Generic PJEZS0G100

Frigoglass PJEZS0G100 Temperature Control User Manual

Model: PJEZS0G100

1. Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Frigoglass PJEZS0G100 Temperature Control unit. This device is designed for precise temperature management in various industrial and commercial applications, particularly within food service equipment.
Please read this manual thoroughly before attempting to install or operate the unit to ensure safe and efficient performance. Keep this manual for future reference.

2. Product Overview

Figure 2.1: Front view of the Frigoglass PJEZS0G100 Temperature Control unit, showing the display, control buttons, and included mounting clips and terminal blocks.

Figure 2.2: Rear view of the Frigoglass PJEZS0G100 Temperature Control unit, highlighting the electrical connection terminals and the product specification label.

The Frigoglass PJEZS0G100 is a compact and robust temperature control device. It features a digital display for temperature readings and settings, along with intuitive buttons for configuration. The unit is supplied with detachable terminal blocks for easy wiring and mounting clips for secure installation.

3. Setup and Installation

3.1 Safety Precautions

- Disconnect all power before installation or maintenance.
- Installation should be performed by qualified personnel only.
- Ensure the power supply matches the unit's specifications (115V).
- Protect the unit from water, dust, and extreme temperatures.

3.2 Mounting

1. Identify a suitable mounting location, typically a panel cutout.
2. Insert the PJEZS0G100 unit into the cutout from the front.
3. Secure the unit using the provided yellow mounting clips. Ensure they are firmly engaged to prevent movement.

3.3 Electrical Connections

Refer to the wiring diagram on the unit's label (Figure 2.2) for precise connections. The terminal blocks are

detachable for easier wiring.

- **Power Supply:** Connect the 115V AC power supply to the designated terminals.
- **Sensor Input:** Connect the temperature sensor (NTC type) to the appropriate sensor input terminals.
- **Load Outputs:** Connect the controlled loads (e.g., compressor, fan, defrost heater) to their respective relay output terminals. Observe the current ratings (8/12A).
- Ensure all connections are secure and properly insulated.

4. Operating Instructions

4.1 Powering On

Once all electrical connections are complete and verified, apply power to the unit. The display will illuminate, showing the current temperature reading.

4.2 Setting the Setpoint Temperature

1. Press the **SET** button once. The display will show the current setpoint value.
2. Use the **UP** (▲) and **DOWN** (▼) 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 temperature.

4.3 Accessing Parameters (Advanced)

To access advanced configuration parameters (e.g., differential, defrost settings, sensor calibration), refer to the detailed programming manual provided by Frigoglass or Carel for the PJEZS0G100 series. This typically involves holding down specific button combinations for an extended period.

5. Maintenance

The Frigoglass PJEZS0G100 is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity.

- **Cleaning:** Periodically clean the front panel with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the unit.
- **Connections:** Annually check all electrical connections for tightness and signs of corrosion. Loose connections can lead to intermittent operation or damage.
- **Sensor:** Verify the temperature sensor is clean and properly positioned for accurate readings.
- **Ventilation:** Ensure adequate airflow around the unit, especially if it is installed in an enclosed space, to prevent overheating.

6. Troubleshooting

This section outlines common issues and their potential solutions. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; incorrect wiring; blown fuse.	Check power source; verify wiring connections; inspect and replace fuse if necessary.
Display shows "E1" or similar error code.	Sensor fault (open circuit, short circuit, out of range).	Check sensor wiring; replace sensor if faulty. Refer to the full programming manual for specific error code meanings.

Problem	Possible Cause	Solution
Temperature reading is inaccurate.	Sensor not properly installed; sensor faulty; unit needs calibration.	Ensure sensor is correctly placed; test or replace sensor; consult advanced parameters for calibration.
Load (e.g., compressor) does not turn on/off.	Incorrect setpoint; relay fault; wiring issue to load.	Verify setpoint and differential settings; check load wiring; if relay is suspected faulty, professional service is required.

7. Specifications

Parameter	Value
Model	PJEZS0G100
Manufacturer	Frigoglass
Power Supply	115V AC
Current Rating	8/12A
Sensor Type	NTC (typically)
ASIN	B0CLNYPSVM
Date First Available	October 24, 2023

8. Warranty and Support

For specific warranty terms and conditions, please refer to the documentation provided by your point of purchase or contact the manufacturer, Frigoglass, directly. Warranty coverage typically applies to defects in materials and workmanship under normal use.
For technical support, service, or to inquire about replacement parts, please contact the vendor from whom you purchased this product. Provide your product model number (PJEZS0G100) and ASIN (B0CLNYPSVM) when seeking assistance.