



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	Catalog Page*
1800-PRS	p. 11
1800-SAM-PRS	p. 13
1800-SAM-P45	p. 13
RD1800-PRS	catalog insert
1800 PCS Screens	p. 17-18
5000/5000 Plus with PRS	p. 47-52
TSJ-PRS Swing Joints	p. 69-70
PRS-Dial	p. 96-97
Drip Control Zone Kit	p. 190-204

¹ Derived from Bernoulli'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	Catalog Page*
1800-SAM/1800-SAM-PRS/ 1800-SAM-P45	p. 12-13
UNI-Spray™ with SAM	p. 14
RD1800-SAM	catalog insert
3500-SAM	p. 45-46
5000-SAM	p. 47-52
5505 (SAM pre-installed)	p. 55-61
8005 (SAM pre-installed)	p. 55-61
6504 (SAM pre-installed)	p. 62-65
RWS Root Watering Series	p. 208-209

♦ 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.

* Page number in Rain Bird 2012 Landscape Irrigation Catalog

High Efficiency Nozzles

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

Product	Catalog Page*
Rotary Nozzles	p. 20-22
U-Series Nozzles	p. 23-26
HE-VAN Nozzles	p. 27-28
Matched Precipitation Rate (MPR) Nozzles	p. 33-37
SQ Square Nozzles (formerly XPCN)	p. 38-39
Rain Curtain Nozzles	p. 43
5000/5000 Plus MPR Nozzle	p. 53-54

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 coverage, according to the Metropolitan Water District of Southern California. Savings of 22-41% were also shown with rotary-type nozzles in the [following 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	Catalog Page*
Drip Emission Devices	p. 164-177
XFS Dripline	p. 178-181
RWS Root Watering Series	p. 208-209
1/4" Landscape Dripline	p. 193

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





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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	Catalog Page*
IQ v2.0	p. 129-130
Site Control	p. 138-139
Maxicom ² ® Central Control	p. 141

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 www.rainbird.com/landscape/site_reports/index.htm.

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	Catalog Page*
ESP-SMT Smart Modular Control	p. 107-108
ESP-LXME with ET Manager Cartridge	p. 109
ET Manager Cartridge	p. 113

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.

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* Page number in Rain Bird 2012 Landscape Irrigation Catalog

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	Catalog Page*
STP Plus Controller	p. 105
ESP Modular Series	p. 106
ESP-LXME Series	p. 109
ESP-LXD Series	p. 111

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	Catalog Page*
RSD Rain Sensor	p. 124
Rain Check	p. 125
WR2 Wireless Rain and Rain/Freeze Sensors	p. 122-123

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	Catalog Page*
Low Profile Pump Station (LP)	p. 152
D-, DP-, DPX- Series Pump Stations	p.153
Engineered Pumping Solutions	p. 155-158



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