Emerson 1F79-111

Emerson 1F79-111 Digital Non-programmable Thermostat User Manual

Model: 1F79-111 | Brand: Emerson

1. Product Overview

The Emerson 1F79-111 is a digital non-programmable thermostat designed for use with most heat pump systems. It offers straightforward temperature control and a clear digital display, making it an ideal choice for users seeking simplicity and reliability in managing their home's climate. This thermostat is compatible with 24-volt and millivolt systems.



Figure 1: Front view of the Emerson 1F79-111 Digital Non-programmable Thermostat.

2. Key Features

- **Digital Non-programmable:** Simple, easy-to-use interface without complex programming schedules.
- **Backlit Display:** Ensures clear readability of temperature settings, even in low light conditions.
- **Heat Pump Compatible:** Designed to work with heat pump heating and cooling systems (2 Heat / 1 Cool stages).
- **Precision Control:** Maintains temperature within +/- 1 degree Fahrenheit for consistent comfort.
- **Hardwired with Battery Backup:** Operates primarily on 24-volt power from the HVAC system, with AA batteries providing backup for settings during power outages.
- **Low Battery Indicator:** Alerts users when batteries need replacement.

3. Installation

Proper installation is crucial for the optimal performance of your thermostat. If you are not comfortable with electrical wiring, it is

recommended to consult a qualified HVAC technician.

3.1 Safety Precautions

- **Turn Off Power:** Before beginning any installation, always turn off the power to your heating and cooling system at the main fuse or circuit breaker panel.
- **Verify Voltage:** Ensure your system is a 24-volt or millivolt system. This thermostat is not compatible with 120/240-volt line voltage systems.

3.2 Mounting and Wiring

The thermostat is designed for wall mounting. Carefully follow the wiring diagrams provided in the full user manual (included with your product) to connect the thermostat to your HVAC system. Ensure all wire connections are secure to prevent short circuits or improper operation.

Video 1: Product Overview of the Emerson 1F79-111 Thermostat. This video demonstrates the physical appearance and basic handling of the thermostat, which can be helpful for understanding its components prior to installation.

3.3 Battery Installation

This thermostat requires two AA alkaline batteries for backup power. Install these batteries into the designated compartment, typically located on the back of the thermostat or behind the front cover. Ensure correct polarity.

4. Operation

Operating the Emerson 1F79-111 thermostat is straightforward, allowing you to easily adjust your home's temperature and fan settings.

4.1 Setting the Temperature

Use the large up (▲) and down (▼) arrow buttons located on the right side of the thermostat to increase or decrease the desired temperature setting. The digital display will show both the current room temperature and your set temperature.

4.2 Fan Settings

The fan switch, labeled 'FAN', has two positions:

- **ON:** The fan runs continuously, regardless of whether the heating or cooling system is active.
- **AUTO:** The fan runs only when the heating or cooling system is actively operating. This is the recommended setting for energy efficiency.

4.3 System Settings

The system mode switch, labeled 'SYSTEM', allows you to select the operating mode for your HVAC system:

- **COOL:** Activates the cooling system to lower the room temperature to your set point.
- **OFF:** Turns off both the heating and cooling systems. The fan can still be operated manually if set to 'ON'.
- **HEAT:** Activates the heating system to raise the room temperature to your set point.
- **EMER (Emergency Heat):** For heat pump systems, this setting bypasses the heat pump and activates auxiliary electric heating. Use this only when the heat pump is not functioning or during extreme cold.

5. Maintenance

Regular maintenance helps ensure the longevity and accurate performance of your thermostat.

5.1 Battery Replacement

When the low battery indicator appears on the display, replace the two AA alkaline batteries promptly. Failure to replace batteries can lead to loss of display and thermostat function. Always use fresh, high-quality alkaline batteries.

5.2 Cleaning

Clean the thermostat's exterior periodically with a soft, damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the plastic and electronic components.

6. Troubleshooting

If you encounter issues with your Emerson 1F79-111 thermostat, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No display or blank screen	Dead batteries; No power from HVAC system.	Replace AA batteries; Check circuit breaker for HVAC system.
System not responding to settings	Incorrect system mode selected; Wiring issue.	Ensure 'SYSTEM' switch is set to COOL or HEAT; Verify wiring connections (consult professional if unsure).
Temperature inaccuracy	Thermostat location (drafts, direct sunlight); Sensor issue.	Ensure thermostat is not exposed to drafts or direct sunlight; If problem persists, contact support.
Fan runs continuously in AUTO mode	Fan switch set to 'ON'.	Set 'FAN' switch to 'AUTO'.

For more detailed troubleshooting steps or error codes, please refer to the complete user manual or contact Emerson customer support.

7. Specifications

Attribute	Detail
Brand	Emerson
Model Name	70 Series Heat Pump
Controller Type	Hand Control
Special Feature	Low Battery Indicator, Temperature Display, Lighted, Low Voltage
Color	White

Attribute	Detail
Specific Uses For Product	Heat Pump
Temperature Control Type	Manual
Included Components	User Manual, Thermostat, 2 AA Batteries
Power Source	DC power supply (24 Volts)
Item Weight	0.35 Pounds (5.6 ounces)
Display Type	LCD
Control Type	Button Control
Mounting Type	Wall Mount
Backlight	Yes
Batteries Required	2 AA batteries (included)
Product Dimensions	1.75 x 6.25 x 4.25 inches
Country of Origin	China

8. Warranty and Support

For detailed warranty information, please refer to the warranty card or section included with your product packaging. Emerson provides customer support for product inquiries, technical assistance, and warranty claims. Contact information can typically be found in your product's user manual or on the official Emerson website.
Additional protection plans may be available for purchase to extend coverage beyond the standard manufacturer's warranty.

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