Fuel Polishing Module



Technical Specifications

Flow Rate	126 GPH / 477 LPH
Inlet / Outlet	1/2" Male JIC
Voltage Available	12V or 24V
Max. Work Pressure	58 psi / 4 bar
Max. Suction Lift	10 ft / 3 m with foot valve
Self-Priming	4.9 ft / 1.5 m (wet gears)
Pump Type	Gear
Timer	Programmable digital

Piping Installation

System can be installed on the suction or discharge side of the filter. Use quality approved fuel line materials with at least 1/2" inner diameter line. Smaller plumbing will place excessive load on the motor and shorten its life.

If the unit is mounted below tank top level, a priming tee should be installed on the highest point of the suction line to be able to easily prime the systems delivery line. The return line(s) (discharge) should be connected to the outlet of the pump "OUT" port and enter the tank as far as possible from the pick up tube. For optimal performance, ensure that the outlet, discharge or return, line(s) are free and nothing is restricting their flow.

Alarms

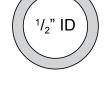
When the vacuum/pressure switch is triggered:

- 1. Alarm indicator lights up red
- 2. Buzzer activates
- 3. Pump shuts down

- You will need to:
- 1. Service the filter.
- 2. Press the reset button to resume operation.

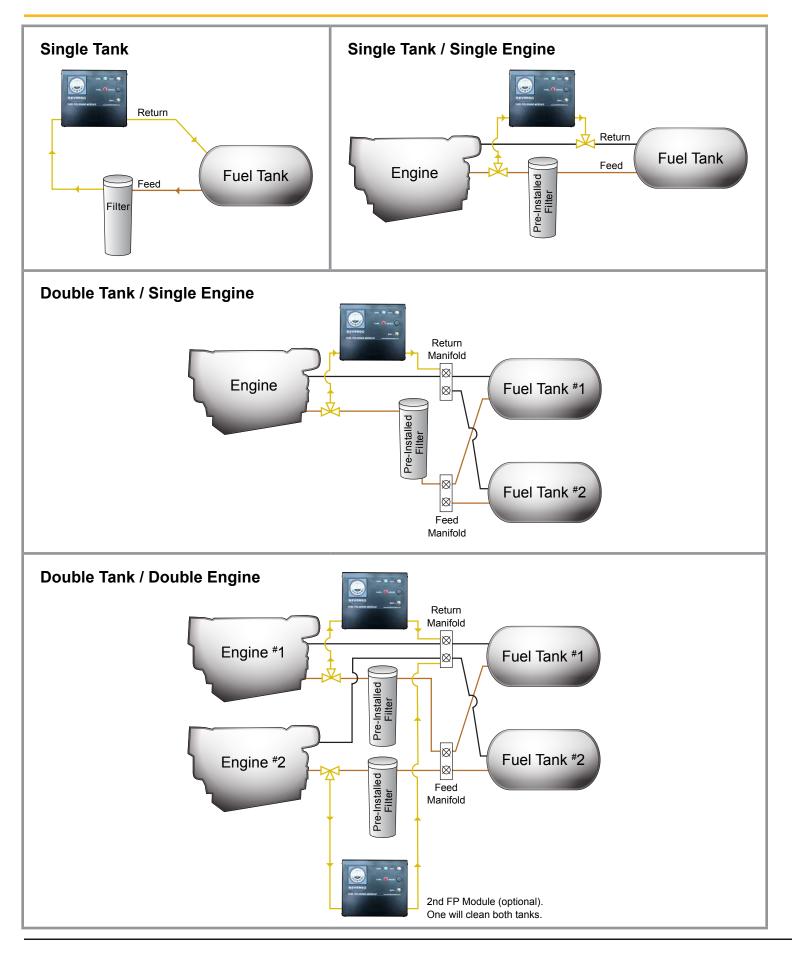
Warning

- The gear pump is capable of developing extremely high pressure. Care must be taken not to operate the pump with either the suction (inlet) or discharge (outlet) lines closed.
- If the pump is allowed to run dry without fuel, pump damage could occur.
- The unit has been developed to be used with diesel fuel only. DO NOT USE WITH GASOLINE.
- When using additives be sure they are alcohol free and compatible with the unit seals.
- The unit is designed to meet environmental standards for safe operation (NOT for use with fluids that have a flash point below 100°F (38°C), e. g.: Gasoline, alcohol,...)



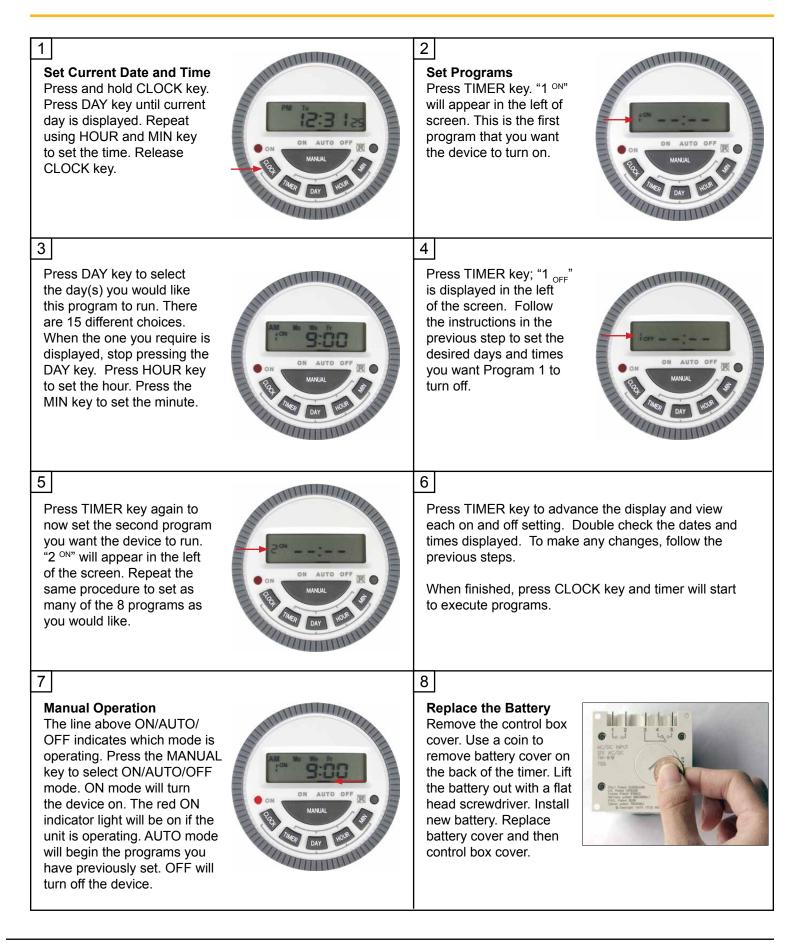


Install Diagrams





Digital Timer Instructions





Troubleshooting

Problem	Possible Causes
No fuel delivery	 Pump and filter are not primed Fuel supply or discharge line blocked. Check the alarm Lift is too high Air leak in fuel supply to pump Inlet or outlet valve closed (if installed) Foot (check) valve installed backwards or clogged (if installed)
Insufficient fuel delivered	 Air leak at inlet Lift too high Piping improperly installed or dimensioned Filter/water separator plugged
Rapid pump wear	 Pump has been run dry or insufficient fuel Plumbing on inlet side not appropriately dimensioned. Air in plumbing lines Lift too high
Noisy operation	 Insufficient fuel supply Air leaks in the inlet pipe Lift too high
Motor does not turn or turns intermittently	 Control power not available Tripped circuit breaker on control board Pump failed and seized
Pump leaks fuel	 Loose pump plumbing fittings Worn pump shaft seal Worn pump O-rings or seals



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