Remco Industries 90-3323-1E1-82B-SB

ProFlo Pump User Manual

Model: 90-3323-1E1-82B-SB | Brand: Remco Industries

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Remco Industries ProFlo 12-Volt DC On Demand Pump, model 90-3323-1E1-82B-SB. Please read this manual thoroughly before use to ensure safe and efficient operation and to maximize the lifespan of your pump.

Safety Information

Prior to installation or operation, carefully read and understand all safety warnings. Failure to do so may result in serious injury or property damage.

- **Electrical Safety:** This pump operates on 12 Volts DC. Ensure proper polarity and connection to a suitable 12V DC power source. Incorrect voltage or wiring can damage the pump and pose a fire hazard. Install an appropriately sized fuse (7.5 Amps) in the positive (+) line as close to the power source as possible.
- **Fluid Compatibility:** This pump is designed for specific fluids. Do not use with flammable fluids or in explosive environments, as this can lead to severe injury or explosion. Refer to product specifications for compatible fluids.
- **Pressure:** The pump operates at up to 60 PSI. Ensure all plumbing connections are secure and rated for this pressure to prevent leaks or bursts.
- **General Safety:** Always wear appropriate personal protective equipment (PPE) when handling the pump or working with fluids. Disconnect power before performing any maintenance or service.

Product Features

The ProFlo pump offers several advanced features designed for reliable performance:

- Low power consumption & low operating temperature
- Made in the USA
- Professional Grade - 12VDC, FNPT, 2 Pin Connector
- Sealed Motor from dust, moisture & debris
- Superior Priming Capabilities

Product Overview

The Remco Industries ProFlo pump is a compact and efficient 12-volt DC on-demand pump. Its robust design ensures reliable fluid transfer for various applications, automatically activating when fluid is needed and shutting off when demand ceases.



Image: A Remco Industries ProFlo 12-Volt DC On Demand Pump, showing its compact black body, motor housing, and connection ports. The product label indicates "EF2200", "12 VDC", "2.2 GPM/8.3 LPM", "70 PSI/4.5 Bar", and a warning about flammable fluids.

Setup and Installation

Proper installation is crucial for the pump's performance and longevity. Follow these steps carefully:

1. **Mounting:** Securely mount the pump in a dry, well-ventilated area, protected from direct sunlight and freezing temperatures. Use the integrated mounting feet and appropriate fasteners. Ensure the pump is mounted below the fluid level for optimal priming, or as close as possible to the fluid source.
2. **Plumbing Connections:** Connect the inlet and outlet ports using 3/8-inch FNPT fittings. Use thread sealant on all connections to prevent leaks. Ensure hoses are flexible and adequately sized to avoid restricting flow. Avoid kinks or sharp bends in the hoses.
3. **Electrical Wiring:** Connect the pump to a dedicated 12-volt DC power source. Observe correct polarity: red wire to positive (+), black wire to negative (-). Use appropriate gauge wire for the current draw and length of the run. Install an inline fuse (not supplied) as close to the power source as possible, sized according to the pump's maximum amp draw (7.5 Amps).
4. **Priming:** For initial startup, ensure the inlet line is filled with fluid to assist with priming. The pump has superior priming capabilities, but a full inlet line will expedite the process.

Operating Instructions

The ProFlo pump is an 'on-demand' pump, meaning it will automatically turn on when there is a demand for fluid and shut off when the demand ceases or the pressure reaches its set point.

1. **Initial Start-up:** Once installed and wired, turn on the 12V DC power supply to the pump.
2. **Fluid Flow:** Open a faucet or valve downstream from the pump to create a demand for fluid. The pump will start and deliver fluid.
3. **Automatic Shut-off:** When the faucet or valve is closed, the pressure in the system will build up, and the pump's internal pressure switch will automatically shut off the pump.
4. **Cycling:** If the pump cycles on and off rapidly without a continuous demand, check for leaks in the system or a partially closed valve.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your pump.

- **Routine Inspection:** Periodically inspect all connections for leaks, corrosion, or wear. Check electrical connections for tightness and signs of overheating.
- **Cleaning:** Keep the exterior of the pump clean and free of debris. Do not submerge the pump in water.
- **Winterization (if applicable):** If the pump will be exposed to freezing temperatures, drain all fluid from the pump and lines to prevent damage from ice expansion. Running RV antifreeze through the pump can also provide protection.
- **Filter Maintenance:** If an inline filter is used (recommended but not supplied), inspect and clean it regularly to prevent debris from entering the pump.

Troubleshooting

Refer to the table below for common issues and their potential solutions.

Troubleshooting Guide

Problem	Possible Cause	Solution
Pump does not run	No power; Blown fuse; Loose wiring; Faulty pressure switch	Check power supply; Replace fuse; Secure connections; Contact support if switch is faulty
Pump runs but no fluid flow	Air in system; Clogged inlet/outlet; Pump not primed; Inlet hose kinked	Bleed air from system; Clear clogs; Ensure proper priming; Straighten hose
Pump cycles on/off rapidly	Leak in system; Partially open faucet; Accumulator tank issues (if present)	Check all connections for leaks; Ensure all faucets are fully closed; Inspect accumulator tank
Low flow or pressure	Clogged filter/strainer; Restricted inlet/outlet; Worn pump head	Clean filter; Check for obstructions; Contact support for pump head replacement

Specifications

Detailed technical specifications for the ProFlo Pump, model 90-3323-1E1-82B-SB:

Product Specifications

Attribute	Value
Brand	Remco Industries
Model Number	90-3323-1E1-82B-SB
UPC	816624013988
Voltage	12 Volts (DC)
Maximum Flow Rate	2.2 Gallons Per Minute (8.3 Liters Per Minute)
Maximum Pressure	60 PSI (4.5 Bar)
Maximum Amp Draw	7.5 Amps
Inlet/Outlet Ports	3/8-inch FNPT
Item Weight	5 Pounds
Product Dimensions	8.68 x 3.73 x 3.62 inches
Material	Solid
Power Source	DC (Direct Current)
Manufacturer	REMCO INDUSTRIES
Date First Available	January 17, 2022

Warranty and Support

For warranty information or technical support, please contact Remco Industries directly. Keep your purchase receipt and product model number (90-3323-1E1-82B-SB) readily available when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question