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› Xiltek Dixell XR06CX-4N1F1 Digital Temperature Control Panel Thermostat User Manual

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1. PRODUCT OVERVIEW

The Dixell XR06CX-4N1F1 is a digital temperature control panel thermostat designed for freezer applications. This unit accurately senses air temperature within the cabinet and adjusts cooling cycles to maintain stable, food-safe holding temperatures. It is compatible with various refrigeration brands, including Xiltek, Migali, and Atosa.

The package includes the thermostat unit, a black evaporator probe, and a blue room temperature probe.



Image 1: Dixell XR06CX-4N1F1 Digital Temperature Control Panel with included black evaporator probe and blue room temperature probe.

2. SETUP AND INSTALLATION

2.1 Unpacking

Carefully unpack the contents. Verify that all components are present:

- Dixell XR06CX-4N1F1 Digital Temperature Control Panel
- Black Evaporator Probe
- Blue Room Temperature Probe

2.2 Mounting

The controller is designed for panel mounting. Ensure adequate space for ventilation and access to wiring terminals. Refer to the product dimensions for precise cutout requirements.

2.3 Electrical Connections

Before making any electrical connections, ensure the main power supply is disconnected. Incorrect wiring can damage the unit or cause electrical hazards. This unit operates on 120V AC power.

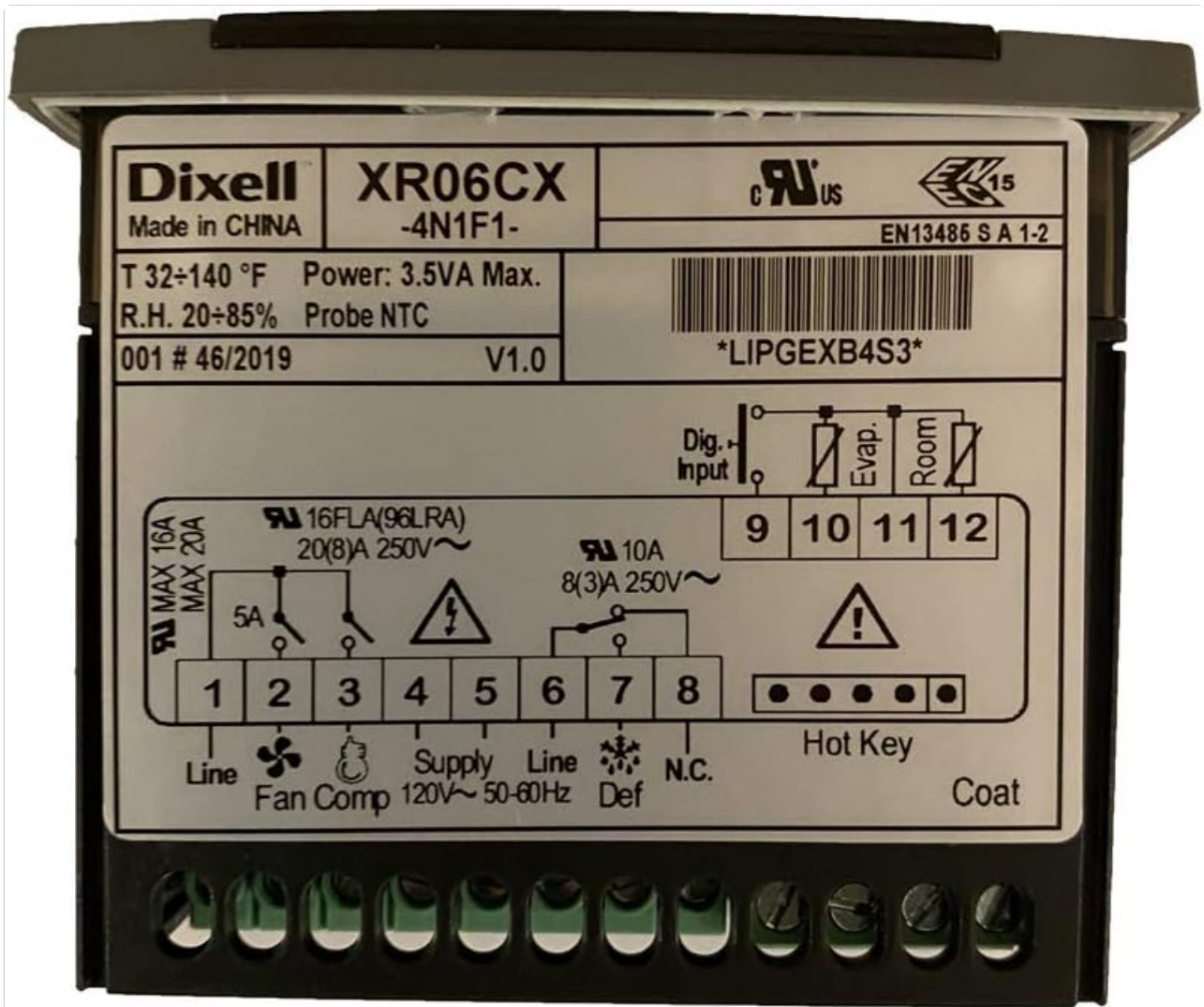


Image 2: Wiring diagram and specifications located on the back label of the controller.

Refer to the wiring diagram on the back of the unit (Image 2) and the terminal block (Image 3) for correct connections:

- **Terminals 1-2:** Main Power Input (Line, 120V~ 50-60Hz).
- **Terminals 3-4:** Fan/Compressor Output (Max 10A).
- **Terminals 5-6:** Defrost Heater Output (Supply Line, 5A).
- **Terminals 7-8:** Auxiliary Output (Normally Closed).
- **Terminals 9-10:** Digital Input.
- **Terminals 11-12:** Evaporator Probe (Black).
- **Terminals 13-14:** Room Temperature Probe (Blue).



Image 3: Close-up of the terminal block for electrical connections.

2.4 Probe Installation

The unit includes two NTC temperature probes:

- **Black Evaporator Probe:** Connect to terminals 11-12. Position this probe to accurately measure the evaporator coil temperature for defrost control.
- **Blue Room Temperature Probe:** Connect to terminals 13-14. Position this probe to measure the ambient air temperature within the refrigerated space.



Image 4: The black evaporator probe and blue room temperature probe.

3. OPERATING INSTRUCTIONS

3.1 Control Panel Overview



Image 5: Front panel of the Dixell XR06CX-4N1F1 controller.

The front panel features a digital display and several buttons for operation:

- **SET Button:** Used to display and set the setpoint temperature, and to access programming parameters.
- **UP Arrow Button:** Used to increase values or scroll through parameters.
- **DOWN Arrow / AUX Button:** Used to decrease values or scroll through parameters. Also functions as an auxiliary button.
- **DEFROST Button (Snowflake/Water Drop icon):** Initiates a manual defrost cycle.

3.2 Powering On/Off

The unit powers on automatically when electrical supply is connected. There is no dedicated on/off button. Disconnect power to turn off the unit.

3.3 Setting the Temperature Setpoint

1. Press and release the **SET** button. The current setpoint value will be displayed.
2. Use the **UP** or **DOWN** arrow buttons to adjust the setpoint to the desired temperature.
3. Press the **SET** button again to confirm and save the new setpoint. The display will return to showing the current room temperature.

3.4 Manual Defrost

To initiate a manual defrost cycle, press and hold the **DEFROST** button (snowflake/water drop icon) for approximately 3 seconds. The defrost cycle will begin according to the programmed parameters.

3.5 Parameter Programming

Advanced programming parameters are typically set by qualified technicians. Accessing and modifying these parameters incorrectly can affect the unit's performance and safety. Refer to the comprehensive Dixell XR06CX technical manual for detailed programming instructions if required.

4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of the temperature controller.

- **Cleaning:** Periodically clean the front panel with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the unit.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or corrosion. Ensure probes

are securely in place and free from damage.

- **Ventilation:** Ensure the controller's mounting location allows for proper airflow to prevent overheating.

5. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **Controller Not Powering On:** Check the main power supply and all electrical connections (Terminals 1-2). Ensure the voltage is 120V.
- **Display Shows 'P1' or 'P2' Error:** This typically indicates a probe error. 'P1' usually refers to the room probe, and 'P2' to the evaporator probe. Check the probe connections (Terminals 11-12 for evaporator, 13-14 for room) and inspect the probes for damage. Replace if necessary.
- **Temperature Not Reaching Setpoint:** Verify the setpoint is correctly configured. Check if the compressor or fan is operating. Inspect wiring to the compressor/fan (Terminals 3-4). Ensure probes are correctly positioned and functioning.
- **Frequent Defrost Cycles or No Defrost:** Review defrost parameters (requires technical access). Check the evaporator probe (black) for proper placement and function.

For issues not listed or if troubleshooting steps do not resolve the problem, contact a qualified technician.

6. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Xiltek (Dixell)
Model Name	XR06CX-4N1F1
Controller Type	Push Button, Digital
Voltage	120 Volts
Power Source	AC/DC
Included Components	1 Controller, 2 Probes
Display Type	LCD (Possible)
Mounting Type	Wall Mount
Backlight	Yes
Item Weight	1 pound
UPC	689227216915

7. WARRANTY AND TECHNICAL SUPPORT

For warranty information or technical assistance, please contact Xiltek customer support. Ensure you have your product model number (XR06CX-4N1F1) and purchase details available when contacting support.

You can visit the [Xiltek Store on Amazon](#) for more information or to find contact details.

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