

Installation Instructions

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE ECP 0214-1 R2	03-11-24	KMO

IMPORTANT - Do Not rotate the dials on the pumps without the pumps running pump damage will occur

1. Disconnect ROWPU power.
 2. Remove the chemical feed valve/hose stand - The hoses that go from the stand to the water pipes should be tagged - you will re-use these hoses. Leave the hoses attached to the stand for now. Make sure you tag the hoses.
 3. Remove the old chemical feed pump and its wiring.
 4. The new pump assembly fits into the same place on the unit - new bolts are provided.
 5. Connect the new pump wiring and route the cable as necessary.
- NOTE:** When attaching hose to the new pump it is much easier if THE END OF THE HOSE IS HEATED BY PLACING IN A CONTAINER OF HOT WATER - BE CAREFUL NOT TO BREAK OFF THE HOSE BARB FITTINGS ON THE PUMPS.
6. Make new hose assemblies from the correct can to the BOTTOMS of the respective feed pumps. New hose and color-coded shrink tubing are provided. DO NOT CONFUSE THE LINES.
 7. Remove the top portion of the valve/hose stand from the upright supports. Put two (2) spacer blocks between the supports and the top assembly. New bolts are provided.
 8. The upper cross brace on the front of the valve/hose stand is no longer needed - remove and discard.

9. The piping on the chemical feed valve/hose stand needs to be changed. Remove the elbow fitting from the rear (inside the ROWPU) side of the valves and swap it with the straight fitting that is on the center of the valve. This will give you one hose (the return/prime line to the can) going straight forward to the operator, and the other tow (2) lines going straight back into the unit - this makes getting to the pump dials much easier. Replace the lines going from the rear of the valves (the ROWPU side) to the correct pipe locations inside the unit. The center (bottom) of the valves is connected to the TOP of the chemical feed pump MAKE SURE YOU DO NOT CONFUSE WHICH PUMP AND LINES GO TO THE CORRECT PUMPS. Tighten all the hose clamps.
10. The new pumps operate in much the same way as the old pump - but you have more control over the flow. MAKE SURE YOU DO NOT MOVE THE STROKE DIAL ON THE PUMP WITHOUT IT RUNNING. There are two (2) dials on the pumps - speed and stroke. To begin with have the speed about 75% and the stroke bout 75% - adjust from there. Set your rates as before check with your graduated cylinder - adjust as necessary for your water source. More stroke and speed deliver more product into your water stream. You should be able to maintain very fine control. A detailed set of instructions for maintenance on the pumps is included.

UNLESS OTHERWISE SPECIFIED DIM/TOLERANCES ARE: mm IN.		DRAWN BY J. MOORE		DATE 03-11-24		U.S. ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT CENTER FORT BELVOIR, VIRGINIA 22060	
ONE PLACE [.X] ±	—	CHECKED BY R. FRIGON		03-11-24		INSTALLATION INSTRUCTIONS (600 ROWPU CHEMICAL FEED PUMP RETRO-FIT KIT)	
TWO PLACE [.XX] ±	—	CONTRACT NO. DAAE07-03-D-S011/0001					
THREE PLACE [.XXX] ±	—	DESIGN APPROVAL 				SIZE	CAGE CODE
ANGLES ±	—	APPROVED FOR PROCUREMENT 				97403	DWG NO. 12492396
DO NOT SCALE THIS DRAWING		DATE 03-11-24		SCALE		SHEET OF	
FOR INTERPRETATION OF DRAWING DOD-STD-100 APPLIES							
REMOVE BURRS AND BREAK SHARP EDGES							
SHARP EDGES _____ TO _____							
FILLET RADI _____ TO _____							