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Tips for Successful Installation of an Environment One DH071-93 Grinder Pump

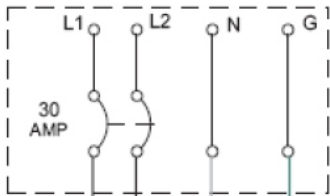
Read and follow the instructions in the installation manual provided with the unit. Everything noted below is included in the installation manual. Failure to install the station according to the manufacturer's installation instructions will void warranty.

- Keep tank upright at all times during transportation and installation to prevent damage to pump
- Tank should be buried so that finished grade line is 1 to 4 inches below the lid and grade slopes away from the station (there is a bury line marked on the shroud)
- Never bury the lid of the tank (this will obstruct the vent and pump will malfunction)
- The unit must be leveled on a 6" bed of pea gravel and the wet well should be filled with water to the bottom of the inlet to help prevent shifting
- A minimum of 405lbs of concrete must be poured around the base of the tank as ballast
- The concrete must capture at least the bottom 2 ribs of the tank
- If tank is not level, damage can occur to the tank after backfilling
- Proper backfill material and compaction are mandatory
- Inlet grommet on tank is for SCH40 PVC – DO NOT USE OTHER TYPE OF PIPE
- 4" pipe from house must enter the station straight – not at an angle
- Pipe end should be a clean cut, chamfered and lubricated with a soap solution
- Mark insertion depth of 3-1/2" on inlet pipe – DO NOT EXCEED DURING INSTALLATION OF PIPE INTO GROMMET
- You are provided with a 4' stick of 1-1/4" pipe to thread into the tank and a 1-1/4" x 1-1/2" compression fitting for adapting to your discharge pipe in the field. Instructions for compression fittings are attached
- For discharge fitting installation into tank – Leave the plastic caps on the threads as long as possible to keep them damage free and as clean as possible
- Make sure the threads on both parts are as clean as possible prior to assembly

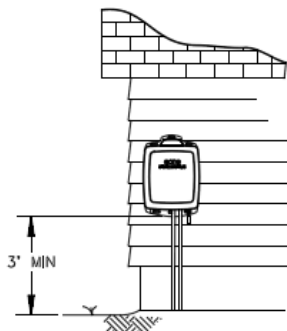
- Use standard PTFE paste for thread sealant on stainless steel discharge fittings
- 75' of Power cable is provided to go from the tank to the Alarm Panel.
- Use only the cable provided – Splices are not allowed and will void warranty
- Pull ALL of the power cable out of the tank – until the cable hits the factory installed stop (this will leave 2'-3' of cable remaining in the tank
- Tighten the liquid tight cord grip (do not over-tighten)
- Install cable shroud to prevent damage to power cord
- EQD and Equalizer must be hung on the provided hooks at the top of the tank
- Supplied power cable is rated for Direct Bury, so conduit for horizontal run is not necessary
- Power cable should be buried a minimum of 24" deep per NEC
- Conduit must be installed for the vertical rises to the access cover and to the alarm panel.
- DO NOT SCREW CONDUIT TO TANK. NO FIELD PENETRATIONS IN TANK ARE ALLOWED
- 6- to 12-inch vertical settling loops required at bottom of each vertical riser to prevent damage when settling occurs
- All stations are provided with a NEMA 4X alarm panel - Alarm panels must be located within sight of the pump, mounted on the building or on a suitable pole
- Panels shall be mounted a minimum of 36" above the ground and shall be in an accessible location outside
- ONLY put holes in the bottom of the Alarm Panel enclosure. Holes in any other location will void warranty
- Seal conduit penetrations into panel with duct seal (NO SILICONE)
- Pump requires 240v single phase power. This must come from a dedicated 30-amp breaker
- Wiring from homeowner's breaker panel shall be #10 AWG and shall have four conductors (L1, L2, Neutral & Ground)

If there are any other installation questions you may have, do not hesitate to contact our service department for guidance at 724-625-4260.

PANEL INSTALLATION QUICK REFERENCE GUIDE



4-WIRES (L1, L2, N, G) 240V SOURCE POWER FROM A DEDICATED 30A BREAKER (No.10 WIRE) (208V NEEDS A BUCK BOOST TRANSFORMER)

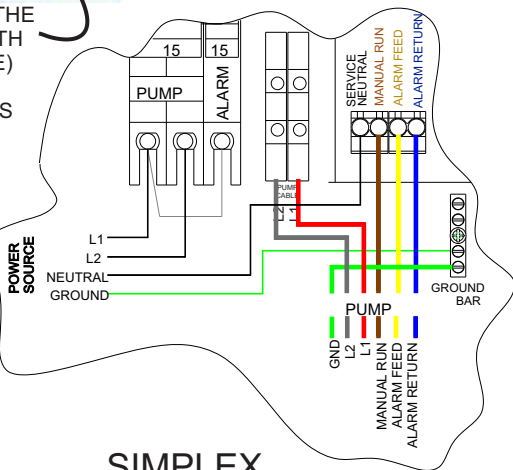


INSTALL PANEL A MIN OF 3 FEET OFF THE GROUND

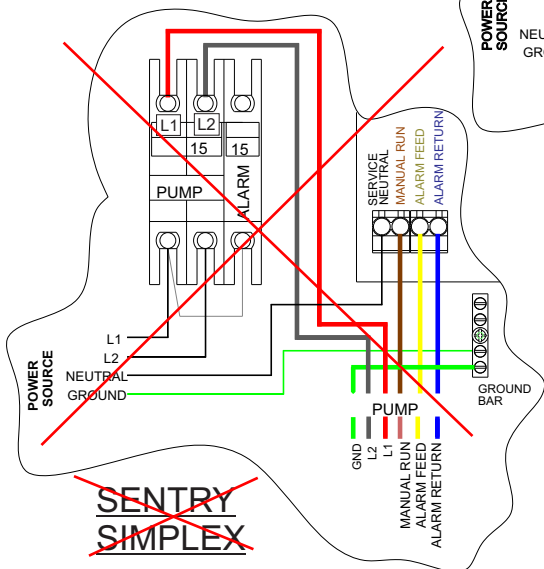


PENETRATIONS IN THE BOTTOM OF THE ENCLOSURE ONLY, SEAL HOLES WITH DUCT SEAL (DO NOT USE SILICONE)

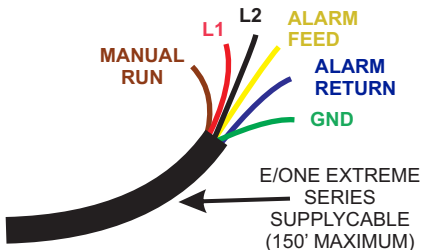
BACK, SIDE OR TOP PENETRATIONS WILL VOID WARRANTY



**SIMPLEX
PROTECT &
PROTECT PLUS**



*WIRE COLORS ARE DIFFERENT ON EXPLOSION PROOF PUMPS AND 2000 SERIES, SEE INSTALLATION INSTRUCTIONS



ALL WIRING TO BE DONE IN ACCORDANCE WITH LOCAL AND NATIONAL CODES

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**ATTENTION:
ELECTRICAL INSTALLER**

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**4 WIRE POWER REQUIRED
L1, L2, N & GND**

*

**ONLY PUT HOLES IN THE
BOTTOM OF THE ENCLOSURE
HOLES MADE IN ANY OTHER
LOCATIONS
WILL VOID THE WARRANTY!**

**EXPLOSION PROOF
PUMP CABLE**

~~L1 = BLACK
L2 = WHITE~~

**STANDARD EXTREME
PUMP CABLE**

**L1 = RED
L2 = BLACK**

INSTALLATION INSTRUCTIONS

For Cepex Compression Fittings and Valves **Compression Ends**

1. **Cut the pipe square or straight** (Preferably with Pipe Cutters).
2. **Chamfer the outer edge of the pipe** (Preferably with a chamfer tool).
3. **Loosen the nut on the compression end of the fitting or valve to the last couple of threads** (It is not necessary to remove the nut).
4. **Insert pipe to first stop, which will be the o-ring** (The o-ring has been lubricated to make insertion easier but additional pipe lube can be added).
 - **On 3" & 4" Fittings: Field lubricate the o-ring and the pipe with pipe lube.**
 - **When installing tees in existing or directionally drilled lines it is imperative to use repair couplings to ensure pipe is relaxed and is pushed past the o-ring.**
5. **Push pipe past the o-ring to next stop.**
6. **Tighten the nut using a pipe wrench or a strap wrench**, (Do not over tighten - Keep in mind that you are using plastic and not an indestructible material).

Male Threaded Ends

1. **Double wrap threads with Teflon tape or use Teflon paste** (Use only Teflon based paste not petroleum based).
2. **Thread male end into female end using a strap wrench or a wrench** (Do not over tighten).

Ball Valve/Curb Stop Installation Procedure

Follow installation procedure for compression fittings but when tightening compression nut of the Ball Valve or Curb Stop, secure with (back wrench) the union nut of the valve. This will prevent over tightening of the union nut. After tightening the compression end or ends of the valve check to see if the valve is operating properly.

Note: If the handle of the ball valve does not turn or the ratchet of the curb stop engages immediately then the ball is seized. To correct: loosen the union nut on the inlet side of the valve and retighten, checking the operation of the valve as you do so.

Curb/Check Assembly Installation

1. Follow above installation procedure
2. *Ensure correct orientation of the check valve*