

Creating Beautiful Landscapes Is Easy With Rain Bird Drip Products





Drip Irrigation Made Easy

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Your Best Choice

Rain Bird Drip is easy to install, it's versatile and you can add and remove drip devices as the need arises. And because it's Rain Bird, you know your system will last. So get started with confidence, knowing that changing your system is almost as simple as changing your mind.

Getting Started

The first step in designing and installing your Rain Bird Drip system is determining whether you want a manual (Drip Connection Kit) or an automatic (Rain Bird Easy Rain Battery Controller) system. You'll find more information about this in the section entitled "Water Supply Connections."

Drip Devices

Next, you'll select the best drip devices to deliver water to your plant material. To help you make your selection, we've pictured different planting schemes in this guide and shown the recommended drip watering devices that should be used.

Completing the Design

Once you've decided what type of watering devices you'll use, the information from page 17-23 will help you optimize your watering scheme and complete your design. Rain Bird Drip products are easy to use and reliable, expert advice is only a phone call away at 1-800-Rain Bird (1-800-724-6247).

Drip Product List

- .5 GPH Emitter XB05
- 1 GPH Emitter XB10
- 2 GPH Emitter XB20
- Diffuser DBC025
- Goof Plugs EMAGPX
- Self-Piercing Barb Connector SPB025
- Stream Xeri-Bubbler SXB180
- Stream Xeri-Bubbler
 SXB360
- 90° Xeri-Spray XS090
- 180° Xeri-Spray XS180
- Xeri True-Spray XS360TT
- ¼" Barb Connector BF1
- ¼" Barb Elbow BF2
- ¼" Barb Tee BF3
- Mounting Clip MC025
- Six-Outlet Manifold EMT6X
- Image: Weight Strength Stre
- Spray Head Adapter XBA1800
- /2" Comp x ¾" FHT Swivel 700CF20
- 3/4" FHT x ½" MPT Adapter FHT050M
- 700 Series Comp x ½" FPT Adapter 700CF50
- Figure-8 End Closure 700CF22



Helpful Hint: You can use this page to create a list of products needed.

- Drip Installation Tool XMTOOL
- ½" Compression Tee MDCF Tee
- ½" Compression Elbow MDCF Elbow
- ½" Compression Coupling MDCF Coupling
- Reducing Coupling 700CF5
- ¼" Tubing Stake TS025
- Pressure Regulator PSIL30X
- Pressure Regulator in stem PRS050
- Filter Element RBY200M
- Xeri True-Spray XS360TS
- Polyflex Riser/Stake PFRRS
- Tie-Down Stake TDS050
- Multi-Outlet Manifold XBD80
- Retrofit Kit RETRO
- In-Line Filter RBY075
- Drip Tubing Cutter PPC200X
- ¼" Drip Tubing 50 ft DT2550
- I/4" Drip Tubing 100 ft DT25100
- ½" Drip Tubing (.615" x .705") 100 ft XBS100
- ½" Drip Tubing (.615" x .705") 500 ft XBS500



Water Supply Connections

Rain Bird Drip provides a number of ways to introduce low-volume, drip irrigation to your landscape. From easy-to-install components that draw water directly from an outside faucet to automatic drip zones that allow you to schedule watering times with a battery controller or an existing sprinkler timer, Rain Bird has a drip irrigation solution for every budget.

Simple Manual Connection



Drip Connection Kit

- This Drip Connection Kit makes it easy to connect your drip irrigation system directly to your faucet.
- It includes an atmospheric vacuum breaker for your faucet/hose bib (increasingly required by local plumbing codes), a combination filter/regulator and the adapters needed to connect your drip system to your faucet/hose bib.



Use desired length of garden hose to reach your drip tubing. Combined length of hose and drip tubing should not exceed 250 feet.



Helpful Hint:

If system pressure exceeds 80 psi but is less than 130 psi, add a PSI-L30X to your manual or professional connection.

Water Supply Connections

Professional Connections

XCZ-075

Contains everything you need to control the flow of water to a drip irrigation system*.

Includes XBV-075 ball valve, RBY-075-200MX in-line filter, 75-DVX remote control valve, PSI-L30X pressure regulator and two ³/₄" x 1 ¹/₂" schedule 80 nipples.



XACZ-075

- Contains everything you need to control the flow of water to a drip irrigation system in areas which allow atmospheric back-flow preventers*.
- Includes XBV-075 ball valve, RBY-075-200MX in-line filter, 75-ASVF irrigation valve with flow control and atmospheric backflow preventer, PSI-L30X pressure regulator and two ³/₄" x 1 ¹/₂" schedule 80 nipples.





Automate Your Drip Irrigation!

- The Easy Rain controller automatically turns your drip irrigation system on and off for precise, pre-set periods of irrigation.
- Its battery-operated, single-knob control makes installation and programming easy.
- For worry-free drip irrigation, nothing's more convenient than Easy Rain.

* Consult your local plumbing code for backflow prevention requirements.



Helpful Hint:

If you want to connect your drip zone to an existing controller, combine an In-Line Filter and Pressure Regulator with a DV valve and ball valve from underground section of store.



Sprinkler System Conversion



RETRO 1800

Easily converts existing spray system to water-saving drip. Filtration and pressure regulation in one convenient package. Screws onto $1/2^{"}$ riser in place of spray head. Other sprinklers may be capped off if desired.

- Great for retrofit of existing spray system
- Provides 30 psi pressure regulation
- Built-in 200-mesh filter
- I/2" MNPT swivel outlet for serviceability
- Flow: 0.5 to 4.0 GPM (30-240 GPH) Pressure: 15 to 70 psi



* These two T's handle most common sizes of drip tubing.

PRS-050

When your pressure exceeds 50 psi, use this convenient regulator to deliver a consistent 30 psi to your drip components. Ideal for use with EMT-6X and XBD-80. $\frac{1}{2}$ " FPT x $\frac{1}{2}$ " MPT configuration. O-ring seal permits direct burial.



XBD-80 Eight-Outlet Manifold with Easy Access, 200-Mesh Screen

- Éight independent outlets
- Built-in screen unscrews at top
- Accepts Xeri-Bug[™] emitters and PC Modules (0.5-24.0 GPH per port)
- Internal plugs permit shut-off by port
- O-ring base nut permits removal from riser without tangling ¹/₄" tubing



Helpful Hint: Always install emitters with pointed end up as shown.



Existing System Connections

Adapters for 1/2" Risers and Rain Bird Spray Heads





10-32ASC

- Threads onto any 1/2" NPT riser
- Accepts any Xeri-Bubbler[™] or Xeri-Spray[™]
- Includes 200-mesh, in-riser screen (SR050-200X)



¼" Drip Tubing-50 ft DT2550 ¼" Drip Tubing-100 ft DT25100

- UV-resistant for long-term reliability
- Extends emitter outlets to desirable location
- Fits over barbed outlet ports and 1/4" barbs



¹/2" Drip Tubing (.615" x .705") - 100 ft XBS100

¹/₂" Drip Tubing (.615" x .705") - 500 ft XBS500

- Flexible drip poly tubing
- Resists kinks and damage
- UV-resistant for long-term reliability



XBA-1800 Adapter

- Threads onto any Rain Bird spray head or shrub adapter
- Accepts any Stream Xeri-Bubbler or Xeri-Spray
- 200-mesh, under-adapter screen included (1800SC-200X)





EMT-6X Six-Outlet Manifold Economical

- Uses ¹/₄" distribution tubing to deliver water directly to plant root zone
- Install desired emission device; Xeri-Bug[™] emitter, Stream Xeri-Bubbler or Xeri-Spray at end of each ¹/₄" tubing line
- Optional installation on ¹/₂" elbow as shown above allows ¹/₄" tubing to run parallel to the ground



Emitters: The Most Efficient Way To Water

Rain Bird Xeri-Bug[™] drip emitters put the water right where it's needed—at the plants' root zones. For long-term reliability, use Tubing Stakes and Diffuser Bug Caps with your Xeri-Bug emitters as shown. Place under mulch for maximum water savings or just above the mulch if you want to see the water. For best results, do not bury emitters underground.



For $\frac{1}{4}$ tubing length ≤ 5 feet (1.5 m)



For $\frac{1}{4}$ tubing length > 5 feet (1.5 m)

Choosing The Right Emitter



Helpful Hint: If runoff occurs, split your watering time into 2 or 3 shorter cycles. This will allow the water time to soak in.

.5' Point of

ischarae

Emitter Placement For Best Results



2 ft = 6 m



Use multiple emitter discharge points placed three*quarters of the way from the trunk to the outer canopy* of the plant as shown above. Space emitters equally apart as follows: 2 – 180°; 3 – 120°; 4 – 90°; etc. This watering scheme maximizes the efficiency of your drip system.

How To Water Plants, Shrubs and Trees

Installation Tips

Emitter/Stake/Bug Cap



5 ft max = 1.5 m of $\frac{1}{4}$ " tubing



SPB-025 1/" Drip Tubing

15 ft max = 4.5 m



 $\frac{1}{4}$ tubing max flow = 40 GPH @ 30 psi

Helpful Hint:

Use ¹/₄" Tees to feed multiple emitters from one ¹/₄" line. Use ¹/₄" Tubing Stake and Diffuser Bug Cap as shown for long-term reliability.

Easy Installation With XM-TOOL



Insert emitter into ½" drip tubing

XM-TOOL



Attach ¼" tubing to outlet barb





Insert ¼" tubing thru stake

Position emitter on the XM-TOOL



Insert diffuser bug cap into 1/4" tubing



Push stake into ground at base of plant

PPC-200X Cut your drip tubing cleanly and conveniently with Rain Bird's purple tubing cutters







Remove Xeri-Bug emitters from drip tubing quickly, cleanly and without leaving gaping holes

EMA-GPX goof plugs easily insert into drip tubing hole with XM-TOOL





Visible And Easily Adjustable Drip Watering

Use Rain Bird Xeri-Bubblers[™] when you want to make your drip system visible and when you need on-the-spot adjustments. They're also ideal if your water supply is from a well, pond or stream with high mineral content. Xeri-Bubblers unthread easily for quick cleaning.

SXB-180



Half-circle operation

- 5 gentle streams
- Turn outer cap to adjust flow/radius from full on to full off



- Full-circle operation
- 8 gentle streams
- Turn outer cap to adjust flow/radius from full on to full off

XS-360TS



- Adjusted to low flow, this Xeri-Spray[™] can turn into an umbrella bubbler
- Turn outer cap to adjust the flow/radius to desired flow

Helpful Hint: If runoff occurs,

time into 2 or 3 shorter cycles. This will allow the water

time to soak in.

split your watering

Choosing The Right Xeri-Bubbler

Xeri-Bubbler

Max 13 GPH/2' Radius @ 30 psi Max 49 l/h/0.6 m Radius @ 2 Bars



Best In

Loamy and Sandy Soils

Max 13 GPH/1 1/2' Radius @ 30 psi Max 49 l/h/0.4 m Radius @ 2 Bars

Max 24.5 GPH/6.7' Radius @ 30 psi Max 95 l/h/2 m Radius @ 2 Bars





Loamy and

Loamy and Sandy Soils Helpful Hint: These devices are well-suited for container use.



Helpful Hints:

 Use up to three '¹/₄" (8 mm) Tees to feed up to three Xeri-Bubblers from one '¹/₄" line.
 Install the SPB-025 with the XM-TOOL the same way you would install an emitter. (See pg. 9)

 Limit ¹/₄" tubing lengths to no more than 15'. Maximum flow through ¹/₄" tubing must not exceed 40 GPH @ 30 psi.

Xeri-Bubbler Placement For Best Results

Xeri-Bubblers and the XS-360TS, adjusted to perform like an umbrella bubbler, should be installed so that the wetting pattern covers as much of the area underneath the canopy of the plant as possible.





Fig. (1) Place two SXB-180 Xeri-Bubblers three quarters of the distance from stalk to canopy as shown.



Fig. (2) Install one SXB-360 Xeri-Bubbler or one XS-360TS close to the stalk as shown.

Placement for use with waterwells/troughs



Fig. (3) Install one SXB-360 Xeri-Bubbler or one XS-360TS in the trough as shown. Adjust to capture water in trough.

Xeri-Bubbler Installation Tips





Closely-Spaced Plantings

Use Rain Bird Xeri-Sprays[™] when you need to water closely-spaced plants with similar water requirements. This includes ground cover and annual color where drip watering each individual plant would be impractical and very time consuming.

XS-090



Quarter-circle operation

Turn knob to adjust flow/radius from full on to full off

XS-180



Half-circle operation

Turn knob to adjust flow/radius from full on to full off

XS-360TT



- Full-circle operation
- Turn outer cap to adjust flow/radius from full on to full off

Choosing The Right Xeri-Spray





Helpful Hint:

The watering requirements for young trees greatly increase over time (1-5 years). By using a separate watering line for trees, you can increase watering as the tree grows without overwatering other plants that would have been on the same irrigation line.

How To Water Closely-Spaced Plantings

Xeri-Spray Placement For Best Results

Xeri-Sprays should be installed so that their spray patterns overlap completely. This head-to-head pattern provides the most effective coverage while saving water at the same time.



Helpful Hint:

Reducing the radius of a Xeri-Spray reduces the flow proportionally. Designing your system based on maximum flows provides greater watering flexibility later.



Xeri-Spray Installation Tips

A Xeri-Spray is designed to thread onto the flexible riser included with each Riser Stake Assembly. The PPC-200X pipe cutters allow you to easily cut the 12" riser to the desired height.









Superior Alternative to Soaker Hose

Landscape Dripline waters evenly from beginning to end, won't clog and connects easily to your garden hose or faucet. Use it to water narrow planting areas, hedgerows or vegetable gardens. You can even insert extra Rain Bird emitters into Landscape Dripline to deliver more water to larger plants or to containers located several feet away from your installation.

- Individual emitters are pre-installed into Landscape Dripline
- Each inline emitter delivers 0.9 GPH (gallons per hour) or 0.6 GPH (gallons per hour)
- Operating pressure: 8-60 psi
- Clog-resistant



Landscape Dripline Connects Easily To The Drip Connection Kit

Everything you need to connect Landscape Dripline is included in the Drip Connection Kit. This tubing can be installed permanently in the area to be watered.



Landscape Dripline attaches easily.



Landscape Dripline stakes snap onto tubing and hold it securely in place.

Landscape Dripline Waters Narrow Planting Area Efficiently

- Landscape Dripline keeps water right where you want it in the narrow planting bed.
- Landscape Dripline won't overspray onto windows, walls or walkways.
- Landscape Dripline even works great under mulch to maximize your water savings.





Helpful Hint:

If unwanted runoff occurs, split your watering time into two or three shorter cycles. The total watering time should be at least as long as the single watering time. These shorter cycles provide time for the water to soak in.

How To Water Narrow Planting Areas, Hedgerows and Vegetable Gardens

Landscape Dripline Waters Hedgerows Conveniently

- Use tees and elbows to loop the Landscape Dripline around the hedgerow for optimum results.
- Connect the end of this loop to the beginning of the loop with an elbow and a tee. Professionals use this method to ensure long-term reliability.
- Follow these guidelines based on your water pressure at the start of your Landscape Dripline run.
- 35 psi 200 feet maximum
- 45 psi 230 feet maximum
- 60* psi 260 feet maximum



Landscape Dripline for Vegetable Gardens

Landscape Dripline is great for vegetable gardens because it delivers an even amount of water to the entire vegetable garden. In addition, extra Rain Bird emitters can be inserted directly into the Landscape Dripline if you have certain plantings that need extra water. Simply install your Landscape Dripline as shown in the diagram below.

Adapting A Landscape Dripline Grid To Larger Planting Areas

Landscape Dripline can also be used to water larger	Spacing Between Landscape Dripline Rows	Best In
grid approach. Simply use	12"	Sandy Soil
the spacing between the Dripline rows suggested	18"	Loamy Soil
in the table at right.	24"	Clay Soil



*When pressure exceeds 45 psi, clamps must be used with insert fittings to secure the Landscape Dripline tubing to the Landscape Dripline fittings. Compression fittings will hold to 50 psi.



Fittings and Other Useful Drip Products



1/4" Barb Connector for 1/4" tubing



1/4" Barb Elbow for 1/4" tubing



1/4" Barb Tee for 1/4" tubing



Mounting Clip holds ¹/₄" tubing when attached to wood surface



Adapts drip tubing (.7" O.D.) to $\frac{1}{2}$ " FPT threads



Compression Tee accepts ¹/₂" drip tubing (.7" O.D.)



³/₄" In-line 30 psi pressure regulator



Threads onto outside faucet or hose; accepts ¹/₂" *drip tubing* (.7" O.D.)



Figure-8 End Closure used to close the end of drip tubing line



Compression Elbow accepts ¹/₂" drip tubing (.7" O.D.)



200-mesh replacement filter



Converts garden hose threads to 1/2" MPT threads



Glues into ¹/₂" *slip PVC fitting; accepts* ¹/₂" *drip tubing (.7*" O.D.)



Compression Coupling accepts 1/2" drip tubing (.7" O.D.)



³/4" In-line "Y" filter with 200-mesh screen

Fittings and Other Useful Drip Products

Fittings and Helpful Hints

To ensure optimum performance and installation ease, we recommend the following guidelines:

Water Supply Connections

- Use an appropriate backflow prevention device approved by local plumbing codes.
- Use a 200-mesh filter, even with city water.
- If pressure exceeds 50 psi, use a 30 psi pressure regulator.

Design Considerations

- Don't exceed 240 GPH (gallons per hour) or 4 GPM (gallons per minute) through ¹/₂" drip tubing.
- Don't run ¹/₂" drip tubing more than 250 feet in any one direction.
- Use two or more emitters when watering large plants, shrubs and trees. Space equally from one another in a circle threefourths of the way between the trunk of the plant and the outermost canopy of the plant.
- Don't run more than five feet of ¹/₄" tubing from the end of any pressurecompensating Xeri-Bug[™] emitter.

When your ¹/₄" distribution tubing run is more than five feet, but less than 15 feet, insert the SPB-025 into the ¹/₂" drip tubing and install Xeri-Bug emitters, Xeri-Sprays[™] and Xeri-Bubblers[™] at the end of the ¹/₄" tubing.

Installation Tips

- Use metal or plastic tubing stakes to anchor drip tubing in the ground.
- Use compression tees, elbows and couplings for leak-free connections on your 1/2" drip tubing.
- Flush drip line thoroughly before installing any emission devices, then install a Figure-8 end closure at the end of the drip line.
- Use pressurecompensating emitters for convenient, even watering throughout the entire length of tubing.
- Don't forget to use stakes (TS-025) and Diffuser Caps (DBC-025) at the end of ¹/₄" tubing whenever you use a pressure-compensating Xeri-Bug emitter.

- Verify flow from all emission devices before you mulch over the planting area with bark nuggets. Mulch conserves water, insulates soil and hides tubing. Always install Diffuser Caps (DBC-025) when using shredded mulch.
- Don't mismatch compression fittings with the outer diameter of the drip tubing. Use the table below to ensure leak-free connections.

Maintenance Tips

- When using city water, annual filter inspection is typically sufficient provided you have flushed your drip line during installation.
- When using non-city water, check your filter after the first month of operation. How dirty the filter is after one month will help you determine how often you should clean your filter in the future.

O.D. Inch	Color Code of Compression Ends	Tubing
.620630	Green	Landscape Dripline
.680/.700	Black	Drip Tubing



Design Process Overview

Drip design is basically about estimating the daily water requirements of your plants and then choosing the best drip devices to deliver the required water efficiently. You can use the table on page 19 to estimate your plant water requirements or, when possible, ask your local nursery or call the Ag Extension Department at your state University or College. Your Rain Bird drip system is easy to modify, so proceed with confidence.

Step 1: Creating Your Plant List

On page 20, group your plant material by approximate water usage. Most professionals group plants into one of three categories: High Water Use, Medium Water Use and Low Water Use. For example, most trees, palms, annuals and color would fall into the "high" group. Roses, shrubs and individual plants would fall into the "medium" group. Plants that are native to your area and do well without much supplemental watering once they are established would fall into the "low" group category. Whenever possible, use a separate drip line to water your trees.

Step 2: Selecting Your Drip Devices

Review pages 8 to 15 and use that information to select the drip device best suited to each of your plants. Note the drip devices you select and their maximum flow rates on the Drip Design Worksheet on page 20. Then, follow the instructions on page 21 to determine the "Total System Flow" for your drip irrigation system.



Landscape Dripline shown with supplemental emitter installed at end of 1/4" tubing.

Designing Your Drip System

Plant Water Requirements

While it's best to ask your local nursery or the Ag Extension Department of your state University or College for plant water requirements, this chart is provided as a guideline.

Plant (Mature Canopy Diameter)	Water Required Per Day (Avg.)				
	Cool Climate	Warm/Humid Climate	Hot/Arid Climate		
Small Shrub	0.3 G	0.5 G	0.8 G		
(3 ft/91 cm)	(1.2 l)	(1.9 l)	(3.1 l)		
Large Shrub	0.7 G	1.4 G	2.1 G		
(5 ft/1.52 m)	(2.7 l)	(5.4 l)	(8.1 l)		
Small Tree	2.7 G	5.4 G	8.1 G		
(10 ft/3.05 m)	(10.3 l)	(20.5 l)	(30.8 l)		
Large Tree	10.9 G	21.7 G	32.6 G		
(20 ft/6.10 m)	(42.2 l)	(84.1 l)	(126.3 l)		
Ground Cover	.1 in/day	.1 in/day	.2 in/day		
	(0.25 cm/day)	(0.25 cm/day)	(.5 cm/day)		
Bedding Plants	.1 in/day	.1 in/day	.2 in/day		
	(0.25 cm/day)	(0.25 cm/day)	(.5 cm/day)		
Container	0.2 G	0.3 G	0.4 G		
(small)	(0.8 l)	(1.2 l)	(1.6 l)		
Container	0.3 G	0.4 G	0.6 G		
(large)	(1.2 l)	(1.6 l)	(2.3 l)		

To determine inches/hr of water applied by Landscape Drip	line us	se the following formula:
18.24 inches between rows of Landscape Dripline	=	inches per hour of water applied
To determine inches/hr of water applied by Xeri-Sprays:		
7960.1 inches between x average inches rows of Xeri-Sprays between Xeri-Sprays	=	inches per hour of water applied

Professional Watering Guidelines

240 GPH or 4 GPM (900 l/h or 15 l/m) Maximum flow recommended through $^{1/_{2}^{\rm u}}$ drip tubing.

250 Feet (75 m)

Maximum length of 1/2" drip tubing that can be run directly from the water supply to and through your watering area.



Drip Design Worksheet

		s e			
		(H) # of Device: For Plant Ty (C) × (F)			our Daily at uses the by the Total ie number of ad inches per
		(G) Total Flow Per Plant (E) × (F)			h. Determine ye e plant type thc quirement (B) . The result is th tivide calculate .9.
	Drip Device Selection	(F) # of Drip Devices Per Plant			n medium, then high e list above, select the le its Daily Water Re selected drip devices. andscape Dripline, c utirements on page 1
jn Worksheet		(E) Flow Rate (GPH)			plants first, the plants first, the allows. From th aily basis. Divid to water daily. Keri-Sprays or L plant water req
Drip Desig		(D) Drip Device Chosen			t low water usage ime in Hours as f int of water on a d eing delivered to th action of an hour ime run time for ?
		(C) Qty of This Plant Type			* Start with Watering T least amou Flow (G) be hours or fro * To determ
	Plant List	(B) Daily Water Requirement			j j
		(A) Plant Type*			Daily Watering 1

Drip Design Worksheets

Calculating Your Total System Flow

In order to have a reliable drip system, it's important that your Total System Flow not exceed 240 GPH. Use the information in columns "D" and "H" from your Drip Design Worksheet (p. 20) and complete this page to determine your Total System Flow.

	Xeri-E	Bug™ Dri	p Emitters		
Xeri-Bug Drip Emitter	Flow @ 15-50 psi (1-3	8 Bars)	# of Emitter	ſS	Flow
XB-05	0.5 GPH (2 l/h)	x		=	GPH (l/h)
XB-10	1 GPH (4 l/h)	x		=	GPH (l/h)
XB-20	2 GPH (8 l/h)	x		=	GPH (l/h)
		Total	Emitter Flow	=	GPH (l/h) ◄
	Х	eri-Bub	blers™		
Xeri-Bubbler	Flow @ 30 psi (2 Bars))	# of Xeri-Bu	ubblers	Flow
SXB-180	13 GPH (49 l/h)	x		=	GPH (l/h)
SXB-360	13 GPH (49 l/h)	x		=	GPH (l/h)
XS-360TT	24.5 GPH (95 l/h)	x		=	GPH (l/h)
XS-360TS	24.5 GPH (95 l/h)	x		=	GPH (l/h)
	Tot	al Xeri-B	ubbler Flow	=	GPH (l/h) ◄
		Xeri-Spi	′ays™		
Xeri-Spray	Flow @ 30 psi (2 Bars))	# of Xeri-Sp	orays	Flow
XS-090	31 GPH (120 l/h)	x		=	GPH (l/h)
XS-180	31 GPH (120 l/h)	х		=	GPH (l/h)
XS-360TT	24.5 GPH (95 l/h)	x		=	GPH (l/h)
XS-360TS	24.5 GPH (95 l/h)	x		=	GPH (l/h)
	1	iotal Xer	i-Spray Flow	=	GPH (l/h) ◄
	Lan	dscape	Dripline		
Ft. of Landscape Driplin	ne = # of Inline Emitter	s F	low per Inline E	mitter	Flow
	=	x 0	.9 GPH (3,5 l	/h) =	GPH (l/h) ◄
	To	al Sys	stem Flow	= _	GPH (I/h)<



Graph Chart



Drawing Your Drip System

Graph Chart



Rain Bird Legend

Our commitment to managing natural resources is legendary.



An ancient Indian legend tells of a terrible drought that befell the land hundreds of years ago. Crops withered and the watering holes dried up. For a generation there was no relief. Everyone but the children gave up hope. Then, one day, a great bird overheard the children's simple, urgent prayers. The bird flew to the heavens and returned with the long-awaited, life-giving rain. The bird-like appearance of the efficient impact sprinkler, which the company founders introduced to the world in 1935, prompted them to name their new company after the great rain bird of Indian legend. And so the modern Rain Bird legend was born.

Since our dramatic entrance into the market more than 60 years ago, Rain Bird has grown into the largest manufacturer of irrigation systems in the world. Quality products. Water-saving solutions. Worldwide service and support. At every step, our focus has been to manage and conserve our planet's most valuable, natural resource—water. Rain Bird. Because every drop counts.



Rain Bird Sales, Inc. 970 West Sierra Madre Avenue Azusa, CA 91702 1-800-724-6247

www.rainbird.com