



- Planning Ahead for Installation
- Installation Procedures Outlined

Installation Planning

- Estimated 10-14 days for a two man team for “rough in” through “final” connections and system startup (assumes two man team is dedicated to this project).
- Plan pump station locations allowing 24” clearance on three sides and 12-18” from a wall if positioned with long dimension perpendicular to wall for service access. Electrical connections end generally oriented facing wall.
- Pump stations are factory assembled, pre-tested and ready to operate except for following final connections:
 1. Power supply connections and all wiring – Electrician supplies.
 2. Incoming water supply connections by plumber and water treatment system technician if applicable.
- Fan locations are identified based on site review and/or detailed on layout schematic.

Installers to Supply:

- Provide use of scissor lift or comparable.
- Tube cutters for nylon 3/8”.
- Zip ties for high pressure (HP) lines to ceiling truss locations, mist ring attachment to fans, securing HP drop down lines to columns (see pics).
- Final fabricated bracketing for each fan location may be required. All fans come with a standard bracket included with the fan boxed. It is optional to paint the galvanized brackets for the 1/2 hp fans (by others) as may be required.
- Optional to install safety cable for securing fan independent to bracketing – depending on local code. Braided vinyl covered metal cable is used to secure fan to a plant fixture to protect against fan potential fall to floor. Cable can be seen in pictures of some of the fans.

Additional Supply:

- IHC may provide additional items for use in the flushing procedure based on project requirements:
 - 1) One Pump Bypass Flushing Valve.
 - 2) Drop Down 1/2” Tube for the flushing procedure (see flushing procedures for further details).

Please return items “additionally supplied” to IHC.



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A. Rough-In

1. Confirm all equipment to complete project is at project site.
2. Set pump station at permanent location.
3. Locate where all fans are to be installed.
4. Plan and run all high pressure lines to each fan location.
*Always use shortest distance possible for all lines to minimize pressure loss over long distances.
Plan all of your cuts to make best yield from 500' coils and 100' coils.*
5. Install one Slip-Lok Tee at each location for drop down to fan.
6. Install drop down line for each fan.
Leave adequate line to allow for gentle sweep into ball valve Slip-Lok connection.
7. Complete at each fan location:
 - a. Prepare any specialized fan bracketing to install fan bracket.
 - b. Install bracket and fan.
 - c. Attach mist ring to face of fan with zip ties.
Some final assembly of ball valve & fittings to mist ring.
 - d. Connect drop down line to each mist ring ball valve.
 - e. Install nozzles finger tight only (optional 1/4 turn more maximum).
8. Electrician provides all plant power to pump, fans and humidistat/zone.
 - a. Connect plant power to pump station.
 - b. Provide/install contactor relay boxes for plant fan power.
 - c. Provide and install 24VAC 18 gauge 2 wire cable from pump to relay boxes in each zone.
 - d. Connect plant power to each fan via relay boxes and dedicated switch for each fan.
 - e. Install Humidistat at eye level (one per zone).
 - f. Provide and install 24VAC 18 gauge 3 wire cable from pump to each humidistat.
9. Install 5 micron sediment pre-filter – wall mount within 10' of Pump Slip-Lok connection or install on pump stand.

B. Finish

1. Verify water treatment system is installed per water treatment instructions.
2. Flush all high pressure lines of fines and debris per flushing instructions provided.
*See two options for flushing using slip over nozzle port line OR screw into nozzle port line (using one drain line).
Note: Do not run system at high pressure until all lines are flushed.*
3. Review two options for high pressure electric drain line:
 - a. Connect and route drain line(s) to drain OR;
 - b. Connect drain line to bladder tank to route drain water back into supply line to pump.
4. Review pre-startup checklist.
5. Perform system startup according to startup procedures.

Note: The installation and order of steps as outlined can vary depending upon factors unique to each project. Detailed information for all installation as outlined above is provided in following pages.