


RICE HYDRO, INC.  
MANUFACTURER'S OPERATING INSTRUCTIONS  
EL-SERIES MODEL TEST PUMPS

**FOR WARRANTY REGISTRATION CALL: 1-800-245-4777**

 **WARNING:** Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, operate and service your equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment. For more information go to: [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

**CAUTIONS:**

1. Power source must meet voltage, phase, hertz and amperage requirements of electric motor, as stated on label. **If an extension cord is used, requires at least 12 gauge 3 wire with maximum of 25 foot length.**
2. Check ALL fluid levels prior to operating the unit.
3. Use a sound 3/4" or larger supply hose.
4. Protect the pump from freezing, FLUSH with anti-freeze.
5. DO NOT run dry or pump chlorine thru the unit.

**CONNECTING THE PUMP:**

1. With motor switch in the off position, connect power cord of motor to a standard wall outlet. *Extension cord: when needed, requires a 12 gauge 3 wire, **maximum 25 foot length** plugged into a 20 or larger amp breaker, depending on individual motor requirements.*
2. Connect **CLEAN** pressurized water source to the inlet of the pump. It is recommended that the unit be pressure fed. For gravity feed locate water within 8 feet and elevated above level of unit, and then prime the pump.
3. Connect high-pressure outlet hose to the pump and your test environment.

**OPERATING THE PUMP:**

1. Turn the outlet ballvalve to the open position, start the motor.
2. The pressure regulator has been preset at the factory. **To change this setting you must make this adjustment while the water is flowing freely, and the unit is under NO pressure.** To adjust the pressure, first loosen the locknut. Turn the T-handle/Knob clockwise to increase and counter-clockwise to decrease the pressure. Place a ballvalve or similar open and close valve at the end of the outlet hose, open and close this valve multiple times as needed, to check pressure setting and re-adjust as necessary. It is also recommended that you open and close the hosebib located under the gauge to bleed excess air from piping and ensure accurate pressure gauge readings. Upon reaching desired pressure setting, tighten locknut and prepare to begin test.
3. With the ballvalve open begin building pressure in the test environment. Be sure to bleed the air from hosebib under gauge at least once during this process. Once test pressure has been reached, close the ballvalve and shut-off motor. An inlet checkvalve prevents water pressure from bleeding back into the pump.
4. Once the outlet ballvalve is closed and your test begins, you have now isolated the test pump from the test environment, any loss of pressure is due to leaks or trapped air being compressed in the test environment.

**RECOMMENDED MAINTENANCE**

1. Pumps use non-detergent 30wt oil, gear reductions use 90wt gear oil.