

Job Number: 2020676

Model Number : HCLVE-1-50x2/10VMSV-460-3-1100-110

Project Name: Heritage Golf Course

Salesperson: Eric Pifer

Order Date : 12/30/2020

Ship Date : 3/9/2021

Apps Engineer : Chandler Blaschka

Station Type : Horizontal Centrifugal

Site Voltage : 460VAC/3Phase/60hz

Configuration : Suction Lift

Power Configuration : WYE 3PH 4 Wire

Prime System : Vacuum Prime

SCCR Rating : 35 kA

Dynamic Inlet PSI : N/A

FCC Type : B

Feet of Lift : 8

Station Location : Inside - Weather Resistant Building

Discharge PSI : 110

Site Elevation : 891

Total Flow : 1100

Regulatory Compliance : UL Listed - Industrial Control Panel

Station Color : WT Sandstone

Station Enclosure : CSM Enclosure

Sold To

Customer PO : 091220EPSGCLV-50

City : Delavan

Company Name : Irrigation Protection Services

State : Wisconsin

Address 1 : W8370 Springwood Lane

Zip : 53115

Address 2 :

Country : United States

Sold To Contact

First Name : Gabe

Phone Number :

Last Name : Lopez

Fax Number :

Mobile Number : (262) 749-1491

Email Address : irrmaster01@gmail.com

Invoice Price Information

Invoice Price : \$197,366

Refer to WT Change Order :

Muiltiplier :

Term of Sale : 50% Down

Corrected Price :

Special Terms Approved by :

Ship To

Company Name : Marquette Golf Course

City : Marquette

Address 1 : 1075 Grove Street

State : Michigan

Address 2 :

Zip : 49855

Country : United States

Ship To Contact

First Name : Gabe

Phone Number :

Last Name : Lopez

Fax Number :

Mobile Number : (262) 749-1491

Email Address : irrmaster01@gmail.com

Shipment Details

24 Hour Advance Notice : Yes

Notification of Shipment : All

Carrier : FOB Hartland - WT Selects Carrier

Other :

Services Included in Total Price :

Arrival Confirmation Notes :

Installation Service Type : None

Station Weight :

Comments

Mechanical Engineer: Bob Surdyk

Controls Engineer: Cory Wolgast

Electrical Engineer: Sandy McElhinny

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HC Requirements

Max Lift (ft) : 8	Suction Line Material : HDPE
Station is Drawing From : Reservoir through suction lines	Priming Method : Vacuum Prime
Suction Lines Provided by : Watertronics	Vacuum Prime Detail : Standard Vacuum Prime
Customer Provided Details :	Foot Valve Required : No
Suction Line Configuration : Common Suction Line	Foot Valve Details :

Comments

Neptune black floats for 10" Suction line (qty. 3)

Skid Construction

Skid Construction : Formed Steel 6-3/8"	Coating for Skid : Painting
Fit in Shipping Container : No	Skid Color : Same as Station
Skid Construction Details :	Describe Special Coating Under Skid :
Lifting Points : 12	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 : Data Industrial
Injection Taps Per Zone : 3-3/4"	PRV Size (in) : 3
Pressure Relieve Valve Type : Flanged Angle	System Relief Piped To : Flush Line

Comments

Station Enclosure

Station Enclosure Type : CSM	Enclosure Paint Color : Same as Station
Acoustic Insulation : No	Thermal Insulation : No
Exterior Lighting : 70W LED External Dusk to Dawn Light	Interior Lighting : Yes
Snow or Wind Rating : No	Roof Hatch : No
Special Enclosure Height : No	External Power Connection : Fused Disconnect Box

Comments

Drop Pipes

Inlet Drop Pipe : Yes - See CSO	Discharge Drop Pipe : Yes - See CSO
Paint Color : Same as Station	Paint Color : Same as Station

Comments

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Pumps

Motor Efficiency for All Motors : Premium

Motor Elevation Derate : N/A

Jockey Pump (#1)

Jockey Sequence : 3

Temperature Sensor at Intake : Yes

Pump Specification

Watertronics Part Number : NP-10 9407
Manufacturer : Goulds
Manufacturer Model Number : 15SVRJ4F50
Pump Type : VMS
Efficiency : 70%
TDH : 280 FT
Flow : 100GPM
TPL : N/A
Stages : 6
RPM : 3600
Discharge Size : 2IN
Impeller Trim : N/A
Comments :

Motor Specification

Watertronics Part Number : Part of Pump
Manufacturer : Part of Pump
Manufacturer Model Number : Part of Pump
Horse Power : 10
Efficiency :
Enclosure : ODP (Open Drip Proof)
Frame :
Motor FLA : 9.6
Coupling Type :
Motor Coupling Size :
Winding Heaters : No
Motor Temp Switch : No
Vibration Sensor : No

Main Pump (#2)

Temperature Sensor at Intake : Yes

Pump Specification

Watertronics Part Number : 88-50-0123
Manufacturer : Goulds
Manufacturer Model Number : 12BF
Pump Type : HC
Efficiency : 76.6%
TDH : 280 FT
Flow : 500GPM
TPL : N/A
Stages : 1
RPM : 3600
Discharge Size : 3IN
Impeller Trim : 8-11/16IN
Comments :

Motor Specification

Watertronics Part Number : 48-11-3024
Manufacturer : Baldor
Manufacturer Model Number : EJMM2542T
Horse Power : 50
Efficiency : 93%
Enclosure : OPSB (Open Slotted Band)
Frame : 324JM
Motor FLA : 58
Coupling Type :
Motor Coupling Size :
Winding Heaters : No
Motor Temp Switch : No
Vibration Sensor : No

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Pumps

Motor Efficiency for All Motors : Premium

Motor Elevation Derate : N/A

Main Pump (#3)

Temperature Sensor at Intake : Yes

Pump Specification

Watertronics Part Number : 88-50-0123
Manufacturer : Goulds
Manufacturer Model Number : 12BF
Pump Type : HC
Efficiency : 76.6%
TDH : 280 FT
Flow : 500GPM
TPL : N/A
Stages : 1
RPM : 3600
Discharge Size : 3IN
Impeller Trim : 8-11/16IN
Comments :

Motor Specification

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Horse Power : 50
Efficiency : 93%
Enclosure : OPSB (Open Slotted Band)
Frame : 324JM
Motor FLA : 58
Coupling Type :
Motor Coupling Size :
Winding Heaters : No
Motor Temp Switch : No
Vibration Sensor : No

Additional Pump Details

Discharge Head Material (Mains) : Ductile Iron
Check Valve Design (Mains) : Silent Slam
Individual Iso Valve (Mains) : EBV

Shaft Material (Mains) : N/A
Discharge Seal Type (Mains) : N/A

Comments

Level Controls - None

Filtration

Discharge Filter

Filter Quantity : 1
Discharge Filter Type : Automatic Self-Cleaning
Future Filters : 0
Bypass : 8IN

Filter Manufacturer : VAF
Model : V1000NB-8
Filter Mesh Size : 300 Micron
Filter Flush Type : Automatic - Pressure Diff

Comments

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Electrical Spec

Pump ID	HP	RPM	GPM	HTR	XL	VFD	SS	EBV	Temp SW	Pump Temp Sensor
Jockey (#1)	10	3600	100	No	Yes	1	No	Yes	No	Yes
Main (#2)	50	3600	500	No	Yes	2	No	Yes	No	Yes
Main (#3)	50	3600	500	No	Yes	3	No	Yes	No	Yes

Mechanical Reference

Inlet Pressure : N/A
 Discharge Flow : 1100
 Discharge Pressure : 110

Inlet Pressure Transducer : N/A
 Flow Meter Type : Data Industrial
 Discharge Size : 8IN

Options

Control System : Sigma w/ Touchscreen	Disconnect Type : Non-Fused
Display : 7" Color	Panel Location : On Skid
Surge Protection : Premium	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 : 110	VFD Viewing Window : Yes
Panel on Skid : Yes	Enclosure Cooling : A/C - Indoor Right
Individual Motor Disconnects : No	Chemical Treatment Relay : Yes
Accessory Junction Box : Yes - See Comments	Remote Disable Relay : Yes
Fertigation Run Relay : Yes	Electrical Enclosure Size : 75X60X16

Option Comments

J Box to be mounted outside for 3 terminal connections to power remote satellites for the irrigation system. J Box wiring will be wired to the 5 KVA distribution panel Set the control panel 42" inside enclosure for protection. The power for the bathroom will need to be located on the power side of the disconnect. We will need a 30 amp fusible 3 phase disconnect box to be mounted on the outside of the pump station that will supply power to the bathrooms on the course. 460-1PZ supply.

Station Enclosure

Exterior Lighting : 70W LED Dusk to Dawn Light
 Interior Lighting : Yes

External Power Connection : Fused Disconnect Box

Level Controls - None

Fertigation - None

Unregulated Power Supply - 5 kVa

Breakers

Qty : 2

Voltage : 120

Amps : 15

Power Conditioning - None

Mechanical Engineer: Bob Surdyk

Controls Engineer: Cory Wolgast

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Telemetry

Type : WV Cloud

Provider : 4G Verizon

Software and Version : 5 Year Standard

Latitude : 46 31'56.91" N

Longitude : 87 25'24.27" W

Discharge Filter

Filter Mfr : VAF

Filter Model : V1000NB-8

Type : Automatic Self Cleaning

Filter Flush Type : Automatic - Pressure Differential

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:

Alarm 1 : N/A

Alarm 2 : N/A

Alarm 3 : N/A

Alarm 4 : N/A

Sequence of Operations Comments

Standard (pressure drop start / flow drop retire)

Additional Items Comments

Neptune black floats for 10" suction line (qty. 3) - ship loose