



Residential Landscape Turf System Design Form

Date: _____ Project Name: _____

Project Location: _____ City: _____ State: _____

Customer Name: _____

Address: _____ City: _____ State: _____

Phone: _____ Fax: _____ Email: _____

Pump System Type: Booster Flooded suction * Suction lift (5 feet max.) *Feet of lift* *Flow rate*

Site Conditions: **Voltage** 208 240 480 **Phase** Single Phase Three Phase

Start Configuration: Controller start Pressure start

Pump System Technology: VFD

Site Calculations:

- | | |
|--|-------------------------------|
| 1. Static pressure at point of connection (POC) | PSI |
| 2. Losses from POC to pump station intake (meter, service line, elevation, etc.) | PSI |
| 3. Loss for backflow preventer (12-15 PSI) | PSI |
| 4. Subtract lines 2 & 3 from line 1 | System Dynamic Pressure = PSI |

Boost Calculations:

- | | |
|---|------------------------------|
| 5. System requirements = (sprinkler pressure required + main line loss+ backflow preventer + lateral line loss + elevation) | Desired Pressure = PSI |
| 6. System dynamic inlet pressure (line 4 from above) | PSI |
| 7. Subtract line 6 from line 5 | Boost required by Pump = PSI |

Options

- Stainless Steel Enclosure
- Sandstone Finish (steel enclosure only)
- Dead-front Service Disconnect
- Suction Z Pipe (System Intake x)
- Discharge Z Pipe (System Discharge x)
- Stationary Lake Screen

Available on Suction Lift Systems Only

- 20' Flexible Suction Line with Foot Valve
- Additional 10' Suction Line x Number

- Submersible Pump in Lieu of Horizontal Pump

* If more than 5 feet of suction lift, consult factory



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