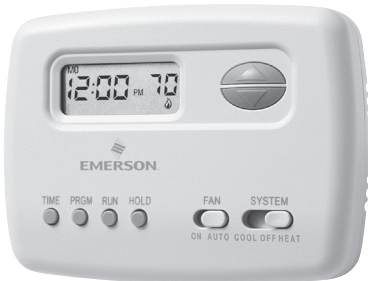
**1F72-151****1F78-151****1E78-151****1E78-144**

## 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 . . . . . 3<sup>13</sup>/<sub>16</sub>" H x 5<sup>1</sup>/<sub>8</sub>" W x 1<sup>1</sup>/<sub>8</sub>" D – (1F78)

5<sup>5</sup>/<sub>16</sub>" H x 3<sup>3</sup>/<sub>16</sub>" W x 1<sup>1</sup>/<sub>8</sub>" 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 6<sup>1</sup>/<sub>2</sub>" W x 4<sup>1</sup>/<sub>2</sub>" H
- F61-2593 — Wallplate for 1D70, 1E70 models with adaptor for horizontal or vertical junction box 4<sup>1</sup>/<sub>2</sub>" W x 6<sup>19</sup>/<sub>32</sub>" 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 <sup>x</sup>	✓	✓			B			✓				1.2	✓***	P	RC,RH, W, Y,O, B, G	
1/1		1/1	∅	∅	1F78-144 <sup>x</sup>	✓	✓			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  
<sup>x</sup> Available in vertical style order 1E78-144/151  
 \*\*\* Optional Continuous Display Light w/ Hardwire connection



TECHNICAL HELP

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