

Wireless Heat Pump Thermostat Kit KRF-B-KIT

with Backup Line Voltage Electric Heat Control

Therma Link



- Kit includes KRFTP-B RF 24V RF Thermostat, KRFLR-120/240 20A RF heating relay, & KRFR-24V 24V RF heat pump relay
- Wireless Two-way RF communication - 915 MHz 24V Heat pump control (heating & cooling) with Touch Screen display.
- 7-day programmable schedule
- Modes: Auto/Cool/Fan Only/Off/Heat with Auto Emergency Heat/ Manual Emergency Heat
- Boost Emergency Heat Stage (Electric) Time Variable: 5 minutes & 30 minutes
- Range: 44°F to 90°F (7°C to 32°C) Accuracy: ± 1°F
- Meets State Energy Code Requirements: Prevents emergency electric heat from activating unless heat pump fails to maintain setpoint within a designated timeframe.
- Optimal start/stop
- Keypad lockout
- Maximum cooling & heat temperature limits 44°F to 90°F
- Optional RF sensors to limit operation based on room activity or outdoor air conditions.
- 2 Year Limited Warranty

The Most Flexible Dual Energy Source Heat Pump Thermostat Ever,

Designed for applications with electric emergency heat. Introducing the most flexible dual energy source 24V heat pump thermostat ever, designed for applications with electric backup & emergency line voltage electric heat. Introducing the most flexible dual energy source 24V heat pump thermostat ever, designed for applications with electric backup & emergency line voltage electric heat. Introducing the most flexible dual energy source 24V heat pump thermostat ever, designed for applications with electric backup & emergency line voltage electric heat. Designed for applications with electric backup & emergency.

Ordering Information

MODEL	UPC	DESCRIPTION
KRF-B-KIT	70133	RF Thermostat Kit, w/ KRFTP-B Programmable BP Thermostat, KRFLR-120/240V Heat Relay & KRFR-24V Heat Pump Relay

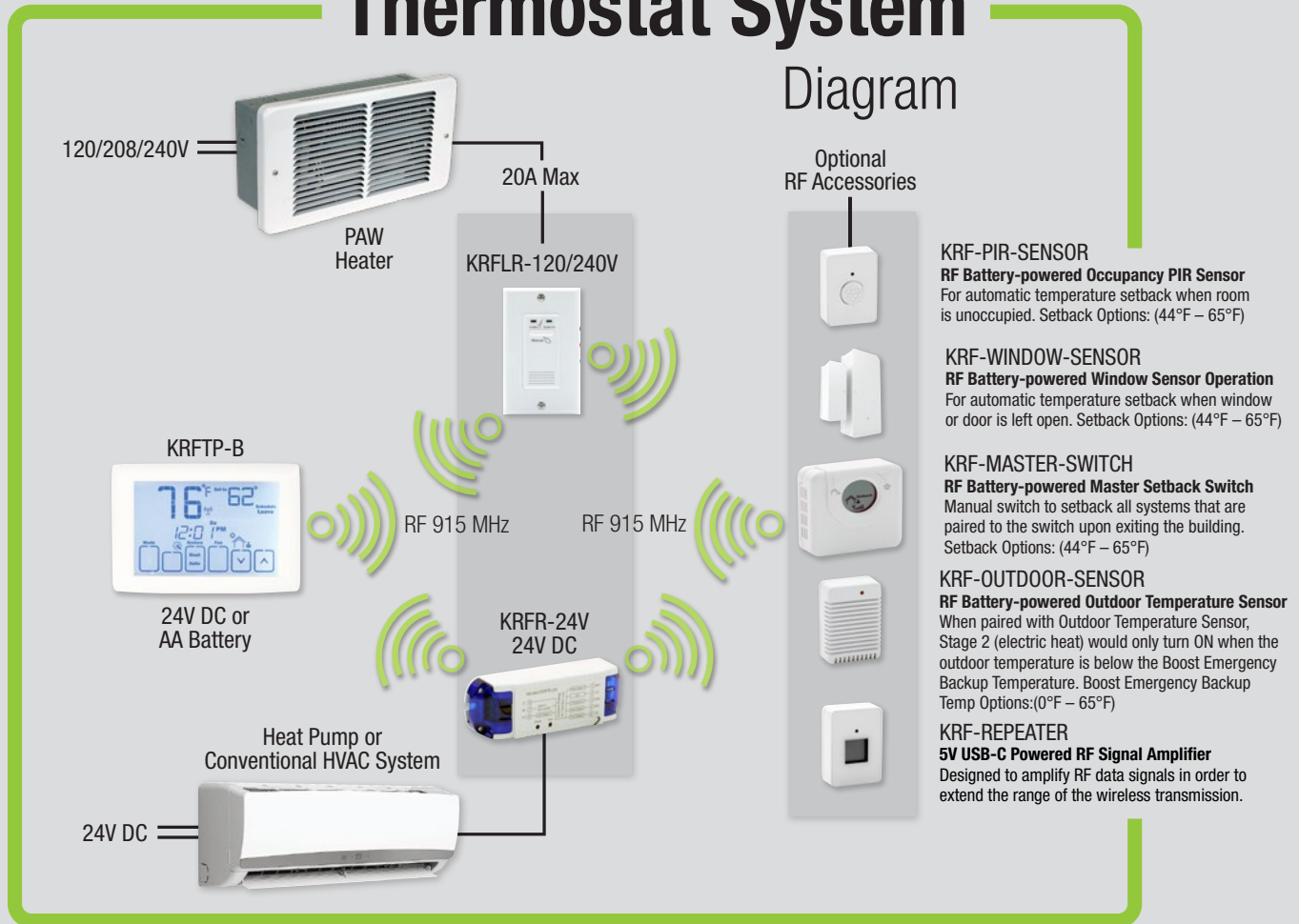
Optional Accessories

MODEL	UPC	DESCRIPTION
KRF-PIR-SENSOR	70152	PIR Sensor, Battery Powered, For KRFTP Thermostat
KRF-OUTDOOR-SENSOR	70153	Outdoor Temperature Sensor, Battery Powered, For KRFTP Thermostat
KRF-REPEATER	70154	RF Repeater, USB Powered, For KRFTP Thermostat
KRF-WINDOW-SENSOR	70155	Window/Door Sensor, Battery Powered, For KRFTP Thermostat
KRF-MASTERSWITCH	70156	Master Switch, Battery Powered, For KRFTP Thermostat

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Dual Energy Source Thermostat System



Engineering Specifications

KRFTP-B Programmable Thermostat Specifications:

- Supply Voltage:** 24V, 50-60Hz Rating: 0.5A
- Wireless Operation:** Rf Connect Button
- Working Frequency:** 915.055 MHz
- Heat Pump Control:** (Heating and Cooling).
- Touch Screen:** Touch Sensitive
- Temperature Display Range:** 0°F to 95°F (-17°C to 35°C)
- Temperature Control Range:** 44°F to 90°F (07° C to 32°C)
- Display Accuracy:** ± 1°F
- Optimal Start/Stop:** Optimal Start ensures that the set temperature is reached at the scheduled time, while Optimal Stop shuts down the system early upon PROG transition to achieve energy savings.
- Deadband:** Adjustable 4 to 6 Degrees. (Default 5)
- Differential:** adjustable from 0.5°F to 2.0°F (Default 1°F)
- 2nd Stage Offset:** adjustable from 2°F to 5°F (Default 3°F)
- Boost Emergency Heat Stage (Electric) Time Variable:** 5 minutes - 30 minutes range. (default 15 min)
- Heat Schedule Options:** 5+2 / 5+1+1/ 7-Day (Default: 5+2)

KRFR-24V Heat Pump Relay Specifications:

- Power Supply Type:** 24VAC
- Rating:** 24VAC/2A
- Wireless Connect:** Rf Connect Button
- Two-way Communication
- Working Frequency:** 915 MHz
- Working Distance:** 30 Meters (98.5 feet)
- Dimension:** 120*40*28 mm

KRFLR-120/240V Electric Heat Relay Specifications:

- Power Supply:** 120-240VAC /50-60Hz
- Power Consumption:** 25VA
- Relay Contact Rating:** 240Vac/20A
- Wireless Operation:** Rf Connect Button
- Working Frequency:** 915.055 MHz
- Working Distance:** 30 Meters
- Approvals:** cULus

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Available Heating/Cooling Modes

Heat with Automatic Boost Emergency Backup Mode:

Emergency electric heat will automatically kick in if the set point temperature is not reached within the Boost Emergency Heat Stage (Electric) Time Variable. 5 minutes and 30 minutes (default 15 min).

Manual Emergency Electric Heat Only Mode:

When activated, only the electric heat will run and the PTAC is disabled. The thermostat continues to control the room temperature with electric heat only.

Cooling Mode:

Electric heating relay is locked out when the thermostat is set to cooling mode.

Fan Only Mode:

Electric heating relay is locked out when the thermostat is set to fan only mode.

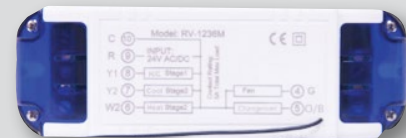
KRFTP-B

RF 7-Day 24V Programmable Thermostat



KRFR-24V

Heat Pump Relay



KRFLR-120/240

Electric Heat Relay

Available Optional Accessories



RF Battery-powered Occupancy PIR Sensor

For automatic temperature setback when room is unoccupied. Setback Options: (44°F – 65°F) (Model: KRF-PIR-SENSOR)



RF Battery-powered Outdoor Temperature Sensor

When paired with Outdoor Temperature Sensor, Stage 2 (electric heat) would only turn ON when the outdoor temperature is below the Boost Emergency Backup Temperature. Boost Emergency Backup Temp Options: (0°F-65°F) (Model: KRF-OUTDOOR-SENSOR)



RF Battery-powered Window/Door Sensor Operation

For automatic temperature setback when window or door is left open. Setback Options: (44°F – 65°F) (Model: KRF-WINDOW-SENSOR)



RF 5V USB-C Powered RF Signal Amplifier.

Designed to amplify RF data signals in order to extend the range of the wireless transmission. (Model: KRF-REPEATER)



RF Battery-powered Master Setback Switch

Manual switch to setback all systems that are paired to the switch upon exiting the building. Setback Options: (44°F – 65°F) (Model: KRF-MASTER-SWITCH)