

MRL Residential Submersible Power Unit

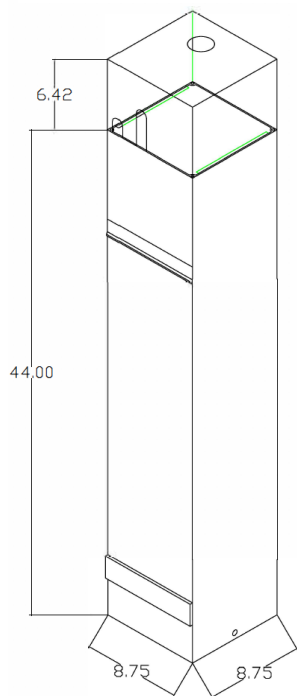


EMI Porta's MRL Residential Submersible Power Unit was designed with the contractor in mind. Compact construction allows for hoistway or machine room placement. The removable bracket allows for easy servicing of the pump and motor out of the hydraulic oil.

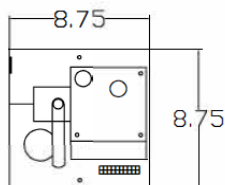
Product Features

- Valve: Blain Hydraulics ¾" EV10 3 Coil or EV100 4 Coil
- Submersible Screw Pump: Settima 4.2gpm to 11gpm @ 500psi
- Submersible Motor: USEM 3 - 4hp Single Phase 208-230v or Three Phase 208-230/460v & 575v
- Oil capacity of 14 gallons & usable capacity of 10.5 gallons allows for applications up to 4 Stops
- Secondary tank available for 5 & 6 Stops
- Hoistway or Machine Room placement
- Considerably less noisy comparable units
- Compact, cost-effective and reliable

Unit dimensions w/ valve



Top plate view



EMI PORTA

250 Hamilton Road, Arlington Heights IL 60005

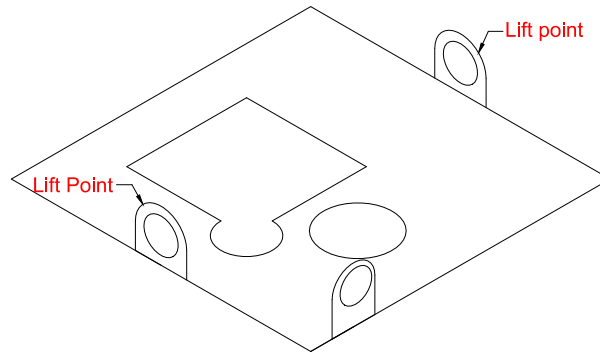
Phone 847-593-4900 Fax 847-593-1394

www.emiporta.com

MRL Installation and Fill Procedure

Installation and Removal of Motor/Pump:

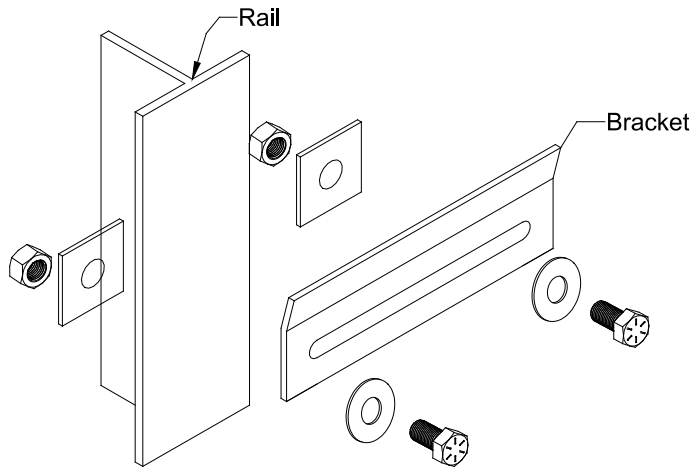
1. Use a sling or hooks rated to lift 150lbs
2. Attach hooks to eyelets see image



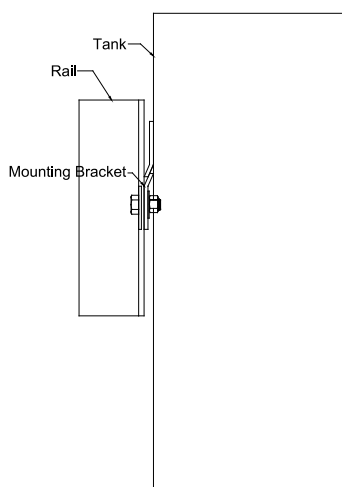
3. It is recommended to use a come-along or ratchet puller to aid in lifting or lowering device

Tank Mounting:

1. Secure mounting bracket to rail or wall.
 - a. If mounting to wall whether into wood or concrete ensure appropriate anchors are used to secure tank into position



2. Align tank bracket and mounting bracket to secure tank into place
 - a. Make sure tank is empty for ease of installation.



3. Ensure all connections are tight and free from slippage.
4. Verify tank is free and clear of being struck during operation of elevator.

Fill Procedure:

1. Remove capacitor from hole
 - a. If unable to remove capacitor lift lid several inches allowing for enough space to insert a funnel
 - b. When lifting unit follow Installation and Removal instructions
2. Insert funnel into capacitor hole
3. With motor and pump inserted into tank pour hydraulic fluid into tank roughly **8 to 10 gallons to start**
4. Run system to extend jack roughly 24 inches worth of stroke length
5. Bleed air from system
6. Fully retract cylinder
7. Repeat steps 4 and 6 until air has been completely removed from system
8. **Finish adding additional fluid leaving a 4" air gap below the lip edge of the tank**
 - a. **Important:** Make sure cylinder is fully retracted before adding additional fluid
9. Fully extend jack and ensure pump is completely submersed in fluid

Notes and precautions:

- Follow fill procedure
- Remove capacitor to fill
 - If unable to remove capacitor lift lid several inches allowing for enough space to insert a funnel
- Do not fill system with 14 gallons all at once
- Ensure pump is constantly submerged
- Ensure cleat and tank are secure before filling with fluid
- **Avoid:** Filling tank if the cylinder is not fully retracted. This can cause the tank to overflow.