LEED® and Rain Bird
Water-Efficient Products◆

Pressure Regulating Devices

Maintain optimal water pressure. Every 5 psi reduction in pressure reduces water usage by 6-8%. A 70 psi system reduced to a recommended 30 psi can provide more than 50% in water savings.[1]

Product

1800-PRS
1800-SAM-PRS
1800-SAM-P45
RD1800-PRS
1800 PCS Screens
PA-8S-PRS & PA-8S-P45
5000/5000 Plus with PRS
TSJ-PRS Swing Joints
PRS-Dial
Drip Control Zone Kit

[1] Derived from Bernouli's equation (5.19). Refer to Roberson/ Crowe, Engineering Fluid Mechanics (Fourth Edition), Houghton Mifflin Co., Boston MA 1990

Check Valve Devices

Prevent water from draining out of the system at the lowest sprinkler, which eliminates erosion and run-off.

Product

1800-SAM/1800-SAM-PRS/1800-SAM-P45
UNI-Spray™ with SAM
RD1800-SAM
3500-SAM
5000-SAM
8005 (SAM pre-installed)
6504 (SAM pre-installed)
XFCV Dripline
XFS-CV Dripline
RWS Root Watering Series

High Efficiency Nozzles

Provide more uniform distribution of water and eliminate over-spray which can result in 30%+ water savings.[2]

Product

R-VAN Rotary Nozzles
U-Series Nozzles
HE-VAN Nozzles
Matched Precipitation Rate (MPR) Nozzles
SQ Square Nozzles (formerly XPCN
Rain Curtain Nozzles
5000/5000 Plus MPR Nozzle

[2] U-Series nozzle water savings based on manufacturer's testing. Rotary-type nozzles use 20-30% less water than traditional spray heads because they operate with lower precipitation rates, greater uniformity of distribution, and a greater radius of cover age, according to the Metropolitan Water District of Southern California. Savings of 22-41% were also shown with rotary-type nozzles in the CUWA Water Savings Study.

Direct-to-Plant-Root Watering Devices

Apply water slowly and directly to the roots of plants, using 30-50% less water than sprinkler irrigation and eliminating overspray and run-off.[6]

Product

Drip Emission Devices
XF Series Dripline
RWS Root Watering Series
1/4" Landscape Dripline

[6] Bilderback,T.E., and M.A. Powell. Efficient Irrigation. North Carolina Extension Service, Publication Number AG-508-6, March 1996. 21 January 2005.

◆ *All claims of water savings dependent on proper design, installation, and maintenance of irrigation products. Actual water savings may vary from user to user depending on weather, irrigation system and site conditions, and previous irrigation practices.*

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Centralized Control Systems

Enable users of large sites to control multiple controllers, sensors, and other irrigation devices from one central location. Can result in water savings of 25-45% a year, depending on current water management practices.[3]

Product

IQ Platform
Site Control
Maxicom Central Control

[3] Water savings are average values for multiple installations. Case studies verifying these water savings can be found on the LEED website as well as Rain Bird's Site Report web page.

Smart Controller Technologies

Adjust irrigation based on site specific variables including weather and soil moisture level. Smart controllers can reduce water use by up to 40% or more.[4]

Product

ESP-LXMEF Controller
ESP-LX Series with IQ™ Flow Sensing

[4] Based on water agency (Irvine Ranch Water District, City of Santa Barbara, Cities of Boulder, Longmont, Greenley) and manufacturer case studies of ET-type controllers.

Automatic Controllers with Water Efficient Features

Enables the end user to easily adjust watering cycles to adapt to diverse landscapes and weather/seasonal changes.

Product

ESP-TM2 Controller with LNK WiDg Module
ESP-Me Controller with LNK WiDg Module
ESP-ME3 Controller with LNK WiDg Module
ESP-LXME/F Series
ESP-LXD Series

Automatic Shut-Off Devices

Automatically shut-off the controller when it is raining or sufficient moisture is detected, resulting in water savings of 15-20%.[5]

Product

RSD Rain Sensor
SMRT-Y Soil Moisture Sensor Kit
WR2 Wireless Rain and Rain/Freeze Sensors

[5] Water savings confirmed in the Water Efficient Irrigation Study Final Report (May 12, 2003), conducted by the Saving Water Partnership (a coalition of water purveyors in the Puget Sound Region of Washington).

Commercial Pump Stations

Part of a complete reclaimed water irrigation system. VFD pump stations enjoy greater efficiency than constant speed pump stations.

Product

CLP Series Pump Station
Low Profile Pump Station (LP)
D-, DP-, DPX- Series Pump Stations
Engineered Pumping Solutions

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Rain Bird Corporation
6991 E. Southpoint Road • Tucson, AZ 85756
Phone: (520) 741-6100 • Fax: (520) 741-6522

www.rainbird.com

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