Duplex Demand

Manufacturer: IDT Systems

Model: WBS Duplex
Voltage: Available in 115V and 115/208/230V
Phase: Single

Number of Pumps: 2

Float Tree(s) Required: Two 2-Float Tree

Electrical Schematic Available at:
www.waterloo-biofilter.com → Products → Controls & Floats → Duplex Demand

Dosing Type: Demand to Biofilter & Demand to Disposal

Typical Applications:
1. Dosing Biofilter and Disposal (<3,000 L/day)

Operational Description

Typically, a Duplex Demand panel requires two 2-float trees for operation. Each float tree consists of:

1. ***Start/Stop float – Super Single (Grey) -*** **(Turns pump on/off)**
2. ***High Water Alarm float – Sensor (Black) -*** **(Activates audible and visual alarms)**

Dosing Biofilter: Float tree located in dosing chamber

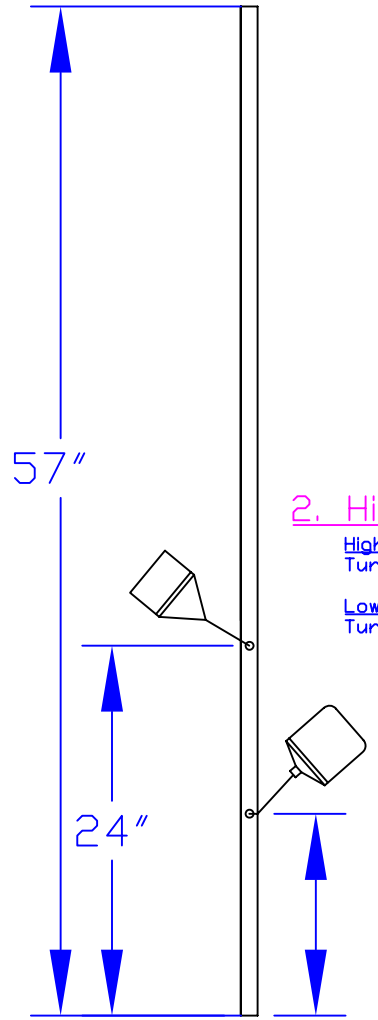
The ***Start/Stop float*** turns the pump on/off. When this switch rises, the pump turns on. When this switch drops, the pump turns off. The *Start/Stop float* is preset and clamped to 16" from the bottom of the pump chamber.

The ***High Water Alarm float*** notifies the operator of a high water level in the tank. When this switch rises for more than 2 seconds, it activates the audible and visual alarms. A high water level may result from a surge of influent. Continual alarms may imply an undersized system or a failed pump. The ***High Water Alarm float*** is preset to work with the WB5-24 Pump Chamber. If not using the WB5-24 Pump Chamber the float and should be clamped to ¾ the height of the pump chamber from the bottom of the chamber. This is a safety factor to provide time for the operator to investigate and react to the problem before outbreaks occur.

Dosing Disposal: Float tree located in Biofilter tank

The control for dosing disposal is the exact same as dosing the Biofilter. The only difference is that the ***High Water Alarm float*** is preset 24" from the bottom of the tank.

2-Float Tree: Inside Dosing Chamber Demand Dosing



2. High Water Alarm

High Position (>2 seconds)
Turns ON audible and visual alarm

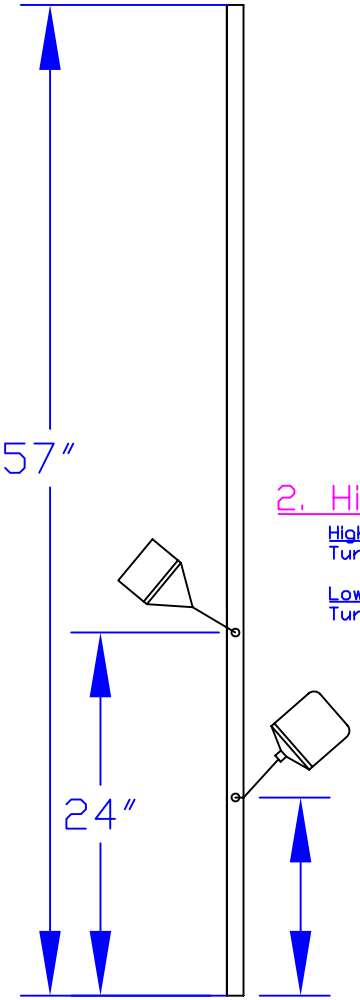
Low Position
Turns OFF audible and visual alarm

1. Start /Stop

High Position
Turns ON pump

Low Position
Turns OFF pump

2-Float Tree: Inside Biofilter Tank Demand Dosing



2. High Water Alarm

High Position (>2 seconds)
Turns ON audible and visual alarm

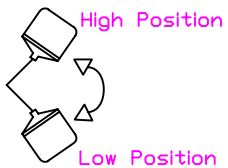
Low Position
Turns OFF audible and visual alarm

1. Start /Stop

High Position
Turns ON pump

Low Position
Turns OFF pump

Legend



Duplex Demand Float Trees