

## Generac 5630

# Generac 5630 Cold Weather Kit for Liquid-Cooled Standby Generators: Instruction Manual

Model: 5630

## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Generac 5630 Cold Weather Kit. This kit is designed to enhance the performance and reliability of Generac liquid-cooled standby generators with 2.4L engines in cold weather conditions by maintaining optimal battery and engine temperatures.

The Generac 5630 Cold Weather Kit includes a battery warmer with an integrated thermostat and an engine block heater. These components work together to ensure your generator starts reliably when ambient temperatures drop.

## 2. SAFETY INFORMATION

**WARNING: Read and understand all safety precautions before installation or operation. Failure to follow these instructions may result in serious injury, death, or property damage.**

- Always disconnect power to the generator before performing any installation or maintenance.
- Ensure the generator is completely shut down and cooled before working on it.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Installation should be performed by a qualified technician if you are unsure about any steps.
- Do not modify the components of the cold weather kit.

## 3. KIT COMPONENTS

The Generac 5630 Cold Weather Kit typically includes the following items:

- Battery Warmer with Integrated Thermostat
- Engine Block Heater
- Associated Wiring and Mounting Hardware



securing it with cable ties as needed.

## 5.2 Engine Block Heater Installation

The engine block heater typically replaces a freeze plug in the engine block or is installed in a coolant hose. Consult the specific instructions provided with your kit and your generator's service manual for the exact location and procedure.

1. **Drain Coolant (if applicable):** If installing into a freeze plug port, you may need to partially drain the engine coolant.
2. **Install Heater:** Install the engine block heater into the designated port or hose. Ensure a tight, leak-free seal.
3. **Refill Coolant (if applicable):** If coolant was drained, refill to the appropriate level with the recommended coolant type.
4. **Route Wiring:** Route the heater's power cord safely, similar to the battery warmer.

## 5.3 Electrical Connection

Both the battery warmer and engine block heater require an electrical connection. These are typically connected to a dedicated circuit within the generator's control panel or a separate power source, as specified by the kit's wiring diagram. Ensure all connections are secure and properly insulated.

- Connect the power cords of both components to the designated terminals or outlets.
- Verify all connections are tight and correct according to the wiring diagram.
- Close the generator enclosure and restore power.

## 6. OPERATION

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The Generac 5630 Cold Weather Kit operates automatically. The integrated thermostat in the battery warmer monitors ambient temperatures. When temperatures fall below a preset threshold (typically around 0°C or 32°F), the thermostat activates the battery warmer and the engine block heater.

- **Battery Warmth Optimization:** The battery warmer maintains the battery at an optimal temperature, preventing capacity loss and ensuring reliable starting power in cold conditions.
- **Engine Pre-heating:** The engine block heater warms the engine coolant and oil, reducing engine wear during cold starts and improving starting reliability.
- **Automatic Activation:** The system is designed to activate and deactivate automatically based on temperature, requiring no manual intervention once installed.

## 7. MAINTENANCE

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Regular maintenance ensures the longevity and proper functioning of your cold weather kit.

- **Annual Inspection:** Before the cold season, inspect all components of the kit. Check the battery warmer for any signs of damage or wear. Inspect the engine block heater and its connections for leaks or corrosion.
- **Wiring Check:** Ensure all wiring is secure, free from fraying, and not exposed to excessive heat or sharp edges.
- **Cleanliness:** Keep the battery and surrounding area clean and free of debris.
- **Battery Condition:** Regularly check the generator battery's overall condition and charge level as part of your routine generator maintenance.

## 8. TROUBLESHOOTING

If you experience issues with your Generac 5630 Cold Weather Kit, consider the following:

- **Kit Not Activating:**
  - Verify the generator's power supply is active.
  - Check all electrical connections for tightness and proper contact.
  - Ensure ambient temperature is below the activation threshold of the thermostat.
  - Inspect wiring for damage or breaks.
- **Generator Still Hard to Start in Cold:**
  - Confirm the cold weather kit is receiving power and activating.
  - Check the condition of the generator's battery; it may need replacement.
  - Ensure the engine block heater is functioning (it should feel warm to the touch when active).
  - Consult your generator's main manual for general cold-start troubleshooting.
- **Visible Damage:** If any component shows signs of physical damage, discontinue use and contact Generac customer support or a qualified service technician for replacement.

## 9. SPECIFICATIONS

Feature	Detail
Model Number	5630
Manufacturer	Generac Power Systems Inc
Item Weight	2 pounds
Product Dimensions	14.1 x 8.3 x 4.5 inches
Power Source	Battery Powered (for activation logic, heaters are AC powered)
Voltage	240 Volts (for heating elements)
Compatible Generator Wattage	22, 27, 36, 45, and 60 kW (for liquid-cooled standby generators)
Included Components	Generac 5630 Cold Weather Kit (includes battery warmer, engine block heater)
Batteries Included?	No
Batteries Required?	No (operates with generator's existing battery and power)





## 10. WARRANTY AND SUPPORT

**Warranty Description:** The product specifications indicate "wear item, no warranty." Please refer to the original purchase documentation or contact Generac directly for the most current and accurate warranty information regarding this accessory.

For technical assistance, replacement parts, or further inquiries, please contact Generac customer support or visit the official Generac website. Always provide your product model number (5630) and generator model number when seeking support.

[Visit Generac Service & Support](#)

## Related Documents - 5630

	<p><a href="#">Generac Generators: Portable, Residential, and Commercial Solutions</a></p> <p>Explore Generac's comprehensive range of generators, including portable, residential standby, and commercial standby systems. Learn about features, specifications, and applications for reliable power solutions.</p>
	<p><a href="#">Generac Guardian Series Standby Generators: Specifications, Features, and Installation</a></p> <p>Comprehensive overview of Generac Guardian Series liquid-cooled gas engine standby generators (models QT025, QT030, QT045, QT060). Includes detailed specifications, features, operating data, available accessories, and installation layout information.</p>
	<p><a href="#">Generac Protector Series Standby Generators: Specifications, Features, and Installation Guide</a></p> <p>Explore the Generac Protector Series of liquid-cooled gaseous standby generators (25-60 kW). This document details model specifications, key features like True Power™ technology, advanced controllers, fuel consumption, and installation layout information.</p>
	<p><a href="#">Generac RG Protector Series Standby Generators: Specifications and Installation Details</a></p> <p>Comprehensive specifications, features, and installation drawings for Generac RG Protector Series Standby Generators, including models RG04845, RG06045, and RG08045. Covers engine, fuel, electrical, and enclosure details, plus installation guidance.</p>



[Generac QuietSource Series 22 kW Standby Generator QT022 Datasheet](#)

Comprehensive technical specifications, features, operating data, installation layout, and available accessories for the Generac QuietSource Series 22 kW QT022 Liquid-Cooled Engine Standby Generator, designed for reliable backup power.



[Generac QuietSource Series QT027 27 kW Standby Generator | Specifications & Installation](#)

Detailed specifications, features, operating data, and installation layout for the Generac QuietSource Series QT027 27 kW standby generator. Learn about its liquid-cooled engine, advanced controls, and accessories.