

### Horizontal End Suction - 3 Pump

#### High Flow Pump Station – 3 Pumps on a Single Deck

20 to 60 HP per pump; Up to 124 psi (8.6 bar); Up to 1800 gpm (114 lps, 409 m<sup>3</sup>/h)

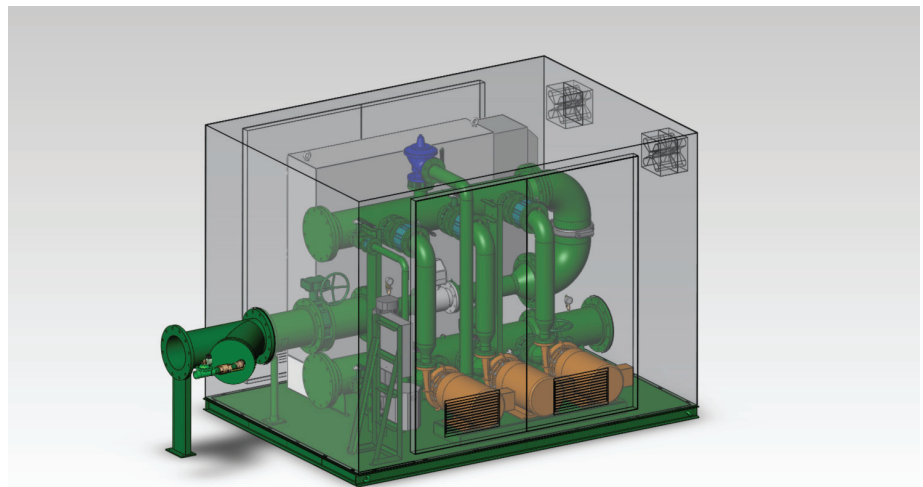
Rain Bird's 3 pump, Horizontal End Suction pump station with an optional marine grade aluminum enclosure is designed for high-flow boost, flooded suction and suction lift applications, such as; parks, sports complexes, golf courses, turf farms and other agricultural projects. Its mid-sized design, durable centrifugal pump configuration and choice of options allow for a variety of applications. With an optional PM pump for pressure maintenance, this pump station is an ideal choice for main station or booster pump applications with flows up to 1800 gpm (114 lps, 409 m<sup>3</sup>/h).

#### At-A-Glance Description

- **Efficient and Serviceable** – Horizontal End Suction pumps with Variable Frequency Drive (VFD) maintain constant pressure at varying flow demand.
- **High Flow capacity** – up to 1800 gpm at 124 psi (114 lps, 409 m<sup>3</sup>/h at 8.6 bar)
- **Sophisticated control package** with enhanced PLC software.
- **Choice of filtration options** and accessories

#### Standard Features

- **Main Pumps – Horizontal End Suction**
- **Motors**
  - High Efficiency Motors, Weather Protected Type TEFC, Class F insulation
- **Mechanical Features**
  - Inlet Butterfly Isolation Valve
  - Discharge Butterfly Isolation Valve
  - Individual Pump Isolation Valves and Silent Check Valves
  - Hose Bib Connection
- **Pressure / Flow**
  - Stainless Steel Pressure Transducer
  - Paddle Wheel Flow Meter
- **Enclosures / External Connections**
  - Polyester Powder-Coated Steel Deck and Piping
  - Marine Grade Aluminum Enclosure
  - Heat Exchanger for Electrical Cabinet
  - Thermostat and Fan on Mechanical Enclosure
  - NEMA 4 Electrical Enclosure
- **Pump Control**
  - VFD with pump rotation



- Illuminated, 3-position HOA switches
- Resettable Circuit Breakers
- Low water level safety float switch to protect against loss of prime
- **Display**
  - 4 Line Monochrome Touch screen
- **PLC (Programmable Logic Control)**
  - Ethernet-ready PLC Control Package
- **Lake Level Safety**
  - Low Level Shut Off (Float)

#### Optional Features

- **Pressure Maintenance Pump**
  - 5 HP PM pump
- **Motors**
  - Premium Efficiency Motors
- **Mechanical Features**
  - Pressure Relief Valve
  - Flooded Suction Flood Prevention Valve
  - Zee Pipe

(continued on back)

#### Horizontal End Suction – 3 Pump

| Motor Size   | 20 HP   | 25 HP  | 30 HP  | 40 HP  | 50 HP  | 60 HP  |
|--|---|--|--|--|--|--|
| Power Requirement<br>(Other Power configurations available upon request) | 480/60/3 V/HZ/PH  |  |  |  |  |  |
|  | 380/50/3 V/HZ/PH  |  |  |  |  |  |
|  | 415/50/3 V/HZ/PH  |  |  |  |  |  |
|  | 575/60/3 V/HZ/PH  |  |  |  |  |  |
| Max Flow Main Pump Application <sup>(1)</sup>                            | 600 GPM at 80 psi<br>37.9 LPS, 136 m <sup>3</sup> /hr at 5.5 bar        | 750 GPM at 89 psi<br>47.3 LPS, 170 m <sup>3</sup> /hr at 6.1 bar       | 900 GPM at 89 psi<br>56.8 LPS, 204 m <sup>3</sup> /hr at 6.1 bar       | 1350 GPM at 89 psi<br>85.2 LPS, 307 m <sup>3</sup> /hr at 6.1 bar      | 1500 GPM at 106 psi<br>94.6 LPS, 341 m <sup>3</sup> /hr at 7.3 bar     | 1800 GPM at 124 psi<br>114 LPS, 409 m <sup>3</sup> /hr at 8.6 bar      |
| Max Flow Booster Pump Application <sup>(1)</sup>                         | 1350 GPM at 37 psi boost<br>85.2 LPS, 307 m <sup>3</sup> /hr at 2.6 bar | 1650 GPM at 46 psi boost<br>104 LPS, 375 m <sup>3</sup> /hr at 3.2 bar | 1800 GPM at 46 psi boost<br>114 LPS, 409 m <sup>3</sup> /hr at 3.2 bar | 1800 GPM at 72 psi boost<br>114 LPS, 409 m <sup>3</sup> /hr at 5.0 bar | 1800 GPM at 89 psi boost<br>114 LPS, 409 m <sup>3</sup> /hr at 6.1 bar | 1800 GPM at 124 psi boost<br>14 LPS, 409 m <sup>3</sup> /hr at 8.6 bar |
| Discharge Pipe   | 6", 8" or 10" flanged fitting (depending on max flow requirement)       |  |  |  |  |  |
| PM Pump  | 5 HP PM Pump - Standard   |  |  |  |  |  |
| Deck Dimensions  | 8' 2" x 11' 6" (2.49 Meters x 3.51 Meters)                              |  |  |  |  |  |
| Min Slab Dimension   | 14' 8" x 17' 6" (4.47 Meters x 5.33 Meters)                             |  |  |  |  |  |
| Cabinet Height   | 8' 6 3/8" (260 cm)  |  |  |  |  |  |

(1) Refer to pump performance curves, provided upon request from pumps@rainbird.com

## Optional Features (cont.)

- **Motors**
  - Motor Heaters
- **Pressure / Flow**
  - Magnetic Flow Meter
- **Intake Options**
  - Intake Screen and Foot Valve
  - Self Cleaning Intake Screen
- **Pump Control**
  - VPM (VFD Per Motor)
- **Display**
  - 8.4 inch, Color Touch Panel Display, with Ethernet port for VNC Connectivity
- **Panel Only**
  - Electrical Panel only (for retrofits)

## • Communications

- Ethernet Radio Modem Kit (requires 8.4 inch, Color Touch Panel Display upgrade)
- Hardwire Ethernet Extender kit (requires 8.4 inch, Color Touch Panel Display upgrade)

## Accessories

### • Enclosures / External Connections

- Environmental Package
- Air Conditioning for Electrical Cabinet
- Re-Prime Piping (Suction Lift Only)
- 5 KW station heater
- Power Zone (120 VAC or 220/240 VAC)
- Custom Zee Pipe

## • Filters

- 8" Wye Strainer Filter (1/8" openings)

## • Intake Filters

- SSt Steel Box Screen (flooded suction)
- SSt Self Cleaning Intake Screen with foot valve

## • Lake Level Control

- Lake level control circuit: Float probe sensor
- Lake level control circuit: Analog submersible transducer

## Details

