



Pump Mechanical Technical Services, LLC

DATE: 05/09/24

BUYBOARD VENDOR # 672-22*

TO: STONE TREE GOLF CLUB

ATTENTION: Dale Hough / City of Killeen Parks

Reference: STONE TREE GC VFD CONTROL PANEL- (UPDATED)
SCOPE OF SUPPLY

Main Control Panel

Custom Enclosure

- UL 508a Listed Control Panel Custom Engineered & Manufactured in Same Facility as Pump Station
- Watertight UL Type 4 Enclosure
- 72INx60INx18IN (HxWxD), Final Panel Size Confirmed in Approval Drawings
- 12 ga. Mild Steel Construction with Self-Healing Zinc Primer and Superior Outdoor Rated Powder Coated Textured Finish
- Heavy Duty Concealed Hinge / 3- Point Latch with Handle (Pad Lock Capable), Easily Removeable Doors and Center Post for Servicing
- Rigid Steel Backplate with Pure White Powder Coat
- Stainless Steel Doorstop(s), (Standard on All Doors)
- 12IN Data Pocket Containing All Pertinent Panel Documentation and As Built Drawings for Easy in Field Reference
- Manufactured in the USA

Main Power

- 400-Amp Main Fused Disconnect to Protect Valuable and Critical Components from Overloads and Abnormal Supply Power Conditions
- Industry Leading Short Circuit Current Rating (SCCR) of 100,000 Amps to Impede Catastrophic Failure
- Type 1 Surge Protection w/Status Indicators for Safeguarding of Electrical System Against Destructive Transient Power Surges
- Active Incoming Line Phase Monitor W/Primary Fusing for Detection of Voltage Imbalance, Phase Sequence, and Loss of Phase
- Regulated & Adjustable DC Power Supply for Safe User Operation and Stable Clean Power to Control Processing Components
- GFCI Outlet for Convenient Laptop Power
- Robust Industrial Control Power Transformer w/Primary Fusing

Pump/Motor Control/Power

- Control & Power for QTY (1) 5 HP **Pressure Maintenance Pump/Motor** with XL Operation
 - Green Illuminated Off/On Switch with Running and Blinking Fault Indication
 - Pump/Motor Running Feedback
 - XL Operation
 - Advanced Fuse Protection Technology for Safeguarding Against Power Surges and Overloads
 - Solid State Overload Protection with Precise Monitoring Per Motor and Shutdown Safety
- **Control & Power** for QTY (3) 50 HP **Main Pump/Motor** with Single Shared VFD/XL Operation
 - Green Illuminated Off/On Switch with Running and Blinking Fault Indication
 - Pump/Motor Running Feedback
 - Variable Frequency Drive Operation
 - High Accuracy Pump/Motor Speed Control
 - Manual VFD Speed Pot
 - VFD Bypass Switch Per VFD for Alternate Pressure Control Mode in the Event of VFD Failure
 - Equipped With Input Impedance Per VFD for Smooth, Stable, & Consistent Power
 - Fast Acting Fusing for VFD Protection
 - VFD Fault with Auto Restart
 - 6-Year Warranty on VFD Including Coverage Against Damages from Momentary Line or Load Anomalies such as Lightning Strikes.
 - XL Operation
 - Advanced Fuse Protection Technology for Safeguarding Against Power Surges and Overloads
 - Solid State Overload Protection with Precise Monitoring Per Motor and Shutdown Safety Including Contactor Interlocks for Safe Operation

Control Features & Hardware

- Allen Bradley Compactlogix Fast Processing Robust PLC for Self-Sufficient Automatic Operation
- Allen Bradley 10IN Panelview High Resolution Display with Intuitive Color Operator Control and Monitoring of Critical Processes
- System “Full Size” Type 4 Operator Control Devices
 - Manual/Off/Auto System Control
 - Red Illuminated Fault Push Button
 - Blue Illuminated Maintenance Light
- PLC Flow Adjustable Fertigation Run Relay with Dry Contacts
- System Safeties:

- Main Inlet Safety
 - Loss of Prime Shutdown w/Auto Reset
- Low Discharge Pressure Shutdown/Hard Fault
- High Discharge Pressure Shutdown w/Auto Restart
- Phase Failure, Imbalance, and Low Voltage Protection
- **Operation Features**
 - Door Device Lamp Test Function
 - Automatic Alternation of Pumps Based on Least Run Time
 - Intelligent Slow Ramp Feature for Automatic Line Fill
 - 3-Year Flow Total Logging Day/Week/Month/Year
 - Pump Run Times
 - Event Log
 - Flow and Station Trending
 - Assignable I/O
 - Multi-Parameter Adjustable Pump Station Lockout
 - Lockout Parameters: **Individualized Day/Time Settings**
 - Pressure Setpoint/Max
 - External Input
 - Max Number of Pumps Allowed
 - Power Consumption
 - Max VFD Speed
- **MCI Remote Cell Monitoring w/1 Year Activation** (Cell Service Starts When Equipment Ships from MCI)
 - nSite, MCI's Cloud Based Solution **NO SUBSCRIPTION FEE**
 - Scheduled Monthly Email with Flow Report in Excel Format
 - Access To One Full Year of Pressure, Flow, Alarms and Event Data
 - **Remote Pump Station Disable Feature from Any Smart Device Or PC**
 - **Factory Support Remote Access to PLC/HMI and VFD for Programming and Troubleshooting**
 - nAlert
 - Manage Maintenance Due Dates for All Aspects of Maintenance on Your Pumping Station
 - Warning Light, Display Message and Email Alert When Due Monitor and Report Irregular Operation of Irrigation System, Pump System and Filter System

Optional Equipment: (Not Included in pricing)

- **Cellular Central Irrigation Communication Package** **\$3,800.00**
 - Allows the Toro or Rainbird Irrigation Central Computer to Communicate Directly with the MCI Flowtronex Pump Station.
 - Allows User Defined Adjustments During Scheduled Irrigation Cycles
- **Cell Booster Package** **\$675.00**

- Ultra-wide Band Weather-Resistant Antenna Designed for Maximum Performance in Rural Areas
- Extended Range for the most Remote Signal Booster Applications
- Easy to Install Quick-Connect Antenna with Pre-Assembled Mounting Bracket

EQUIPMENT ONLY PRICE: \$76,569 .00

PMTS LABOR: \$ 8,400.00 (2 TECHS)

FREIGHT:(DEDICATED) \$ 1,200.00

***SALES TAXES NOT INCLUDED**

*****BUYBOARD VENDOR # 672-22*****

*** Lead Time:**

Production 16 – 18 Weeks From Date of Drawing Approval

***Deposit: 50% Production Deposit due with signed order,
Balance due on completion.**

MCI Flowtronex reserves the right to substitute alternate products for any named brand products based on availability.

Additional Warranty items

- **Warranty Includes crane if needed**
- **6-year warranty on Variable frequency drive (Includes Lightning Damage Coverage and Labor to Replace)**
- **6-Year Warranty on ALL COMPONENTS IN ELECTRICAL PANEL, Inclusive of power related damage such as lightning. Includes parts only.**
- **2-year warranty on Station**

Attentively,

Ric Martinez Sr.

Pump Mechanical Technical Services

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Billing

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