Project Name: Lakewood Country Club Salesperson: Mike Green

Order Date: 10/26/2020 Ship Date: 12/29/2020 Apps Engineer: Chandler Blaschka

Station Type: Vertical Turbine Site Voltage: 460VAC/3Phase/60hz

Configuration: N/A Power Configuration: WYE 3PH 4 Wire

Prime System: N/A SCCR Rating: 35 kA

Dynamic Inlet PSI: N/A FCC Type: N/A

Feet of Lift: N/A Station Location: Inside - Weather Resistant Building

Discharge PSI: 120 Site Elevation: 720

Total Flow: 1800 Regulatory Compliance: UL Listed - Industrial Control Panel

Station Color: WT Green Wet Well Depth: See CSO

Elec. Encl. Location: On Skid Flow Meter Location: On Skid

Sold To

Customer PO: 2008110728Q002 City: Mt. Pleasant
Company Name: Thielen Turf & Irrigation State: Michigan
Address 1: 600 Industrial Ave Zip: 48858

Address 2 : Country : United States

Sold To Contact

First Name : Doug Phone Number :
Last Name : Thielen Fax Number :
Mobile Number : (989) 506-6037 Email Address :

Invoice Price Information

Invoice Price: \$148,917 Refer to WT Change Order:

Muiltiplier: Term of Sale: 50% Down

Corrected Price : Special Terms Approved by :

Ship To

Company Name : Lakewood Country Club City : Westlake Address 1 : 2613 Bradley Road State : Ohio

Address 2 : Zip : 44145

Country: United States

Ship To Contact

First Name : Aaron Phone Number :
Last Name : Archambauh Fax Number :
Mobile Number : (603) 502-7438 Email Address :

Shipment Details

24 Hour Advance Notice : Yes Notification of Shipment : All

Carrier: FOB Hartland - WT Selects Carrier Other:

Services Included in Total Price: Full Installation Arrival Confirmation Notes:

Installation Service Type: None Station Weight:

Comments

Project Name: Lakewood Country Club Salesperson: Mike Green

Skid Construction

Skid Construction: Formed Steel 8-3/8" Coating for Skid: Painting

Fit in Shipping Container: No Skid Color: Same as Station

Skid Construction Details : Describe Special Coating Under Skid :

Lifting Points: 10 Leveling Kit: 1

Comments

Pump / Manifold / Piping

Piping Material : Mild Steel Station Iso Butterfly Valve Size (in) : 8

Pipe Coating: Paint Only
Station Iso Butterfly Valve Style: Lug Style
Pipe Coating Application: Exterior Only - Specify
Station Butterfly Valve Operator: Gear Wheel

Pipe Color (Exterior) : Same as Station Flow Meter Type : Mag Meter (Growsmart)

Injection Taps Per Zone : 5-3/4" - See CSO PRV Size (in) : 4

Pressure Reliefe Valve Type : Flanged Angle System Relief Piped To : Wet Well

Wet Well to Sub Motor : 6 IN Column Material of Construction : Mild Steel

Wet Well to VT Basket: 12 IN

Comments

Station Enclosure - None

Drop Pipes - None

Pumps

Sustain Pump

Pump Specification Motor Specificaiton

Watertronics Part Number: 46-09-4009 Watertronics Part Number: 48-31-0504

Manufacturer : Goulds Manufacturer : Franklin

Manufacturer Model Number : 65GS50 Manufacturer Model Number : 2343278802G

Pump Type : Sub Horse Power : 5
Efficiency : Efficiency :

TDH: 280FT Enclosure: Submersible Flow: 45GPM Frame: NEMA-4

TPL: 158.375" Motor FLA: 8.2 Stages: 16 Coupling Type:

RPM: 3600 Motor Coupling Size:

Discharge Size: 2IN Winding Heaters: No
Impeller Trim: Motor Temp Switch: No

Check Valve Above Skid : Yes Vibration Sensor : No

Comments: Pump Column is 304SS

Project Name: Lakewood Country Club Salesperson: Mike Green

Pumps

Motor Efficiency for All Motors: Premium Motor Elevation Derate: N/A

Jockey Pump (#1)

Jockey Sequence: 8 Temperature Sensor at Intake: N/A

Pump Specification Motor Specification

Watertronics Part Number: NP-11-2937 Watertronics Part Number: 48-29-0017

Manufacturer : Integrity Manufacturer : Nidec

Manufacturer Model Number : 7ILH Manufacturer Model Number : FG70
Pump Type : VT Horse Power : 15

Efficiency: 76% Efficiency: 93% TDH: 295 FT Enclosure: WP1 Flow: 125GPM Frame: 254TP

TPL: 152.375" Motor FLA: 36

Stages: 10 Coupling Type: Self-Release Coupling

RPM: 1800 Motor Coupling Size: 1IN

Discharge Size: 4IN Winding Heaters: Yes

Impeller Trim: 5.705IN Motor Temp Switch: No

Comments: 7IML-12 Stage Vibration Sensor: No

Main Pump (#2)

Temperature Sensor at Intake: N/A

Pump Specification Motor Specification

Watertronics Part Number : NP-11-2936 Watertronics Part Number : 48-29-0055

Manufacturer : Integrity Manufacturer : Nidec

Manufacturer Model Number : 12ICH Manufacturer Model Number : DT-95

Pump Type: VT Horse Power: 60
Efficiency: 83.1% Efficiency: 95%
TDH: 295 FT Enclosure: WP1

Flow: 600GPM Frame: 364TP
TPL: 152.38" Motor FLA: 68

Stages: 4 Coupling Type: Self-Release Coupling

RPM: 1800 Motor Coupling Size: 1-1/4"

Discharge Size: 6IN Winding Heaters: Yes

Impeller Trim: 9.125IN Motor Temp Switch: No

Comments: 12ICH-4 Stage Vibration Sensor: No

Project Name: Lakewood Country Club Salesperson: Mike Green

Main Pump (#3)

Temperature Sensor at Intake: N/A

Pump Specification Motor Specification

Watertronics Part Number: NP-11-2936 Watertronics Part Number: 48-29-0055

Manufacturer : Integrity Manufacturer : Nidec

Manufacturer Model Number : 12ICH Manufacturer Model Number : DT-95

Pump Type: VT Horse Power: 60

Efficiency: 83.1% Efficiency: 95%

TDH: 295 FT Enclosure: WP1

Flow: 600GPM Frame: 364TP

TPL: 152.38" Motor FLA: 68

Stages: 4 Coupling Type: Self-Release Coupling

RPM: 1800 Motor Coupling Size: 1-1/4"

Discharge Size: 6IN Winding Heaters: Yes

Impeller Trim: 9.125IN Motor Temp Switch: No

Comments: 12ICH-4 Stage Vibration Sensor: No

Main Pump (#4)

Temperature Sensor at Intake: N/A

Pump Specification Motor Specification

Watertronics Part Number : NP-11-2936 Watertronics Part Number : 48-29-0055

Manufacturer : Integrity Manufacturer : Nidec

Manufacturer Model Number : DT-95

Pump Type : VT Horse Power : 60

Efficiency : 83.1% Efficiency : 95%

TDH : 295 FT Enclosure : WP1

Flow : 600GPM Frame : 364TP

TPL: 152.38" Motor FLA: 68

Stages: 4 Coupling Type: Self-Release Coupling

RPM: 1800 Motor Coupling Size: 1-1/4"

Discharge Size: 6IN Winding Heaters: Yes

Impeller Trim: 9.125IN Motor Temp Switch: No

Comments: 12ICH-4 Stage Vibration Sensor: No

Additional Pump Details

Discharge Head Material (Mains): Ductile Iron Shaft Material (Mains): 416SS

Check Valve Design (Mains): Silent Slam Discharge Head Seal (Mains): Mechanical Seal

ISO Valve Design (Mains): EBV

Pump Comments

Project Name: Lakewood Country Club Salesperson: Mike Green

Level Controls

Level Sensing Method : Level Float (normally closed) & Transducer Location : Wet Well

Number of Set Points: 1

Pond Fill Logic (2)

Fill SourceTypeHOAPond 1ContactNoPond 2ContactNo

Leve Control Comments

Filtration

Inlet Filter

Inlet Flume Size (OD): Filter Flume Type / Schedule: 24" SDR35

Filter Manufacturer : Watertronics Type : Stainless Box Screen

Model: SBS-36 Inlet Screen Size:

Comments: Shipped Early

WYE Strainer

WYE Strainer Manufacturer: Metraflex

Type/Size: Autoflush WYE (LPD) - 10" w/ 1/8" Perforated Screen

Comments:

Filtration Comments

Flush line gets 3" flanged drop pipe - 36" bury

Project Name: Lakewood Country Club Salesperson: Mike Green

Electrical Spec

Pump ID	HP	RPM	GPM	HTR	XL	VFD	SS	EBV	Temp SW	Pump Temp Sensor
Sustain	5	3600	46	No	Yes	None	No	No	No	No
Jockey (#1)	15	1800	125	Yes	Yes	1	No	Yes	No	No
Main (#2)	60	1800	600	Yes	Yes	1	No	Yes	No	No
Main (#3)	60	1800	600	Yes	Yes	1	No	Yes	No	No
Main (#4)	60	1800	600	Yes	Yes	1	No	Yes	No	No

Mechanical Reference

Inlet Pressure: N/A Inlet Pressure Transducer: N/A

Discharge Flow: 1800 Flow Meter Type: Mag Meter (Growsmart)

Discharge Pressure: 120 Discharge Size: 8IN

Options

Control System : Sigma w/ Touchscreen Disconnect Type : Fused

Display: 7" Color Panel Location: On Skid
Surge Protection: Standard Dead Front: No
Opto Coupler: Yes NEMA Rating: 3R
Opto Isolator: Yes Station Heating: No
Lighted HOAs: Yes Panel Leg Height: Not Set

ETMs on Panel : No Window Kit : No Panel Lighting : Interior Only VFD Viewing Window : Yes

Power Phase Monitor Protection : Yes Enclosure Cooling : Heat Exchanger Left

Individual Motor Disconnects : No Chemical Treatment Relay : Yes

Accessory Junction Box : No Remote Disable Relay : Yes

Fertigation Run Relay: Yes Electrical Enclosure Size: 75X72X16

Option Comments

Power Phase Monitor Protection, Remote Disable Relay, Fertigation Run Relay

Station Enclosure - None

Level Controls - None

Level Sensing Method: Level Float (normally closed) & Transducer Location: Wet Well

Number of Set Points: 1

Fill SourceTypeHOAPond 1ContactNoPond 2ContactNo

Level Control Comments

Fertigation - None

Auxiliary Power - None

Power Conditioning - None

Project Name: Lakewood Country Club Salesperson: Mike Green

Telemetry

Type: WV Cloud Provider: 4G Verizon Software and Version: 5 Year Standard

Lattitude : 41 26'56.42" N Longitude : 81 57'26..06" W

WYE Strainer

WYE Strainer Manufacturer : Metraflex Type Size : Autoflush WYE (LPD) - 10"

Sequence of Operations

ALARMS: Low pressure, high pressure, low wet well level, phase/voltage and VFD fault (when applicable) are standard alarms. Please list additional alarms below:

Sequence of Operations Comments

Standard (pressure drop start / flow drop retire)

Additional Items Comments