White Rodgers™

Blue Selecto Thermostat with Automatic Heat/Cool Changeover Option
Single Stage, Multi-Stage or Heat Pump
Installation and Operating Instructions for Model:

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		
1F85ST-0422	5/1/1 Day	5/2 Day	Non-Programmable

APPLICATIONS

THERMOSTAT APPLICATION GUIDE

Description	
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (with Aux. or Emergency Heat)	Yes
Systems with up to 2 Stages Heat, 2 Stages Cool	Yes
Heat Only Systems (with optional fan switch)	Yes
Millivolt Heat Only Systems – Floor or Wall Furnaces	Yes
Cool Only Systems	Yes
Gas or Oil Heat	Yes
Electric Furnace	Yes
Hydronic (Hot Water) Zone Heat – 2 Wires	Yes
Hydronic (Hot Water) Zone Heat – 3 Wires	Yes

1F85ST-0422 Thermostat with Spanish Display

SPECIFICATIONS

Electrical Rating:
 Battery Power .... mV to 30 VAC, NEC Class II, 50/60 Hz or DC
 Input-Hardwire .... 20 to 30 VAC
Terminal Load .... 1.5 A per terminal, 2.5A maximum all terminals combined
Setpoint Range .... 45° to 90°F (7° to 32°C)
Differential (Single Stage) .... Heat 0.6°F; Cool 1.2°F (adjustable)
Differential (Heat Pump) .... Heat 1.2°F; Cool 1.2°F (adjustable)
Operating Ambient .... 32° to +105°F (0° to +41°C)
Operating Humidity .... 90% non-condensing max.
Shipping Temperature Range .... -40° to +150°F (-40° to +65°C)
Dimensions Thermostat .... 3.4"H x 4.4"W x 1.3"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.white-rodgers.com** for location to send product containing mercury.

EMERSON Climate Technologies

www.white-rodgers.com

INSTALLATION

WARNING

Thermostat installation and all components of the control system shall conform to Class II circuits per the NEC code.

Remove Old Thermostat

A standard heat/cool thermostat consists of three basic parts:
1) The cover, which may be either a snap-on or hinge type.
2) The base, which is removed by loosening all captive screws.
3) The switching subbase, which is removed by unscrewing the mounting screws that hold it on the wall or adapter plate. **Before removing wires from old thermostat, label each wire with the terminal designation from which it was attached.** Disconnect the wires from the old thermostat one at a time. **Do not let wires fall back into the wall.**

Installing New Thermostat

1) Pull the thermostat body off the thermostat base. Forcing or prying on the thermostat will cause damage to the unit.
2) Place base over hole in wall and mark mounting hole locations on wall using base as a template.
3) Move base out of the way. Drill mounting holes. If you are using existing mounting holes and the holes drilled are too large and do not allow you to tighten base snugly, use plastic screw anchors to secure the base.
4) Fasten base snugly to wall using mounting holes shown in Figure 2 and two mounting screws. Leveling is for appearance only and will not affect thermostat operation.
5) Connect wires to terminal block on base.
6) Push excess wire into wall and plug hole with a fire resistant material (such as fiberglass insulation) to prevent drafts from affecting thermostat operation.
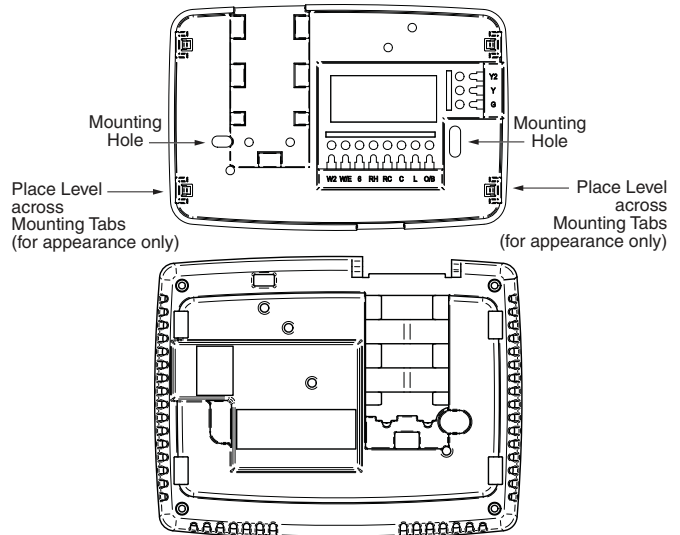7) Carefully line the thermostat up with the base and snap into place.

Batteries

2 "AA" alkaline batteries are included with the thermostat. To install the batteries, pull the battery door as shown by the arrow and lift open. Using the polarity indicated inside the battery door, insert the batteries. To close the battery door, swing the door down while pulling in the direction of arrow. Once fully down, snap the door back into position. To replace the batteries, set system to OFF.

Figure 1 – Battery door shown open

"AA" Alkaline Batteries
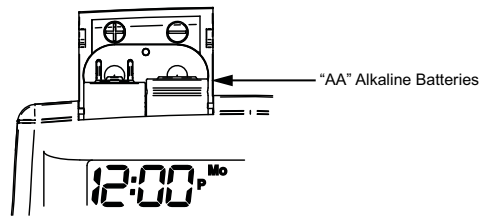
Thermostat can be powered by system AC power or Battery. If ▭ is displayed, the thermostat is battery powered. If ▭ is not displayed, thermostat is system powered with optional battery back-up. When battery power remaining is approximately half, the ▭ will be displayed. When **"Change ▭"** is displayed, install fresh "AA" alkaline batteries immediately. For best results, replace all batteries with new premium brand alkaline batteries such as Duracell® or Energizer®. We recommend replacing batteries every 2 years. If the home is going to be unoccupied for an extended period (over 3 months) and ▭ is displayed, the batteries should be replaced before leaving. When less than two months of battery life remain, the setpoint temperature will offset by 10 degrees (10 degrees cooler in Heat mode / 10 degrees warmer in Cool mode). If offset occurs, the normal setpoint can be manually reset with ⌃ or ⌄. Another offset will occur within two days if batteries are not replaced.

Figure 2 – Thermostat base and rear view of thermostat

Mounting Hole

Mounting Hole

Place Level across Mounting Tabs (for appearance only)

Place Level across Mounting Tabs (for appearance only)

WIRING CONNECTIONS

Refer to equipment manufacturers' instructions for specific system wiring information. After wiring, see CONFIGURATION section for proper thermostat configuration.

Refer to **37-6895** for 1F83-0422/1F85-0422 wiring diagram specifications.

TERMINAL DESIGNATION DESCRIPTIONS

Terminal Designation	Description	Terminal Designation	Description
L	Heat pump malfunction indicator for systems with malfunction connection	W/E	Heat Relay/Emergency Heat Relay (Stage 1)
		W2	2nd Stage Heat (3rd Stage Heat in HP 2)
O	Changeover valve for heat pump energized constantly in cooling	G	Fan Relay
		RH	Power for Heating
B	Changeover valve for heat pump energized constantly in heating	RC	Power for Cooling
Y	Compressor Relay	C	Common wire from secondary side of cooling system transformer or heat only system transformer
Y2	2nd Stage Compressor	6	3 Wire Zone Valve – Energized when no call for Heat

THERMOSTAT QUICK REFERENCE

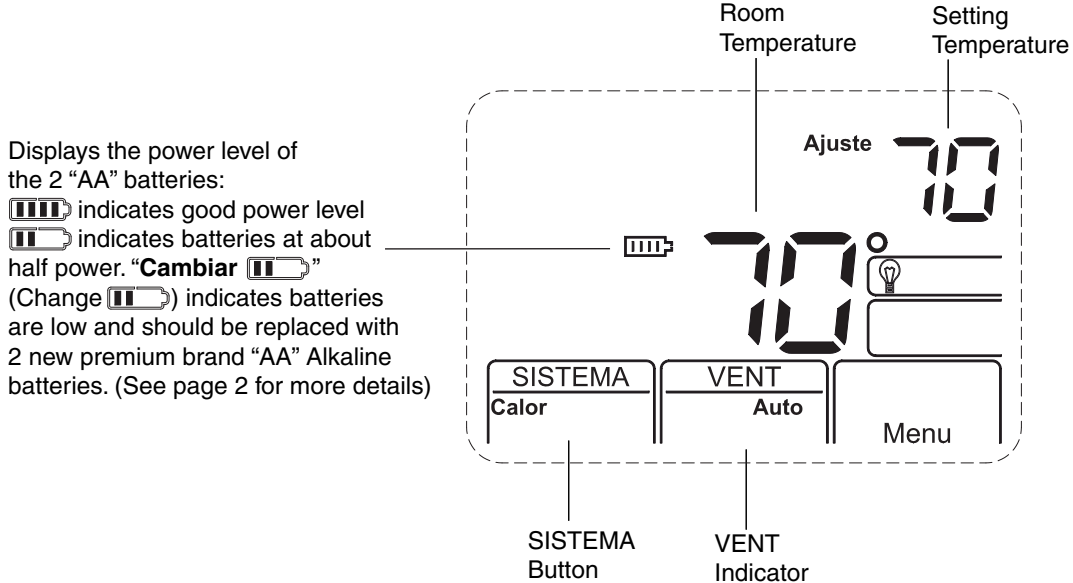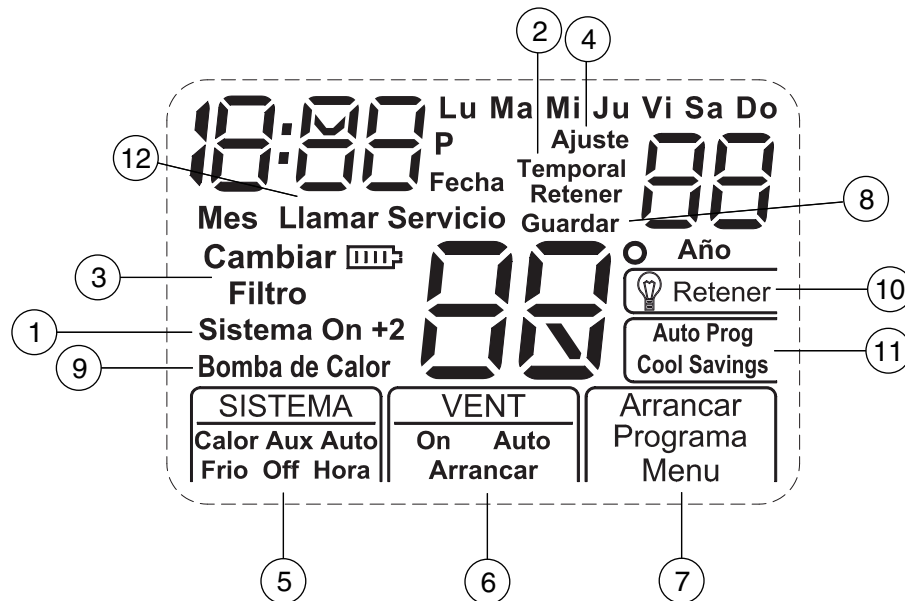## Home Screen Description

Figure 3 – Home Screen Display

Displays the power level of the 2 "AA" batteries:
▥ indicates good power level
▣ indicates batteries at about half power. "**Cambiar** ▣" (Change ▣) indicates batteries are low and should be replaced with 2 new premium brand "AA" Alkaline batteries. (See page 2 for more details)

Room Temperature

Setting Temperature

Ajuste

70

70°

SISTEMA
Calor

VENT
Auto

Menu

SISTEMA Button

VENT Indicator

Figure 4 – Programming & Configuration Items

Lu Ma Mi Ju Vi Sa Do
P
Fecha
Mes Llamar Servicio
Cambiar ▥
Filtro
Sistema On +2
Bomba de Calor

Ajuste Temporal Retener Guardar
Año
Retener
Auto Prog Cool Savings

SISTEMA
Calor Aux Auto
Frio Off Hora

VENT
On   Auto
Arrancar

Arrancar Programa Menu

Programming and Configuration Items

1. **"Sistema On"** indicates when heating or cooling stage is energized. **"Sistema On +2"** indicates when a second stage is energized.

2. The word **Retener (Hold)** is displayed when the thermostat is in the **Retener (Hold)** mode. **Temporal Retener (Temp Hold)** is displayed when the thermostat is in a **Retener Temporal (Temp Hold)** mode.

3. Displays **Cambiar Filtro (Change Filter)** when the system has run for the programmed filter time period as a reminder to change or clean your filter.

4. Displays **"Adjuste" (Set)** for setpoint when in Run Program mode.

5. Displays **System Mode Calor (Heat), Aux (Emer), Auto, Frio (Cool), Off** or Time in menu mode.

6. Displays **Fan Mode (On, Auto)** or **"Arrancar"** in **Menu mode.**

7. Displays **"Arrancar Programa" (Run Schedule)**, **"Programa" (Schedule)**, or **"Menu"**.

8. Displays **"Guardar" (Save)** when **Cool Savings™** is working.

9. Displays **"Bomba de Calor" (Heat Pump)** when system is configured as Heat Pump thermostat.

10. Displays **"Retener" (Hold)** in programmable mode when not in **"Retener" (Hold)** mode. Displays **Light Bulb** in non-programmable mode.

11. Initially displays **"Auto Prog"**. If Auto Schedule had been used or disabled, then it displays **"Cool Savings"** when in the **Frio (Cool) Mode** if **Cool Savings** has been enabled in the menu.

12. **"Llamar Servicio" (Call For Service)** indicates a fault in the heating/cooling system, it does not indicate a fault in the thermostat.

INSTALLER/CONFIGURATION MENU

With thermostat in Heat, Cool or Auto, in normal operation, press the Menu button for at least 5 seconds. The display will show item #1 in the table below. Press Menu to advance to the next menu item. Press (⌃) or (⌄) to change an item option. Shaded items are not available to 1F86.

MENU REF.	HP	SS	PRESS BUTTON	DISPLAYED (FACTORY DEFAULT)	Press (⌃) or (⌄) to select from listed options	COMMENTS
				INSTALLER/CONFIGURATION MENU		
1	1	1	MENU	(EM2)	bC1, ES1	Selects Multi-Stage (EM2 No Heat Pump), Heat Pump 1 (bC 1, 1 compressor), or Single Stage (ES1)
2	2	2	MENU	(GAS) for ES1 or EM2 (ELE) for bC	ELE	GAS setting: furnace controls the blower ELE setting: thermostat controls the blower
3	3	3	MENU	CE (0) (Disabled)	1, 2, 3, 4, 5, 6	Selects Cool Savings Value 1 (low) to 6 (high), Value 0 Disables Feature
4	4	4	MENU	E (On)	OFF	Selects Energy Management Recovery (EMR) On or OFF.
5	–	5	MENU	CR Calor (ME)	AL, bA	Adjustable Anticipation: Selects heating cycle rate for MS or SS
6	5	–	MENU	CR Bomba de Calor (ME)	AL, bA	Adjustable Anticipation (Heat Pump) (only when heat pump selected in #1)
7	6	6	MENU	CR Frio (ME) or CR Aux (FA)	AL, bA AL	Adjustable Anticipation: Selects the cycle rate for cooling (only when Em 2 or ES 1 is selected in item 1.) or Selects the cycle rate for Emergency mode and Auxiliary stage if Heat Pump is selected in item 1.
8	7	7	MENU	Cd (OFF)	Cd On	Compressor Lockout Time
9	8	8	MENU	Frio Off Calor Auto	Calor Frio Off, Calor Off with Vent icon, Calor Off without Vent icon Frio Off, Auto Off	System Mode Configuration with Automatic Changeover capability
10	9	9	MENU	L (On)	L OFF	Selects Display Light On or OFF
11	10	10	MENU	0 (current temperature)	1 AL, 2 AL, 3 AL, 4 AL, 1 bC, 2 bC, 3 bC, 4 bC	Adjustable Ambient Temperature Display
12	11	11	MENU	°F	°C	Selects Fahrenheit/Celsius Temperature Display
13	12	12	MENU	L Calor (90)	L 62 to L 89	Selects Limited Calor (HEAT) Range
14	13	13	MENU	L Frio (45)	L 46 to L 82	Selects Limited Frio (COOL) Range
15	14	14	MENU	P3	P0, P2	Defaults for 5-1-1 programming (P3) but non-programmable (PO) or 5-2 programming (P2) is available on most models.
16	15	15	MENU	Calor AP (On)	OFF	Automatic Schedule for heat mode. NA to Cool only system.
17	16	16	MENU	Frio AP (On)	OFF	Automatic Schedule for cool mode. NA to Heat only system.
18	17	–	MENU	Calor AL (On)	OFF	Fast Heat option may be disabled by selecting OFF. NA to ES config. NA to Cool only system.
19	18	–	MENU	Frio AL (On)	OFF	Fast Cool option may be disabled by ES or bC selecting OFF. NA to ES config. NA to Heat only system.
20	19	17	MENU	Hv (On)	OFF	Selects Automatic **d**aylight **S**avings Time option On or OFF.
21	20	18	MENU	Cambiar Filtro (OFF)	On	Selects Filter Change-out Indicator On or OFF.
			MENU	Cambiar Filtro (200 h)	25-1975 h	Change Filter time in 25 hour increments. This menu only appears if On is selected in above.
22	21	19	MENU	Frio On (o)	Calor On (b)	Selects operation of the reversing valve terminal (O/B) output as an O or B terminal.
	22	20	Arrancar			Returns to Normal Operation

INSTALLER/CONFIGURATION MENU

1) This control can be configured for:
   EM2 – Multi-Stage System (no heat pump)
   bC1 – Heat Pump with one stage of compressor
   ES1 – Single Stage System
2) GAS or Electric (ELE) fan operation. If the heating system requires the thermostat to energize the fan, select ELE. Select GAS if the heating system energizes the fan on a call for heat.
3) **Select Cool Savings™ value** – Selects the amount of adjustment for the Cool Savings™ feature in Cool mode with 1 (1°) being the least amount of adjustment and 6 (6°) being the most amount of adjustment. Default value is 0 which disables this feature. Cool Savings is an optional energy saving feature that can reduce your cooling costs. It is based on the principal that lower indoor humidity makes a slightly higher temperature feel more comfortable. Cool Savings operates during periods of high demand which normally occur on the hottest summer days when a cooling system may run for hours to reach the thermostat setting. Long cooling run times also lower the indoor humidity. Cool Savings, very slowly, adjusts the setpoint temperature to make the setpoint closer to the displayed room temperature, to a maximum of the number of degrees you select. Adjusting the setpoint temperature over a long cooling run time allows the system to reach your set temperature and turn off. The room temperature will actually be higher than the thermostat displays but the reduction in humidity will allow comfort at the slightly higher temperature.
   To turn this feature on in the Cool mode press **Cool Savings.** The display will show **"Guardar" (Save)** next to the setpoint temperature. When Cool Savings is making adjustments to the room temperature display **"Guardar" (Save)** will be flashing and the displayed room temperature may vary within the adjustment range you selected. If **"Guardar" (Save)** is not displayed and this feature is OFF, no change will occur when the cooling system is continuously running during periods of high demand.
4) **Energy Management Recovery:** (this step is skipped if configured to be non-programmable). Energy Management Recovery (E) On enables the thermostat to start heating or cooling early to make the building temperature reach the program setpoint at the time you specify. Heating will start 5 minutes early for every 1° of temperature required to reach setpoint.
   Example: E On is selected and your heating is programmed to 65° at night and 70° at 7 AM. If the building temperature is 65°, the difference between 65° and 70° is 5°. Allowing 5 minutes per degree, the thermostat setpoint will change to 70° at 6:35 AM. Cooling allows more time per degree, because it takes longer to reach set temperature.
5, 6 & 7) **Cycle Rate Selection** – The factory default setting for Heat and Cool modes, ES1, EM2, is medium cycle (ME). For Heat Pump and bC1, the default setting is medium (ME). For Emer (Aux) the default setting is fast cycle (bA). To change cycle rate, press the ⌃ or ⌄ key.
   Cycle rate differentials for different settings are:

	Fast	Medium	Slow
MODE	bA	ME	AL
Calor (ES1, EM2)	0.4°F	0.6°F	1.7°F
Frio (ES1, EM2)	0.9°F	1.2°F	1.7°F
Bomba de Calor (bC1)	0.9°F	1.2°F	1.7°F
Aux (bC1)	0.6°F	-	1.7°F

8) **Select Compressor Lockout Cd OFF or ON** – Selecting Cd ON will cause the thermostat to wait 5 minutes between cooling cycles. This is intended to help protect the compressor from short cycling. Some newer compressors already have a time delay built in and do not require this feature. Your compressor manufacturer can tell you if the lockout feature is already present in their system. When the thermostat compressor time delay occurs, it will flash the setpoint up for up to five minutes.
9) **System Mode Configuration** – This thermostat is configured for Calor (Heat) and Frio (Cool) (SISTEMA switch with Frio Off Heat) default. It can also be configured for Calor (Heat) and Frio (Cool) with Auto changeover (Calor, Auto, Frio, Off), Heat only with fan (Off Calor), Calor only without fan, Auto only (Auto Off), and Frio only (Frio Off).
10) **Select Backlight Display** – The display backlight improves display contrast in low lighting conditions. When the "C" terminal is powered, selecting backlight dL ON will keep the light on continuously. Select backlight OFF will turn the light on momentarily after any key is pressed. When the "C" terminal is not powered, the light will be on momentarily after any key is pressed no matter whether the backlight is selected ON or OFF.
11) **Select Temperature Display Adjustment 4 bA to 4 AL (HI)** – Allows you to adjust the room temperature display up to 4° higher or lower. Your thermostat was accurately calibrated at the factory, but you have the option to change the display temperature to match your previous thermostat. The current or adjusted room temperature will be displayed.
12) **Select F° or C° Readout** – Changes the display readout to Celsius or Fahrenheit as required.
13) **Limited Calor (Heat) Range** – This feature provides a maximum setpoint temperature for heat. The default setting is 90°F. It can be changed between 62°F and 89°F by pressing the ⌃ or ⌄ key.
14) **Limited Frio (Cool) Range** – This feature provide a minimum setpoint temperature for cool. The default setting is 45°F. It can be changed between 46°F and 82°F by pressing the ⌃ or ⌄ key.
15) **Program Options:** Configured for 5/1/1 day or 5/2 day programming or non-programming mode. The default setting is P3, indicating 5/1/1 day programming. The programs per week can be toggled to P2 or P0 by pressing the ⌃ or ⌄ keys. A selection of 0 Days for non-programmable will eliminate the need for EMR, and that step in the menu will be skipped.
16 & 17) **Select Automatic Schedule** – With just one touch of the **Auto Prog** key this feature allows you to program a desired comfort temperature into all the program periods along with a 6° set back for night periods of both Heat and Cool programs. Factory default is "On" for both. When **Heat AP On** and **Cool AP On** are activated while in Heat or Cool mode, select desired setpoint temperature and press **Auto Prog.** This value will be copied into all the morning, day and evening program periods. The night program periods will have a 6°F set back.
18 & 19) **Select Fast Second Stage ON or OFF** – Heat pump or Multi-stage only, in the run mode, with the fast Heat feature enabled (AL Calor On), if the Heat setpoint temperature is manually raised by 3°F (2°C) or more above the actual temperature using ⌃ the second stage will energize immediately. With AL OFF, second stage will not energize until the setpoint temperature is 1°F or more above actual temperature for more than ten minutes. The Fast Cool feature (AL Frio) provides the same controls when the setpoint temperature is lowered.
20) **Select Daylight Saving Time Calculation** – This feature will allow the thermostat to calculate the DST automatically and apply it to the Real Time Clock display. Default On. Use ⌃ or ⌄ touch keys to select the feature OFF.

INSTALLER/CONFIGURATION MENU

21) **Select Filter Replacement Reminder and Set Run Time** – Select the **"Cambiar Filtro" (Change Filter)** reminder On or OFF. If selected On, press **MENU** to select the time period from 25 to 1975 hours in 25 hours increments. In a typical system, 200 hours (default) of run time is approximately 30 days. After the selected time of blower operation, the thermostat will display **"Cambiar Filtro" (Change Filter)** as a reminder to change or clean your air filter. When **"Cambiar Filtro" (Change Filter)** is displayed, press **MENU** or **ARRANCAR** button to clear the display and restart the time to the next filter change.

22) **Select Reversing Valve Output** – The O/B option is factory set at "O" position. This will accommodate the majority of heat pump applications, which require the changeover relay to be energized in COOL. If the thermostat you are replacing or the heat pump being installed with this thermostat requires a "B" terminal, to energize the changeover relay in HEAT, the O/B option should be set at "B" position.

OPERATING YOUR THERMOSTAT

Choose the Vent Setting (Auto or On)
Set the VENT Switch to **Auto** or **On.**
Vent Auto is the most commonly selected setting and runs the fan only when the heating or cooling system is on.
Vent On runs the fan continuously for increased air circulation or to allow additional air cleaning.

Choose the System (Sistema) Setting (Calor, Off, Frio, Auto, Aux)
Press the SYSTEM button to select:

Calor: Thermostat controls only the heating system.

Off: Heating and Cooling systems are off.

Frio: Thermostat controls only the cooling system.

Auto: Auto Changeover is used in areas where both heating and cooling may be required on the same day. **AUTO** allows the thermostat to automatically select heating or cooling depending on the indoor temperature and the selected heat and cool temperatures. When using **AUTO,** be sure to set the Cooling temperatures more than 1° Fahrenheit higher than the heating temperature.

Aux: (Heat Pump models) Thermostat controls only backup heating system.

IMPORTANT!

Manual Operation for Non-Programmable Mode
Press the SISTEMA button to select Heat or Cool and use the ⬆ or ⬇ buttons to adjust the temperature to your desired setting. After selecting your desired settings you can also press the SISTEMA button to select **AUTO** to allow the thermostat to automatically change between Heat and Cool.

Manual Operation (Bypassing the Program) Programmable Thermostats
Press ⬆ or ⬇ and then the RETENER button and adjust the temperature wherever you like. This will override the program. The **HOLD** feature bypasses the program and allows you to adjust the temperature manually, as needed. Whatever temperature you set in **HOLD** will be maintained 24 hours a day, until you manually change the temperature or press **Arrancar** to cancel **HOLD** and resume the programmed schedule.

Program Override (Temporary Override)
Press ⬆ or ⬇ buttons to adjust the temperature. This will override the temperature setting for two hours minimum or until the next programmed time. To cancel the temporary setting at any time and return to the program, press **Arrancar.** If the SISTEMA button is pressed to select **AUTO** the thermostat will change to Heat or Cool, whichever ran last. If it switches to heat but you want cool, or it changes to cool but you want heat, press both ⬆ and ⬇ buttons simultaneously to change to the other mode.

PROGRAMMING (For Programmable Model Only)

Set Current Time and Date
1) Press Menu and then Hora button once. The display will show the hour only.
2) Press and hold either the ⬆ or ⬇ key until you reach the correct hour and AM/PM designation (AM begins at midnight, PM begins at noon).
3) Press Hora once again. The display window will show the minutes only.
4) Press and hold either the ⬆ or ⬇ key until you reach the correct minutes.
5) Additional presses of Hora will advance the display to show the year, month and date of month. Press the ⬆ or ⬇ key to change the display to the correct setting for each.
6) Press Arrancar to exit the Time mode.

Enter the Heating Program
1) Press SISTEMA button to select "Calor" in the system switch area indicating the active mode being programmed.
2) Press the Menu button and then press Programa.
3) The top of the display will show the day(s) being programmed. The time and temperature (flashing) are also displayed. **"1"** will also be displayed to indicate the period.
4) Press ⬆ or ⬇ key to change the temperature to your selected temperature for the 1st heating period.
5) Press Hora button, time will flash.
6) Press ⬆ or ⬇ key to adjust the start time for the 1st period.
7) The time will change in 15 minute increments.
8) After you have set the time and the temperature for the period to begin, press Programa to advance to the next program period.

PROGRAMMING (For Programmable Model Only)

9) Repeat steps 2 through 8 until all of the program times and temperatures are set for all program periods on that day.
10) Press Programa to the next day and repeat steps 2 through 9.
11) When programming is complete and all of the times and temperatures match your desired heating schedule, press Arrancar. The thermostat will now run your program.

Enter the Cooling Program
1) Press SISTEMA button to select "Frio" in the system switch area indicating the active mode being pro-grammed.
2) Follow **Enter Heating Program** instructions for entering cooling times and temperatures.

Energy Saving ENERGY STAR® Factory Pre-Program

The 1F85ST-0422 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 Arrancar button.

The table below shows the factory set heating and cooling schedule for all days of the week.

	Wake Up (Period 1)		Leave For Work (Period 2)		Return Home (Period 3)		Go To Bed (Period 4)	
Heating Program	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
Cooling Program	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F

Planning Your Program – Important

The Heating and Cooling Program schedules below allow you to pencil in your own program times and temperatures.

The 1F85ST-0422 comes configured for 5/1/1 day program-ming and can also be configured for 5/2 day programming (see configuration section).

Factory settings are listed on Monday through Friday, Satur-day and Sunday. If you are re-programming a 5/2 day sched-ule, pencil in your own times and temperatures directly below the factory times and temperatures.

If you are re-programming a 5+1+1 fill in all lines with the times and temperatures you want.

Keep the following guidelines in mind when planning your program.
• In Heating, lower temperatures will save energy.
• In Cooling, higher temperatures will save energy.
• **If you plan on using Auto Changeover, do not program the heating higher than the cooling.**

Worksheet for Re-Programming 5/2 Day and 5+1+1 Day Program

Heating Program	Wake Up (Period 1)		Leave For Work (Period 2)		Return Home (Period 3)		Go To Bed (Period 4)	
Mo-Fri	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
Sat-Sun or Sat	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F
Sun 5+1+1 only	6:00 AM	70°F	8:00 AM	62°F	5:00 PM	70°F	10:00 PM	62°F

Heating Program	Wake Up (Period 1)		Leave For Work (Period 2)		Return Home (Period 3)		Go To Bed (Period 4)	
Mo-Fri	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F
Sat-Sun or Sat	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F
Sun 5+1+1 only	6:00 AM	75°F	8:00 AM	83°F	5:00 PM	75°F	10:00 PM	78°F

TROUBLESHOOTING

Reset Operation

Note: When thermostat is reset, installer configuration menu settings and programming will reset to factory settings.

If a voltage spike or static discharge blanks out the display or causes erratic thermostat operation, you can reset the thermostat by removing the wires from terminals **R** and **C** (do not short them together) and removing batteries for 2 minutes. After resetting the thermostat, replace the wires and batteries. If the thermostat has been reset and still does not function correctly contact your heating/cooling service person or place of purchase.

Note: Be sure to review the installer configuration menu settings.

To reset the programming, clock and configuration settings, press (⌃) and (⌄) and the VENT button simultaneously. The thermostat should go blank and then all segments will be displayed momentarily.

Symptom	Possible Cause	Correction Action
No Heat/No Cool/No Fan (common problems)	1. Blown fuse or tripped circuit breaker. 2. Furnace power switch to OFF. 3. Furnace blower compartment door or panel loose or not properly installed. 4. Loose connection to thermostat or system.	Replace fuse or reset breaker. Turn switch to ON. Replace door panel in proper position to engage safety interlock or door switch. Tighten connections.
No Heat	1. Pilot light not lit. 2. Furnace Lock-Out Condition. Heat may also be intermittent. 3. Heating system requires service or thermostat requires replacement.	Re-light pilot. Many furnaces have safety devices that shut down when a lock-out condition occurs. If the heat works intermittently contact the furnace manufacturer or local HVAC service person for assistance. **Diagnostic:** Set SISTEMA Switch to **CALOR** and raise the setpoint above room temperature. Within a few seconds the thermostat should make a soft click sound. This sound usually indicates the thermostat is operating properly. If the thermostat does not click, try the reset operation listed above. If the thermostat does not click after being reset contact your heating and cooling service person or place of purchase for a replacement. If the thermostat clicks, contact the furnace manufacturer or a HVAC service person to verify the heating is operating correctly.
No Cool	1. Cooling system requires service or thermostat requires replacement.	Same as diagnostic for No Heat condition except set the thermostat to **FRIO** and lower the setpoint below the room temperature. There may be up to a five minute delay before the thermostat clicks in Cooling.
Heat, Cool or Fan Runs Constantly	1. Possible short in wiring. 2. Possible short in thermostat. 3. Possible short in heat/cool/vent system. 4. VENT Switch set to Fan **ON.**	Check each wire connection to verify they are not shorted or touching together. No bare wire should stick out from under terminal block. Try resetting the thermostat as described above. If the condition persists the manufacturer of your system or service person can instruct you on how to test the Heat/Cool system for correct operation. If the system operates correctly, replace the thermostat.
Thermostat Setting & Thermostat Thermometer Disagree	1. Thermostat thermometer setting requires adjustment.	The thermometer can be adjusted +/- 4 degrees. See Temperature Display Adjustment in the Configuration Menu section.
Furnace (Air Conditioner) Cycles Too Fast or Too 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 so there is no increase in energy use. If you would like an increased cycle time, choose **bA** for slow cycle in the Configuration menu, step 6 (Calor), 7 (Frio) or 8 (Bomba de Calor). If an acceptable cycle rate is not achieved, contact a local HVAC service person for additional suggestions.

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