

WHITE-RODGERS 70 SERIES THERMOSTATS

White
Rodgers



1F78-151



1F73-174



1E78-151



1E78-144

70 SERIES THERMOSTATS

Residential Single Stage, Multi-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 Single Stage	mV to 30 VAC, NEC Class II, 50/60 Hz or DC
Electrical Rating Staging	20 to 30 VAC, NEC Class II
Terminal Load	1.0 A per terminal, 1.5A maximum all terminals combined
Setpoint Range	45 to 90°F (7 to 32°C)
Anticipation, Heating	Adjustable
Anticipation, Cooling Staging	Adjustable
Anticipation, Cooling Single Stage	Fixed
Rated Differential, Staging	Heat & Cool 0.75 or 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 ³ / ₄ " H x 5 ¹ / ₈ " W x 1 ¹ / ₈ " D – (1F78) 5 ¹ / ₄ " H x 3 ³ / ₁₆ " W x 1 ³ / ₁₆ " D – (1E78)

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

- Thermostat Guards — see pages 28-29
- Wallplate — F61-2510 for 1F models with adaptor for horizontal or vertical junction box 6¹/₂" W x 4¹/₂" H
- Wallplate — F61-2593 for 1D70, 1E70 models with adaptor for horizontal or vertical junction box 4¹/₂" W x 6¹⁹/₃₂" H



**WHITE-RODGERS 70 SERIES THERMOSTATS
STAGING 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	Energy Star	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
	2/2	2/1	∅	∅	1F73-174	✓				H	✓							1.2	✓***	P	R, C, Y, Y2, W/E, W2, G, B/O
		2/1	5+2	4	1F72-151	①				H		✓	✓					1.2	✓***	B	R, C, Y, W2, G, B/O, L, E
		2/1	∅	∅	1F79-111	①				H								1.2	✓***	B	R, C, Y, W2, G, B/O, L, E

SINGLE STAGE 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	Energy Star	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
1/1		1/1	7-Day	4	1F78-167	✓	✓			B		✓	✓					1.2	✓	P	RC, RH, W, Y, G, O, B
1/1		1/1	5+2	4	1F78-151	✓	✓			B		✓	✓					1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	5+2	4	1E78-151 Vertical	✓	✓			B		✓	✓					1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	5+2	4	1F78H-151	✓				H		✓	✓					1.2	✓	P	RC, RH, C, W, Y, G, O, B
1/1		1/1	∅	∅	1F78-144	✓	✓			B								1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	∅	∅	1E78-144 Vertical	✓	✓			B								1.2	✓	B	RC, RH, W, Y, G, O, B
1/1		1/1	∅	∅	1F78H-144	✓				H								1.2	✓	P	RC, RH, C, W, Y, G, O, B
1/∅			∅	∅	1E78-140 Vertical	✓	✓			B								1.2	✓	B	RH, W
NEW!	1/∅		∅	∅	1D78-140	✓	Temporary Construction Thermostat (Requires 1E78 Subbase or Order F4-1748 Subbase)														RH, W

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

① Heat Pump for Stage 1, and Gas/Oil/Electric for 2nd Stage/Emergency
*** Optional Continuous Display Light w/Hardwire connection



TECHNICAL HELP

Single Stage Configuration/Wiring, 1F Models only See pages 189-190
Single Stage Configuration/Wiring, 1E78 Models only See pages 185
Multi-Stage Configuration/Wiring, 1F Models only See pages 186-187
Heat Pump Configuration/Wiring, 1F Models only See pages 188