

WHITE-RODGERS 70 SERIES THERMOSTATS

White
Rodgers.



1F72-151



1F78-151



1E78-151



1E78-144

70 SERIES HEAT PUMP - SINGLE STAGE THERMOSTATS

Residential Single Stage and Heat Pump Applications.

70 Series are the Perfect Upgrade from Mechanical Thermostats.

Covers Wall Marks Left by Most Mechanical Thermostats Without the Need for an Extra Wall Plate.

FEATURES

- Fossil fuel or electric heat compatible.
- Large LCD with backlight.
- Selectable Celsius or Fahrenheit temperature display.
- Includes B/O terminals.
- Electronic accuracy.

SPECIFICATIONS

Electrical Rating:

Hardwire	20-30 VAC, NEC Class II 50/60Hz
Battery Power	20 to 30 VAC, NEC Class II,
Terminal Load	1.0 A per terminal, 1.5 A maximum all terminals combined
Setpoint Range	45 to 90°F (7 to 32°C)

Rated Differentials - Single Stage Models:	Fast	Slow
Heat (Single Stage)	0.8°F	1.5°F
Cool (Single Stage) Fixed	1.2°F	
Heat Pump	1.2°F	1.5°F
Aux./Emer. Heat	0.8°F	1.2°F
Operating Ambient	32 to +105°F (0 to +41°C)	
Operating Humidity	90% non-condensing max.	
Shipping Temperature Range	-4 to +150°F (-20 to 65°C)	
Dimensions	3 ¹³ / ₁₆ " H x 5 ¹ / ₈ " W x 1 ¹ / ₈ " D – (1F78)	
	5 ⁵ / ₁₆ " H x 3 ³ / ₁₆ " W x 1 ¹ / ₈ " D – (1E78)	

PARTS AND ACCESSORIES See end of this section for additional parts and accessories

- F61-2510 — Wallplate for 1F models with adaptor for horizontal or vertical junction box 6¹/₂" W x 4¹/₂" H
- F61-2593 — Wallplate for 1D70, 1E70 models with adaptor for horizontal or vertical junction box 4¹/₂" W x 6¹⁹/₃₂" H
- Thermostat Guards — see pages 24-25



HEAT PUMP THERMOSTATS - WHITE-RODGERS 70 SERIES THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model	Applications				Thermostat Power Source*	Selectable Performance Features						Comfort and Convenience Features			Terminals	
			Program Options	Periods Per Day Options		Model Number	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible		Humidity Control (H)-Humidity / (D)-Dehumidify	Auto Changeover	Programmable Fan	Energy Mgt. Recovery	Keypad Lockout (T)-Total / (P)-Partial	Set-Point Temperature Limits Adjustable Max/Min	Indoor Remote Sensors Max. Number + Thermostat Average and/or Weighted	Outdoor Remote Sensor	Display Size Square inches		Lighted Display
		2/1	5+2	4	1F72-151	♦				H			✓					1.2	✓***	B	R, C, Y, W2, G, O/B, L, E
		2/1	∅	∅	1F79-111	♦				H								1.2	✓***	B	R, C, Y, W2, G, O/B, L, E

SINGLE STAGE THERMOSTATS - WHITE-RODGERS 70 SERIES THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model	Applications				Thermostat Power Source*	Selectable Performance Features						Comfort and Convenience Features			Terminals	
			Program Options	Periods Per Day Options		Model Number	Gas / Oil / Electric	3 Wire Zone Valve	Millivolt Compatible		Humidity Control (H)-Humidity / (D)-Dehumidify	Auto Changeover	Programmable Fan	Energy Mgt. Recovery	Keypad Lockout (T)-Total / (P)-Partial	Set-Point Temperature Limits Adjustable Max/Min	Indoor Remote Sensors Max. Number + Thermostat Average and/or Weighted	Outdoor Remote Sensor	Display Size Square inches		Lighted Display
1/1		1/1	5+2	4	1F78-151*	✓		✓		B			✓					1.2	✓***	B	RC, RH, W, Y, G, O, B
1/1		1/1	∅	∅	1F78-144*	✓		✓		B								1.2	✓***	B	RC, RH, W, Y, G, O, B
1/1			∅	∅	1E78-140	✓		✓		B								1.2	✓***	B	RH, W

* H = Hardwired (Requires Common)
B = Battery Powered

♦ Heat Pump for Stage 1, and Gas/Oil/Electric for 2nd Stage/Emergency
x Available in vertical style order 1E78-144/151
*** Optional Continuous Display Light w/ Hardwire connection



TECHNICAL HELP

1E78-151	Wiring Diagrams/Configuration	See page 160
1F72-151 / 1F79-111	Wiring Diagrams/Configuration	See page 161
1F78-144 / 1F78-111	Wiring Diagrams/Configuration	See page 162