

**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 the

Need for an Extra Wall Plate

FEATURES

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

SPECIFICATIONS

Electrical Rating:

Hardwire 20 to 30 VAC, NEC Class II, 50/60 Hz

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 3¹³/₁₆" H x 5¹/₈" W x 1¹/₈" D – (1F78)5⁵/₁₆" H x 3³/₁₆" W x 1¹/₈" D – (1E78)**PARTS AND ACCESSORIES** See end of thermostats 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 34–35



HEAT PUMP THERMOSTATS – 70 SERIES THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model	Applications				Thermostat Power Source*	Selectable Performance Features							Comfort and Convenience Features			Terminals
			Stages Heat/Cool by System	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)	
		2/1	5+2	4	1F72-151	+				H			✓					1.2	✓***	P	R, C, W2, EY, O/B, G, L
		2/1	∅	∅	1F79-111	+				H								1.2	✓***	P	R, C, W2, EY, O/B, G, L

SINGLE STAGE THERMOSTATS – 70 SERIES THERMOSTATS

Single Stage	Multi-Stage	Heat Pump	Programs		Model	Applications				Thermostat Power Source*	Selectable Performance Features							Comfort and Convenience Features			Terminals
			Stages Heat/Cool by System	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)	
1/1		1/1	5+2	4	1F78-151 ^x	✓	✓			B			✓					1.2	✓***	P	RC,RH, W, Y,O, B, G
1/1		1/1	∅	∅	1F78-144 ^x	✓	✓			B								1.2	✓***	P	RC,RH, W, Y,O, B, G
1/1			∅	∅	1E78-140	✓	✓			B								1.2	✓***	P	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

- 1E78-151Wiring Diagrams/Configuration..... See page 162
- 1F72-151 / 1F79-111Wiring Diagrams/Configuration..... See page 163
- 1F78-144 / 1F78-151Wiring Diagrams/Configuration..... See page 164