

# Emerson Blue™ Series 12" Touchscreen Thermostats

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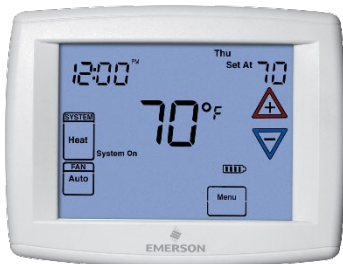
# Business and Product Overview

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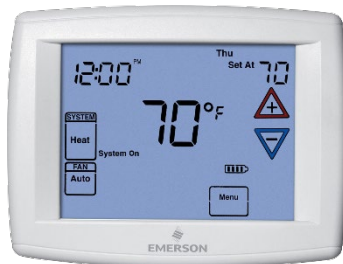
# Introduction

Emerson Blue™ Series 12" Touchscreen thermostats incorporate our largest display size coupled with advanced features and options.

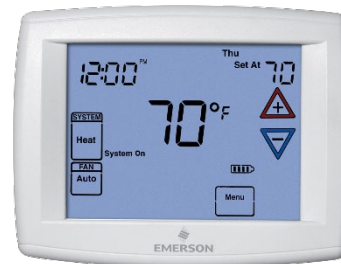
- **Our Largest Display**
  - Blue backlight
  - Large characters
- **Selectable Programming**
  - Choice of 7 Day, 5+1+1 Day or Non-Programmable standard on all.
- **Dual Fuel (HP/Gas Furnace) Control**
  - No sensor required or optional outdoor remote
  - Standard on all models
- **Advanced Features**
  - Indoor or Outdoor Remote Sensor Option
  - Auto-Changeover
  - Keypad Lockout and Temperature Limits
  - Program or Circulating Fan
  - Cool Savings
  - Multiple Power Methods
  - Simple set up Menu



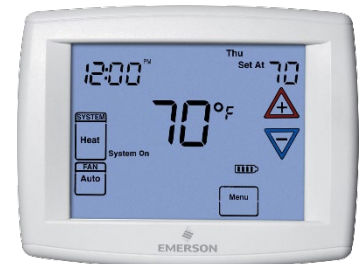
1F95-1291 Universal  
Humidity Control



1F95-1280 Universal  
Commercial



1F95-1277 Universal



1F97-1277 Single  
Stage or Single Stage  
HP with Aux

# Why Convert from the Competition?

- Large display that's easy to see, read, and understand.
- Features higher-end customers want.
- Competitively priced.
- More available options but easy install/configuration.
- Remote Sensor options for indoor averaging or outdoor Heat Pump lockout options.



## Quality & Precision Control



## Support When & Where You Need It



# Emerson Blue™ Series 12" Touchscreen Thermostats at a Glance



1F95-1291



1F95-1280



1F95-1277



1F97-1277

Special Features	Universal Staging with Humidifier/Dehumidifier Control	Universal Commercial with Economizer, Occupancy Pre-Purge, or Occupied Damper Control	Universal Staging	Single Stage Conventional or Heat Pump with Single Stage Aux.
Stages (H/C)	4H / 2C	4H / 2C	4H / 2C	1H / 1C or HP 2/1
Selectable Program	7, 5-1-1 or None	7, 5-1-1 or None	7, 5-1-1 or None	7, 5-1-1 or None
Program Periods	4 or 2 or No Pgm	2 or No Pgm	4 or 2 or No Pgm	4 or 2 or No Pgm

## Special features existing across all four models:

- Keypad Lockout and Temperature Limits
- Indoor or Outdoor Remote Sensor Option
- Dual Fuel - Logic or Outdoor Remote Sensor
- Auto-Changeover

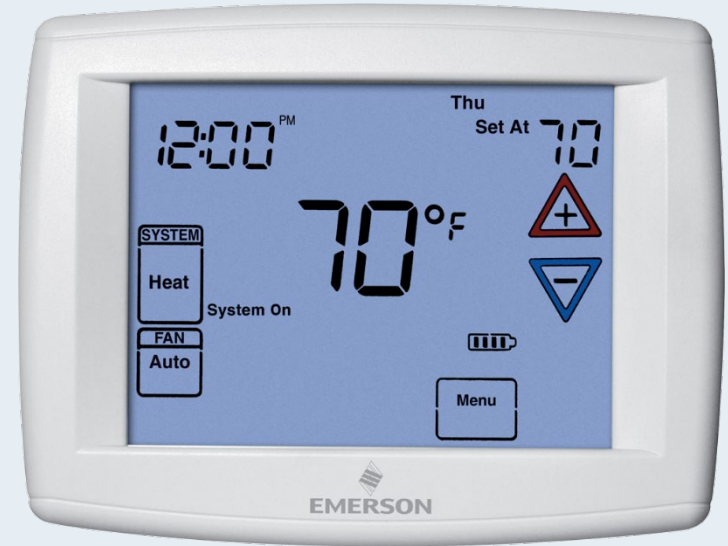


**TECH TIP:** Universal Thermostats configure for Single Stage, Multi-Stage and Heat Pump Systems.

# Matching Emerson Blue™ Series 12" Touchscreen Thermostats to the Application

Selection is easy - All you need to know is:

<b>1F95-1291</b>	Universal with Humidity Control (Humidification / Dehumidification)
<b>1F95-1280</b>	Universal Commercial (Economizer control or Pre-Occupancy Pre-Purge and Occupied Damper control)
<b>1F95-1277</b>	Universal (Single Stage, Multi-Stage, Heat Pump)
<b>1F97-1277</b>	Single Stage Conventional or Heat Pump (Single Aux. Heat)



# Optional Remote Sensors

## Indoor Remote Sensor - F145-1328 Options

- Displays remote temperature on thermostat.
- Controls remote sensor temp only.
- Controls average of remote and thermostat temp.
- Assigns priority to sensor (High, Med, Low) by program period and control to weighted average of remote and thermostat temp.

## Outdoor Remote Sensor - F145-1378 Options

- Displays outdoor temperature on thermostat.
- Selects Dual Fuel outdoor temp to switch from the Heat Pump to Gas Furnace (-5° to 50°F).
- Selects Heat Pump aux. heat cutout temperature to prevent aux heat from coming on when the pump can handle the load (-5° to 80°F). If the indoor temp drops below 45°F because of a possible Heat Pump malfunction aux heat will come on.



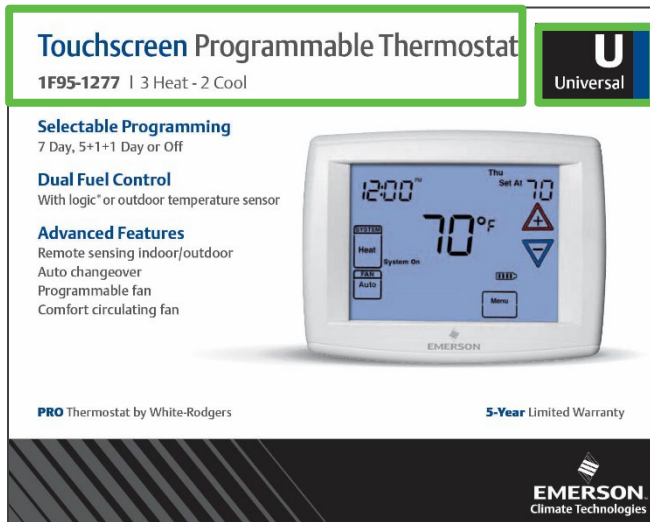
**F145-1328**



**F145-1378**

# Packaging Design Aids Selection/Application

- The header calls out stages and the programming options



- Look for the Application Icon on the upper left



Universal - 4H/2C or 2H/2C

- Furnaces and Heat Pumps



Heat Pump – 2H/1C

- Heat Pump Only



Conventional – 1H/1C

- Furnaces and Heat Pumps

To verify thermostat features, look at the side panel of the box.

Model	Program Options			Max Stages Heat/Cool		Applications			Power Source		Selectable Performance Features						Comfort & Convenience Features					
	7 Day	5 + 1 + 1 Day	Non-Programmable	Conventional	Heat Pump	Gas / Oil / Electric	3 Wire Zone	Millivolt	Battery	Hardwired (24V)	Auto Changeover	Programmable Fan	EMR / Early Start Program	Temperature Limits	Humidity Control (H) Humid (D) Dehumid	Dual Fuel Control*	Remote Sensor	Filter Change Reminder	Auto DST Adjust	Keypad Lockout	Cont. Backlight w/Common	Permanent Memory
1F95-1277	✓	✓	✓	2/2	3/2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓

Terminal Designations



\*Using Logic Program manages Dual Fuel without an outdoor sensor

2 AA Batteries Included

emersonthermostats.com





# Quick Reference Guide

Be sure to check out our Quick Reference guide with all of our thermostats, available on our Wholesale Resource Center:

<https://climate.emerson.com/documents/wr-0889-visorcard-divide-en-3599656.pdf>

The White-Rodgers Quick Reference Guide includes specs and features on all Blue Series thermostats including:

- 1 System type
- 2 Features
- 3 Terminals

		PROGRAMMING OPTIONS		SYSTEM COVERAGE			MAX STAGES HEAT/COOL			MODEL	APPLICATIONS			POWER SOURCE		PERFORMANCE FEATURES							COMFORT & CONVENIENCE FEATURES				TERMINALS
		Programmable (P) and/or Non-Programmable (NP)	Program Options	Periods Per Day	Single Stage Multi-Stage Heat Pump Universal <sup>1</sup>	Conventional Single Stage	Conventional Multi-Stage	Heat Pump	Gas/Oil/Electric		3-Wire Zone	Millivolt Compatible	Battery	Hardwired (24V)	PowerSteering	Auto Changeover	Programmable Fan	Comfort Circulating Fan	Temperature Setpoint Limits	Keypad Lockout	Dual Fuel Control (L) Logic, (O) Outdoor	Aux. Heat Lockout with Outdoor Sensor <sup>#</sup>	Remote Sensor	Filter Change Reminder	Auto DST Adjust	Continuous Backlight w/Common Wire	Permanent Memory
Blue™ Series Thermostats																											
	P, NP	7, 5+1+1, NP	4, 2, 0	Universal Humidity <sup>3</sup>	1/1	2/2	4/2	1F95-1291	●	●	●	●	●	●	●	●	●	L, O <sup>4</sup>	●	1 <sup>5</sup>	●	●	●	●	12"	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L, 6, +, S, -, DHM, HM	
		7, 5+1+1, NP	2, 0	Universal Commercial <sup>6</sup>	1/1	2/2	4/2	1F95-1280	●	●	●	●	●	●	●	●	●	●	L, O <sup>4</sup>	●	1 <sup>5</sup>	●	●	●	●	12"	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L, 6, +, S, -, A1
		7, 5+1+1, NP	4, 2, 0	Universal	1/1	2/2	4/2	1F95-1277	●	●	●	●	●	●	●	●	●	●	L, O <sup>4</sup>	●	1 <sup>5</sup>	●	●	●	●	12"	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L, 6, +, S, -
		7, 5+1+1, NP	4, 2, 0	Single Stage Heat Pump	1/1		2/1	1F97-1277	●	●	●	●	●	●	●	●	●	●	L, O <sup>4</sup>	●	1 <sup>5</sup>	●	●	●	●	12"	RC, RH, C, W/E, Y, O/B, G, L, 6, +, S, -
	P, NP	7, NP	4, 2, 0	Universal Easy Reader™	1/1	2/2	4/2	1F95E2-0671	●	●	●	●	●			●		L			●	●	●	●	6"	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L, 6	
		7, NP	4, 2, 0	Universal Wireless <sup>3</sup> Easy Install™	1/1	2/2	4/2	1F98E2-1621	●		●	●	●	●	●	●	●	L, O <sup>4</sup>	●	4 <sup>7</sup>	●			●	6"	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L, DHM, DHM2, HM, HM2	
		7, 5+1+1, NP	4, 2, 0	Universal	1/1	2/2	4/2	1F95-0671	●	●	●	●	●	●	●	●	●	●	O <sup>4</sup>	●	1 <sup>5</sup>	●	●	●	●	6"	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L, 6, +, S, -
		7, 5+1+1, NP	4, 2, 0	Universal Commercial <sup>6</sup>	1/1	2/2	4/2	1F95-0680	●	●	●	●	●	●	●	●	●	●	O <sup>4</sup>	●	1 <sup>5</sup>	●	●	●	●	6"	RC, RH, C, W/E, W2, Y, Y2, O/B, G, L, 6, +, S, -, A1

# WR Mobile App

Always up-to-date and easy to use:

- Mobile App
- White-Rodgers Website



Your resource for:

- Product information and spec sheets
- Complete Cross Reference
- OEM compatibility
- Installation information and videos
- Wiring diagrams

Download:

- Go to your app store
- Type in **WR Mobile**
- Install the app



OR

- Open your camera
- Hold it over the QR code
- Tap “Open” on the pop-down
- Install the app



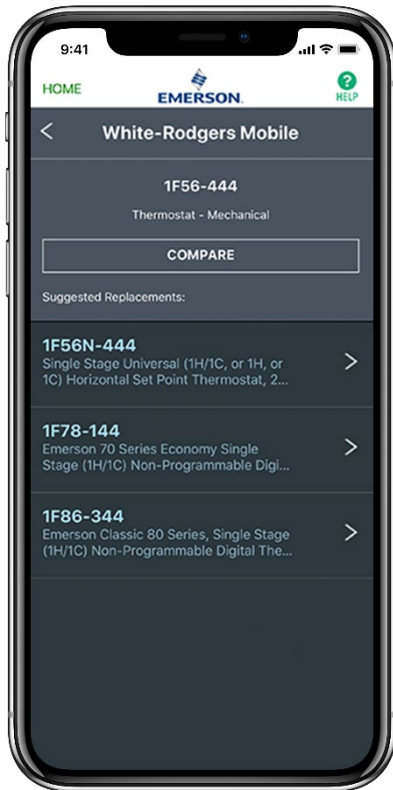
# WR Mobile App

Easy to use!

Search by OEM, Competitive, or White-Rodgers Model Number



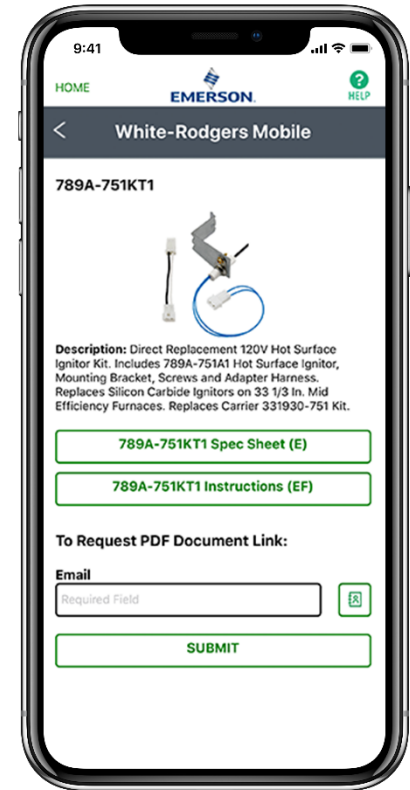
## Product Number



## Scrollable Product List



## WR Replacement



# White-Rodgers Cross Reference

Go to: [www.whiterodgers.com](http://www.whiterodgers.com)

- Hover over Tools & Resources
- Click on: White-Rodgers Cross Reference/Product Information
- Enter the Model Number or click on: Search Replacement Heating Controls by Major OEM Brand

The screenshot shows the Emerson website's navigation bar and a dropdown menu. The navigation bar includes links for Emerson.com, About Us, Investors, Careers, Contact Us, News & Events, Sign In, and United States (English). Below the navigation bar, the 'CLIMATE TECHNOLOGIES' section is visible, with a search bar and a shopping cart icon. The 'Tools & Resources' dropdown menu is open, displaying a list of links. A green arrow points to the link 'White-Rodgers Cross Reference/Product Information'.

Emerson.com About Us Investors Careers Contact Us News & Events Sign In United States (English)

CLIMATE TECHNOLOGIES

EMERSON Products Industries Training & Support **Tools & Resources** Expertise Search Q

Transforming How People and Work

Drawing on our expertise and global perspective, we combine technology to develop HVACR and infrastructure solutions for our customers.

TOOLS & RESOURCES

- Air Conditioning Webinars
- Application Engineering Knowledge Center
- Copeland Online Product Information
- E360
- Ebooks
- HVAC On Air Podcasts
- HVACR Calculators
- Mobile Apps
- The Helix
- Where To Buy
- [White-Rodgers Cross Reference/Product Information](#)
- Product Selection Software

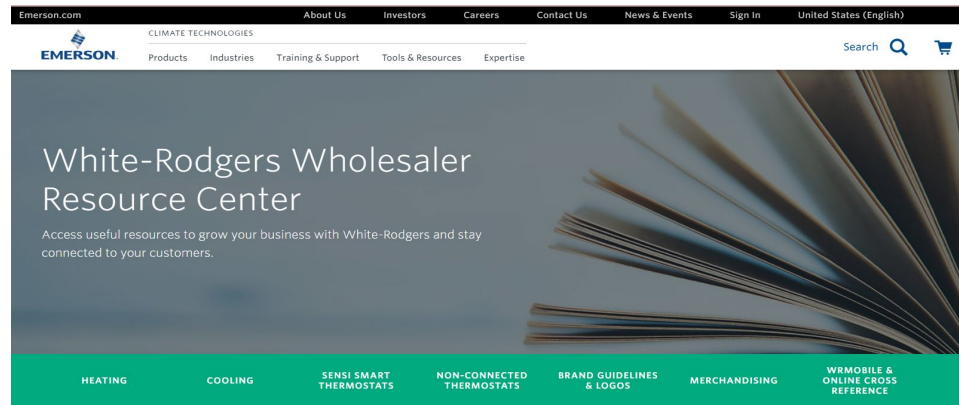
# Wholesale Resource Site

Access useful resources to grow your business.

Visit: <https://climate.emerson.com/en-us/brands/white-rodgers/white-rodgers-wholesaler-resource-center>

You'll find videos, stocking lists and product launch information for the following product families:

- Heating Controls
- Cooling Controls
- Sensi Smart™ Thermostats
- Traditional Thermostats
- Contractor Rewards
- Product Merchandising



The comfort in knowing Emerson is there.

Confidence comes from knowing your reputation is in good hands; that you have the stability of an industry leader by your side; that they've been in the game for 125 years and they'll be around for a whole lot longer. That's the comfort you feel when you recommend Emerson, because you know you're working with the best for your customers and your business.

[BROCHURE](#)

# Why Contractors Trust White-Rodgers

## Industry Leading Products

- Used by more OEM's
- Offering the widest range of Universal Replacement Controls

## Ease of Installation

- Simple, easy to understand instructions

## Product Reliability

- Quality Control assures reliable products

## Affordable

- Competitive pricing

## Supported by Knowledgeable Representatives

- Contractor direct phone support



# Technical

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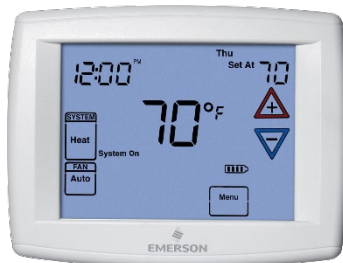
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- **Our Largest Display**
  - Blue backlight
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  - Choice of 7 Day, 5+1+1 Day or Non-Programmable standard on all.
- **Dual Fuel (HP/Gas Furnace) Control**
  - No sensor required or optional outdoor remote
  - Standard on all models
- **Advanced Features**
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  - Multiple Power Methods
  - Simple set up Menu



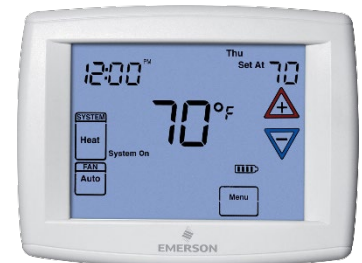
1F95-1291 Universal  
Humidity Control



1F95-1280 Universal  
Commercial



1F95-1277 Universal



1F97-1277 Single  
Stage or Single Stage  
HP with Aux



# Matching Emerson Blue™ Series 12" Touchscreen Thermostats to the Application

Selection is easy - All you need to know is:

**1F95-1291:** Universal with Humidity Control

RC RH C W/E W2 Y Y2 O/B L G + S - 6 DHM HM

**1F95-1280:** Universal Commercial

RC RH C W/E W2 Y Y2 G O/B 6 L A1 + S -


**1F95-1277:** Universal

RC RH C W/E W2 Y Y2 O/B G L 6 + S -

**1F97-1277:** Single Stage Conventional or Heat Pump

RC RH C W/E Y O/B G L 6 + S -



 **TECH TIP:** O and B are combined into a single O/B terminal.

# Instruction Sheets

**WHITE-RODGERS** **Blue Humidity Touchscreen Universal Thermostat with Humidity/Dehumidify Control and Automatic Heat/Cool Changeover Option**

Single Stage, Multi-Stage, Heat Pump Installation and Operating Instructions

Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

Model	Programming Choices
1F95-1291	7 Day 5s+1 Day Non-Programmable

**APPLICATIONS**

Thermostat Configuration Options	Thermostat Applications	Maximum Stage Heat/Cool
Single Stage 1 No Heat Pump (SS1)	Gas, Oil, Electric Heat Only Cool Only or Heat/Cool Systems, 2 to 3 wire heating systems, 2 to 3 wire cooling systems, 2 to 3 wire or 240V	1+1
Heat Pump 1	Single Stage Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	2+2
Single Stage Compressor Heat Pump 1 (SP1)	Single Stage Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	3+1
Heat Pump 2 No Heat Pump (HP2)	Two Stage or Two Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	4+2

**1F95-1291 Humidity Control Touchscreen Thermostat**

**SPECIFICATIONS**

Electrical Rating	110 to 240 VAC, NEC Class I, 50/60 Hz or DC
Battery Power	20 to 30 VAC
Input/Output	1.5A per terminal, 2.5A maximum at terminals combined
Terminal Load	45 to 99°F (7 to 37°C)
Setpoint Range	F: 61, C: 16
Reset Differential	F: 0.5°F, C: 0.3°C
Heat (Single Stage/Multi-Stage)	0.2°F, 1.2°F
Cool (Single Stage/Multi-Stage)	1.2°F, 1.2°F
Heat Pump	1.2°F, 1.2°F
Error Heat	0.6°F, 1.2°F
Operating Ambient	32°F to +105°F (0 to +41°C)
Operating Humidity	80% non-cooperating max.
Shipping Temperature Range	-40 to +105°F (-40 to +40°C)
Dimensions Thermostat	4.8187" H x 3.121" W x 1.3187" D
Humidity Setpoint Range	5 to 95%
Dehumidification Setpoint Range	40 to 95%

**CAUTION**  
To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

**ATTENTION: MERCURY NOTICE**  
This product does not contain mercury. However, this product may replace a product that contains mercury. Mercury and products containing mercury must not be discarded in household trash. Do not touch any spilled mercury. Wearing non-absorbent gloves, clean up any spilled mercury and place in a sealed container. For proper disposal of a product containing mercury or a sealed container of spilled mercury, place it in a suitable shipping container. Refer to [www.thermostat-recycle.org](http://www.thermostat-recycle.org) for location to send the product containing mercury.

**WARNING**  
For California Residents: This product contains a chemical known to the state of California to cause cancer and birth defects and other reproductive harm.

Index	Page
Installation	2
Wiring Diagrams	3
Thermostat Quick Reference	5
Installer Configuration Menu	6
Operating Your Thermostat	10
Programming	12
Troubleshooting	15

EMERSON **PART NO. 37-7313601**  
Revision 01-17-2024 1914  
emerson.com/white-rogers

**White-Rodgers** **Blue Commercial Touchscreen Universal Thermostat with Damper or Economizer Control and Automatic Heat/Cool Changeover Option**

Single Stage, Multi-Stage, Heat Pump Installation and Operating Instructions

Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

Model	Programming Choices
1F95-1280	7 Day 5s+1 Day Non-Programmable

**APPLICATIONS**

Thermostat Configuration Options	Thermostat Applications	Maximum Stage Heat/Cool
Single Stage 1 No Heat Pump (SS1)	Gas, Oil, Electric Heat Only Cool Only or Heat/Cool Systems, 2 to 3 wire heating systems, 2 to 3 wire cooling systems, 2 to 3 wire or 240V	1+1
Heat Pump 1	Single Stage Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	2+2
Single Stage Compressor Heat Pump 1 (SP1)	Single Stage Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	3+1
Heat Pump 2 No Heat Pump (HP2)	Two Stage or Two Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	4+2

**1F95-1280**

**SPECIFICATIONS**

Electrical Rating	110 to 240 VAC, NEC Class I, 50/60 Hz or DC
Battery Power	20 to 30 VAC
Input/Output	1.5A per terminal, 2.5A maximum at terminals combined
Terminal Load	45 to 99°F (7 to 37°C)
Setpoint Range	F: 61, C: 16
Reset Differential	F: 0.5°F, C: 0.3°C
Heat (SS1, MS2)	0.2°F, 1.2°F
Cool (SS1, MS2)	1.2°F, 1.2°F
Heat Pump (HP1, HP2)	1.2°F, 1.2°F
Error Heat (HP1, HP2)	0.6°F, 1.2°F
Operating Ambient	32°F to +105°F (0 to +41°C)
Operating Humidity	80% non-cooperating max.
Shipping Temperature Range	-40 to +105°F (-40 to +40°C)
Dimensions Thermostat	4.8187" H x 3.121" W x 1.3187" D

**CAUTION**  
To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

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EMERSON **PART NO. 37-73222C**  
Revision 01-17-2024 1822  
emerson.com/white-rogers

**White-Rodgers** **Blue Universal Touchscreen Thermostat with Automatic Heat/Cool Changeover Option**

Single Stage, Multi-Stage, Heat Pump Installation and Operating Instructions

Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

Model	Programming Choices
1F95-1277	7 Day 5s+1 Day Non-Programmable

**APPLICATIONS**

Thermostat Configuration Options	Thermostat Applications	Maximum Stage Heat/Cool
Single Stage 1 No Heat Pump (SS1)	Gas, Oil, Electric Heat Only Cool Only or Heat/Cool Systems, 2 to 3 wire heating systems, 2 to 3 wire cooling systems, 2 to 3 wire or 240V	1+1
Heat Pump 1	Single Stage Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	2+2
Single Stage Compressor Heat Pump 1 (SP1)	Single Stage Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	3+1
Heat Pump 2 No Heat Pump (HP2)	Two Stage or Two Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	4+2

**1F95-1277 Touchscreen Thermostat**

**SPECIFICATIONS**

Electrical Rating	110 to 240 VAC, NEC Class I, 50/60 Hz or DC
Battery Power	20 to 30 VAC
Input/Output	1.5A per terminal, 2.5A maximum at terminals combined
Terminal Load	45 to 99°F (7 to 37°C)
Setpoint Range	F: 61, C: 16
Reset Differential	F: 0.5°F, C: 0.3°C
Heat (Single Stage/Multi-Stage)	0.2°F, 1.2°F
Cool (Single Stage/Multi-Stage)	1.2°F, 1.2°F
Heat Pump	1.2°F, 1.2°F
Error Heat	0.6°F, 1.2°F
Operating Ambient	32°F to +105°F (0 to +41°C)
Operating Humidity	80% non-cooperating max.
Shipping Temperature Range	-40 to +105°F (-40 to +40°C)
Dimensions Thermostat	4.8187" H x 3.121" W x 1.3187" D

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EMERSON **PART NO. 37-6733F**  
Revision 01-17-2024 1832  
emerson.com/white-rogers

**White-Rodgers** **Blue Universal Touchscreen Thermostat with Automatic Heat/Cool Changeover Option**

Single Stage, Heat Pump Installation and Operating Instructions

Save these instructions for future use!

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

Model	Programming Choices
1F97-1277	1 Day 1s+1 Day Non-Programmable

**APPLICATIONS**

Thermostat Configuration Options	Thermostat Applications	Maximum Stage Heat/Cool
Single Stage 1 No Heat Pump (SS1)	Gas, Oil, Electric Heat Only Cool Only or Heat/Cool Systems, 2 to 3 wire heating systems, 2 to 3 wire cooling systems, 2 to 3 wire or 240V	1+1
Heat Pump 1	Single Stage Compressor Heat/Pump Systems - 4 to 12 Stage Auto-Changeover Heat/Pump Systems with Heat Pump Emergency Heat	1+1
Single Stage Compressor Heat Pump 1 (SP1)	Single Stage Compressor Heat/Pump Systems with Heat Pump Emergency Heat	1+1

**1F97-1277 Touchscreen Thermostat**

**SPECIFICATIONS**

Electrical Rating	110 to 240 VAC, NEC Class I, 50/60 Hz or DC
Battery Power	20 to 30 VAC
Input/Output	1.5A per terminal, 2.5A maximum at terminals combined
Terminal Load	45 to 99°F (7 to 37°C)
Setpoint Range	F: 61, C: 16
Reset Differential	F: 0.5°F, C: 0.3°C
Heat (Single Stage/Multi-Stage)	0.2°F, 1.2°F
Cool (Single Stage/Multi-Stage)	1.2°F, 1.2°F
Heat Pump	1.2°F, 1.2°F
Error Heat	0.6°F, 1.2°F
Operating Ambient	32°F to +105°F (0 to +41°C)
Operating Humidity	80% non-cooperating max.
Shipping Temperature Range	-40 to +105°F (-40 to +40°C)
Dimensions Thermostat	4.8187" H x 3.121" W x 1.3187" D

**CAUTION**  
To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

**ATTENTION: MERCURY NOTICE**  
This product does not contain mercury. However, this product may replace a product that contains mercury. Mercury and products containing mercury must not be discarded in household trash. Do not touch any spilled mercury. Wearing non-absorbent gloves, clean up any spilled mercury and place in a sealed container. For proper disposal of a product containing mercury or a sealed container of spilled mercury, place it in a suitable shipping container. Refer to [www.thermostat-recycle.org](http://www.thermostat-recycle.org) for location to send the product containing mercury.

**WARNING**  
For California Residents: This product contains a chemical known to the state of California to cause cancer and birth defects and other reproductive harm.

Index	Page
Installation	2
Wiring Diagrams	3
Thermostat Quick Reference	4
Installer Configuration Menu	5
Operating Your Thermostat	9
Programming	10
Troubleshooting	13

EMERSON **PART NO. 37-7388B**  
Revision 01-17-2024 1839  
emerson.com/white-rogers

**1F95-1291 Universal Humidity Control**

**1F95-1280 Universal Commercial**

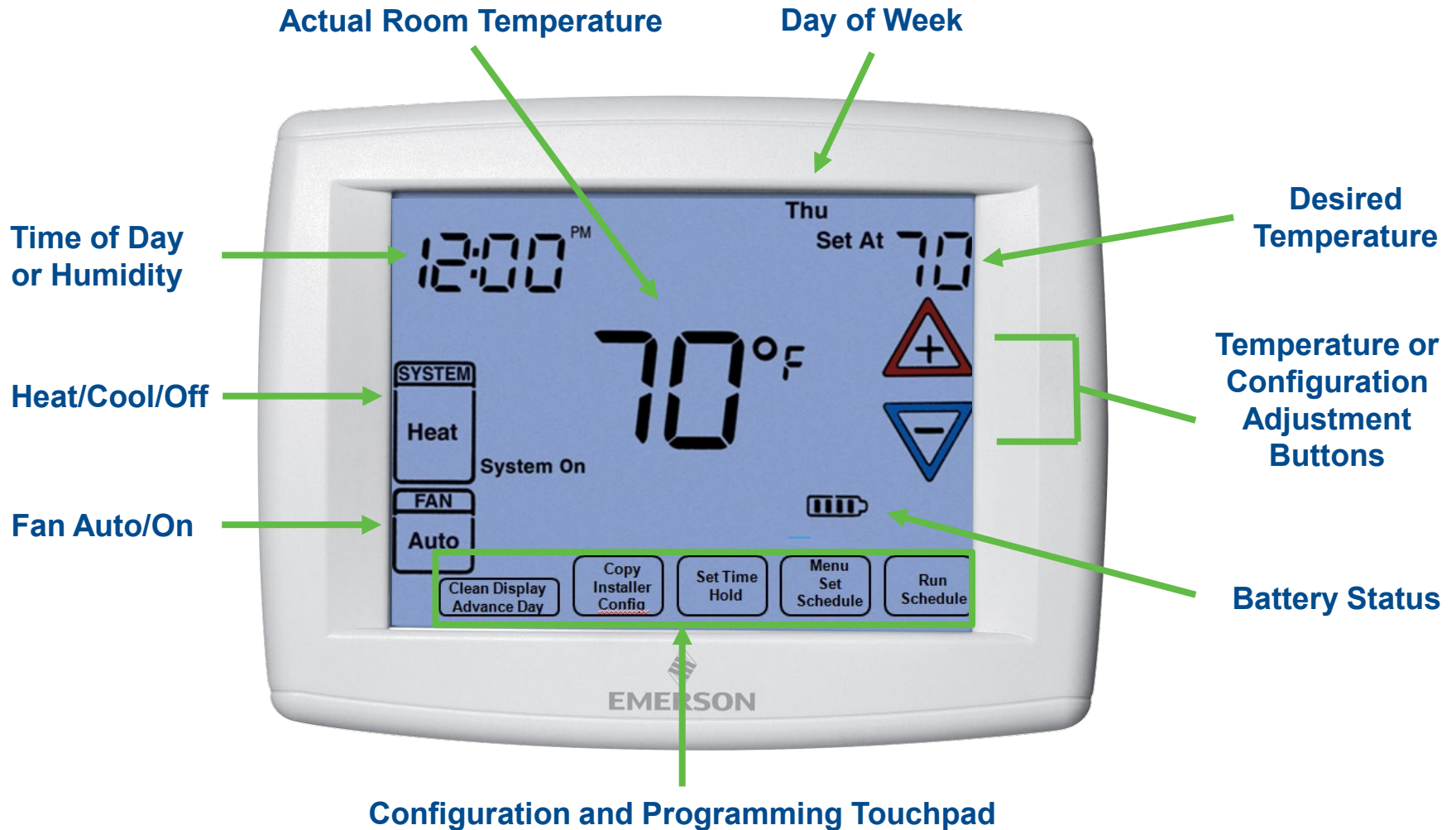
**1F95-1277 Universal**

**1F97-1277 Single Stage or Single Stage HP with Aux**

# Emerson Blue™ Series 12" Touchscreen Thermostat Connections

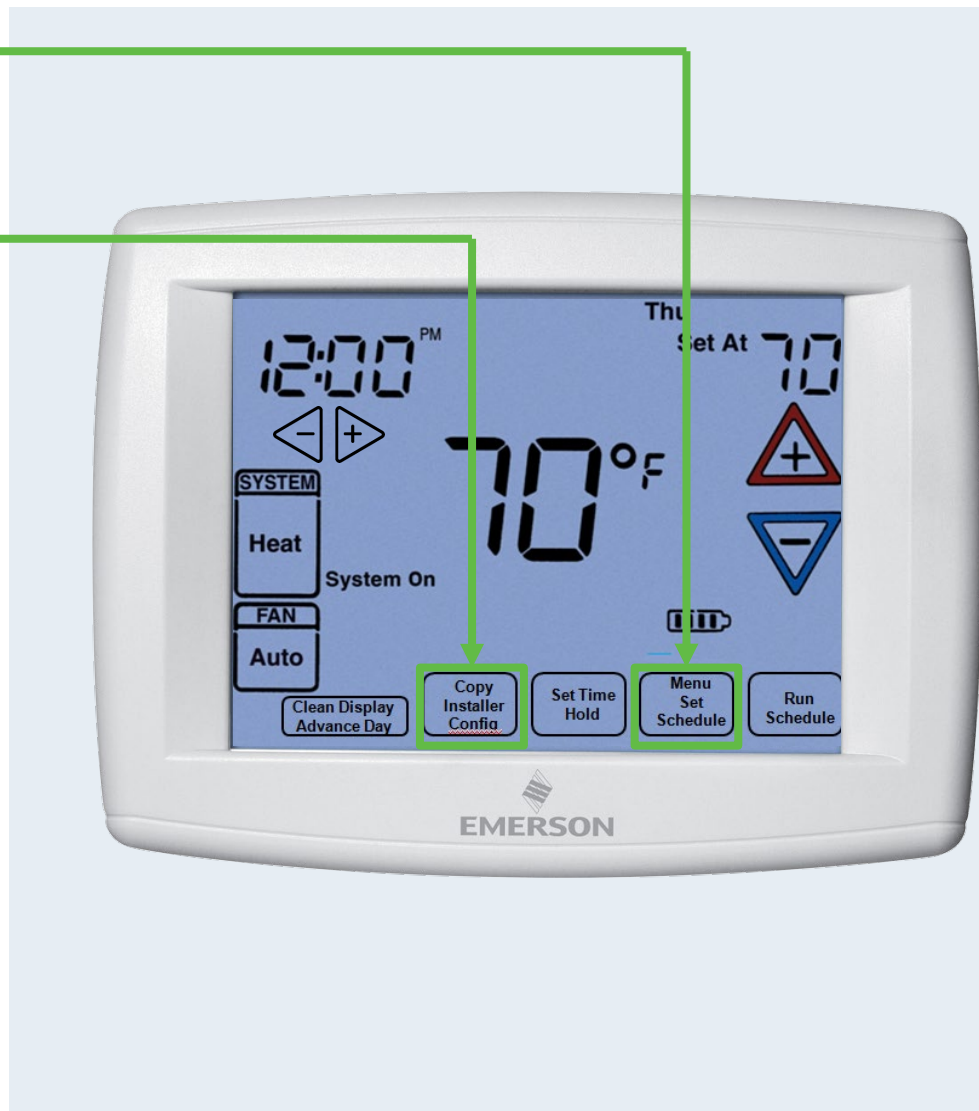
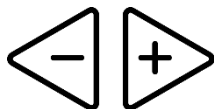
Humidity Control	Commercial	Universal	Single Stage or HP with Aux.	Terminal Functions
1F95-1291	1F95-1280	1F95-1277	1F97-1277	Model Number
RC	RC	RC	RC	24V Power for Cooling
RH	RH	RH	RH	24V Power for Heating
C	C	C	C	24V Common
W/E	W/E	W/E	W/E	1st Stage Heat or Heat Pump Aux/Emergency Heat
W2	W2	W2		2nd Stage Heat or Heat Pump Aux 2/Emergency Heat 2
Y	Y	Y	Y	1st Stage Cooling or Heat Pump
Y2	Y2	Y2		2nd Stage Cooling or Heat Pump
O/B	O/B	O/B	O/B	O or B Changeover
G	G	G	G	Indoor Fan
L	L	L	L	Heat Pump Malfunction Indicator
6	6	6	6	3-Wire Zone Connection (Powers Closed)
+	+	+	+	Remote Sensor +
S	S	S	S	Remote Sensor Signal
—	—	—	—	Remote Sensor -
DHM				Dehumidification
HM				Humidifier
	A1			Economizer or Occupancy Prepurge, Damper

# Thermostat Navigation



# System Configuration - Menu

1. Press the Menu touchpad.
2. Press and hold the Installer Config touchpad for five seconds.
3. Press UP to advance or DOWN to go previous. Press RIGHT or LEFT to change a menu item option.



**TECH TIP:** Most technical service calls are the result of improper system configuration.

# Configuration Options Summary

1F95-1277 Configuration Options Summary	
System Type	Heat Pump or Conventional, Heat/Cool Stages
Fuel Type	Gas/Electric
Heat Pump Reversing Valve	O/B
Program Schedule	7 Day, 5-1-1, Non-Programmable
Programs Per Day	4, 2, 0
System Modes	Heat, Cool, Auto Heat/Cool, Emergency Heat
Energy Management Recovery	Early Start Program
Cycle Rate	Heat, Cool, Aux, Fast/Slow
Cycle Completion	Highest Stage Cycle Completion, On/Off
Compressor Lockout	5 Minute compressor cycle time delay, On/Off
Continuous Backlight	Continuous Backlight, On/Off
Temperature Display Adjustment	Display Temperature Offset, 5° Lo to 5° High
Temperature Format	°F or °C
Audible Input	Beep, On/Off when changing settings
Daylight Savings Time	Daylight Savings Time On or Off
Auto Schedule	Automatic Heat/Cool Comfort and Economy Settings, On/Off
Cool Savings	Offsets Room Temp lower with long compressor runs, On/Off
Compressor Optimization	Blower Off Delay to scavenge cooling from coils, On/Off

# Configuration Options Summary Continued

<b>1F95-1277 Configuration Options Summary</b>	
<b>System Type</b>	<b>Heat Pump or Conventional, Heat/Cool Stages</b>
Comfort Alert Active Protection	Compatible with Comfort Alert modules, On/Off
Setpoint Temperature Limits	Heat and Cool, Selectable Temperature Ranges
Keypad Lockout	Total or Partial Keypad Lockout
Fast Second Stage	Fast Staging for Comfort, On/Off
Remote Temperature Sensor Options	Indoor or Outdoor Remote Sensor, Displaying/Averaging/Dual Fuel/Aux Heat
Dual Fuel Setting	Dual Fuel Logic Stage Separation, Faster/Slower
Compressor Delay (Dual Fuel)	Heat Pump to Furnace switchover timing, 0-99 Sec.
UV Light Change	Adjustable, On/Off/25 Day Increments
Air Filter Change	Adjustable, On/Off/Run Time Hours
<b>Additional Standard Options</b>	
<b>System Type</b>	<b>Heat Pump or Conventional, Heat/Cool Stages</b>
Factory Pre-Program	Preset Time and Temperature Settings, Adopt or Customize
Program Fan	Program Fan by Program Period(s), Selectable
Comfort Circulating Fan	Independent of Program or Heat or Cool Cycling, On/Off
Program Override	Bypass Program, Manual/Temporary
Program Copy	Copy/Paste, Individual/Group Program settings

# Configuration Options

## Additional Special Features

<b>1F95-1280 Commercial Thermostat - Additional Special Features</b>	
<b>System Type</b>	<b>Heat Pump or Conventional, Heat/Cool Stages</b>
Pre-Occupancy Purge	Opens Fresh Air Damper 1-3 hours before Occupied period, Selectable
Economizer Option	Operates Economizer as first stage Cooling, Selectable or Occupied Damper Option
Occupied Damper Option	Opens Fresh Air Damper During Occupied Periods, Selectable or Economizer
<b>1F95-1291 Humidity Control Thermostat - Additional Special Features</b>	
<b>System Type</b>	<b>Heat Pump or Conventional, Heat/Cool Stages</b>
Blower Balance Point	Outdoor Remote Temp. option to select Heat Pump Fan Speed
Humidity Display	Alternates Indoor Humidity % with Time, On/Off
Auto Humidity Reduction	Prevents indoor frost in extremely cold weather, Off/Low/High
Automatic Humidification	Humidify Independently from Heat or in Cooling, Heat/Cool/Auto
Cycle Humidifier	Reduces water use on pad style humidifiers, On/Off
Optimal Comfort Dehumidification	Dehumidifies while cooling when humidity is 2% above setting, Selectable Humidity Setting
Optimal Dehumidification	Dehumidifies while cooling when humidity is 2% above setpoint and can overcool up to 3 degrees, Selectable Humidity Setting
Humidifier Pad Change	Pad Change Reminder, On/Off



# Staging

Emerson multi-stage thermostats are equipped with a microprocessor that uses an algorithm to make decisions about bringing on an additional stage of heat or cool. The algorithm focuses on system performance, rather than only time or temperature, to determine when to engage 2<sup>nd</sup> stage.

More frequent calls for heat, when the temperature exceeds the first stage differential, increasingly drive faster engagement of 2<sup>nd</sup> stage. Less frequent time outside the differential will delay calls for additional stages.

This is accomplished by microprocessor capture of the rolling average of room temperature, allowing the optimum staging point in time to be calculated.



***Faster calls for 2<sup>nd</sup> stage, result in a quicker trigger for 2<sup>nd</sup> stage.***

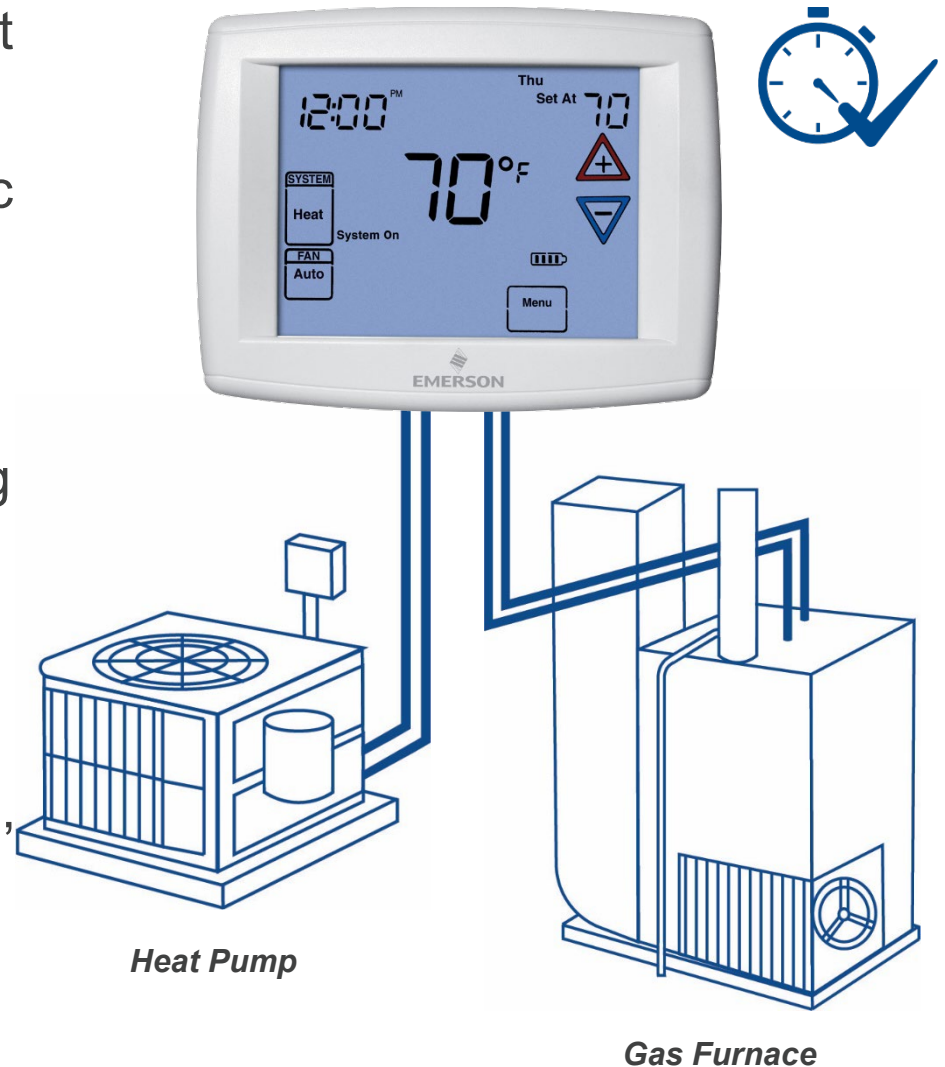
***Slower calls for 2<sup>nd</sup> stage, result in slower trigger.***

# Dual Fuel

Dual Fuel systems combine a heat pump and gas furnace.

Thermostats with a Dual Fuel logic option allow the staging algorithm to determine the optimum time to stage to gas. They also allow the furnace time to complete the ignition sequence before switching off the pump to prevent cold air from being blown out the vents.

This algorithm doesn't require an outdoor sensor because it tracks and monitors system performance, and then determines the optimal time to stage to the gas furnace.



# Install

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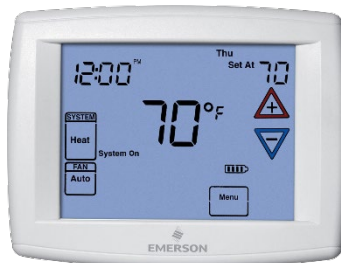
# Introduction

Emerson Blue™ Series 12" Touchscreen thermostats incorporate our largest display size coupled with advanced features and options.

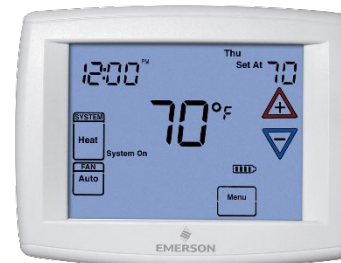
- **Our Largest Display**
  - Blue backlight
  - Large characters
- **Selectable Programming**
  - Choice of 7 Day, 5+1+1 Day or Non-Programmable standard on all.
- **Dual Fuel (HP/Gas Furnace) Control**
  - No sensor required or optional outdoor remote
  - Standard on all models
- **Advanced Features**
  - Indoor or Outdoor Remote Sensor Option
  - Auto-Changeover
  - Keypad Lockout and Temperature Limits
  - Program or Circulating Fan
  - Cool Savings
  - Multiple Power Methods
  - Simple set up Menu



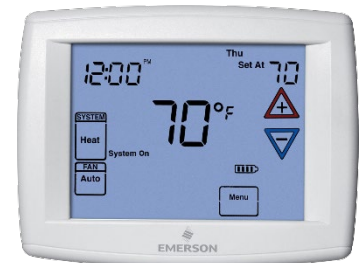
1F95-1291 Universal  
Humidity Control



1F95-1280 Universal  
Commercial

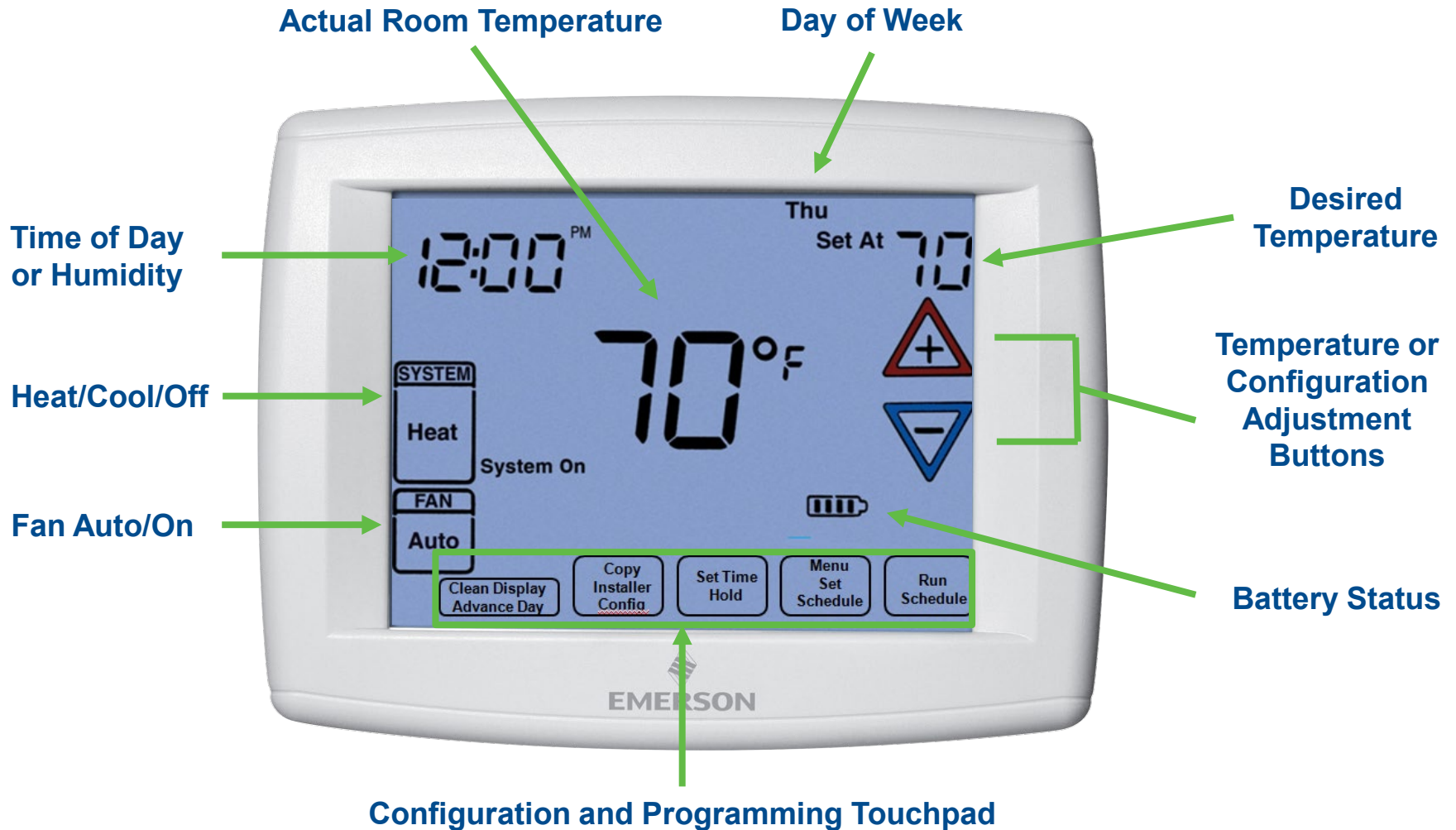


1F95-1277 Universal



1F97-1277 Single  
Stage or Single Stage  
HP with Aux

# Thermostat Navigation



# Matching Emerson Blue™ Series 12" Touchscreen Thermostats to the Application

Selection is easy - All you need to know is:

**1F95-1291:** Universal with Humidity Control

RC RH C W/E W2 Y Y2 O/B L G + S - 6 DHM HM

**1F95-1280:** Universal Commercial

RC RH C W/E W2 Y Y2 G O/B 6 L A1 + S -

**1F95-1277:** Universal

RC RH C W/E W2 Y Y2 O/B G L 6 + S -

**1F97-1277:** Single Stage Conventional or Heat Pump

RC RH C W/E W2 Y O/B G L 6 + S -



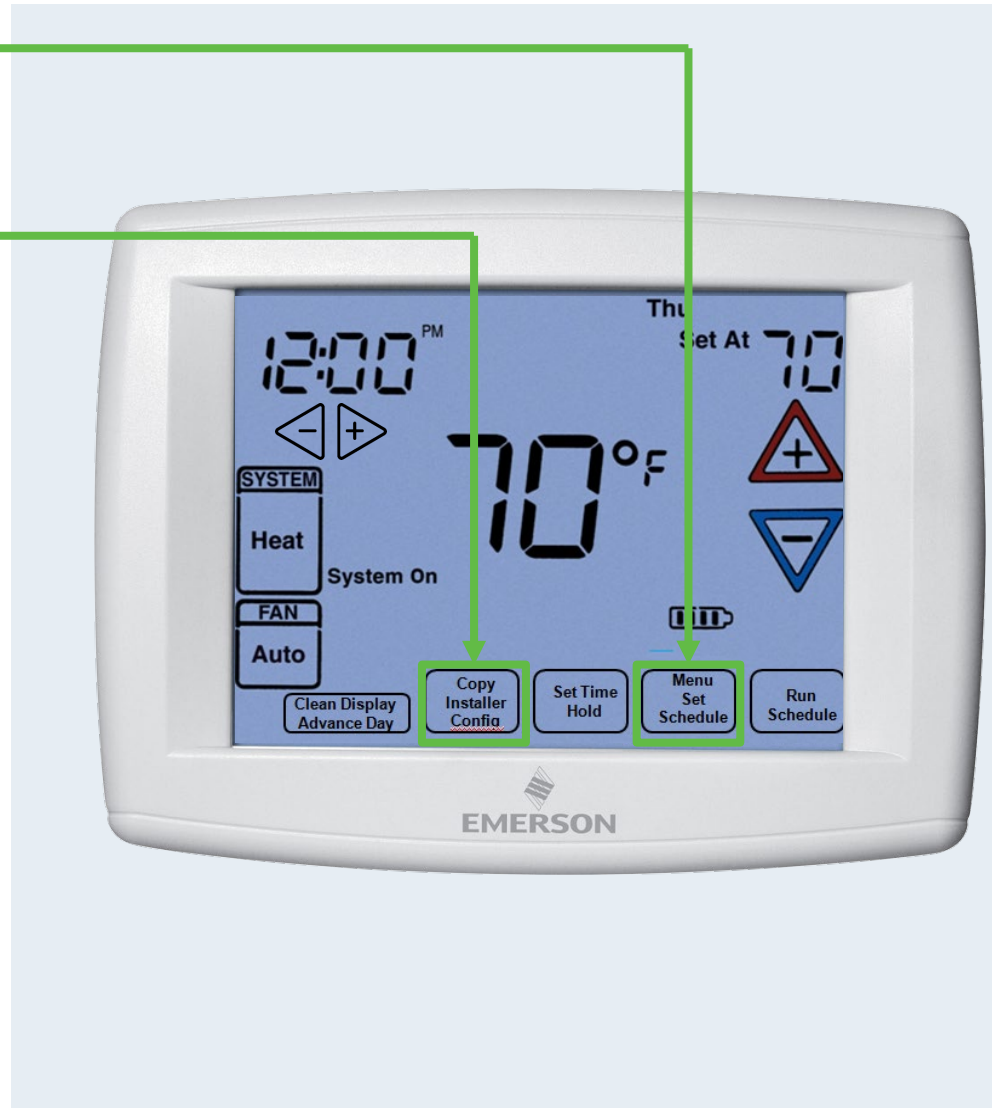
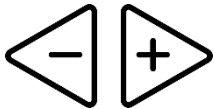
**TECH TIP:** O and B are combined into a single O/B terminal.

# Emerson Blue™ Series 12" Touchscreen Thermostat Connections

Humidity Control	Commercial	Universal	Single Stage or HP with Aux.	Terminal Functions
1F95-1291	1F95-1280	1F95-1277	1F97-1277	Model Number
RC	RC	RC	RC	24V Power for Cooling
RH	RH	RH	RH	24V Power for Heating
C	C	C	C	24V Common
W/E	W/E	W/E	W/E	1st Stage Heat or Heat Pump Aux/Emergency Heat
W2	W2	W2		2nd Stage Heat or Heat Pump Aux 2/Emergency Heat 2
Y	Y	Y	Y	1st Stage Cooling or Heat Pump
Y2	Y2	Y2		2nd Stage Cooling or Heat Pump
O/B	O/B	O/B	O/B	O or B Changeover
G	G	G	G	Indoor Fan
L	L	L	L	Heat Pump Malfunction Indicator
6	6	6	6	3-Wire Zone Connection (Powers Closed)
+	+	+	+	Remote Sensor +
S	S	S	S	Remote Sensor Signal
—	—	—	—	Remote Sensor -
DHM				Dehumidification
HM				Humidifier
	A1			Economizer or Occupancy Prepurge, Damper

# System Configuration - Menu

1. Press the Menu touchpad.
2. Press and hold the Installer Config touchpad for five seconds.
3. Press UP to advance or DOWN to go previous. Press RIGHT or LEFT to change a menu item option.



**TECH TIP:** Most technical service calls are the result of improper system configuration.



# Configuration Options Summary

1F95-1277 Configuration Options Summary	
System Type	Heat Pump or Conventional, Heat/Cool Stages
Fuel Type	Gas/Electric
Heat Pump Reversing Valve	O/B
Program Schedule	7 Day, 5-1-1, Non-Programmable
Programs Per Day	4, 2, 0
System Modes	Heat, Cool, Auto Heat/Cool, Emergency Heat
Energy Management Recovery	Early Start Program
Cycle Rate	Heat, Cool, Aux, Fast/Slow
Cycle Completion	Highest Stage Cycle Completion, On/Off
Compressor Lockout	5 Minute compressor cycle time delay, On/Off
Continuous Backlight	Continuous Backlight, On/Off
Temperature Display Adjustment	Display Temperature Offset, 5° Lo to 5° High
Temperature Format	°F or °C
Audible Input	Beep, On/Off when changing settings
Daylight Savings Time	Daylight Savings Time On or Off
Auto Schedule	Automatic Heat/Cool Comfort and Economy Settings, On/Off
Cool Savings	Offsets Room Temp lower with long compressor runs, On/Off
Compressor Optimization	Blower Off Delay to scavenge cooling from coils, On/Off

# Configuration Options Summary Continued

1F95-1277 Configuration Options Summary	
System Type	Heat Pump or Conventional, Heat/Cool Stages
Comfort Alert Active Protection	Compatible with Comfort Alert modules, On/Off
Setpoint Temperature Limits	Heat and Cool, Selectable Temperature Ranges
Keypad Lockout	Total or Partial Keypad Lockout
Fast Second Stage	Fast Staging for Comfort, On/Off
Remote Temperature Sensor Options	Indoor or Outdoor Remote Sensor, Displaying/Averaging/Dual Fuel/Aux Heat
Dual Fuel Setting	Dual Fuel Logic Stage Separation, Faster/Slower
Compressor Delay (Dual Fuel)	Heat Pump to Furnace switchover timing, 0-99 Sec.
UV Light Change	Adjustable, On/Off/25 Day Increments
Air Filter Change	Adjustable, On/Off/Run Time Hours
Additional Standard Options	
Factory Pre-Program	Preset Time and Temperature Settings, Adopt or Customize
Program Fan	Program Fan by Program Period(s), Selectable
Comfort Circulating Fan	Independent of Program or Heat or Cool Cycling, On/Off
Program Override	Bypass Program, Manual/Temporary
Program Copy	Copy/Paste, Individual/Group Program settings

# Configuration Options

## Additional Special Features

<b>1F95-1280 Commercial Thermostat - Additional Special Features</b>	
<b>System Type</b>	<b>Heat Pump or Conventional, Heat/Cool Stages</b>
Pre-Occupancy Purge	Opens Fresh Air Damper 1-3 hours before Occupied period, Selectable
Economizer Option	Operates Economizer as first stage Cooling, Selectable or Occupied Damper Option
Occupied Damper Option	Opens Fresh Air Damper During Occupied Periods, Selectable or Economizer
<b>1F95-1291 Humidity Control Thermostat - Additional Special Features</b>	
Blower Balance Point	Outdoor Remote Temp. option to select Heat Pump Fan Speed
Humidity Display	Alternates Indoor Humidity % with Time, On/Off
Auto Humidity Reduction	Prevents indoor frost in extremely cold weather, Off/Low/High
Automatic Humidification	Humidify Independently from Heat or in Cooling, Heat/Cool/Auto
Cycle Humidifier	Reduces water use on pad style humidifiers, On/Off
Optimal Comfort Dehumidification	Dehumidifies while cooling when humidity is 2% above setting, Selectable Humidity Setting
Optimal Dehumidification	Dehumidifies while cooling when humidity is 2% above setpoint and can overcool up to 3 degrees, Selectable Humidity Setting
Humidifier Pad Change	Pad Change Reminder, On/Off

# Programming

## Energy Saving Factory Pre-Program

These thermostats are programmed with the energy saving settings shown in the table below for all days of the week. If this program suits your needs, simply set the thermostat clock and press the RUN key. The table below shows the factory set heating and cooling schedule for all days of the week.

	*Wake UP (Morning)		Leave for Work (Day)		*Return Home (Evening)		Go to Bed (Night)	
<b>Heating Program</b>	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
<b>Cooling Program</b>	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F

\* You can eliminate these two program periods in the configuration menu (reference #5) if the building is occupied all day. Day period will change to 6:00 AM and 70° and can be programmed as required.

# Programming





## Worksheet for Re-Programming 5+1+1 and 7 Day Program

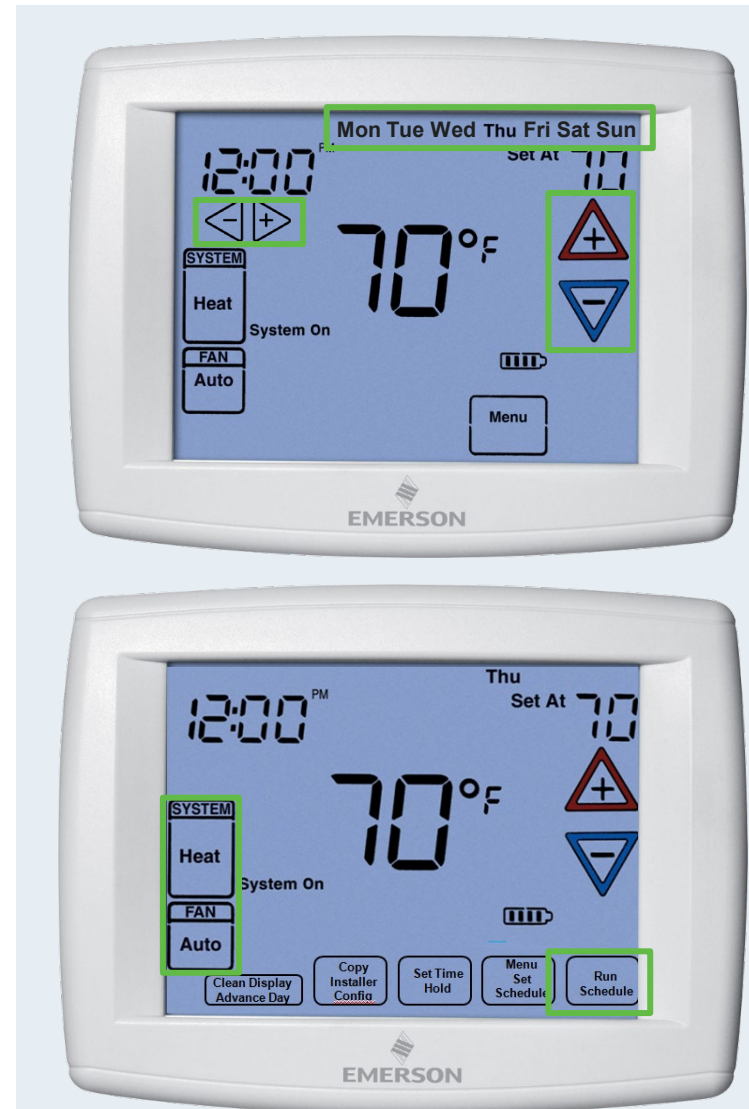
Heating Program	Wake Up (Morning)			Leave for Work (Day)			Return Home (Evening)			Go to Bed (Night)		
			FAN			FAN			FAN			FAN
MON	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto
TUE												
WED												
THU												
FRI												
SAT	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto
SUN	6:00 AM	70°F	Auto	8:00 AM	62°F	Auto	5:00 PM	70°F	Auto	10:00 PM	62°F	Auto
Cooling Program	Wake Up (Morning)			Leave for Work (Day)			Return Home (Evening)			Go to Bed (Night)		
			FAN			FAN			FAN			FAN
MON	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto
TUE												
WED												
THU												
FRI												
SAT	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto
SUN	6:00 AM	75°F	Auto	8:00 AM	83°F	Auto	5:00 PM	75°F	Auto	10:00 PM	78°F	Auto



**TECH TIP:** Filling out the blank schedule in the instructions makes it easy to program and reduces the need for Technical Help.

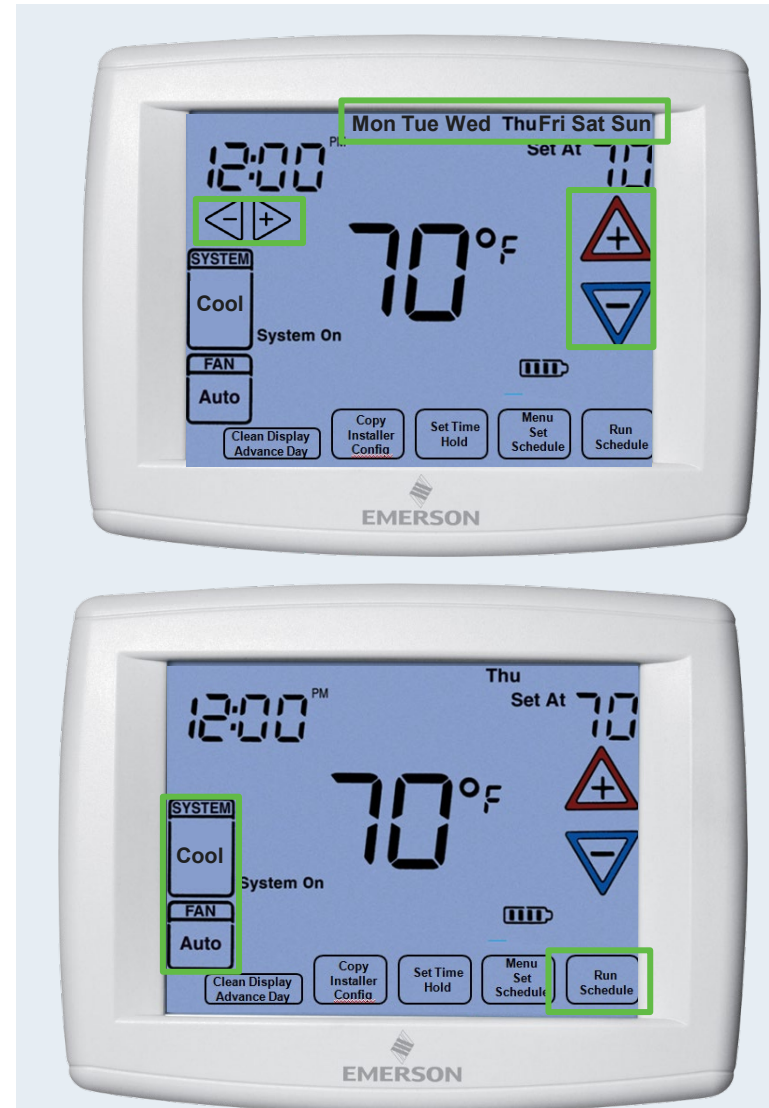
# System Checkout - Heat

1. Press the Menu key and then press Set Schedule. Press the SYSTEM key to select “Heat” in the system switch area indicating the active mode being programmed. You can switch to the other mode by pressing the system switch at any time.
2. The top of the display will show the day(s) being programmed. The time and set at temperature are also displayed. “Morning” will also be displayed to indicate the period.
3. Press  or  key to change the temperature to the selected temperature for the 1<sup>st</sup> heating period (Morning).
4. Press the  or  keys to adjust the start time for the period. The time will change in 15 minute increments.
5. Press FAN to select Auto or Prog.
6. After you have set the time and the temperature for the period to begin, press Set Schedule to advance to the next program period.
7. Repeat steps 2 and 6 until all of the program times and temperatures are set for all program periods on that day.
8. Press “Advance Day” to change to the next day and repeat steps 2 through 8.
9. When programming is complete and all of the times and temperatures match your desired heating schedule, press Run Schedule. The thermostat will now run your program.



# System Checkout - Cool



1. Press the SYSTEM key until the “Cool” icon appears.
2. Follow Enter Heating Program instructions for entering cooling times and temperatures.

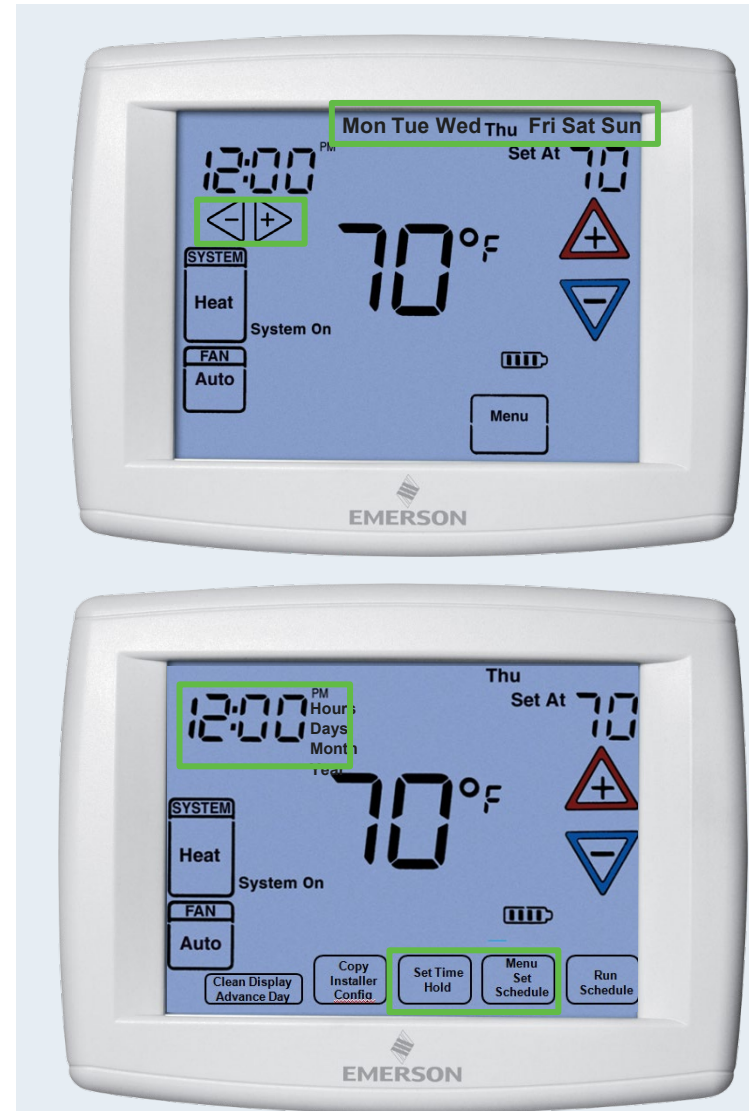


# Setting Time and Day

Go the extra mile for your customer by setting the time and date for them.

## Follow these steps to set the current time and day:

1. Press the MENU key to enter the installer menu. Then press Set Time once to indicate hour and AM or PM designation in the clock display.
2. Press and hold either the  or  touch key until you reach the correct hour and AM or PM designation.
3. Continue pressing Set Time to set correct minutes, month, year, or day of the week.
4. Press Run Schedule once or twice to remove the key. Now the display will show the correct time and room temperature.





# Troubleshooting

Symptom	Possible Cause	Corrective Action
No Heat/ No Cool/ No Fan (common problem)	<ol style="list-style-type: none"> <li>1. Blown fuse or tripped circuit</li> <li>2. Furnace power switch to OFF</li> <li>3. Furnace blower compartment door panel loose or not properly installed</li> <li>4. Loose connection to thermostat or system</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace fuse or reset breaker</li> <li>2. Turn switch to ON</li> <li>3. Replace door panel in proper position to engage safety interlock or door switch</li> <li>4. Tighten Connection</li> </ol>
No Heat	<ol style="list-style-type: none"> <li>1. System not set to Heat</li> <li>2. Loose connection to thermostat or system</li> <li>3. Heating System requires service or thermostat requires replacement</li> </ol>	<ol style="list-style-type: none"> <li>1. Set thermostat to Heat.</li> <li>2. Verify thermostat and system wires are securely attached. <b>Diagnostic.</b> Set System to Heat and raise the setpoint above room temperature. Within five minutes the thermostat should make a soft click sound and “Heat On” should appear on display. This sound indicates the thermostat is operating properly. If the thermostat does not click, try the reset operation listed below. If the thermostat clicks, contact the furnace manufacturer or a service person to verify the heating system is operating correctly.</li> </ol>
No Cool	<ol style="list-style-type: none"> <li>1. System not set to Cool</li> <li>2. Loose connection to the thermostat or system</li> <li>3. Cooling System requires service or thermostat requires replacement</li> </ol>	<ol style="list-style-type: none"> <li>1. Set thermostat to Cool.</li> <li>2. Verify thermostat and system wires are securely attached. <b>Diagnostic.</b> Set System to Cool and lower setpoint below room temperature. Same procedures as diagnostic for “No Heat” condition except set the thermostat to Cool and lower the setpoint below the room temperature. There may be up to a five minute delay before the thermostat clicks in Cooling if the compressor lock-out option is selected in the installer menu. (see INSTALLER MENU, item 50).</li> </ol>

# Troubleshooting Continued

Symptom	Possible Cause	Corrective Action
Heat, Cool or Fan Runs Constantly	1. Possible short in wiring, thermostat, heat, cool, or fan system.	Check each wire connection to verify they are not shorted or touching other wires. Try resetting the thermostat. If the condition persists contact your HVAC service person.
Thermostat Display & Thermometer Disagree	1. Thermostat display requires adjustment.	Display can be adjusted +/-5 degrees. See User Menu item 05.
Furnace (Air Conditioner) Cycles Too Fast or Slow (narrow or wide temperature swing)	1. The location of the thermostat and/ or the size of the Heating System may be influencing the cycle rate	Digital thermostats provide precise control and cycle faster than older mechanical models. The system turns on and off more frequently, but runs for a shorter time. If you would like to increase cycle time, choose SLO for slow cycle in the Installer menu. (Reference menu items 30, 32, & 35). If an acceptable cycle rate is not achieved, contact your HVAC service person. Cycle rate is dependent on system sizing. Undersized or oversized systems may cycle faster or slower than optimal and require additional heating or cooling capacity or duct balancing to achieve an optimal cycle rate for comfort.

# Troubleshooting Continued

Symptom	Possible Cause	Corrective Action
“Call for Service” icon appears on display	<ol style="list-style-type: none"> <li>1. Heating system is not able to heat the space to within 10 degrees of the setpoint within 2 hours.</li> <li>2. Cooling system is not able to cool the space to within 10 degrees of the setpoint within 2 hours</li> <li>3. If “—” is displayed for the Room Temperature, a replacement thermostat is needed.</li> <li>4. None of the buttons operate on the thermostat.</li> <li>5. If “Call for Service” is flashing, compressor self diagnostic is detecting an issue with the outdoor unit.</li> </ol>	<ol style="list-style-type: none"> <li>1. See corrective action for “No Heat”.</li> <li>2. See corrective action for “No Cool”.</li> <li>3. Replace thermostat.</li> <li>4. Make sure keypad lockout is not turned on.</li> <li>5. Contact a service person to verify the outdoor equipment is operating correctly.</li> </ol>

## Resetting the Thermostat or Thermostat Settings

If the thermostat has good batteries, but has a blank display or does not respond to key presses, the thermostat should be reset by removing the batteries for 2 minutes. This reset will not change the menu settings or program. If the condition persists after reinstalling the batteries, replace the thermostat.

# Why Contractors Trust White-Rodgers

## Industry Leading Products

- Used by more OEM's
- Offering the widest range of Universal Replacement Controls

## Ease of Installation

- Simple, easy to understand instructions

## Product Reliability

- Quality Control assures reliable products

## Affordable

- Competitive pricing

## Supported by Knowledgeable Representatives

- Contractor direct phone support

