

Carel Easy Cool

Carel Easy Cool Electronic Thermostat User Manual

Model: Easy Cool

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Carel Easy Cool Electronic Thermostat. Please read these instructions carefully before using the device to ensure proper function and safety.

The Carel Easy Cool thermostat is designed for precise temperature control in cooling applications. It features a setpoint, differential, and defrost cycle management.

SETUP AND INSTALLATION

Wiring Diagram

Refer to the following diagram for correct electrical connections. Ensure all connections are secure and comply with local electrical codes.



Image Description: This diagram illustrates the wiring connections for the Carel Easy Cool thermostat. Terminals 1, 2, and 3 are for power input (L, N, 230V~). Terminals 4, 5, and 6 are for NTC probes, specifically for ambient temperature (AMB.T.) and defrost temperature (DEF.T.). The diagram also indicates relay ratings: 12(2)A, EN60730-1, 250 Vac, 12A 5FLA 30LRA UL 873.

Mounting

The thermostat is designed for wall mounting. Ensure the mounting surface is stable and allows for proper ventilation.



Image Description: This image provides the physical dimensions of the Carel Easy Cool thermostat. The top view shows a length of 81 mm (3.19 inches) and a width of 36.1 mm (1.42 inches) to 38.6 mm (1.52 inches). The side view shows a

depth of 57.3 mm (2.26 inches) to 71.5 mm (2.81 inches), with an overall length including connectors of 79.5 mm (3.13 inches).

Probe Connection

Connect the two NTC probes as indicated in the wiring diagram. One probe is typically for ambient temperature sensing, and the other for defrost temperature sensing.

- Ensure probes are correctly positioned for accurate temperature readings.
- Avoid placing probes near heat sources or direct airflow that could skew readings.

OPERATING INSTRUCTIONS

The Easy Cool thermostat is pre-programmed with standard settings for ease of use.

- **Setpoint:** The default setpoint is 3 °C. This is the desired temperature the thermostat will maintain.
- **Differential:** The default differential is 2 °C. This value determines the temperature range around the setpoint before the cooling system activates or deactivates. For example, if the setpoint is 3 °C and the differential is 2 °C, the cooling will turn on at 5 °C (3+2) and turn off at 3 °C.
- **Defrost Cycle:** The thermostat includes a defrost function. The default defrost cycle is 20 minutes every 6 hours.
- **Display:** The device features a digital display for temperature readings and status indicators.
- **Control Method:** The primary control method is via a mechanical knob, with app control also indicated.

For detailed programming and adjustment of parameters, refer to the comprehensive technical manual available from Carel.

MAINTENANCE

To ensure optimal performance and longevity of your Carel Easy Cool thermostat, follow these general maintenance guidelines:

- **Cleaning:** Periodically clean the exterior of the thermostat with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect wiring connections for any signs of wear, corrosion, or looseness.
- **Probe Check:** Ensure NTC probes are clean and securely in place. Dust or debris on probes can affect accuracy.
- **Ventilation:** Ensure the thermostat's ventilation openings are not obstructed to prevent overheating.

For any internal maintenance or repairs, contact qualified service personnel.

TROUBLESHOOTING

If you encounter issues with your thermostat, consider the following common checks:

- **No Power:** Check the power supply to the thermostat and ensure all wiring connections are correct and secure. Verify the circuit breaker.
- **Incorrect Temperature Reading:** Ensure NTC probes are properly connected and positioned. Check for any physical damage to the probes or their wiring.
- **Cooling System Not Activating:** Verify the setpoint and differential settings. Ensure the cooling system itself is operational. Check relay connections.

- **Defrost Issues:** Confirm defrost cycle settings. Check the defrost probe connection.

If problems persist after these checks, consult a qualified technician or Carel customer support.

TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	CAREL
Model Name	Easy Cool
Temperature Range	-50 to +90 °C
Voltage	230 V, 50/60 Hz
Probes Included	2 NTC probes
Relays	3 relays, 12(5)A + 2 x 8(2)A
Default Setpoint	3 °C
Default Differential	2 °C
Defrost Cycle	20 minutes every 6 hours
Controller Type	Mechanical knob
Temperature Control Type	Cooling
Connectivity Technology	Wired
Mounting Type	Wall Mount
Display Type	Digital
Color	Black

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your local Carel distributor or visit the official Carel website. Keep your purchase receipt as proof of purchase.