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› Field King 190571 Lithium-Ion Battery Powered Pump Zero Technology Sprayer Instruction Manual

Field King 190571

Field King 190571 Lithium-Ion Battery Powered Sprayer Instruction Manual

Model: 190571

1. INTRODUCTION

Thank you for choosing the Field King 190571 Lithium-Ion Battery Powered Pump Zero Technology Sprayer. This 2-gallon sprayer is designed for convenient and consistent application of water-soluble solutions such as herbicides, pesticides, and other liquid chemicals commonly used for weed prevention, pest control, fertilizing, and watering. Its innovative Pump Zero electric pump eliminates manual pumping, maintaining constant pressure for efficient spraying. Please read this manual thoroughly before operation to ensure safe and effective use.





Figure 1.1: Field King 190571 Lithium-Ion Battery Powered Sprayer

This image displays the complete Field King 190571 sprayer, showcasing its white tank, black handle with integrated battery, hose, and wand. The design emphasizes its compact and portable nature.

2. SAFETY INFORMATION

WARNING:

Always release pressure before opening the sprayer. Avoid contact with skin and eyes when using chemicals. Keep the sprayer clean and well-maintained. Always follow the manufacturer's instructions for safe use and disposal.

3. PRODUCT OVERVIEW

The Field King 190571 sprayer features advanced Pump Zero Technology, utilizing an internal rechargeable lithium-ion battery to power an electric air compressor pump. This system pressurizes the air above the fluid in the tank, ensuring a consistent spray without manual pumping.

Key Features:

- **Pump Zero Technology:** Eliminates manual pumping, providing constant pressure at 20 psi for consistent application and 20% time savings.
- **Commercial Grade Shut-Off:** Features a comfortable grip, lock-on function, and an easy-to-clean in-line filter.
- **Durable Poly Wand:** A 21-inch poly wand with Viton seals in the shut-off ensures long-term resistance to various chemicals.
- **Pressure Release Valve:** Allows for safe removal of internal pressure before opening the sprayer.
- **Stable Tank Design:** Teardrop-shaped tank for enhanced stability due to a lower center of gravity, includes built-in nozzle storage and protection.
- **Versatile Nozzles:** Includes Brass adjustable, 2 flat fans, and a foaming nozzle. Also compatible with Tee Jet nozzles.



The advertisement features a large, rounded rectangular logo for 'FIELD KING PROMAX BATTERY POWERED SPRAYER'. The logo includes a crown icon with 'D.B. SMITH' underneath, two stars, and a grassy field graphic. To the right of the logo, the text 'NO MORE PUMPING!' is written in a bold, italicized font. Below this, it states '1 YEAR WARRANTY' with translations in Spanish and French. Further down, a 'NO TOOLS REQUIRED' icon (a crossed-out wrench and screwdriver) is shown with the text 'for assembly & maintenance'. Below that, it says 'EASY TO MAINTAIN!' and 'SEALS TAKE 5 MINUTES TO REPLACE'. At the bottom, there are three callout boxes with red lines pointing to specific parts of the sprayer: 'Large, Comfortable Pump Handle' on the left, 'Premium Shut-off with Comfort Grip and Lock' on the right, and 'Built-in Clasp for Wand Storage' on the right.

FIELD KING
PROMAX
BATTERY POWERED SPRAYER

NO MORE PUMPING!TM

1 YEAR WARRANTY
Garantía Por 1 Año
Garantie De 1 Ans

NO TOOLS REQUIRED
for assembly & maintenance

EASY TO MAINTAIN!
SEALS TAKE 5 MINUTES TO REPLACE

Large, Comfortable Pump Handle

Premium Shut-off with Comfort Grip and Lock
Dispositif d'arrêt de qualité supérieure avec poignée confort et verrou
Cierre Superior Con Comodo Agarre y Seguro

Built-in Clasp for Wand Storage



Figure 3.1: Labeled Components of the Field King Sprayer

This diagram highlights key features of the sprayer, including the large comfortable pump handle, heavy-duty reinforced hose, see-thru tank with fill markings, built-in clasp for wand storage, pressure release valve, extra long heavy-duty non-corrosive wand, and protective nozzle storage.

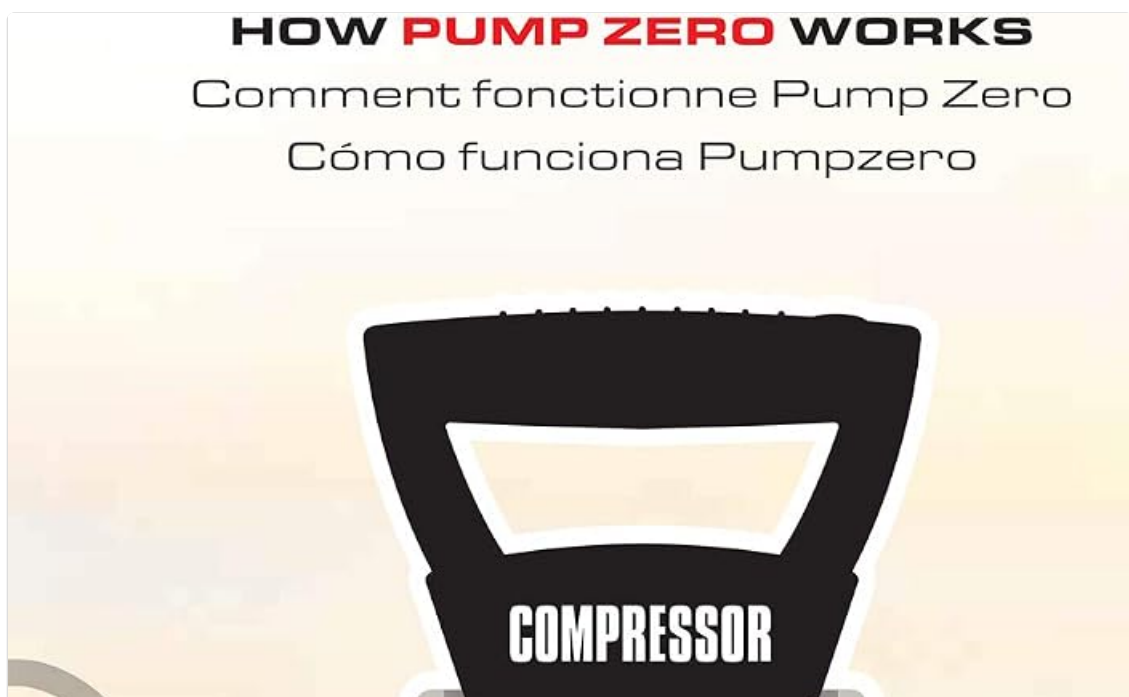




Figure 3.2: Pump Zero Technology Diagram

This illustration visually explains the Pump Zero mechanism, showing how the compressor pumps air into the tank, which then pushes liquid out through the hose and nozzle. It also indicates compatibility with liquids and wettable powders.

4. SETUP

1. **Charge the Battery:** Before first use, fully charge the lithium-ion battery. The handle unit contains the battery and charging port. Connect the provided charger to a standard electrical outlet and then to the charging port on the handle. A green light indicates a full charge. Do not leave plugged in overnight after the battery is full, as this is not a smart charger.
2. **Assemble the Sprayer:** Attach the hose to the tank and the wand to the shut-off valve. Ensure all connections are secure to prevent leaks.
3. **Select Nozzle:** Choose the appropriate nozzle for your application (Brass adjustable, flat fan, or foaming nozzle) and attach it to the end of the wand.
4. **Prepare Solution:** Carefully mix your desired water-soluble solution according to the chemical manufacturer's instructions.
5. **Fill Tank:** Unscrew the handle assembly from the tank. Pour the prepared solution into the 2-gallon tank, observing the fill markings. Do not overfill.
6. **Secure Handle:** Re-attach the handle assembly firmly to the tank, ensuring a tight seal.



Figure 4.1: Pump Zero Handle with Lithium-Ion Battery and Charger

This image shows the detachable Pump Zero handle, which houses the lithium-ion battery and the electric air compressor. The accompanying charger is also visible, illustrating how the unit is powered.

5. OPERATING INSTRUCTIONS

1. **Activate Pump:** Press the power button on the handle. The green light will illuminate, and the pump will begin to pressurize the tank. It will automatically stop once optimal pressure (20 psi) is reached. The pump will reactivate as needed during spraying to maintain consistent pressure.
2. **Begin Spraying:** Aim the nozzle at the target area. Squeeze the trigger on the shut-off valve to begin spraying. You can use the lock-on feature for continuous spraying.
3. **Adjust Spray Pattern:** Rotate the brass adjustable nozzle to change the spray pattern from a fine mist to a solid stream. Flat fan and foaming nozzles provide specific spray patterns.
4. **Monitor Battery:** If the green light on the handle starts blinking, it indicates the battery is at approximately 25% charge and should be recharged soon.
5. **Finish Spraying:** Release the trigger to stop spraying. If using the lock-on feature, disengage it.
6. **Release Pressure:** Before opening the tank or storing, always release any remaining pressure using the red pressure release valve located on the side of the handle assembly.





Figure 5.1: Sprayer Wand with Adjustable Nozzle

This image focuses on the sprayer's wand and the adjustable brass nozzle at its tip. It highlights the robust construction of the wand, designed for precise application.

6. MAINTENANCE

1. **Cleaning:** After each use, thoroughly rinse the tank, hose, and wand with clean water. Spray clean water through the nozzle to clear any chemical residue.
2. **Filter Maintenance:** The shut-off valve contains an in-line filter. Periodically clean this filter to ensure optimal spray performance.
3. **Seal Inspection:** Regularly inspect all seals, especially the Viton seals in the shut-off, for wear or damage. Replace if necessary to prevent leaks and maintain pressure.
4. **Storage:** Store the sprayer in a cool, dry place, away from direct sunlight and freezing temperatures. Ensure the tank is empty and pressure is released before storage.



Figure 6.1: Viton Seals

This image displays a set of Viton seals, which are crucial components for chemical resistance and maintaining a tight seal within the sprayer's shut-off valve and other connections.

7. TROUBLESHOOTING

- **No Spray/Low Pressure:**
 - Check battery charge.
 - Ensure handle is securely tightened onto the tank.
 - Clean the in-line filter in the shut-off valve.
 - Inspect nozzle for clogs and clean if necessary.

- **Leaking:**

- Check all connections (hose to tank, wand to shut-off, nozzle to wand) for tightness.
- Inspect Viton seals and O-rings for wear or damage and replace if needed.
- Ensure the pressure release valve is fully seated.

- **Pump Not Activating:**

- Verify battery is charged and properly inserted.
- Ensure the power button is pressed.

8. SPECIFICATIONS

Attribute	Value
Brand	Field King
Model Name	Lithium-Ion Battery Powered Sprayer with Pump Zero Technology
Item Model Number	190571
Tank Volume	2 Gallons
Color	White
Material	Plastic, Metal
Item Weight	4.7 Pounds
Product Dimensions	9.75"W x 20.75"H
Style	Battery Powered Handheld
Power Source	Battery Powered
Included Components	Nozzle
Maximum Pressure	24 Pound per Square Inch
Hose Length	21 Inches
UPC	841688005747
Manufacturer	The Fountainhead Group
Country of Origin	USA
Batteries	1 Lithium Ion batteries required. (included)

9. WARRANTY AND SUPPORT

The Field King 190571 Sprayer comes with a **Limited 1-year warranty**, which includes free replacement parts. For any issues or to order replacement parts, please refer to the official user manual or contact Field King customer support.

An official User Manual (PDF) is available for download: [Download User Manual \(PDF\)](#)

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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.

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