

Randell RP CNT1100

Randell RP CNT1100 Dixell Control User Manual

Model: RP CNT1100

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Randell RP CNT1100 Dixell Control, Xr01Cx Phhc-26. This genuine OEM replacement part is designed for commercial foodservice equipment, specifically for refrigeration and freezer applications. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.

2. SAFETY INFORMATION

WARNING:

- Always disconnect power to the appliance before installing, servicing, or removing the control unit. Failure to do so can result in serious injury or death.
- Installation and service should only be performed by qualified personnel.
- Ensure all wiring connections comply with local and national electrical codes.
- Do not operate the control unit if it appears damaged.
- This control unit is designed for specific applications. Do not use it for purposes other than those intended by the manufacturer.

3. PRODUCT OVERVIEW

The Randell RP CNT1100 Dixell Control is a sophisticated electronic temperature controller designed for precise management of refrigeration and freezer units. It features a digital display for temperature readings and various control buttons for parameter adjustment.



Figure 3.1: Front view of the Dixell Control unit, showing the digital display, 'SET' and 'AUX' buttons, and navigation arrows. The temperature probe and wiring are also visible.



Figure 3.3: Rear view of the Dixell Control, displaying the product label with model information and a basic wiring diagram. The green terminal blocks for electrical connections are visible.

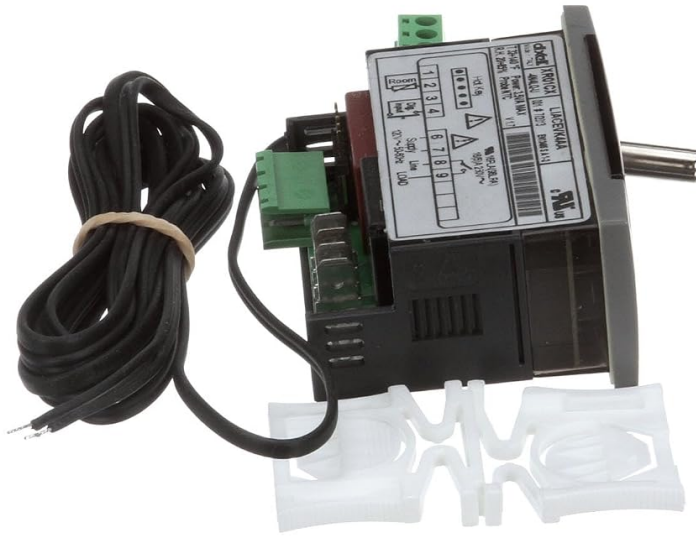


Figure 3.4: An alternative side view of the Dixell Control, showing the compact form factor and the integrated temperature probe. The white mounting clips are also visible.

Components:

- **Digital Display:** Shows current temperature and parameter values.
- **Control Buttons:** 'SET', 'AUX', Up, and Down arrows for navigation and parameter adjustment.
- **Temperature Probe:** NTC type, for accurate temperature sensing.
- **Wiring Terminals:** Green screw terminals for electrical connections.
- **Mounting Clips:** White plastic clips for secure installation.

4. SETUP AND INSTALLATION

Before beginning installation, ensure the main power supply to the appliance is disconnected.

1. **Mounting:** Insert the control unit into the designated panel cutout. Secure it using the provided mounting clips. Ensure it is firmly seated.
2. **Wiring:** Refer to the wiring diagram on the back of the unit (Figure 3.3) and the appliance's specific wiring schematic. Connect the power supply, load (e.g., compressor, fan), and temperature probe to the appropriate terminals. Pay close attention to voltage requirements (120V~ 50/60Hz).
3. **Probe Placement:** Position the temperature probe in the area where temperature needs to be monitored, typically within the refrigerated or frozen compartment, ensuring it is not directly exposed to airflow from fans or defrost heaters.
4. **Initial Power-Up:** Once all connections are secure and verified, restore power to the appliance. The control unit display should illuminate.

IMPORTANT: Incorrect wiring can damage the unit or the appliance. If unsure, consult a qualified electrician or HVAC technician.

5. OPERATING INSTRUCTIONS

5.1. Display and Basic Functions

Upon power-up, the display will typically show the current temperature measured by the probe.

- **Viewing Setpoint:** Press and release the **SET** button. The display will show the current setpoint temperature. Press **SET** again to return to the current temperature display.
- **Adjusting Setpoint:** Press and hold the **SET** button for approximately 2 seconds until the setpoint value flashes. Use the **Up** and **Down** arrow buttons to adjust the value. Press **SET** again to confirm and save the new setpoint.
- **Manual Defrost (if applicable):** Press and hold the **AUX** button for approximately 3 seconds to initiate a manual defrost cycle.

5.2. Parameter Programming (Advanced)

Accessing and modifying advanced parameters requires caution and understanding of their functions. Refer to the detailed Dixell XR01CX manual for a complete list of parameters and their descriptions. Incorrect parameter settings can lead to improper operation or damage to the appliance.

1. **Enter Programming Mode:** Press and hold the **SET** and **Down** arrow buttons simultaneously for approximately 3 seconds. The display will show the first parameter code (e.g., "Hy").
2. **Navigate Parameters:** Use the **Up** and **Down** arrow buttons to scroll through the parameter list.
3. **View/Edit Parameter Value:** Press the **SET** button to view the value of the selected parameter. Use the **Up** and **Down** arrow buttons to change the value.
4. **Confirm and Save:** Press **SET** to confirm the new value and move to the next parameter.
5. **Exit Programming Mode:** Press and hold the **SET** and **Up** arrow buttons simultaneously for approximately 3 seconds, or wait 15 seconds without pressing any button.

6. MAINTENANCE

The Randell RP CNT1100 Dixell Control requires minimal maintenance. Regular checks can help ensure its longevity and proper function.

- **Cleaning:** Periodically wipe the front panel of the control unit with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the display or buttons. Ensure no liquid enters the unit.
- **Wiring Inspection:** Annually, or as part of routine appliance maintenance, inspect all wiring connections to the control unit. Ensure they are secure and free from corrosion or damage.
- **Probe Condition:** Check the temperature probe for any physical damage or signs of wear. Ensure its placement remains optimal for accurate temperature sensing.

CAUTION: Always disconnect power before performing any maintenance or inspection.

7. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, or if issues persist, contact qualified service personnel.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Display is blank	No power supply; Incorrect wiring; Unit failure	Check power supply to the appliance. Verify wiring connections. If power is present and wiring is correct, the unit may need replacement.
Temperature reading is inaccurate or "P1" error	Faulty temperature probe; Probe disconnected; Incorrect probe placement	Check probe connection to the unit. Inspect probe for damage. Ensure probe is correctly positioned. Replace probe if faulty.
Appliance not cooling/heating as expected	Incorrect setpoint; Parameter misconfiguration; External appliance issue	Verify setpoint temperature. Check advanced parameters (e.g., differential, defrost settings). Consult appliance service manual for other potential issues (e.g., compressor, fan).
Buttons unresponsive	Unit malfunction; Temporary software glitch	Try cycling power to the unit (disconnect and reconnect). If issue persists, unit may require replacement.

8. SPECIFICATIONS

Feature	Detail
Product Type	Refrigerator/Freezer Control
Model Number	RP CNT1100 (Dixell Xr01Cx Phhc-26)
Brand	Randell
Country Of Origin	United States
Package Dimensions	6.89 x 4.88 x 1.57 inches (17.5 x 12.4 x 4 cm)
Package Weight	1.6 lbs (0.73 kg)
Item Weight	0.18 Kilograms (0.4 lbs)
Form Factor	Compact
Specification Met	OEM
UPC	046843125975

9. WARRANTY AND SUPPORT

As a genuine OEM replacement part, this Randell control unit is typically covered by the original equipment manufacturer's warranty for parts. Please refer to the warranty documentation provided with your specific Randell appliance or contact Randell customer service for detailed warranty information.

For technical support, troubleshooting beyond this manual, or to order replacement parts, please contact Randell customer service or an authorized service provider.

Randell Contact Information: (Please refer to Randell's official website or your appliance documentation for the most current contact details.)

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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