RAIN BIRD®

RAIN BIRD INTERNATIONAL
INTELLIGENT USE OF WATER®
QUARTERLY NEWSLETTER

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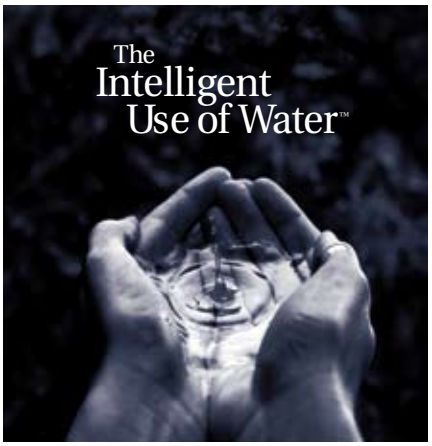

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2006 World Cup Stadiums (L to R): 1. Olympiastadion, Berlin, 2. Westfalenstadion, Dortmund, 3. Fritz-Walter-Stadion, Kaiserslautern, 4. Commerzbank Arena, Frankfurt, 5. AWD-Arena, Hanover, 6. RheinEnergie Stadion Köln, Cologne, 7. VELTINS-Arena, Gelsenkirchen

Rain Bird at FIFA World Cup™ Germany 2006

Seven Stadiums Equipped with Rain Bird

The 2006 World Cup was the biggest sporting event of the year. Thirty-two soccer teams from across the globe competed for the 2006 FIFA World Cup™ final. Six continents were represented and six past winners took part, including the host Germany and 2002 champion Brazil.

Twelve stadiums were either built or extensively renovated for the 2006 World Cup. After having irrigated the 2004 European Football Cup Games in Portugal, Rain Bird once again made a name for itself among sports turf and irrigation professionals and was heavily involved in stadium irrigation projects. Seven of the 12 stadiums are equipped with Rain Bird irrigation solutions, including one of the best known stadiums, the Berlin Olympic Stadium, which hosted the 2006 FIFA World Cup Final on the 9th of July, 2006.

Rain Bird is very proud to have contributed to this sporting event.

World Cup by the Numbers

- 32 teams
- 6 continents represented
- Italian team wins fourth crown
- 7 fields irrigated by Rain Bird
- 154 Rain Bird Rotors installed
- Over 1 billion people watched the final live on TV

Save Water, Save Time, Save Money: Rain Bird® Rotary Nozzles

Nozzles deliver matched precipitation rates with decreased flow and excellent distribution uniformity

Rain Bird is pleased to announce the official global release of the Rotary Nozzle. Rotary Nozzles have multiple, rotating streams that uniformly distribute water. These nozzles have a low precipitation rate of 15 mm/hour and are designed to fit on Rain Bird spray heads. A testament to Rain Bird's commitment to The Intelligent Use of Water™, Rotary Nozzles save water and reduce run-off and erosion, while also improving productivity and saving time.

The low precipitation rate of Rotary Nozzles and decreased flow (approximately 60% less flow than conventional spray nozzles) means more heads can be installed per zone. And because they apply water slowly, Rotary Nozzles are an ideal product for use on slopes and in soils that are compacted or have high clay content. In very windy conditions where conventional spray nozzles can have their performance compromised, Rotary Nozzles perform well with their large water droplets and low stream trajectory to fight wind drift. In addition, Rotary Nozzles throw 4m to 7.3m, filling the need for mid-range coverage with a spray head.

Although Rotary Nozzles are installed on spray heads, they really are rotors. Matched precipitation rate Rotary Nozzles can be zoned with Rain Bird 5000/5000 Plus MPR Rotor Nozzles. You don't need to run pipe out to an isolated spray zone. Instead, you can zone Rotary Nozzles with nearby rotors.

Rotary Nozzles are an excellent retrofit solution too. The low flow rate and expanded radius of throw solve existing spray zone inefficiencies caused by stretched spacing or low pressure. There is no need to add new zones or a pump – it could simply be a matter of changing to Rotary Nozzles to solve the problem!

"Landscape professionals are constantly looking for more efficient ways to manage and conserve water," said Todd Vanden Branden, Rain Bird Product Manager. "Rotary Nozzle technology will help to reduce water waste and save money when installing irrigation systems."

Rotary Nozzles are available in 4m to 5.4m and 5.2m to 7.3m fixed-arc models. A stainless steel radius reduction screw allows reduction down to 4m on the R13-18 model and down to 5.4m on the R17-24 model to accommodate varying landscape needs. Additionally, high-efficiency performance is maintained throughout the 1.4 to 3.8 bar pressure range, with no misting or fogging at high pressures. Rotary Nozzles come with a three-year trade warranty.

For more information, refer to www.rainbird.com/rotarynozzles.

New Pressure Regulating Filter Wins 2005 Innovative Product Award

Grounds Maintenance magazine announced in December that the new Rain Bird Pressure Regulating (PR) Filter was the Grand Winner of its 2005 Innovative Product Award. The awards are given to innovative products that ensure professional grounds managers are able to do their jobs more efficiently and effectively.

The Rain Bird PR Filter was lauded for combining two parts into one compact unit that simplifies design and installation by reducing the number of parts and connections. This compact design increases reliability because there is less risk of leaking during installation as well as over the life of the system.

To learn more about PR Filter, visit www.rainbird.com/drip.

The Intelligent Use of Water™ Summit

Rain Bird Corporation hosts second annual Intelligent Use of Water summit to address global water conservation initiatives and strategies

Leading environmental and water conservation experts convened on the 4th of January to further examine conservation initiatives and strategies relating to landscape irrigation at the second annual Intelligent Use of Water™ forum, hosted by Rain Bird Corporation, the leading manufacturer and provider of irrigation products and services. Held in Pasadena, California, the symposium panel 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.

The expert panel consisted of panelists with water conservation expertise as it relates to academia, public and private water agencies and municipalities, media, government, landscape architecture and agriculture, and came on the heels of the U.N. report predicting an eminent and devastating global water shortage by the year 2025.

FRONT (L-R) Kevin Hehoe, Mark Welterlen, David Minner, Robert Glennon; BACK (L-R) John Neylan, Eric Klotz, Stuart Styles, Tim Blair

"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 Brand Manager Jennifer Riley-Chetwynd. "This water conservation forum is a prime example of how Rain Bird's focus on water conservation extends beyond products and services into actions that motivate our industry partners and the public-at-large to use water in the most efficient manner possible."

The panelists called for civic and business leaders to communicate the need for water conservation by not only abiding by current water conservation policies but also by imposing stricter water regulation policies on their own organizations to increase awareness of the need to conserve.

Lake Management Aerators

Advanced technology to enhance irrigation efficiency

A growing global trend is to install surface spray aerators in ponds or lakes that are less than 5 metres deep. The primary reason is that these aerators provide the best vertical circulation to add dissolved oxygen to the water. This circulation helps to maintain an ecological balance, which in turn assures sufficient water quality. Rain Bird® offers a complete line of lake management aerators that help to maintain this water quality to support efficient irrigation.

Poor water quality and its effect on irrigation.

When a lake or pond loses its ecological balance, the effects or symptoms are readily apparent:

- Unsightly algae build-up
- Aggressive weed growth
- Unpleasant odour
- Depleted fish populations

If this water source is used to supply an irrigation system, the effects are compounded—functionally and aesthetically:

- Clogged sprinkler heads, valves and pumps
- Damaged turf
- Loss of water storage capacity
- Odours, fish kills and insect breeding
- Diminished aesthetic appeal

Not acting to preserve lake or pond water quality results in a dramatic increase in costs to restore the ecological balance. Again, when this water source is used for irrigation, those costs are compounded.

Water Conservation Tip

Use Pressure Regulating Devices in High Pressure Situations

PRS ends misting and fogging caused by high pressure. Stops water waste.

Excessive pressure is a common water waster. For spray zones with excessive pressure, every .34 Bar reduction in water pressure reduces water usage by 6-8%. The savings are over 50% if a 5 Bar spray zone is reduced to the recommended 2 Bar. So, design for an optimum 2 Bar water delivery to spray heads to avoid wasteful misting/fogging. Water savings can also be achieved with pressure regulating rotors (5000 PRS), pressure reducing valves, and pressure regulating modules installed on valves (PRS-D). For an example of water-savings, try the Rain Bird 1800 PRS savings calculator located on our website at www.rainbird.com/calculators/5steps.htm. For low pressure situations which can result in uneven coverage, use a high efficiency pump from Rain Bird.

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.

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SITE REPORT: Australia

The Royal Botanic Gardens Cranbourne (Victoria)

The Royal Botanic Gardens Cranbourne, a division of the Royal Botanic Gardens Melbourne, is one of Victoria's most precious areas of native bushland and offers nature-lovers the chance to explore 363 hectares of untouched heathlands, wetlands and woodlands. Rain Bird SiteControl (decoder version) was the chosen control system because of the massive diversity of the site. Rain Bird 1800 sprinklers were chosen because of their unsurpassed reliability, superior nozzle selection and exceptional nozzle performance.

Key Products Used

- SiteControl Central Control System (decoder version)
- 6504 Rotors
- PEB solenoid valves

Contractor

- Century Rain

Consultant

- Irrigation Design Consultants