



IN THIS ISSUE:

Pressure Regulating Devices

Page 2

Intelligent Use of Water™ Summit

Page 2

Joint Restraint Systems

Page 3

Site Report: Jumeirah Islands

Page 3

Water Conservation Tip

Back Page

Site Report: Adelaide City Council

Back Page

PAGE
THREE

INSIDE

SITE REPORT: Dubai



To register to receive this newsletter electronically, please visit the following link:
www.rainbird.com/worldwide/enews.htm

ESP-LX Modular Controller: NEW One Controller for Any Installation

Designed to accommodate all high-end residential and commercial installations, Rain Bird's new ESP-LX Modular Controller is the most user-friendly modular controller ever. With its flexibility, reliable design and Extra Simple Programming, the ESP-LX Modular Controller saves contractors time and money by making installations more efficient and reducing callbacks.

Whether it's a simple home installation or a complex installation that requires advanced programming features, the ESP-LX Modular can be easily adapted to fulfill any project specification.

Expandable

Starting with an eight-station indoor or outdoor base model, the ESP-LX Modular has the capacity to expand up to 32 stations in increments of four or eight stations.

Flexible

Hot-swappable modules allows contractors to install modules in any available position without powering down the controller.

Easy to Use

A large display for simple operation and flexible programming options to meet specific landscape needs.

Save a Default Program

With Contractor Default™ you can set a default program that can be automatically restored at a later date. It is perfect for reloading an altered schedule or replacing a temporary schedule.

Easy Program Adjustments

Automatic seasonal or monthly adjustments to cut back on watering during cool weather and increase during hot weather.

Multiple Languages

Ability to program the controller in English, Spanish, German, French, and Chinese. Rain Bird has designed the ESP-LX Modular Controller to provide contractors with one controller perfect for any installation," said Ziggy, Rain Bird product manager. "Its ease of use, modular design and many time-saving features mean contractors are spending less time at each of their jobs, which allows them to fit more service calls into their days and helps them make more money."





Use Pressure Regulating Devices in High Pressure Situations

High or excessive water pressure can cause misting, fogging and uneven distribution of water in your customer's irrigation system. In the end, your customer has wasted hundreds or maybe thousands of dollars in water. As water restrictions continue to become more common around the world, your ability to set yourself apart from your competition by offering water savings products will only increase your bottom line.

Using Water Savings Products

1800 PRS

In-stem pressure regulator (PRS) ensures maximum spray head and nozzle performance at the recommended pressure of 2.1 bars, even with varying inlet pressures. For spray zones with excessive pressure, every 0.34 bar reduction in water pressure reduces water usage by 6-8%. The savings are over 50% if 4.8 bars spray is reduced to the recommended 2.1 bars.



5000 and 5000 Plus PRS Series Rotors

In-stem pressure regulator (PRS) reduces operating pressure to 3.1 bars for optimal nozzle performance and optimal droplet size, eliminating misting and resulting in improved uniformity and reduced water consumption.

Pressure Regulating Filter

Unique, compact unit combines filtration and pressure regulation in one unit for protection of downstream components in a low-volume irrigation system. Combination unit reduces the number of connections, making installation easier and faster.

TSJ-PRS Series

The TSJ-PRS combines the great flow characteristics of the Rain Bird turf swing joint with an inline pressure regulating outlet elbow for controlling and maintaining constant pressure right at the rotor inlet. Allows each rotor on a zone to operate at the same pressure, improving consistency and overall system performance.

PRS Dial

The PRS-Dial is an excellent means of regulating outlet pressure at the valve regardless of incoming pressure fluctuations. The visible scale makes installation quick and easy. The regulator fits all Rain Bird PGA, PEB, PESB, GB, EFB-CP, BPE and BPES series valves.



Calculate your customer's water savings easily online by visiting www.rainbird.com/calculators

Rain Bird's Third Intelligent Use of Water™ Summit

Forum Convenes at the University of Arizona to Address Global Conservation Initiatives and Strategies For The Desert and Beyond

Leading environmental and water conservation experts convened recently in Tucson, Arizona, to examine conservation initiatives and strategies relating to landscape irrigation at the third Intelligent Use of Water Summit, hosted by Rain Bird Corporation, the leading manufacturer and provider of irrigation products and services. The six-member symposium

focused on the relationship between water conservation and landscape water use, water conservation policies and legislation, and potential programs and initiatives to bring greater awareness to the need for water conservation.

In addition to calling for civic and business leaders to collaborate on the development and implementation of water conservation policies, the panel stressed the importance of assigning a value to water.

"Appropriate water rates offer an opportunity to augment various conservation programs as a way of encouraging water conservation," commented forum moderator Robert Glennon, Professor, University of Arizona's Rogers College of Law and author of *Water Follies: Groundwater Pumping And The Fate Of America's Fresh Waters*.

Rain Bird's third Intelligent Use of Water Summit comes on the heels of a recent U.N. report predicting an eminent and devastating global water shortage by the year 2025. The Summit focused on providing insight into various global water conservation policies, legislation, initiatives and trends toward greater awareness of the need for water conservation.

"With global water experts predicting that the conflicts of the future will be fought over water, it is essential that world leaders, environmental experts and the general public be aware of the need to conserve water," said Rain Bird Corporate Marketing Director, Dave Johnson. "It is up to companies like Rain Bird to make sure that the focus on water conservation extends beyond products and services and into actions that motivate corporations and the public-at-large to support initiatives that encourage water conservation."



Rain Bird Allied Products

Traditionally concrete thrust blocks have been poured behind fittings and around valves to prevent separation from fittings and valves. This method has proven ineffective. For a thrust block system to work, it must be poured against undisturbed soil, sized and formed precisely for each type of fitting and valve.

In the real world, some and often none of the above criteria are met. Designers provide suggestive construction details; soils are almost always unstable due to grading. Pouring the correct size, and shaping thrust blocks is often left to the field personnel. This exactness and guesswork can range from throwing a pre-mix concrete bag atop a fitting to a

Eliminate Thrust Blocks with Joint Restraint Systems

Solving Pipe Joint Problems

yard of concrete on top of a valve, making future valve repairs a very difficult task. All it takes for a joint to separate is 10 cm of thrust block movement.

Joint restraint systems eliminate the need for concrete thrust blocks, the pipeline becomes its own thrust block. By restraining joints, the thrust force is confined to the pipeline which is no longer dependent on soil composition, compactness and saturation. Joint connections can be made in the shortest possible time. There is no need to wait for concrete trucks to arrive or long waits for concrete to cure. The system can be pressurized as soon as the joints are



tightened. Repairs can be made with the trench soaked. Joint restraints are designed to get a system in operation in the least amount of time and effort.

If you would like more information, technical data or presentation resources please contact your Rain Bird Area Manager.

PAGE
THREE

PROFILE

SITE REPORT: Dubai

Conserving Landscape Water in Dubai — The Case of Jumeirah Islands Project

This project is another example of the iconic and daring projects that Nakheel Co. has launched during the last three years promoting Dubai as a vital and leading real estate and commercial hub in the world.

The Jumeirah Islands is a planned urban development shaped on 300 hectares of land with immense commercial and residential facilities. Water is the essence of the project, incorporated through a total of ten dynamic waterfalls ranging in height from three to ten metres, several canals, and five major calm lagoons. Throughout the development are 46 villa clusters, deluxe community apartment buildings, two lagoons featuring stylish townhouses, Jumeirah Island's Village, public parks, flower gardens, a community club and recreation center, amphitheatre, marina, walkway bridges, and cycling paths.

Various technologies have been implemented by Nakheel to reduce irrigation water consumption in Jumeirah Islands. This included selection and utilization of drought/heat tolerant plants, use of latest technology irrigation and control systems, rigid contractual guidelines on irrigation scheduling, and the incorporation of soil amendments.

In Jumeirah Island Project water conservation through creative landscaping & vast greenery in arid conditions has required a Rain Bird automatic irrigation system. The heart of the water conservation is a full-featured state-of-the-art SiteControl central control system. SiteControl collects ET (evapotranspiration) data from a Rain Bird weather station, then uses that data to dynamically control thirteen ESP-SAT satellite controllers linked by a two-wire interface. From the SiteControl central controller, the irrigation system can be scheduled for days to water, run times, linking schedules, ET sensitized scheduling and more.

Many other Rain Bird products were used in this project as well, including a large amount of Rain Bird Xerigation®/Landscape Drip emission devices (1.5 million), 500 solenoid valves, more than 25,000 1800-SAM-PRS Series spray heads, and a variety of MPR nozzles.

In the Middle East, Rain Bird's commitment and expertise have been instrumental in greening up the desert.



Water Conservation Tip

Use high efficiency nozzles for uniform coverage



Use nozzles that apply water evenly and reduce water usage by up to 30%. This is best achieved using matched precipitation rate nozzles (MPR and U-Series spray head nozzles and 5000 MPR nozzles). If precipitation is not matched, the system must be set to water the area that is putting down the least amount of water, thereby over-watering the other areas and wasting water. High efficiency nozzles (U-Series nozzles on spray heads and Rain Curtain nozzles on rotors) are matched precipitation nozzles that provide the best and most uniform coverage, thereby eliminating watering gaps and reducing water usage... by as much as 30%.



At Rain Bird, we believe it is our responsibility to develop products and technologies that use water efficiently. Our commitment also extends to education, training and services for our industry and our communities.

The need to conserve water has never been greater. We want to do even more, and with your help, we can. Visit www.rainbird.com for more information about The Intelligent Use of Water.™

Questions, Comments and Feedback:

Please contact us at RBInewsletter@RainBird.com or visit www.rainbird.com.

To register to receive this newsletter electronically, please visit the following link:

www.rainbird.com/worldwide/enews.htm

PAGE
FOUR

PROFILE

SITE REPORT: Australia

Adelaide City Council (South Australia)

The Adelaide City Council spent several years considering which central control system would be the best option. Maxicom² was chosen not only for its great features & benefits but also for its high quality and reliability which none of the competitors could match. Maxicom² was also the only system that could cover the diverse area with its flexible communication system. As a result of the many unique water saving features which Maxicom uses (including Auto ET programming – ET Checkbook™, Cycle + Soak™, Flow-Watch™, Flo-Manager™ & Rain Watch™) the council averages a savings of 120 million litres of water annually (approx. \$127,000 per year), which is about a 38% saving compared to the pre-Maxicom system.

Key Products Used

- Maxicom² Central Control System (GSM communication system),
- ESP Satellite controllers,
- Electronic rain gauge

Contractor

- Adelaide City Council



The City of Adelaide