



Key Products Guide

Total System Solutions from Tee to Green



Single Source. Multiple Choice.

Rain Bird is the only manufacturer devoted exclusively to irrigation. That means you have our commitment to provide you with fully-integrated, end-to-end solutions for your entire course. Planning a system for new construction? Renovating or upgrading an existing layout? Reducing maintenance costs? Improving resource efficiencies or complying with mandated regulations? Rain Bird offers a multitude of options to precisely meet your needs. Experience the difference of working with the one company that lives and breathes irrigation.

It's what we do. It's all we do.

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Cover: Winged Foot Golf Club
Inside Cover: Somerset Hills Country Club



Timeless Compatibility™

Every Rain Bird golf irrigation product is engineered for Timeless Compatibility, allowing you to have a state-of-the-art system that can be updated or changed without obsoleting your existing equipment.



Real-Time Response

Rain Bird offers continuous two-way communication, allowing for automatic optimization between your Central Control and the field. By receiving data and making instant adjustments when needed, you can protect your course from unforgiving weather and unexpected challenges.



Unmatched Quality

Throughout engineering, design and testing, Rain Bird's mission is to deliver industry-leading quality to our customers. Our stringent testing procedures are implemented at the first launch of every product as well as regularly throughout the year, and they replicate the world's harshest conditions.



Easy To Use

All Rain Bird products are engineered with the challenges of golf professionals in mind and designed to deliver everyday ease of use. From software interfaces to rotor designs, they help you and your crew find a quicker, hassle-free path to top playability.



Engineered to Perform. Built to Last.



What goes into building a superior rotor? It's delivering a unique combination of uniform application, high efficiency and rock-solid dependability. Rain Bird® rotors lead the way with unmatched performance. Choose from three proven series to meet every course need from wide open fairways to postage stamp greens.



Rain Bird 500/550 Series

The 500/550 Series is a true golf-quality rotor with valve-in-head options, ideal for tee boxes, greens and smaller areas requiring short- to medium-throw ranges. Features higher flow rates and large droplets that reduce wind drift. Get better coverage with greater precision in a shorter amount of time.



Rain Bird 700/751 Series

700/751 Series rotors offer unmatched flexibility and dependability across your entire course, with simple "turn-of-the screw" adjustments. Experience the intelligent ease of patented Memory Arc® technology built into our 751 Series, allowing you to switch between full- and part-circle settings without resetting the arc.



Quick Specs

	500 Series		550 Series		700 Series		751 Series		900 Series		950 Series	
Radius	28–47'	8.5–14.3 m	28–49'	8.5–14.9 m	57–49'	17.4–24.1 m	35–75'	11.3–22.9 m	63–97'	19.2–29.6 m	70–92'	21.3–28.0 m
Flow Rate	7.25–13.2 (gpm)	1.65–3.00 (m ³ /h)	7.25–13.6 (gpm)	1.65–3.10 (m ³ /h)	16.3–43.8 (gpm)	3.70–9.95 (m ³ /h)	7.0–37.7 (gpm)	1.59–8.56 (m ³ /h)	21.4–57.1 (gpm)	4.85–12.97 (m ³ /h)	19.5–59.4 (gpm)	4.43–13.49 (m ³ /h)
Arc	360°		30–345°		360°		360° or 30–345°		360°		40–345°	



EAGLE™ 900/950 Series

Big spaces demand big performance. Our 900/950 Series rotors deliver in spades with extra-long throw ranges, increased droplet size and uniformity that is reliable and consistent. Choose full-circle 900 Series or 950 Series for part-circle precision application.



Features

TOP SERVICEABILITY

All Rain Bird golf rotors feature top-serviceable arc adjustments and pressure regulation, as well as quick access to internal components. This is just one more way that Rain Bird makes your job easier.



IC SYSTEM™

Take precision to the next level by adding Integrated Control (IC) to your Rain Bird rotors (see page 6). Provides revolutionary anywhere/anytime diagnostics and feedback to help you maintain the best playing conditions.



GBS25 PROTECTION

All Rain Bird electric rotors (except IC) feature a robust GBS25 solenoid. You get unmatched 25kV surge protection and built-in filtration from debris. This Rain Bird exclusive virtually eliminates the most common maintenance tasks that plague competing rotors.



Swing Joints

Maximize the performance and protect any Rain Bird rotor with our high-performance swing joints. Available in a wide range of configurations, the unique swept elbow design reduces pressure loss by up to 50% to promote consistent flow and optimal watering. Allows for easy adjustment of head to grade to prevent damage when run over by equipment.



Extended Rain Bird golf rotor warranty available when purchased and installed with Rain Bird swing joints.

GOLF ROTORS

Intelligence at Your Fingertips.



Achieving optimal playing conditions isn't so much an issue of working harder, it's working smarter. Add Rain Bird's innovative IC System™ and you're on your way. Communicate directly with every rotor on your course to gain the ultimate in control. User-friendly interface; compatible with computer, tablet or mobile device; eliminates the challenges of satellites and decoders. What could be smarter than that?

Pinpoint Control and Diagnostics

Control modules built into every rotor provide real-time information to the system. Access diagnostics and adjust rotors from any web-enabled device, from anywhere in the world. So fast and easy you can check the status of up to 1,500 rotors in 90 seconds or less.

Simplified Design

Choose the Rain Bird IC System and eliminate up to 90% of the wire and all of the decoders and satellites. Improves the appearance of your course while saving valuable time and unneeded costs.

Streamlined Installation

With simplified wiring requirements, you can dramatically reduce installation time and costs. Eliminates more than 50% of the splicing required with traditional systems. Why take on that extra vulnerability?

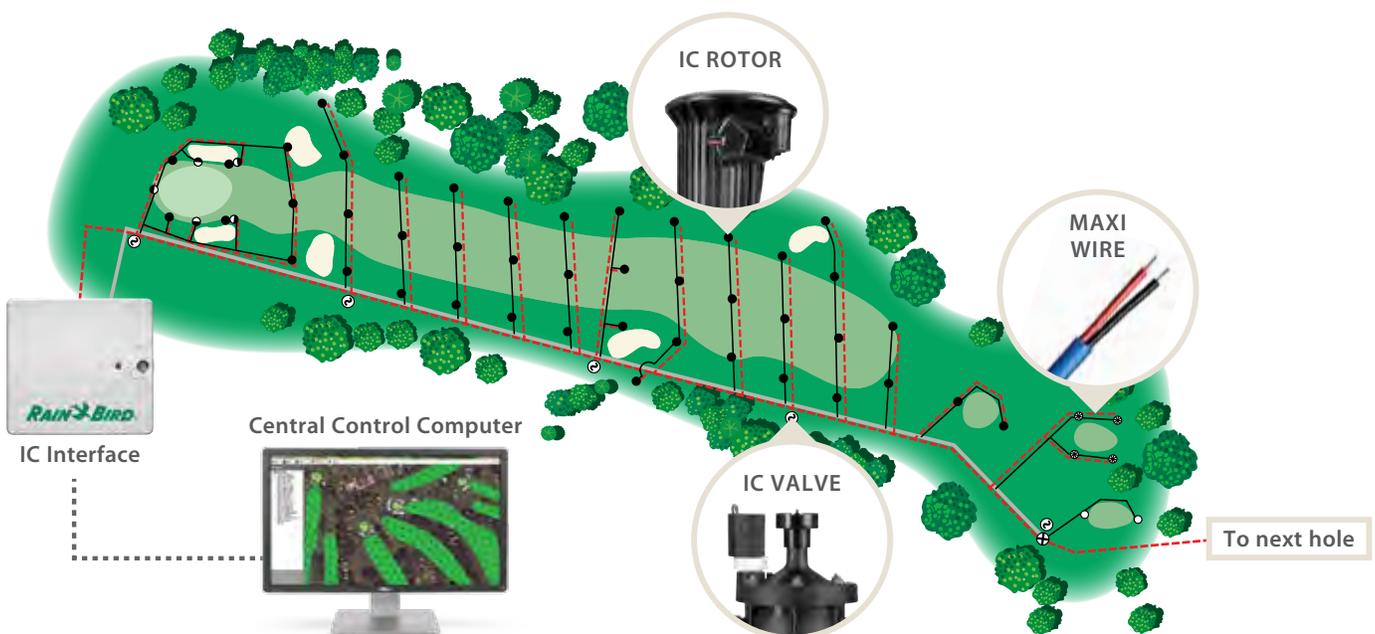
Exclusive Hybrid Capability

Only Rain Bird allows you to control different types of field hardware through a single Central Control System. This hybrid solution eliminates the need to run different software platforms and allows hassle-free phased or partial renovations, making changes and upgrades easier and more cost effective.

Easy Expandability

A Rain Bird IC System is an excellent choice for today and tomorrow. Should your system need to expand you can install additional IC Rotors anywhere there is a Maxi Wire, up to 36,000 rotor capacity.

IC SYSTEM™



Maintain Control.



Rain Bird offers an array of proven field controllers that make scheduling, adjusting and maintaining your system as easy as possible, while optimizing course playability and appearance. Each is fully compatible with any Rain Bird Central Control system.

PAR+ES Controller

This easy-to-program controller features 72-station capability, unlimited programs, premium surge protection, extensive diagnostics and a best-in-class pedestal enclosure. Also available as a retro kit (PAR+ES Retro Kit) for a budget-minded option to extend the life of a current controller.

PAR+ES SAT Decoder

Combines the features and benefits of a satellite system with those of a decoder system. Easy to install with reduced costs. Expandable as your renovation or site grows.

ESC-1 Controller

Get advanced water management in one easy-to-use package. A value-priced controller with 16, 24 or 40 station capacities, it features four programs, a real-time calendar and RASTER™ troubleshooting technology.

Decoders

An excellent choice for renovations, a buried Rain Bird decoder system leaves nothing to the elements. These field-proven solutions offer in-field control options, easy expandability and a cost-effective alternative to protective enclosures. Choose from five models to operate one, two, four or six solenoids.



FIELD CONTROLLERS



Puts You in 24/7 Command.



To maintain superior turf and playing conditions, there are no routine answers. Day to day, hour to hour—even minute to minute—you need to be able to react and respond quickly to changing conditions. Rain Bird Central Control systems not only optimize performance automatically, but give you the power to make critical decisions in real time. Intuitive; Flexible; Empowering; That’s Rain Bird Central Control. Choose from several options to dial in a solution that best meets your needs.



Cirrus™

Our most advanced option, Cirrus controls many of golf’s most sophisticated irrigation systems. GPS geo-referenced images. State-of-the-art ET-based scheduling. Cirrus delivers the most innovative features in an intuitive package that lets you spend less time dealing with issues and more time with solutions.



Nimbus™ II

Nimbus delivers advanced features with simple administration, ideal for saving time and effort while maintaining premier playing conditions. ET-based scheduling, precise flow management and real-time adjustments help you get the most out of every drop of water.



Stratus™ II and StratusLT™

Offering two options, the Stratus platform is an excellent choice for simple-time or ET-based scheduling. Choose to start with the basics, or upgrade to more advanced features. With either system, Rain Bird delivers the ease and convenience you want in a Central Control system, aiding superior turf and playing conditions throughout the year.

Specifications



	Cirrus	Nimbus II	Stratus II	StratusLT
Map-Based Control	Up to 3 Courses (54 Holes)	Up to 3 Courses (54 Holes)	Up to 2 Courses (27 Holes)	Up to 18 Holes
Programs	Unlimited	Unlimited	500	250
Schedules	Up to 50 per Program	Up to 50 per Program	Up to 25 per Program	Up to 25 per Program
Interfaces	Up to 12	Up to 8	Up to 2	1 (Not expandable)
Satellite Stations	Up to 32,256	Up to 21,504	Up to 5,376	Up to 672
IC Stations	Up to 36,000	Up to 24,000	Up to 6,000	Up to 750
Pump Stations	Up to 6	Up to 6	Up to 6	Up to 2
Weather Stations	Up to 5	Up to 5	1	1 (WS-PRO LT only)

MI Series™ Mobile Controllers

Control sprinklers, adjust programs, run diagnostics, edit station and program details, and review system activity from any web-enabled computer, tablet or smart phone. The MI Series software lets you use up to nine devices simultaneously to remotely manage your system from anywhere in the world.



CENTRAL CONTROL SYSTEMS



Rain Watch™

Rain Bird's patented Rain Watch technology provides automatic real-time decision-making based on accurate rainfall measurements. By adding this intelligence to your system you'll maximize water efficiency while reducing system wear and tear.

Up to four high-resolution Rain Watch cans can be placed throughout your course to collect up-to-the-minute rainfall data. Rain Watch utilizes rainfall data to modify the amount of water applied for optimal irrigation.

Industry-Leading Expertise.



Devoted solely to irrigation, Rain Bird brings its unmatched expertise to every component of your system, including pumps and pump stations. Designed for durability and performance, we deliver real-time response, reduced water use, lower energy costs and less wear and tear on your pumping equipment.

A Custom Fit for Any Environment or Budget

Every Rain Bird pump station is custom-built for the specific requirements of your site. We offer a variety of options that make it easier to achieve the most efficient performance possible.



PUMP STATIONS



Pump Manager 2

A powerful software application, Pump Manager 2 gives you remote pump control, monitoring and data reporting. Compatible with your computer or Rain Bird Central Control and fully integrated with our exclusive Smart Pump™. Available in 11 different languages.

Smart Pump™

This proprietary software integrates directly with Rain Bird Central Control and improves pump performance more than any other comparable product on the market. Embracing the Rain Bird reservoir to rotor philosophy, Smart Pump will provide optimal flow rates and significant energy savings. Smart Pump is a smart choice for any system.

Rain Bird will repair or replace at no charge any Rain Bird professional product that fails in normal use within the warranty period stated below. You must return it to the dealer or distributor where you bought it. Product failures due to acts of God including without limitation, lightning and flooding, are not covered by this warranty. This commitment to repair or replace is our sole and total warranty.

Implied Warranties of Merchantability and Fitness, if Applicable, are Limited to One Year from the Date of Sale. We will not, under any circumstances be liable for incidental or consequential damages, no matter how they occur.

I. Landscape Irrigation Products

1800® Series Pop-Up Spray Heads, U-Series Nozzles, Brass MPR Nozzles, A-8S and PA-8S-PRS Shrub Adapters, and 1300 and 1400 Bubblers, 5000 Series Rotors, 5500 Series Rotors, 7005/8005 Rotors, Falcon® 6504 Series Rotors, PEB and PESB Plastic Valves – **5 Years**

All other Landscape Irrigation products – **3 years**

II. Golf Products

Golf Rotors: EAGLE™ Series and EAGLE IC™ Series, Rain Bird® Series and Rain Bird IC™ Golf rotors – **3 years**. Additionally, EAGLE Series and EAGLE IC Series, Rain Bird Series and Rain Bird IC Golf Rotor sold and installed in conjunction with a Rain Bird swing joint – **5 years**. Proof of concurrent installation is required.

Swing Joints – **5 years**

Brass Remote Control Valves and Brass Quick Coupling and Keys – **3 years**

Filtration system controllers – **3 years**

LINK™ Radios – **3 years**

TSM-3 SD112 Soil Sensor (ISS) – **3 years**

All other golf products – **1 year**

III. Agricultural Products

LF Series Sprinklers – **5 years**

Other Impact Sprinklers – **2 years**

All other AG products – **1 year**

IV. Pump Stations

Rain Bird guarantees that its pump station will be free of manufacturer defects for three years from the date of start-up but not beyond forty months from the date of purchase by the original customer with a copy of the seller's invoice required for coverage under this Policy. Start-up or service by anyone other than a Rain Bird authorized representative, when required, will void these terms and conditions.

Provided that all installation, start-up, operation responsibilities, and recommended maintenance procedures have been properly executed and performed by authorized Rain Bird representatives, when required, Rain Bird will replace or repair, at Rain Bird's option, any Rain Bird part found to be defective under normal recommended use during the effective period of this Policy, such evaluation to be solely determined by Rain Bird. Rain Bird's only obligation and customer's exclusive remedy under this Policy is limited to repair or replacement, at Rain Bird's option, of the parts or the products the defects of which are reported to Rain Bird within the applicable Policy period, which prove to be defective and such evaluation will be solely determined by Rain Bird.

In no case will Rain Bird cover labor costs associated with repair or replacement of parts beyond one year from date of start-up. Repairs performed and parts used at Rain Bird's expense must be authorized by Rain Bird, in writing, prior to repairs being performed. Product repairs or replacement under this Policy will not extend this Policy. Coverage for repaired or replaced product shall end when this Policy terminates. Rain Bird's sole obligation and customer's exclusive remedy under this Policy shall be limited to such repair or replacement.

Upon request, Rain Bird may provide advice on trouble-shooting a defect during the effective period of this Customer Satisfaction Policy. Repair service must be performed by a Rain Bird authorized representative regardless of whether the labor is covered by Rain Bird or is at the owner's expense during the effective period of this Policy. However, no service, replacement or repair under this Customer Satisfaction Policy will be rendered while the customer is in default of any payments due to Rain Bird.

Rain Bird will not accept responsibility for costs associated with the removal, replacement or repair of equipment in difficult-to-access locations and such evaluation will be solely determined by Rain Bird. Difficult-to-access locations include (but are not limited to) locations where any of the following are required:

- 1) Cranes larger than 15 tons
- 2) Divers
- 3) Barges
- 4) Helicopters
- 5) Dredging
- 6) Roof removal or other such construction/deconstruction requirements
- 7) Any other unusual means or requirements

Such extraordinary cost associated with difficult-to-access locations shall be the sole responsibility of the customer, regardless of the reason requiring removal, repair or replacement of the equipment.

The terms and conditions of this Customer Satisfaction Policy do not cover damage, loss or injury caused by or resulting from the following:

- 1) Misapplication, abuse, or failure to conduct routine maintenance (to include winterization/winter lay-up procedures).
- 2) Pumping of liquids other than fresh water as defined by the U.S. Environmental Protection Agency, unless the pump station quoted by Rain Bird specifically lists these other liquids and their concentrations.
- 3) Use of pesticides (to include insecticides, fungicides and herbicides), free chlorine or other strong biocides.
- 4) Exposure to electrolysis, erosion, or abrasion.
- 5) Use or presence of destructive gases or chemicals unless these materials and their concentrations are specified in the Rain Bird quotation.
- 6) Electrical supply voltages above or below those specified for correct pump station operation.
- 7) Electrical phase loss or reversal.
- 8) Use of a power source other than that specified in the original quotation.
- 9) Non-WYE configured power supplies such as open delta, phase converters or other forms of unbalanced three phase power supplies.
- 10) Improper electrical grounding or exposure to incoming power lacking circuit breaker or fused protection.
- 11) Using the control panel as a service disconnect.
- 12) Lightning, earthquake, flood, windstorm or other Acts of Nature.
- 13) Failure of pump packing seal (unless the failure occurs on initial start-up).
- 14) Any damage or loss to plants, equipment or groundwater or injury to people caused by the failure of or improper use of an injection system or improper concentration of chemicals or plant nutrients introduced into the pump station by an injection system.
- 15) Any failure of nutrient or chemical storage or spill containment equipment or facilities associated with the pump station location.

The foregoing terms and conditions constitute Rain Bird's entire pump station customer satisfaction policy. This policy is exclusive and in lieu of any other warranties whatsoever, whether express, implied, or statutory including the implied warranties of merchantability and fitness for a particular purpose, which are all hereby expressly disclaimed. The sole remedy under this policy shall be limited to the repair or replacement of the pump station or its components pursuant to the terms and conditions contained herein. In the case of any components or injection systems manufactured by others (as noted on the pump station quotation), there is no warranty provided by Rain Bird and these items are covered solely by and to the extent of the warranty if any, offered by those other manufacturers.

Rain Bird shall not be liable to the customer or any other person or entity for any liability, loss, delay or damage caused or alleged to be caused, directly or indirectly, by any use, defect, failure or malfunction of the pump station or by any injection system whether a claim for such liability, loss, delay or damages is based upon warranty, contract, tort or otherwise. Rain Bird shall not be liable for incidental, consequential, collateral or indirect damages or delay or loss of profit or loss of use or any damages related to the customer's business operations, nor for those caused by acts of nature. In no case and under no circumstances shall Rain Bird's liability exceed the Rain Bird Corporation's net sale price of the pump station.

Laws concerning customer warranties and disclaimers vary from state to state, jurisdiction to jurisdiction, province to province or country to country and therefore some of the foregoing limitations may not apply to you. The exclusions and limitations set out above are not intended to, and should not be construed so as to contravene mandatory provisions of applicable law. If any part or term of this policy is held to be illegal, unenforceable or in conflict with applicable law by a court of competent jurisdiction, the validity of the remaining portions of this policy shall not be affected, and all rights and obligations shall be construed and enforced as if this policy did not contain the particular part or term held to be invalid.

V. All other products – 1 year

WARRANTY

The Intelligent Use of Water.™

LEADERSHIP • EDUCATION • PARTNERSHIPS • PRODUCTS

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.™



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