

Booster Pump System Sizing and Design Questionnaire

Project Name: _____

Project Location: _____

Type of Building: _____

Engineer/Rep/Contractor/Wholesaler: _____

Water source: City Well Tank

Minimum dynamic pressure available at booster system suction inlet (psi) _____

Installation Type (Select one)

 Boost directly from pressurized source Boost from break tank (atmospheric tank) Tank above booster; Distance (ft): _____ Tank below booster; Distance (ft): _____ Transport to roof tank; Net height to roof tank (ft): _____

System Requirements

Peak Flow Rate (gpm): _____

If peak flow rate is unknown, list all fixtures/equipment to be supplied from boosted water supply:

Desired pressure at furthest fixture (psi): _____

Distance to furthest fixture (ft); Vertical: _____ Horizontal: _____

Desired booster system discharge pressure, if known (psi): _____

System Configuration

Total number of pumps desired: _____

Desired percentage of total system flow per pump (e.g. 35%, 50%, 100%, etc.) _____

Bladder tank (required for system stop logic - select one)

 Please size with system Manual input (gal): _____

Control System (select one): (select one):

 "A Package:" Full PLC control panel with disconnect, constant pressure pumps (VFD driven motors), and LENS® water quality monitoring of free chlorine or monochloramine, conductivity, PH, temperature, and ORP. "S Package:" Full PLC control panel with disconnect and constant pressure pumps (VFD driven motors). "E Package:" Basic system with constant pressure pumps (VFD driven motors) and basic power distribution panel. Pump controls via VFD display and/or phone app.

Additional capabilities ("A" and "S" systems only):

 Tank fill controls and monitoring Supplemental chlorine injection system controls Filtration controls and monitoring (please describe): _____ External sensor monitoring (please specify): _____ Other (please specify): _____SCCR rating requirement: 10kA (standard) Other (please specify): _____BAS connectivity required? Yes No

Communication protocol: _____

Electrical information; Voltage: _____ Phase: _____

Special requirements and additional information: _____