

* Select appropriate emitter flow rate

**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.
4. 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):**

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.
FLOWER BEDS
SLOPES & BASKETS
GREEN WALLS
GREEN ROOFS
TREES
PLANTING BEDS
 Phụ nữ

OPTION A:
TUBING STAKE W/ CAP

OPTION B:
1/4" LANDSCAPE DRIPLINE

1/4" DISTRIBUTION TUBING

XBS TUBING

XB EMITTER OR BARB CONNECTOR
HANGING BASKETS

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 drainage 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

* Select appropriate emitter flow rate and barbed connection

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
• LDQ-08-06-100 1/4” Landscape Dripline

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.

TIME (B):
1. 1 hr
2. 1 min
3. 5 min
4. 5 min

INSTALLATION AND MAINTENANCE TIPS:
♦ 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.
GREEN WALLS

Half Moon Pots

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)
• XQI00  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

* Select appropriate emitter flow rate and barbed or threaded connection

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

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.
4. Make Mister assemblies for top row: XFFTFA050 ➔ PFRFRA ➔ X360ADJMIST
5. Make Drip Emitter assemblies for bottom rows: SPB025 ➔ XQ-100 ➔ TS025WCAP ➔ XBCV-05PC
6. Install planting material.

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 Blank Tubing coil in the sun while preparing for installation.
• Break up watering cycles to avoid run off or pooling of water in blocks.
FLOWER BEDS

SLOPES

SPOTS & BASKETS

GREEN WALLS

GREEN ROOFS

TREES

MISTERS IN RISER ASSEMBLY (TOP ROW ONLY)

AIR RELIEF VALVE

1/4" DISTRIBUTION TUBING

DRIP EMITTER ASSEMBLIES (ALL OTHER ROWS)

BLANK TUBING

MDCF FITTINGS

FLUSH POINT

CONTROL ZONE KIT
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:
• *XFV061200 XFCV Dripline with Heavy-Duty Check Valve
• XFD100 XF Series Blank Tubing (100 ft. Coil)
• XCF-100-PRF 1" Medium Flow Control Zone Kit
• X360ADJ MIST 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
• MDCF-CAP + MDCF-CAP
• ARV-050 1/2" Air Relief Valve

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

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 ➔ X360ADJ MIST
5. Install planting material.

TIME: (approx.)
1. 1 hr
2. 10 min/50’
3. 30 min/50’
4. 15 min/5 Assemblies
5. Variable

INSTALLATION AND MAINTENANCE TIPS:
• 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.
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
• SP8025  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

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

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 transfer 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

INSTALLATION AND MAINTENANCE TIPS:

♦ 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.
GREEN ROOF
Turf and Small Trees

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 Emitter with 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 Series Easy Fit Compression Fittings/Adapters
• MDCF-COUP Easy Fit Fitting with Flush Cap
+ MDCF-CAP
• 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)

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 transfer 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
ROOF GARDEN
Shrubs and Plants

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 - 12” 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, 8 streams, 10-32 thread
- 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 Zone Kit
- MDCF-COUP Easy Fit Fitting with Flush Cap
  + MDCFCAP
- XFFTFA050 Low Profile XF Tee Female Adapter
- ARV-050 1/2” Air Relief Valve
* Select Xeri-Bug Emitter based off flow rate (0.5, 1.0, or 2.0 GPH)

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

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 XBS coil in the sun while preparing for installation.
- Break up watering cycles to avoid run off or pooling of water in blocks.
FLOWER BEDS
SLOPES & BASKETS
GREEN WALLS
GREEN ROOFS
TREES
NARROW PLANTING BEDS
MEDIANS OR DIVIDERS
POTS & BASKETS

XERI-SPRAY
AIR RELIEF VALVE
XERI-BUG EMITTER
XBS TUBING
ROOT BOOSTER STRIPS
XQ SERIES 1/4” DISTRIBUTION TUBING
CONTROL ZONE KIT

www.rainbird.com
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

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.

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.
- Break up watering cycles to avoid run off or pooling of water in blocks.
SQ NOZZLE
3 QUARTER SPRAY

SQ NOZZLES
CAN BE ADJUSTED
TO THROW WATER
2.5 FT OR 4 FT. FOR
LARGER TREES

SQ NOZZLE
1800 SPRAY BODY

PVC ASSEMBLY
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
- 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")

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

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 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**

**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

**OR**

- 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

**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.
Evenly space units around root ball with top even with ground surface.
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