

# FÚTBOL FIELD SYSTEMS

RECOMMENDED IRRIGATION LAYOUTS FOR  
NATURAL TURF FÚTBOL FIELDS



## ECONOMY PACKAGES

Secondary Schools, Sports Complexes,  
and Public Access Fields



## PROFESSIONAL PACKAGE

Universities, Professional Teams,  
and Stadiums



## PREMIUM PACKAGE

Premier League, World Cup,  
and Olympics

**RAIN**  **BIRD**®

The Intelligent Use of Water.™



# THE COMPLETE SOLUTION

## Day in and day out, Rain Bird can help ensure your sport turf performs at its best.

With a complete line of irrigation products and leading support, Rain Bird can help you care for your turf like no other manufacturer can.

Through consistent watering, you and Rain Bird can provide your athletes the best possible playing conditions. Our patented nozzles offer wind-resistant water droplets and even coverage, preventing brown spots and inconsistent footing.

## Enhance safety by preventing over-watering.

Sloppy field conditions can lead to poor play and even injuries. But, a Rain Bird system promotes safe, reliable conditions by watering evenly and shortening your watering window, so your turf is ready for action when your players take the field.

## Stay within budget by saving time, money, and water.

You want to cut costs and water use. Rain Bird is uniquely prepared to help. Pressure regulating systems optimize flow rate to conserve water.

Powered by current weather data, Rain Bird controllers only irrigate when the landscape requires it, saving you additional time and water.

## Be confident with industry-leading support.

Our team of experts can help assess your unique challenges and opportunities, then craft a plan that's right for you. We offer a variety of design tools, including blueprints.

Once your system is in place, we'll stand behind it with world-class service and support.

## THREE REASONS TO WATER NATURAL TURF



### 1. KEEP IT HEALTHY

Regularly scheduled watering promotes deep-root growth, leading to firmer footing conditions and a more visually appealing sports field.



### 2. KEEP IT PLAYABLE

Healthy, resilient turf is able to stand up to the rigors of frequent games and practices.



### 3. KEEP IT AFFORDABLE

Consistent irrigation prevents hot spots that can require additional care and maintenance, freeing up your crew and budget for other projects.

# FIELD DESIGN CONSIDERATIONS

## Water Pressure

Designs contained in this document are based upon a minimum flow and minimum pressure requirements downstream of back-flow prevention device. If sufficient pressure is not available at point-of-connection, install a booster pump. Contact a Rain Bird representative for the appropriate pump for the site.

## Water Window

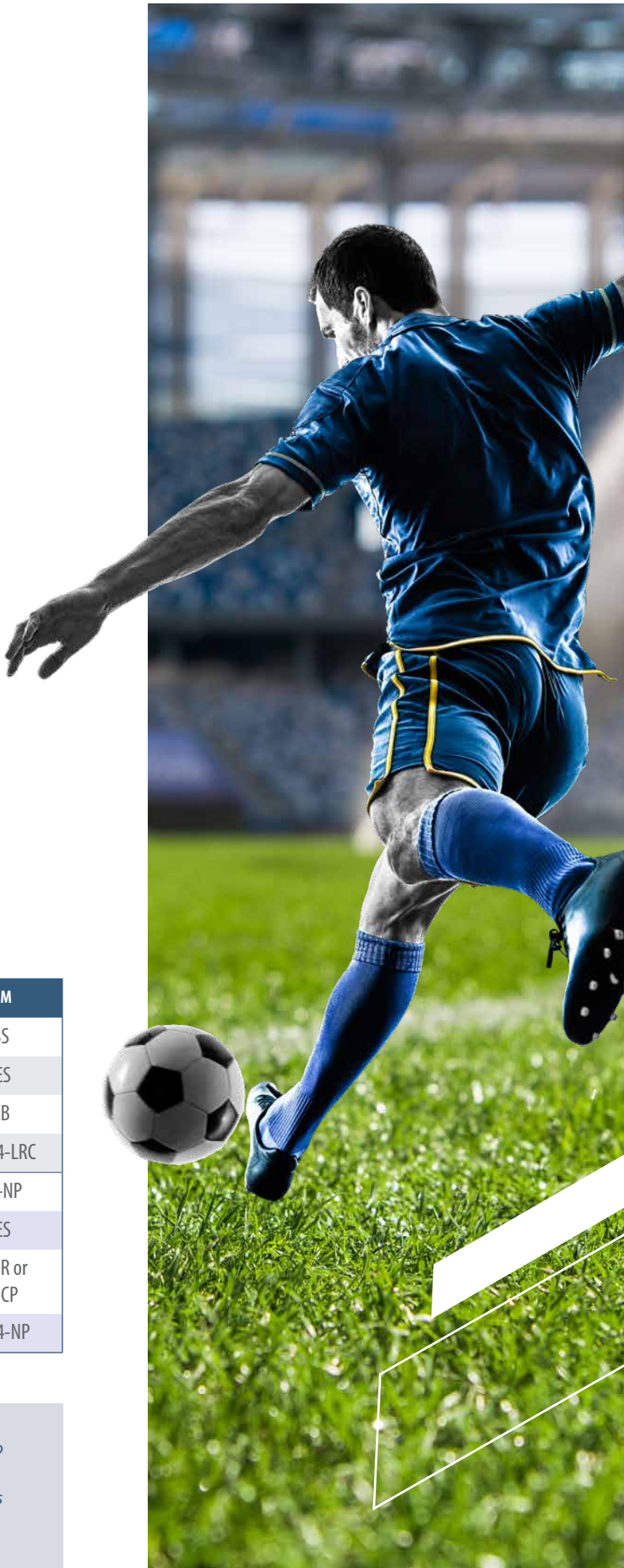
- ▶ Rain Bird controllers will help you to program the irrigation so that all necessary irrigation takes place within the available water window relative to the water source flow capability or designated usage time.
- ▶ FloManager™ (Premium Package only) manages hydraulic demand to make full use of available water and shorten total watering time.

## Water Quality

- ▶ If the site will be using reclaimed water for irrigation, then Rain Bird advises using valves and rotors specifically designed by Rain Bird for reclaimed water applications.
- ▶ Please refer to the table below for product variations suitable for dirty water applications.

	ECONOMY	PROFESSIONAL	PREMIUM	
Potable Water	ROTOR	8005	8005-SS	8005-SS
	MASTER VALVE	300BPES	300BPES	300BPES
	VALVE	150-PGA	150-PEB	150-PEB
	QC VALVE	5-LRC or 44-LRC	5-LRC or 44-LRC	5-LRC or 44-LRC
Non-Potable & Reclaimed Water	ROTOR	8005NP	8005-SS-NP	8005-SS-NP
	MASTER VALVE	300BPES	300BPES	300BPES
	VALVE	200PESB-R or 200EFB-CP	200PESB-R or 200EFB-CP	200PESB-R or 200EFB-CP
	QC VALVE	5-NP or 44-NP	5-NP or 44-NP	5-NP or 44-NP

*Rain Bird presents these plans as a typical fútbol field layout. Rain Bird offers no indemnity, expressed or implied, for projects installed from these plans. Since each site and system contains many variables, Rain Bird expressly recommends the use of a qualified irrigation designer.*



# ECONOMY PACKAGE 1

## For Secondary Schools, Sports Complexes, and Public Access Fields

- ✓ All the irrigation equipment necessary to irrigate a fútbol field.
- ✓ Package designed around a smaller footprint field (40 x 60 m) perfect for amateurs and children.
- ✓ Simple design means installation is fast and easy.
- ✓ Driven by a powerful, modular controller allowing for future system upgrades such as IQ4 (Central Control) and Flow Sensing integration.



### FÚTBOL FIELD

#### Minimum Requirements:

Water Pressure: 95 PSI, 6.6 BAR

#### Minimum Requirements:

Flow Rate: 55 GPM, 208 L/M



## 1x Controller ESP-LXME2 (12 Stations)

The ESP-LXME2 provides flexible features and modular options that make the controller ideal for fútbol field applications. Modular upgrade options include: modular station capacity, flow sensing, metal case and pedestal, and IQ4G Central Control Communication Cartridges. These options are field installed and can upgrade and enhance the ESP-LXME2 at any time in the future.



## 20x Rotor 6504 PC & FC

- ▶ Patented Rain Curtain™ nozzles have three ports for optimal long-range, mid-range, and close-in watering, for healthy turf even in the heat of summer.
- ▶ Multi-function wiper seal and tapered riser keep the stem clear of debris, providing long-term protection.
- ▶ Five-year trade warranty



**RADIUS OF THROW:**  
65' (19.8m)



**PRECIPITATION RATE:**  
0.37 to 1.14 in/hr (9 to 29 mm/h)



**OPTIMAL PRESSURE:**  
30 to 90 psi (2.1 to 6.2 bar)



**OPTIMAL FLOW RATE:**  
2.9 to 21.7 gpm (10.8 to 82.2 l/m) (0.66 to 4.93 m3/h)



## 8x Valve PGA-Series

- ▶ These long-lasting, easy-to-service valves are proven to perform at the highest level, even under harsh temperatures and intense pressure for maximum peace of mind.
- ▶ Rugged PVC and glass-filled nylon construction for reliable operation.
- ▶ Slow closing to prevent water hammer and subsequent system damage.
- ▶ Globe and angle configuration for flexibility in design and installation.
- ▶ Three year trade warranty

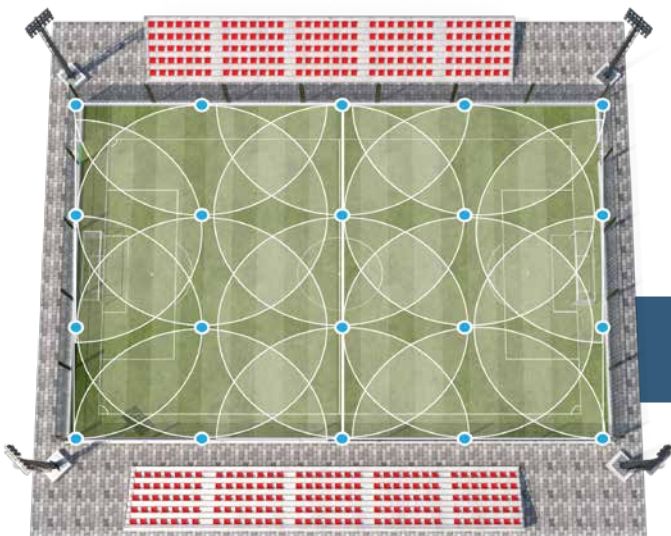
### Accessories:



**16x Wire Connectors**  
WC20



**10x Valve Box**  
VB-10RND (2) VBJMB (8)



### WATER PRESSURE

Required Minimum

95 psi,  
6.6 bar

### FLOW

Required Minimum

55 gpm  
208 l/m



# ECONOMY PACKAGE 2

## For Secondary Schools, Sports Complexes, and Public Access Fields

- ✓ All the irrigation equipment necessary to irrigate a fútbol field.
- ✓ Package designed around a smaller footprint field (60 m x 95m) perfect for amateurs and children.
- ✓ Simple 3-lateral line design means installation is fast and easy.
- ✓ Driven by a powerful, modular controller allowing for future system upgrades such as IQ4 (Central Control) and Flow Sensing integration.



### FÚTBOL FIELD REQUIRED

#### Minimum Requirements:

Water Pressure: 95 PSI, 6.6 BAR

#### Minimum Requirements:

Flow Rate: 100 GPM, 378 L/M



## 1x Controller ESP-LXIVM (60 Stations)

ESP-LXIVM is based on two-wire technology that makes it ideal for sports field applications.

LXIVM can:

- ▶ Support up to 60 stations, 10 programs, 5 Flow Sensors, and 4 Weather Sensors.
- ▶ Works in conjunction with Rain Bird Smart Valves.
- ▶ Can be upgraded to use IQ4 Central Control.

Other upgrade options include: Flow Sensing (must use IVM-SEN), metal case, and pedestals.



## 35x Rotor 6504 PC & FC

- ▶ Patented Rain Curtain™ nozzles have three ports for optimal long-range, mid-range, and close-in watering, for healthy turfgrass even in the heat of summer.
- ▶ Multi-function wiper seal and tapered riser keep the stem clear of debris, providing long-term protection.
- ▶ Five-year trade warranty



**RADIUS OF THROW:**  
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0.37 to 1.14 in/hr (9 to 29 mm/h)



**OPTIMAL PRESSURE:**  
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**OPTIMAL FLOW RATE:**  
2.9 to 21.7 gpm (10.8 to 82.2 l/m) (0.66 to 4.93 m3/h)



## 11x Valve PGA-IVM Series

- ▶ These long-lasting, easy-to-service valves are proven to perform at the highest level, even under harsh temperatures and intense pressure for maximum peace of mind.
- ▶ Rugged PVC and glass-filled nylon construction for reliable operation.
- ▶ Slow closing to prevent water hammer and subsequent system damage.
- ▶ Globe and angle configuration for flexibility in design and installation.
- ▶ Three year trade warranty

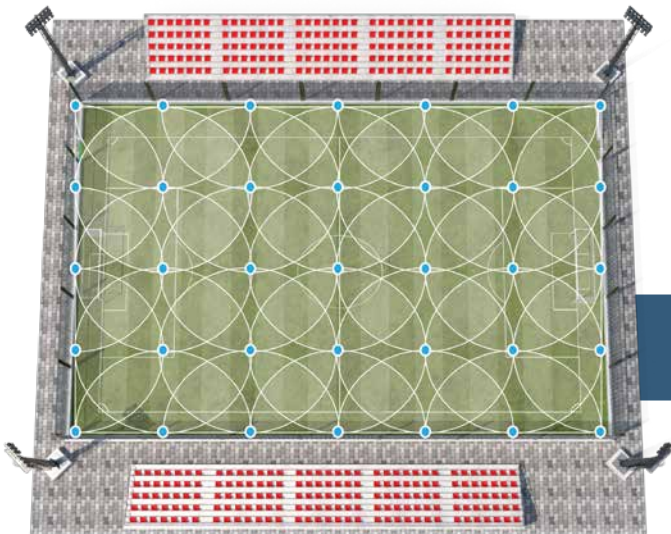
### Accessories:



**22x Wire Connectors**  
WC20



**15x Valve Box**  
VB-10RND (4) VBJMB (11)



### WATER PRESSURE

Required Minimum

95 psi,  
6.6 bar

### FLOW

Required Minimum

100 gpm  
378 l/m



# PROFESSIONAL PACKAGE

## For Universities, Professional Teams, and Stadiums

- ✓ All the irrigation equipment necessary to irrigate a full sized fútbol field.
- ✓ 105 x 68 meter pitch
- ✓ High grade, commercial quality, professional components.
- ✓ Driven by a powerful, modular controller allowing for future system upgrades such as IQ4 (Central Control) and Flow Sensing integration.



### FÚTBOL FIELD

#### Minimum Requirements:

Water Pressure: 100 PSI, 6.9 BAR

#### Minimum Requirements:

Flow Rate: 200 GPM, 757 L/M



## 1x Controller ESP-LXME2 Pro with IQ4 Central Control (12 Stations)

The ESP-LXME2 Pro provides flexible features and modular options that make the controller ideal for fútbol field applications. Modular options include: modular station capacity, flow sensing, booster pump support, metal case and pedestal, and IQ4G Central Control Communication Cartridges. These options are field installed and can upgrade and enhance the ESP-LXME2 Pro at any time in the future.



## 35x Rotor 8005SS with Sod Cup

- ▶ Rain Curtain™ nozzles for optimal distribution and close-in watering resulting in superior uniformity.
- ▶ Memory Arc® returns the rotor to its original arc setting.
- ▶ Non-strippable drive mechanism prevents damage from vandals.
- ▶ Brass reinforcing shaft of the nozzle turret to riser withstands vandal kick.
- ▶ Easy, wet, dry arc adjustment with slotted screwdriver through top of rotor from 50° to 330° part-circle, 360° non-reversing full-circle.



**RADIUS OF THROW:**  
80' (24.38m)



**PRECIPITATION RATE:**  
0.48 to 1.23 in/hr (12 to 13 mm/h)



**OPTIMAL PRESSURE:**  
50 to 100 psi (2.1 to 6.2 bar)



**OPTIMAL FLOW RATE:**  
3.8 to 36.3 gpm (14.4 to 137.4 l/m) (0.86 to 8.24 m3/h)





## 11x Valve PEB-Series

- ▶ The PEB Series is our most durable plastic irrigation valve. This industrial strength glass-filled nylon globe valve is ideal for commercial irrigation applications.
- ▶ 5 year trade warranty
- ▶ Slow closing to prevent water hammer and subsequent system damage.
- ▶ Globe configuration

### Accessories:



**1x Flow Sensor**  
FS300P



**15x Valve Box**  
VB-10RND (4) VBJMB (11)



**4x Quick Coupling**  
Valve 5LRC



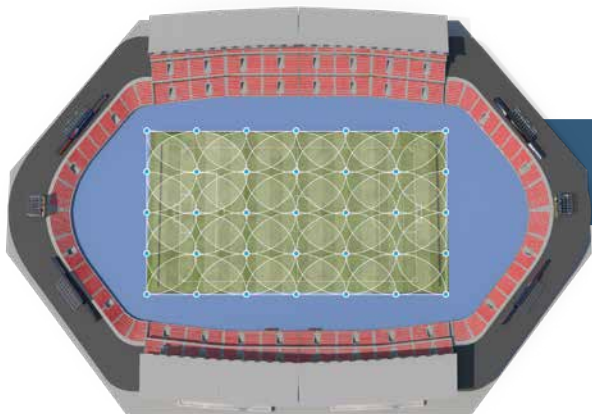
**35x Swing Joint**  
TSJ-12



**22x Wire Connectors**  
WC20



**35x Sod Cup**  
SODCUP



### WATER PRESSURE

#### Required Minimum

100 psi,  
6.9 bar

### FLOW

#### Required Minimum

200 gpm  
757 l/m



# PREMIUM PACKAGE

## Premier League, World Cup, and Olympics

- ✓ All the irrigation equipment necessary to irrigate a fútbol field worthy of an international tournament.
- ✓ 105 x 68 meter pitch
- ✓ Highest performance components.
- ✓ Remote management and alerts with IQ4 and flow sensing.



### FÚTBOL FIELD

#### Minimum Requirements:

Water Pressure: 100 PSI, 6.9 BAR

#### Minimum Requirements:

Flow Rate: 200 GPM, 757 L/M



## 1x Controller ESP-LXIVM Pro with IQ4 Central Control

- ▶ 2-wire system enabling fast and easy installation, maintenance and troubleshooting.
- ▶ Supports 240 Stations, 40 Programs, 10 Flow Sensors, and 8 Weather Sensors.
- ▶ Advanced feature set including: FloWatch™, FloManager™, Cycle+Soak™ and diagnostic features like electrical history, 2-wire mapping, and Controller Output.
- ▶ The IQ4 Platform delivers powerful remote water management tools so you have more control over your irrigation systems right from your computer, tablet or smart-phone.
- ▶ Remote water management is today's most powerful tool to generate and track real water savings.



## 35x Rotor 8005SS with Sod Cup

- ▶ Rain Curtain™ nozzles for optimal distribution and close-in watering resulting in superior uniformity.
- ▶ Memory Arc® returns the rotor to its original arc setting.
- ▶ Non-strippable drive mechanism prevents damage from vandals.
- ▶ Brass reinforcing shaft of the nozzle turret to riser withstands vandal kick.
- ▶ Easy, wet, dry arc adjustment with slotted screwdriver through top of rotor from 50° to 330° part-circle, 360° non-reversing full-circle.



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## 11x Valve PEB-IVM Series



- ▶ The PEB Series is our most durable plastic irrigation valve. This industrial strength glass-filled nylon globe valve is ideal for commercial irrigation applications.
- ▶ 5 year trade warranty
- ▶ Slow closing to prevent water hammer and subsequent system damage.
- ▶ Globe configuration

## 1x Master Valve BPES



- ▶ Hybrid construction featuring durable red brass body and glass-filled nylon bonnet.
- ▶ Globe and angle configuration for flexibility in design and installation.
- ▶ Slow closing to prevent water hammer and subsequent system damage.
- ▶ Three year trade warranty

### Accessories:



**1x Flow Sensor**  
FS300P



**5x Valve Box**  
VB-10RND (4) VBJMB (11)



**4x Quick Coupling**  
Valve 44-LRC



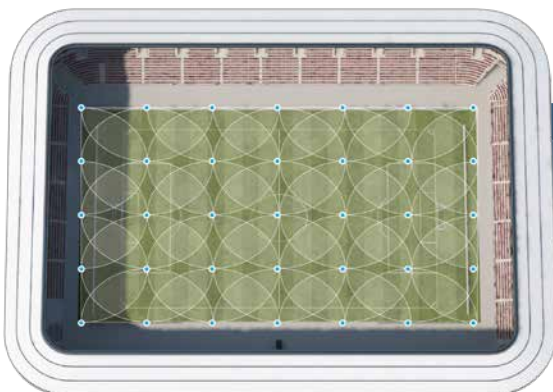
**35x Swing Joint**  
TSJ-12075, TSJ-12



**22x Wire Connectors**  
WC20



**35x Sod Cup**  
SODCUP



### WATER PRESSURE

#### Required Minimum

100 psi,  
6.9 bar

### FLOW

#### Required Minimum

200 gpm  
757 l/m





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