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› Robertshaw 9145-00 Defrost Time, Universal, 1 SPDT, 1 SPST

Robertshaw 9145-00

Robertshaw 9145-00 Universal Defrost Timer

Model: 9145-00

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Robertshaw 9145-00 Universal Defrost Timer. This device is designed for use with refrigeration equipment to manage defrost cycles efficiently. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

IMPORTANT SAFETY INFORMATION

WARNING: RISK OF ELECTRIC SHOCK.

- Disconnect ALL power at the main panel before installing or servicing this device.
- More than one disconnect switch may be required to de-energize the device for servicing.
- Replace insulator before applying power.
- Use copper conductors only, suitable for 100°C (221°F).
- Ensure all wiring complies with local and national electrical codes.



Image: The Robertshaw 9145-00 Defrost Timer with its protective casing open, revealing the internal timer mechanism and important safety labels on the inside of the cover. These labels detail electrical shock warnings and wiring requirements.

SETUP AND INSTALLATION

Mounting

The Robertshaw 9145-00 Defrost Timer comes with a durable case for protection. Mount the timer securely in a location that is easily accessible for adjustments and maintenance, but protected from direct moisture and extreme temperatures. Ensure adequate ventilation around the unit.

Electrical Connections

This universal defrost timer supports 120/208/240V applications. Refer to the wiring diagram provided on the inside of the timer's cover for specific connection points. The unit features one SPDT (Single Pole Double Throw) and one SPST (Single Pole Single Throw) switch. The SPST switch action is normally closed (NC) when energized and normally open (NO) when de-energized.

Ensure all connections are tight and secure. Use only copper conductors rated for 100°C (221°F) as specified in the safety warnings.

Contact Ratings:

Terminal	Rating
Terminal B (NO)	30A @ 120V, 20A @ 240V
Terminal C (NC)	30A @ 120V, 20A @ 240V
Terminal D (SPST)	10A @ 120V, 5A @ 240V

OPERATION

The Robertshaw 9145-00 Defrost Timer is designed to automatically control the defrost cycles of refrigeration units. The timer features a dial for setting the defrost frequency and duration.

Setting the Defrost Cycle

To adjust the defrost cycle, locate the adjustment dial on the front of the timer. The dial allows you to set the frequency and duration of defrost periods. Consult the markings on the dial for specific time intervals. Typically, you will set the defrost start time and the duration of the defrost period.

- **Defrost Frequency:** Adjust the pins or segments on the outer ring of the dial to set how often defrost cycles occur (e.g., every 6, 8, or 12 hours).
- **Defrost Duration:** Adjust the inner mechanism or specific pins to set the length of each defrost period (e.g., 15, 20, 30 minutes).

After making adjustments, ensure the cover is securely closed. The timer will then operate automatically based on your settings.

MAINTENANCE

The Robertshaw 9145-00 Defrost Timer is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure its longevity and proper function.

- **Cleaning:** Keep the exterior of the timer clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Inspections:** Periodically inspect the wiring connections to ensure they remain tight and free from corrosion. Check for any signs of physical damage to the casing or internal components.
- **Power Disconnection:** Always disconnect power to the unit at the main panel before performing any maintenance or inspection.

TROUBLESHOOTING

If you experience issues with your Robertshaw 9145-00 Defrost Timer, refer to the following common problems and solutions:

- **Timer Not Operating:**
 - Check the power supply to the unit. Ensure the circuit breaker is not tripped.
 - Verify all electrical connections are secure and correctly wired according to the diagram.
- **Incorrect Defrost Cycles:**
 - Re-check the settings on the timer dial. Ensure the pins or segments are correctly positioned for the desired frequency and duration.
 - Ensure the timer mechanism is not obstructed.
- **Unit Not Defrosting:**
 - Confirm the defrost termination terminal is correctly wired and functioning.
 - Inspect the defrost heater and associated components of the refrigeration system.

If problems persist after attempting these solutions, contact a qualified technician or customer support.

SPECIFICATIONS

Feature	Detail
Model Number	9145-00

Feature	Detail
Voltage	120/208/240V
Switch Type	1 SPDT, 1 SPST
SPST Switch Action	Normally Closed (NC) energized, Normally Open (NO) de-energized
Material	Steel
Item Weight	2.92 pounds
Product Dimensions	6 x 5 x 10 inches
Included Components	Case and timer with defrost termination terminal

WARRANTY INFORMATION

Robertshaw products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Robertshaw website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

If you require further assistance or have questions regarding the Robertshaw 9145-00 Defrost Timer, please contact Robertshaw customer support. You can find contact information on the official Robertshaw website or through your product supplier.

Online Resources: www.robertshaw.com

