

Remco 5537-1E1-65C

Remco 5500 Series ProFlo Demand Pump 5537-1E1-65C Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Remco 5500 Series ProFlo Demand Pump, model 5537-1E1-65C. This professional-grade pump is designed for various agricultural and industrial spraying applications, offering reliable performance and durability.

SAFETY INFORMATION

Please read and understand all safety instructions before operating the pump. Failure to follow these guidelines may result in injury or damage to the equipment.

- **Electrical Safety:** Ensure the pump is connected to a 115 VAC power source. Use appropriate wiring (14 AWG leads) and ensure all electrical connections are secure and protected.
- **Temperature Limits:** The maximum liquid temperature should not exceed 140°F (60°C). The maximum motor temperature is 180°F (82°C), but for optimal performance and motor life, the motor surface temperature should not exceed 150°F (66°C). The motor is not equipped with thermal protection.
- **Chemical Compatibility:** This pump is compatible with common agricultural chemicals such as herbicides, fertilizers, and insecticides. Always verify chemical compatibility before use to prevent damage to pump components.
- **Pressure:** The pump operates at 60 PSI (4.1 Bar) on demand. Ensure your system can handle this pressure.
- **Mounting:** Securely mount the pump using the integrated bracket to prevent vibration and movement during operation.

PRODUCT OVERVIEW

The Remco 5500 Series ProFlo Demand Pump is a robust 5-chamber diaphragm pump designed for demanding applications. It features a sealed 115 VAC electric motor and durable components for long, continuous duty cycles.



Figure 1: Remco 5500 Series ProFlo Demand Pump. This image displays the pump with its silver motor housing, black pump head, and black mounting bracket. A label on the motor housing indicates the model number 5537-1E1-65C, flow rate of 5.3 GPM, 115 VAC voltage, and 60 PSI pressure rating. A power cord is visible extending from the motor.

Key Features:

- Professional Grade Quality
- 5.3 GPM (20.06 LPM) Flow Rate
- 60 PSI (4.1 Bar) On-Demand Operation
- Made in the U.S.A.
- 6ft Power Cord
- Chemically compatible with common agricultural chemicals
- 100% Factory Tested
- Completely Sealed Motor
- Low Heat and Power Consumption
- Superior Vertical Priming (up to 14 feet / 4.0 meters)

SETUP

1. **Mounting:** Securely fasten the pump to a stable surface using the integrated mounting bracket. Ensure the pump is positioned to allow for proper ventilation and access for connections.
2. **Plumbing Connections:** Connect your inlet and outlet lines to the 1/2" FNPT threaded ports. Use appropriate fittings and sealants to ensure leak-free connections. The pump is self-priming up to 14 feet (4.0 meters) vertically.
3. **Electrical Connection:** Connect the 14 AWG wire leads to a dedicated 115 VAC power supply. Ensure the power source is fused and protected according to local electrical codes. Verify correct polarity.
4. **System Priming:** Before initial operation, ensure the pump and lines are filled with liquid to facilitate priming.

OPERATION

The Remco 5500 Series pump operates in demand mode, meaning it will run when there is a demand for fluid and shut off when the system pressure reaches 60 PSI. This allows for efficient operation and reduced power consumption.

- **Starting the Pump:** Once all connections are secure and the system is primed, apply power to the pump. The pump will start when a flow demand is detected.
- **Monitoring:** Observe the pump during operation for any unusual noises, leaks, or excessive heat.
- **Duty Cycle:** The pump is designed for intermittent duty cycles. While it can withstand long cycles, continuous operation at maximum load may reduce its lifespan. Monitor motor temperature to ensure it stays below 150°F (66°C).
- **Dry Run Capability:** The pump has dry run capability, meaning it can operate without fluid for short periods without damage. However, prolonged dry running should be avoided.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Remco pump.

- **Cleaning:** Periodically inspect the pump for dirt, debris, or chemical residue. Clean the exterior with a damp cloth.
- **Connections:** Regularly check all plumbing and electrical connections for tightness and signs of wear or corrosion.
- **Winterization:** If operating in freezing conditions, ensure the pump and lines are completely drained or protected with appropriate antifreeze solutions to prevent damage.
- **Chemical Residue:** After using corrosive or sticky chemicals, flush the pump with clean water to prevent buildup and ensure proper valve function.

TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, contact Remco customer support.

Problem	Possible Cause	Solution
Pump does not start	No power, loose electrical connection, faulty switch.	Check power supply, verify connections, test switch.
Low flow or pressure	Clogged inlet filter, air leak in suction line, worn diaphragm, low voltage.	Clean filter, check for leaks, inspect diaphragm, verify voltage.
Pump runs continuously	Leak in system, faulty pressure switch, air in system.	Check for leaks, inspect pressure switch, bleed air from system.
Excessive noise or vibration	Loose mounting, cavitation (air in line), debris in pump.	Tighten mounting, ensure proper priming, inspect for debris.

SPECIFICATIONS

Brand	Remco
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Model Number	5537-1E1-65C
Pump Type	5 Chamber Diaphragm Pump
Mode	Demand
Voltage	115 VAC
Maximum Flow Rate	5.3 GPM (20.06 LPM)
Pressure Setting	60 PSI (4.1 Bar)
Fluid Port	1/2" FNPT threaded Ports
Valves	Viton
Diaphragm	Santoprene
Wire Leads	14 AWG - 6" or 12" 2-Pin Mold / Custom Connection
Self-Priming	Up to 14' (4.0 m) vertically
Duty Cycle	Intermittent
Dry Run Capability	Yes
Max Liquid Temperature	140°F (60°C)
Max Motor Temperature	180°F (82°C) (Surface temp should not exceed 150°F / 66°C)
UPC	816624019041
Included Components	Pump

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please contact Remco directly through their official website or customer service channels. Keep your purchase receipt and model number (5537-1E1-65C) handy for faster service.

You can visit the Remco store on Amazon for more information: [Remco Store](#)