



15 HP PUMPING STATIONS INSTALLATION MANUAL

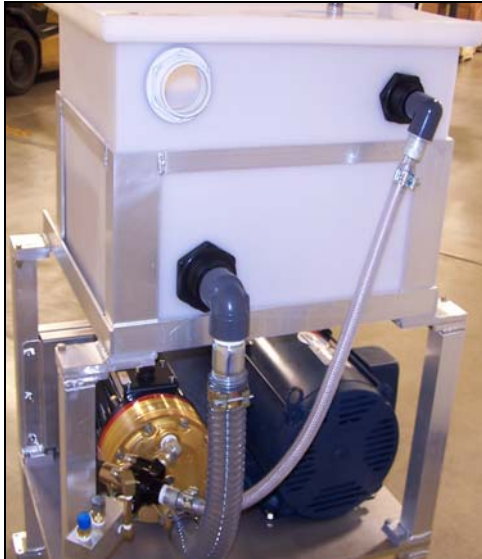
SINGLE and DOUBLE

Equipment Data

Water Supply.....18 GPM (max)
Double.....36 GPM (max)
Construction.....Aircraft Aluminum Grade
UL® RECOGNIZED, CSA CERTIFIED, CE MARK, OPDP

Electrical.....(1) 15 HP, 208/460 VAC, 3 PH
Double.....(2) 15 HP, 208/460 VAC, 3 PH
Dimensions.....32"D x 36"W x 57"H
Double.....42"D x 36"W x 75"H

Equipment Pictures




Pic #1: Single 15HP Pumping Station




Pic #2: Dual 15HP Pumping Station

Installation Instructions

-  **Open** the box and verify that you have all the required components as well as all your installation material.
- Place** unit in designated Equipment Room or Area. Secure unit to the floor with four 3/8" x 4" long wedge anchor bolt.
- Connect** the Three Phase Power Supply from the motor starter to the motor on the pumping station. *The wire connections must be securely fastened together. Use Wire nut connections with electrical tape.* Verify wiring connections with diagram labeled on the electric motor.
- Plumb** 3/4" NPT water supply line to the reservoir tank.
- Connect** the necessary high-pressure hose(s) (rated minimum 2250 psi) from the main outlet manifold on the pumping station to the tunnel equipment. The main manifold has two 1/2" Male JIC outlets available.

Start-Up and Operation

-  **Clean** from any construction debris, dust or other contaminant.
- Fill** tank with water. The water temperature should not exceed 120° F.
- Before** starting the Pump, make sure that all connections are tight and that the discharge system is open.

- Open** the **PRESSURE REGULATOR** adjustment bolt **ALL THE WAY** on the pressure regulator by turning CCW. This will prevent possible damage to the pump.
- Check** for oil in pump. Level should be 1" from top.
- Turn** on unit, (keeping hands and loose clothing away from unit at all times). Allow unit to run for at least 2 minutes. Rotational direction of the electric motor does not affect pump performance or operation.
- Turn** adjusting bolt CW to desired pressure by reading the gauge. This unit will pump about 20 GPM at 850 PSI down to 18 GPM at 1000 PSI. Do not adjust pressure above 1000 PSI.
- Once** desired pressure is set, tighten jam nut on the regulator.

Preventive Maintenance Schedule

Maintenance Performed	Daily	Weekly	First 100 Hours	Every 500 Hours
Change Pump Oil				
Check Reservoir / Pump Intake For Obstructions				
Check Oil Level in Pump				

Trouble Shooting

Trouble	Possible Cause	Probable Remedy
Excess pressure required to bypass fluid.	Regulator not properly adjusted.	Check pressure and set regulator accordingly.
	Not enough fluid being bypassed.	Ensure reservoir is being supplied with water.
	Nozzles worn.	Replace nozzles on tunnel equipment.
Fluid leaking from hole in top of Regulator Adjusting Nut.	Seals worn.	Replace seals on regulator.
System losing pressure.	Nozzles worn	Replace nozzles
	Pump RPM Reduced.	Check drive belt. Electric motor performance.
	Regulator not adjusted	Adjust regulator.
	Worn pump Components	Disassemble pump and replace worn components.
	Regulator valve seat of ball worn.	Replace regulator or component.

Warranty and Return Procedure

Motor City Wash Works warrants this product to be free of defects in material and/or workmanship for a period of **one year** from the date of purchase. During the warranty period MCWW will at its discretion, at no charge to the customer, repair or replace this product if found defective, with a new or refurbished unit, but not to include costs of removal or installation. Any product returned to MCWW for warranty has to have a **Return Material Authorization Number**. All shipping costs to MCWW are assumed by the customer. This is only a summary of **MCWW's Limited Warranty**. Please communicate with MCWW for our complete warranty.

Prior to returning any product to MCWW, the customer must call in for a **Return Material Authorization Number** and a copy of our **Return Material Authorization** Form must be completed. The **RMA** number must be written clearly on the outside of the shipping package and a copy of the form must be included in the package.