



Pump Stations and Filtration

System-Powering Performance and Efficiency.

Rain Bird applies our world-class irrigation expertise to the design and manufacture of golf pump stations and filters. As part of a fully integrated Rain Bird irrigation system, with Pump integrations, **only** Rain Bird pump stations bring real-time response to your pump, monitoring the operation of the pump and maximizing flow throughout the irrigation cycle. You'll get reduced water use, lower energy costs and less wear and tear on your pump station.

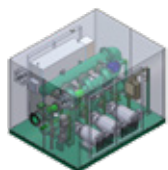
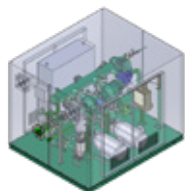
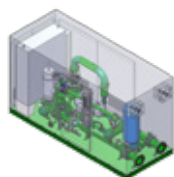


Designed for Durability

Rain Bird® pump stations and filters are built to the highest quality standards. Whether it's a sophisticated suppression system that reduces the risk of electronic component damage or a durable polyester powder coating that protects the appearance of your investment, these pumps and filters offer enduring performance.

A Fit for Any Environment or Budget

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



HORIZONTAL PUMPS

	Pump Direction and Number	Motor (with VFD)	Max psi (bar)	Max gpm (lps) (m³/h)	Enclosure	Display
HES1	One horizontal end suction pump	15 to 60 HP	125 psi (8.6 bar)	600 gpm (37.8 lps, 136.3 m³/h)	Aluminum	Color touch-panel
HES2	Two horizontal end suction pumps	15 to 60 HP	125 psi (8.6 bar)	1200 gpm (76 lps, 409 m³/h)	Aluminum	Color touch-panel
HES3	Three horizontal end suction pumps	20 to 60 HP	125 psi (8.6 bar)	1800 gpm (114 lps, 409 m³/h)	Aluminum	Color touch-panel

VERTICAL MULTI-STAGE PUMPS

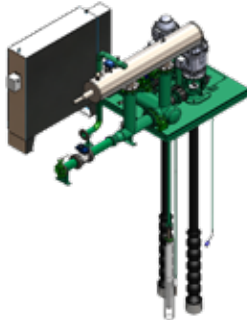
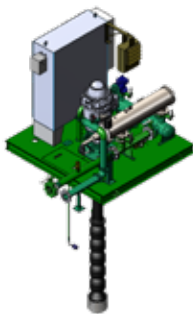
	Pump Direction and Number	Motor (with VFD)	Max psi (bar)	Max gpm (lps) (m³/h)	Enclosure	Display
VM1	One vertical multistage pump	15 to 60 HP	150 psi (10.7 bar)	500 gpm (31.5 lps, 113.6 m³/h)	Aluminum	Color touch-panel
VM2	Two vertical multistage pumps	15 to 60 HP	150 psi (10.3 bar)	1000 gpm (63.1 lps, 227 m³/h)	Aluminum	Color touch-panel



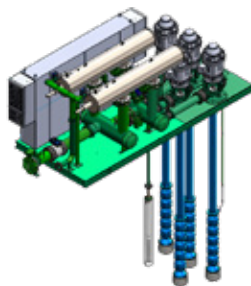
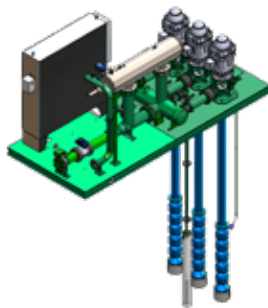
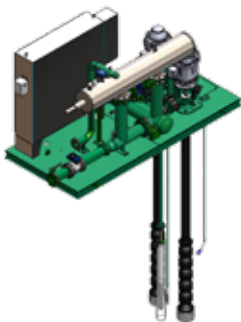
PANEL ONLY

	Number of Pumps	Motor Type	Additional Accessories
Panel	Controls 1 to 10 pumps up to 100 HP each	VFD or VPM	Flow meter and pressure transducer included

Ask about our retrofit options for existing panels.



COMPACT DECKS		
Features	VT1	VT2
Motor (with VFD)	15 to 100 HP	25 to 100 HP
Max psi (bar)	150 psi (9.7 bar)	150 psi (9.7 bar)
Max gpm (lps) (m³/h)	800 gpm (51 lps, 181 m³/h)	1600 gpm (101 lps, 363 m³/h)
Display	Color touch-panel	Color touch-panel



LARGE DECKS			
Features	VT2	VT3	VT4
Integrated Filtration	Yes	Yes	Yes
Motor (with VFD)	20 to 100 HP	40 to 100 HP	40 to 100 HP
Max psi (bar)	150 psi (9.7 bar)	150 psi (9.7 bar)	150 psi (9.7 bar)
Max gpm (lps) (m³/h)	2000 gpm (126 lps, 454 m³/h)	3000 gpm (189 lps, 681 m³/h)	4000 gpm (252 lps, 908 m³/h)
Display	Color touch-panel	Color touch-panel	Color touch-panel

VT-Custom

- Custom-designed to meet your requirements.
- Provide us with your specifications.
- Five or more motors
- Multiple filter configurations

Remote Pump Station Access

Rain Bird's user interface is a network ready design that allows for remote access via PC, laptop, tablet, smartphone or any web-enabled mobile device. The screen always formats properly to the remote device and allows complete control and monitoring of the golf pump station. This remote accessibility provides Rain Bird customers the confidence to control their pumping systems when they are away from the course.

Electrical Design

Rain Bird pump stations are UL508A listed and use the industry's best surge suppression, reducing the risk of electronic component damage that could lead to inconvenient and costly downtime. This design includes full heavy-duty circuit breaker integration providing the ultimate protection with the best serviceability.

Backup Pressure Regulation

Every station comes with a properly sized pressure relief valve to provide automatic pressure regulation in the event of an overpressure situation.

VFD Per Motor (VPM) Option

Rain Bird offers the industry's most comprehensive catalog of customer-focused solutions, including a VFD for each main motor on a multi-pump station. This option provides superior flow and pressure regulation, and eliminates mechanical switching components, increasing uptime. It also provides a level of efficient backup pressure regulation that a pressure relief valve or butterfly valve cannot deliver.

Durable Polyester Powder-Coating

Rain Bird's in-house steel-grit blasting system assures all exterior surfaces of the pump station are prepared to white metal specification standards and allows for the best coating adhesion. The polyester powder-coat Rain Bird applies is far more durable than competitive solvent-based multi-layer coatings. In fact, Rain Bird's powder-coating process scores a 10 out of 10 on an ASTM corrosion test provided by Sherwin Williams. Other industry pump stations scored four (4) out of 10 on the very same test. In addition, the powder-coating process is considered very environmentally friendly.

Engineered Pump Station Skid Design

Using 3D modeling, the channel steel skid frame is engineered for strength and rigidity. This engineered design reduces vibration and eliminates the need for raised, extra-thick steel plates under the pump heads, which can be a trip hazard. The deck is the industry's strongest and longest lasting with continuously welded smooth steel plate. In addition, Rain Bird follows industry standards and manufacturers' recommendations for station components such as the proper specifications for flow meters.

Advanced Controls

With the industry's leading touch screens, Rain Bird continues to innovate by offering sizes up to 15". Beyond being network ready, this interface offers up to 20 years of historical memory capability and USB backup. With features such as filtration integration, water feature control, lake level control, pump lockouts, auto set point adjustment per pump, motor starts protection, and many more, Rain Bird has driven pump station innovation in the golf industry for the last decade.

Real-Time System Integration

Rain Bird pump stations have Monitor-Control-Alert (MCA) mobile device accessible that can also be utilized at the CirrusPro central control with Rain Bird Level 2 Advanced Pump Integrations, so you can configure your system to automatically monitor and self-adjust to changing conditions. This seamless integration by Rain Bird improves your system's overall performance by reducing watering windows and minimizing energy use.

Pump and Motor Options

Rain Bird offers custom designed cast ductile iron discharge heads for golf irrigation pump stations. With superior flow characteristics and 12 times the required tensile strength for golf pump stations, they are the obvious choice for the application. Rain Bird utilizes G.E. motors with industry-leading warranties, efficiencies and durability. The standard Class H motor insulation provides unmatched motor life.

Air Relief

Rain Bird provides air relief on each pump. Individual air relief valves allow for the maximum amount of air to be removed from the pump columns and not enter into the irrigation system.

User Controls

Rain Bird pump stations have set the bar with simple, large-icon touchscreen controls in nine (9) different languages. Each pump has a lighted, three position Manual-Off-Auto switch for intuitive, safe backup control of the station.



Custom colors available.

MCA (Monitor Control Alert)

Rain Bird MCA provides your golf course with the tools to monitor your pump station performance from anywhere. Stay informed and stay connected to our team of engineers, for both proactive support and troubleshooting needs.

FEATURES AND BENEFITS

- View pump pressure, flow and VFD speed easily (Polling rate: 5 seconds)
- Improve efficiency with run-time and station status
- Gain insight from standard and personalized water usage reports
- Start and stop your pump station with manual override
- Manage multiple stations from your device
- Stay connected to our team with GSP pump engineering access
- Schedule automated daily, weekly or monthly data reports
- Stay informed with immediate notification of alarms or faults
- Follow-up notifications of cleared alarms for peace of mind
- Keep your team informed with SMS and/or email alerts to multiple users



Self-Cleaning Pump Suction Screen

Keep debris out of your pumping and irrigation system.

FEATURES

- Galvanized, self-cleaning pump suction screen removes large trash and debris from water sources, saving time and money in energy, pumping efficiency and maintenance costs.
- Heavy 12 or 24 mesh stainless steel screen increases your pump efficiency for many years to come.
- All water must pass through the pump suction screen attached to the end of the pump suction line before entering the pump intake pipe. A small, side-stream from the pump discharge plumbing drives two spray bars that continually rotate, jetting water at the screen and blasting debris away.



Performance Data

Model Number	Flow		Screen Length (in)	Total Length (in)	Screen Diameter (in)	Flange Size (in)	Return Inlet Pipe Size (in)	Operating Pressure (min-max psi)	Weight (lbs)	Cleaning Spray (gpm)
	(gpm)	(m ³ /h)								
PSS200	325	73.8	11	25	16	4	1.5	35-100	38	20
PSS400	550	124.9	15	28.8	16	6	1.5	40-100	57	20
PSS600	750	170.3	16	32.5	24	8	1.5	40-100	101	20
PSS800	950	215.7	18	34.5	24	10	1.5	45-100	108	20
PSS1000	1350	306.5	23	39.5	24	10	1.5	50-100	116	24
PSS1400	1650	374.6	26	42.5	24	12	1.5	55-100	128	24
PSS1700	1950	442.7	28	44.5	26	12	1.5	55-100	148	24
PSS2000	2350	533.5	32	48.5	26	14	1.5	60-100	160	24
PSS2400	2600	590.2	35	52.5	30	16	1.5	65-100	233	28
PSS3000	3000	681.0	40	57.5	30	16	1.5	40-65	236	44
PSS3500	3500	794.5	40	59.5	36	18	1.5	40-65	283	44
PSS4000	4000	908.0	40	63.5	42	18	1.5	40-65	358	44

Performance data based on 12-mesh filter.

Additional Filtration Products

Rain Bird offers an extensive line of filtration products to fit any course need. For more information about these products, contact Rain Bird Filter Department at filters@rainbird.com or 520-741-6189.



HDF 2 Disc Filters

Automatic self-cleaning disc filtration equipment with 2" valves and high-density polyethylene manifold.



E-Series



G-Series

E-Series and G-Series Suction Scanning Filters

E-Series automatic self-cleaning water filters utilize an electric motor to assist in cleaning during the backwash cycle, operating at system pressures as low as 15 psi. G-Series self-cleaning hydraulic filter is powered by source line water pressure, providing worry-free medium-flow rate filtration.

I-Series Hydraulic Suction Scanning Filter

Self-cleaning line powered hydraulic water filters for turf, landscape, agriculture, greenhouse, golf course and nursery applications.

FEATURES

- **Flow Rate:** 550 to 3,200 gpm (124.91 to 726.99 m³/h)
- **Max Temperature:** 160° F (71° C)
- **Flushing Operations:** Single electric ball valve for flushing operations standard
- **Screen:** Stainless steel mesh/PVC and stainless steel sintered screen options
- **Screen Opening:** 100μ to 4000μ
- **Working Pressure:** 50 to 235 psi (3.44 to 16.2 bar)
- **Material:** Stainless steel and duplex stainless options
- **Configurations Available:** Filter only, or a complete assembly with bypass manifold and valves



Standard Bypass Manifold

Line Size	Model Number Powder Coated Carbon Steel	Max Flow Rate (gpm)
4"	I-4-CS-F	550
6"	I-6-CS-F	750
8"	I-8-CS-F	1500
10"	I-10-CS-F	3200

Performance Data

Performance Data				300	200	120	100	Micron		
				50	75	125	140	Mesh		
Line Size	Model Number	Woven Screen Area (in²)	Sintered Screen Area (in²)	Max Flow Rate (gpm)	Std. Flow Rate (gpm)	Std. Flow Rate (gpm)	Std. Flow Rate (gpm)	Flush Volume (gallons)	Rinse Duration (seconds)	Flush Line Size (in)
Stainless Steel										
4"	HZ-I-04-PE-S	—	760	550	550	550	550	≈ 35	10 to 15	1.5"
6"	HZ-I-06-PE-S	—	760	800	800	800	720	≈ 35	10 to 15	1.5"
8"	HZ-I-08-PS-S	—	1,034	1,400	1,400	1,400	1,000	≈ 65	10 to 15	2"
8"	HZ-I-08-PE-S	—	1,558	1,500	1,500	1,500	1,152	≈ 65	10 to 15	2"
10"	HZ-I-10-PS-S	—	1,558	2,630	2,630	2,218	1,558	≈ 65	10 to 15	2"
10"	HZ-I-10-PE-S	—	1,790	3,200	3,200	2,520	1,800	≈ 65	10 to 15	2"

Standard flow rates assume average water quality (<40 ppm solids). Consult factory for proper sizing (water quality dramatically affects flow capability).