Comfort365

Description

The Comfort365 thermostat controls heating, cooling and airflow to the sleeping and living areas. The thermostat is installed in the living area, a temperature sensor is installed in the bedroom area and two modulating dampers are installed to control the airflow to the living and sleeping space.

The C365 thermostat monitors the temperature at the sensor and the temperature at the thermostat every 2 minutes during heating and cooling calls. If the temperatures are different, the Comfort365 automatically adjusts the modulating dampers 2% so that more airflow is directed to the space that needs it for a uniformly comfortable home.

The energy saving nighttime airflow control option uses the temperature sensor in the sleeping space to control heating and cooling calls and directs more airflow to the upstairs sleeping space while decreasing the airflow to unoccupied living space.

The user can manually adjust airflow on occasions when more airflow is needed in the bedroom space or living space.

Pat. Pending

SYSTEM MODES Off, Heat, Cool, Auto

FAN MODES Auto or Continuous

THERMOSTAT MODES Hold, Schedule or Vacant mode.

PROGRAMS PER DAY Morning, Daytime, Evening and Night

PROGRAM FORMAT Weekdays and weekend– 5/2.

TEMPERATURE OVERRIDE Temperature is held for 3 hours when adjusted in Schedule mode.

AIRFLOW CONTROL Airflow control can be turned off using Option 15. The thermostat will operate as a typical thermostat.

AIRFLOW LIMITS Maximum airflow limits in heating and cooling can be set during installation.

NIGHTTIME OPERATION The C365 thermostat uses the temperature sensor to control heating and cooling calls and directs more airflow to the sleeping area. *If bedrooms are located downstairs, consider turning the Nighttime Airflow Control option off.*
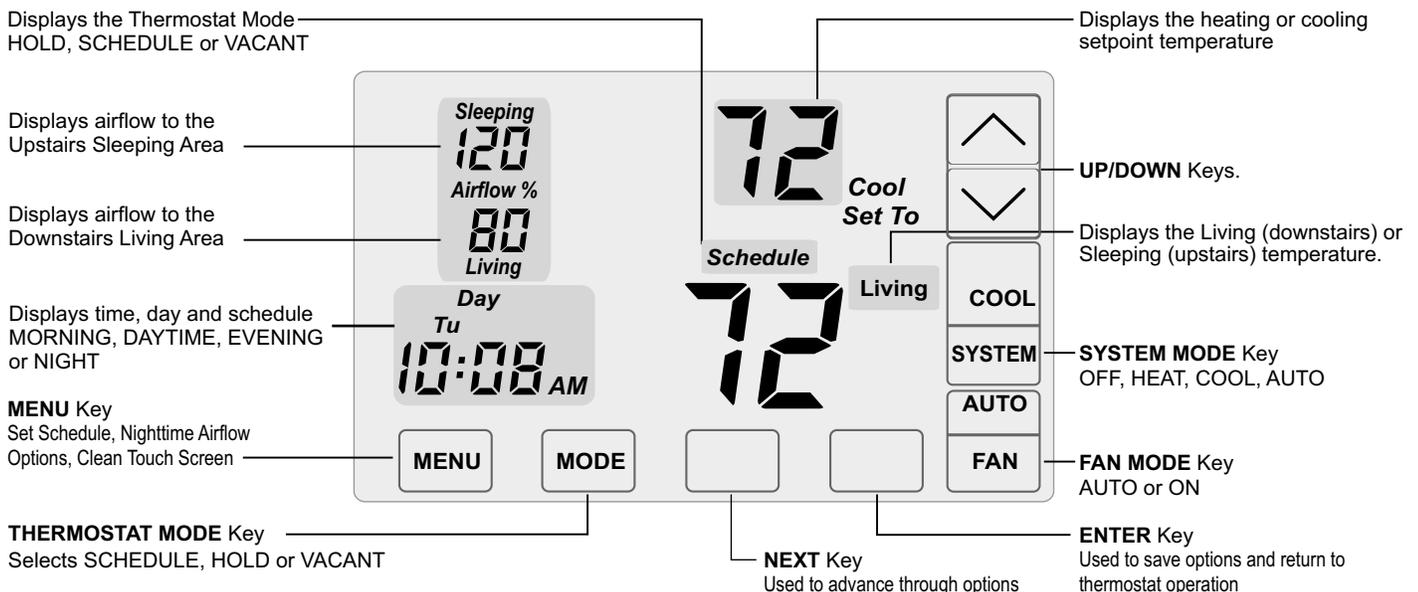
COMPATIBLE EQUIPMENT Single stage gas or electric heating with single stage compressor.

TEMPERATURE SENSOR One TS510W sensor or two TS520W temperature sensors can be used in the sleeping area.

MODULATING DAMPERS Round or rectangular dampers using the A80MT actuator and up to 1 inch static pressure.

POWER Operates on 24VAC from the HVAC equipment using the R and C wires.

Quick Reference

Displays the Thermostat Mode
HOLD, SCHEDULE or VACANT

Displays the heating or cooling setpoint temperature

Displays airflow to the Upstairs Sleeping Area

Displays airflow to the Downstairs Living Area

UP/DOWN Keys.

Displays the Living (downstairs) or Sleeping (upstairs) temperature.

Displays time, day and schedule MORNING, DAYTIME, EVENING or NIGHT

MENU Key
Set Schedule, Nighttime Airflow Options, Clean Touch Screen

SYSTEM MODE Key
OFF, HEAT, COOL, AUTO

FAN MODE Key
AUTO or ON

THERMOSTAT MODE Key
Selects SCHEDULE, HOLD or VACANT

NEXT Key
Used to advance through options

ENTER Key
Used to save options and return to thermostat operation

ATTENTION INSTALLER

❗ Replacing Thermostat Document installer options if settings are different than factory defaults.

❗ After installing and wiring dampers and sensors to the thermostat, CHECK FOR ERROR MESSAGES (p.4)

❗ Set time of day (p.4)

❗ Set Options 1-5 (p.5-7) for equipment operation if different than Factory Settings.

❗ Disabling Airflow Control Turn Airflow Control Off using Option 15. The thermostat will control the system just like any other thermostat. Dampers fully open, nighttime airflow options are disabled and airflow is no longer displayed on the thermostat

❗ USER Airflow Control enables the user to control the airflow rather than the thermostat automatically controlling the airflow. Installer must enable Option 16 and the user must turn off automatic airflow in the User Options. Nighttime Airflow Control is still enabled, but can be turned off using the User Options.

❗ Nighttime Airflow Control is defaulted to On. If bedrooms are located downstairs, consider turning off the Nighttime Airflow Control option using the User Options.

Go to www.eControlsUSA.com/contractor for installer resources.

READ THESE INSTRUCTIONS CAREFULLY
AND COMPLETELY BEFORE PROCEEDING WITH INSTALLATION.

**⚠ Turn off all power to the HVAC system before wiring or installing Comfort365 components.**

SEPARATE THE C365 SUBBASE

Place a slotted screwdiriver in the slots as shown and rotate to remove subbase from the C365 housing.
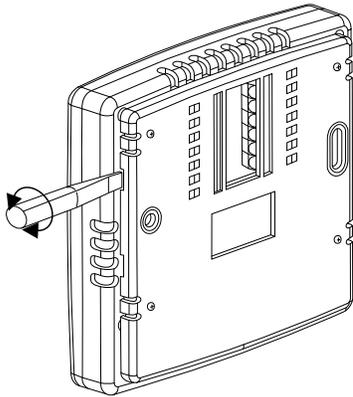

ATTACH THE SUBBASE TO THE WALL

Attach the subbase to an interior wall and about 5-feet above the floor as shown using the screws and wall anchors supplied. The wires to the dampers, HVAC equipment and the temperature sensor pass through the opening between the terminals.
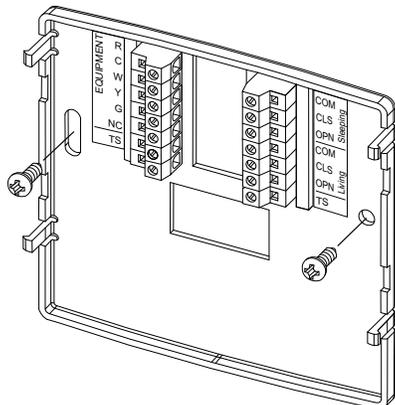
INSTALL TWO AA BATTERIES

The batteries power the clock when 24VAC power is lost. Slide the battery cover downward and install the two AA batteries as shown.
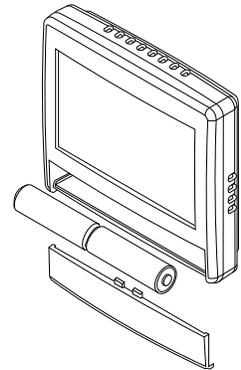

## INSTALL SLEEPING AND LIVING AREA DAMPERS

Install an R80CT damper in the duct supplying air to the sleeping area and wire the terminals to the corresponding terminals on the C365T11. Install a second R80CT damper in the duct supplying air to the living area and wire it to the C365T11. Each damper uses 2.4VA of power.

❗ *Ensure that damper installation does not cause obstruction to the damper blade.*

When two or more dampers are required to define the sleeping or living area, the dampers may be wired in parallel. LEDS on the damper actuator indicate when the damper is fully open (green) or fully closed (red).

Green LED
Red LED
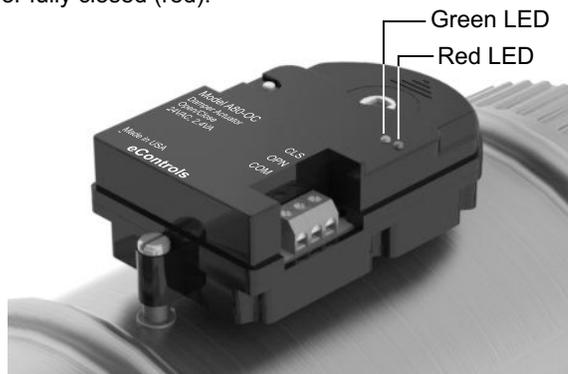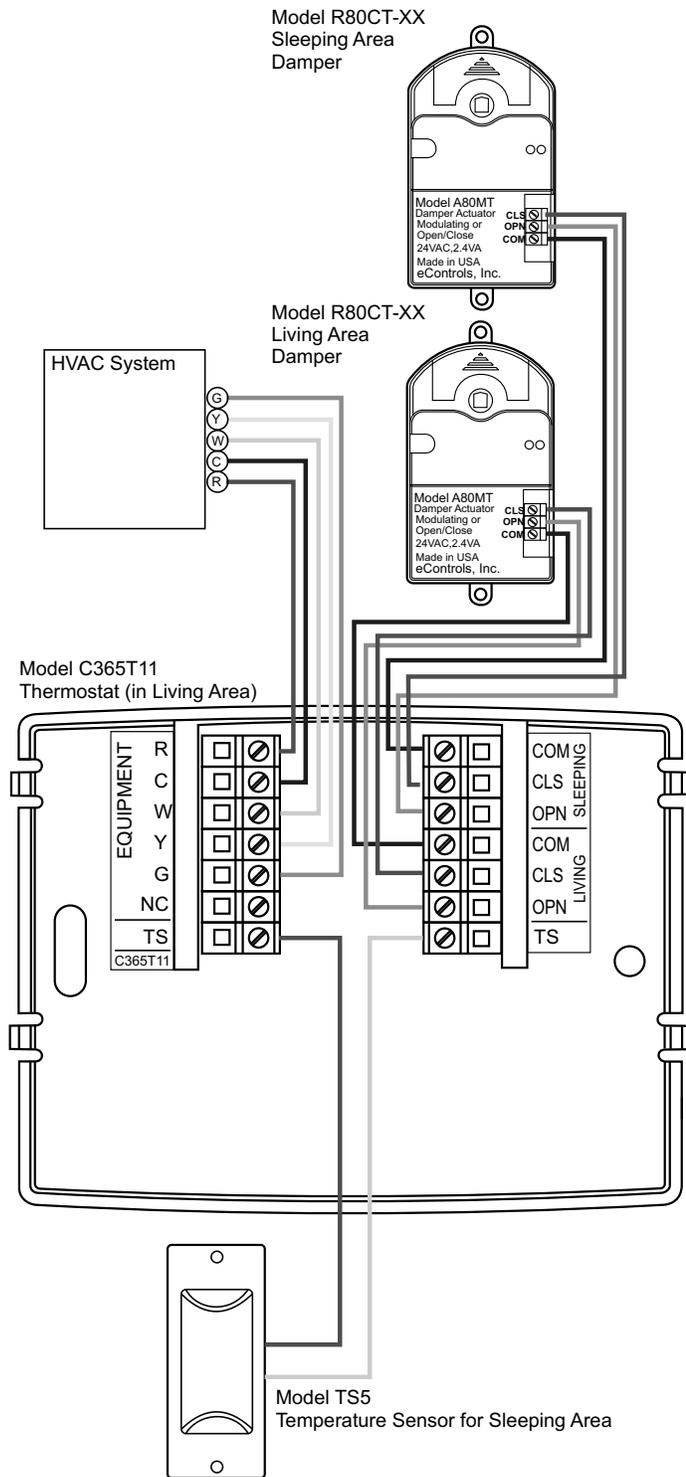
⚠ Warning!

Turn the power to the HVAC equipment off before wiring.

Equipment Wiring

Use 5-conductor, 18 or 20 gage, thermostat cable to wire from the C365 Thermostat to the equipment.

C365 Terminal	Wire Color	Equipment Terminal	Function
R	Red	R, Rc, Rh	24VAC Power
C	Blue	C	Common
W	White	W, W1	Heating
Y	Yellow	Y, Y1	Cooling
G	Green	G	Fan
NC	NO CONNECTION TO THIS TERMINAL		

Damper Wiring

Use 3-conductor, 18 or 20 gage, thermostat cable to wire from the C365 Thermostat to the upstairs sleeping and downstairs living area dampers. There are separate terminals for the sleeping and living dampers.

❗ **Ensure the damper in the sleeping area is wired to the terminals labeled SLEEPING and damper in the living area is wired to the terminals labeled LIVING.**

C365 Terminal	Wire Color	Damper Terminal	Function
COM	White	COM	Common
CLS	Red	CLS	Closes damper
OPN	Green	OPN	Opens damper

Multiple dampers can be used to construct the sleeping or living zones. Daisy chain terminals– COM to COM, OPN to OPN and CLS to CLS.
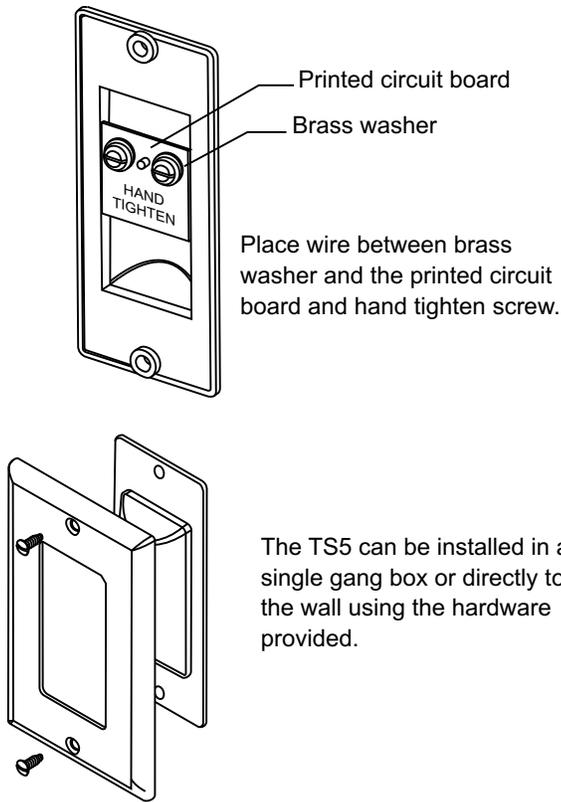
Temperature Sensor Wiring

Use 2-conductor, 18 or 20 gage, thermostat cable to wire from the C365 Thermostat to the temperature sensor in the sleeping area.

One or two temperature sensors can be used in the sleeping area and the temperatures are averaged.

❗ **Single Sensor Installation**
Use one (1) Model TS510W sensor.

❗ **Dual Sensor Installation**
Use two (2) Model TS520W sensors.

C365 Terminal	Wire Color	Sensor Terminal	Function
TS	White	SNR	Thermistor
TS	Red	SNR	Thermistor

Model R80CT-XX Sleeping Area Damper

Model A80MT Damper Actuator Modulating or Open/Close 24VAC,2.4VA Made in USA eControls, Inc.

Model R80CT-XX Living Area Damper

HVAC System

Model A80MT Damper Actuator Modulating or Open/Close 24VAC,2.4VA Made in USA eControls, Inc.

Model C365T11 Thermostat (in Living Area)

Model TS5 Temperature Sensor for Sleeping Area

Temperature Sensor Wiring (Cont)

Printed circuit board
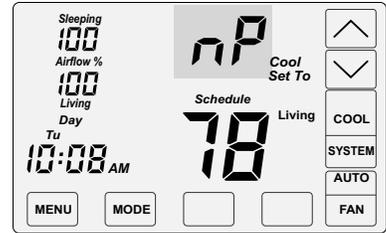
Brass washer

HAND TIGHTEN

Place wire between brass washer and the printed circuit board and hand tighten screw.

The TS5 can be installed in a single gang box or directly to the wall using the hardware provided.
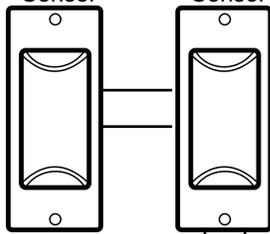
Single Temperature Sensor
Model TS510W
Sleeping Area Temperature Sensor

Wire to the C365T11

Dual Temperature Sensors
Model TS520W
Sleeping Area Temperature Sensor

Model TS520W
Sleeping Area Temperature Sensor

Wire to the C365T11

❶ Check for the following error messages:

No Power Message
nP is displayed when there is no power to the system. If the message is displayed when the system is powered, check the wiring from the thermostat to the system for errors.

Sleeping 100
Airflow %
100
Living
Day
Tu
10:08 *AM*
nP
Cool Set To
Schedule
Living
COOL
SYSTEM
AUTO
FAN
MENU MODE

Sensor Error Message
nS is displayed when there is an error with the temperature sensor(s) in the sleeping area. Check for open wires or shortages.

When the **nS** message is displayed, the thermostat will continue to control the system and automatically opens both dampers and disables airflow control until the sensor error is corrected.
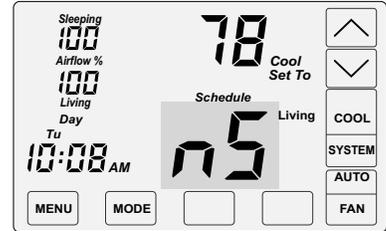
Sleeping 100
Airflow %
100
Living
Day
Tu
10:08 *AM*
78
Cool Set To
Schedule
Living
nS
COOL
SYSTEM
AUTO
FAN
MENU MODE

❶ Press the touchscreen with your fingertip only, using a firm touch. Do not use a sharp object such as a pen or pencil.

Set Time and Day

Touch here to change the time and day of the week.

Sleeping 100
Airflow %
100
Living
Day
Tu
10:08 *AM*
78
Cool Set To
Schedule
78
Living
COOL
SYSTEM
AUTO
FAN
MENU MODE

10:
AM
NEXT ENTER

CHANGE THE HOUR
Touch the **UP/DOWN** keys to change the HOUR. Touch **NEXT.**

10:09 *AM*
NEXT ENTER

CHANGE THE MINUTE
Touch the **UP/DOWN** keys to change the MINUTE. Touch **NEXT.**

We
10:09 *AM*
ENTER

CHANGE THE DAY OF THE WEEK
Touch the **UP/DOWN** keys to change the DAY OF THE WEEK.

Touch **ENTER.**

INSTALLER OPTIONS

Option	Description	Display	Range	Default
01	Compressor Stages	CPr	0 or 1	1
02	Heating Stages.	HtG	0 or 1	1
03	Fan Operation.	FAn	GA(Up) or EL(Down)	GA
04	Compressor Minimum Off Time (minutes).	COt	0 to 9	2
05	Gas Minimum Off Time (minutes).	HOt	0 to 9	0
06	Minimum Run Time (minutes).	r n t	0 to 9	2
07	On-Off Temperature Differential Differential Mode0 0.5^{o}F On/Off span. Differential Mode1 1.0^{o}F On/Off span. Differential Mode2 1.5^{o}F On/Off span.	O O ^{o}	0, 1 or 2	1
08	Smart Recovery.	S r	0n(Up) or Off(Down)	Off
09	Vacant Heating Setpoint.	V A C + Heat	44 to 75	65
10	Vacant Cooling Setpoint.	V A C + Cool	74 to 95	80
11	Calibrate Living Area Sensor	C A L + Living	+/- 5	0
12	Calibrate Sleeping Area Sensor.	C A L + Sleeping	+/- 5	0
13	Airflow Update Time	A F t	1 to 20 minutes	2
14	Night Level LCD Backlight	BL + Night	On(Up) or Off(Down)	On
15	Airflow Control On or Off	AFC	On(Up) or Off(Down)	On
16	Enable USER Airflow Control	UAC	On(Up) or Off(Down)	Off
17	Maximum Airflow in Heating to the Sleeping Area.	HAF+Heat	100 to 160%	150%
18	Maximum Airflow in Cooling to the Sleeping Area.	CAF+Cool	100 to 160%	140%
19	Maximum Airflow in Heating to the Living Area.	HAF+Heat	100 to 160%	150%
20	Maximum Airflow in Cooling to the Living Area.	CAF+Cool	100 to 160%	140%
21	Maximum Temperature Difference Between Sleeping and Living Area.	diF	0 to 10	2
22	Factory Restore	Fr	No(Next or Enter) or Yes(UP Key then Enter)	

ACCESSING INSTALLER OPTIONS

To access the Installer Options, **TOUCH** and **HOLD** the hidden Enter key for 7 seconds until the first Option appears on the screen.
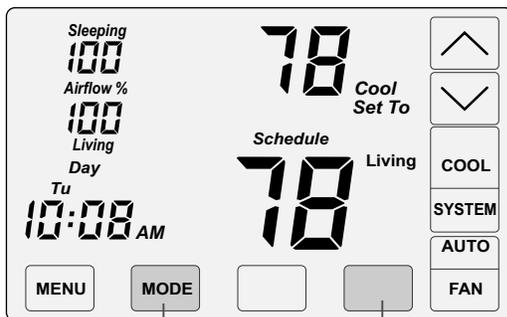
The hidden BACK key can be used to return to previous options.

TOUCH and **HOLD** this key for 7 seconds to access the Installer Options.

! **Press the touchscreen with your fingertip only, using a firm touch. Do not use a sharp object such as a pen or pencil.**

! **The NEXT key is used to display the next option.**

! **The ENTER key is used to save options and return to normal thermostat operation.**

! **The hidden BACK key is used to return to previous options and is located to the left of the NEXT key.**

01 Setting the Compressor Stages

Use the **UP/DOWN** keys to set 0 or 1 stage.

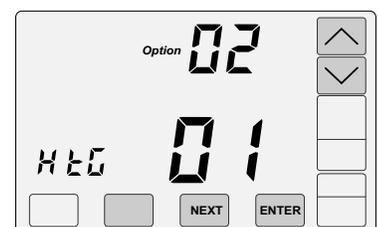Touch **NEXT** to display the next option, or **ENTER** to save the option
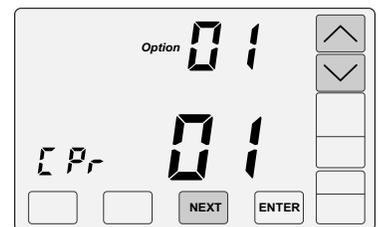
Factory Default: 1 Stage. Range: 0 or 1

02 Setting the Heating Stages

Use the **UP/DOWN** keys to set 0 or 1 stage.

Touch **NEXT** or **ENTER.**

Factory Default: 1 Stage. Range: 0 or 1

03 Setting the Fan Operation in Heating

Touch the **UP** key to select "EL" for electric operation where the thermostat activates the indoor fan (G terminal) during heating calls or **DOWN** key to select GA for gas operation where the equipment plenum sensor activates the indoor fan in heating calls.
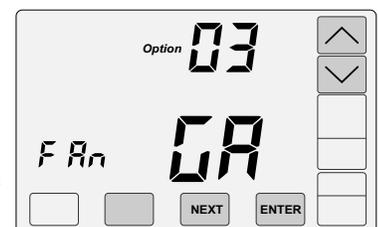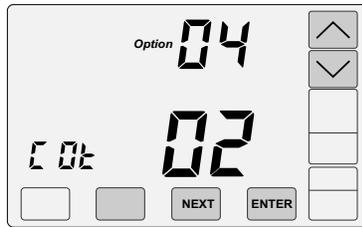

Factory Default: Gas. Range: GA or EL

5 Touch **NEXT** or **ENTER.**

04 Compressor Minimum Off Time

Use the **UP/DOWN** keys to change the minimum off time (minutes) before restarting the compressor.
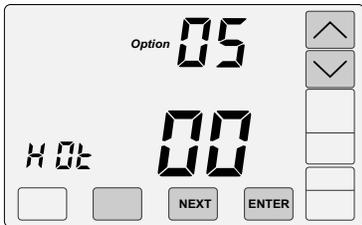
Touch **NEXT** or **ENTER.**

Option **04**

C Ot **02**

NEXT   ENTER

Factory Default: 2 Minutes. Range: 0 to 9 Minutes

05 Heating Minimum Off Time

Use the **UP/DOWN** keys to change the minimum off time (minutes) before restarting a gas furnace or electric strip heater.
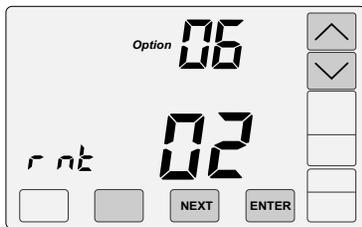
Touch **NEXT** or **ENTER.**

Option **05**

H Ot **00**

NEXT   ENTER

Factory Default: 0 Minutes. Range: 0 to 9 Minutes

06 Minimum Run Time

Use the **UP/DOWN** keys to change the minimum run time (minutes) before turning a system off.

Touch **NEXT** or **ENTER.**

Option **06**

r nt **02**

NEXT   ENTER

Factory Default: 2 Minutes. Range: 0 to 9 Minutes

07 Setting On-Off Temp Differential

Use the **UP/DOWN** keys to select 0, 1, 2.

Touch **NEXT** or **ENTER.**

Differential Mode0 0.5°F On/Off span.

Differential Mode1 1.0°F On/Off span.

Differential Mode2 1.5°F On/Off span.

Option **07**

OO d **01**

NEXT   ENTER
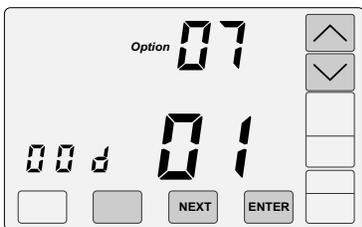
Factory Default: #1. Range: 0, 1 or 2.

08 Smart Recovery

Smart recovery initiates a heating or cooling call so that the space is at temperature when the setback period ends.

Use the **UP** key to select ON to turn on smart recovery or the **DOWN** key to select OF to turn smart recovery off.
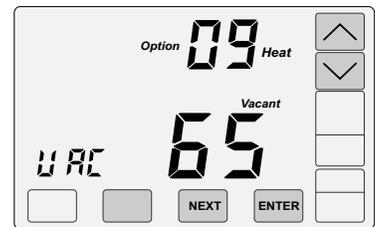
Touch **NEXT** or **ENTER**.

Option **08**

S r **OF**

NEXT   ENTER
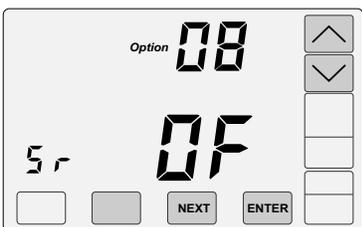
Factory Default: Off. Range: On or Off.

09 Vacant Heating Setpoint

Use the **UP/DOWN** keys to select the heating temperature when the space is vacant.

Touch **NEXT** or **ENTER.**

Option **09** *Heat*

Vacant
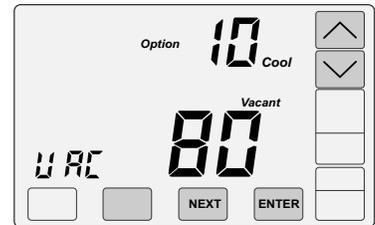
U AC **65**

NEXT   ENTER

Factory Default: 65°F.   Range: 44°F to 75°F

10 Vacant Cooling Setpoint

Use the **UP/DOWN** keys to select the cooling temperature when the space is vacant.
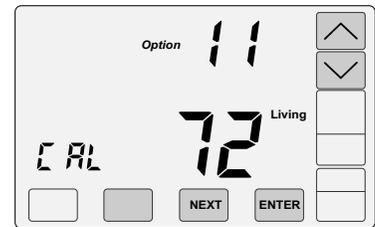
Touch **NEXT** or **ENTER.**

Option **10** *Cool*

Vacant

U AC **80**

NEXT   ENTER

Factory Default: 80°F.   Range: 74°F to 95°F

11 Calibrate Living Area Temperature Sensor

Use the **UP/DOWN** keys to change the Living area temperature to the temperature that the user feels is correct.
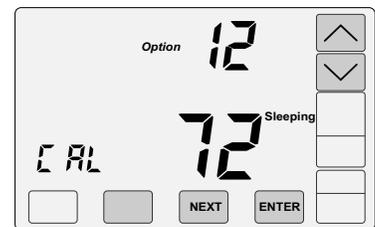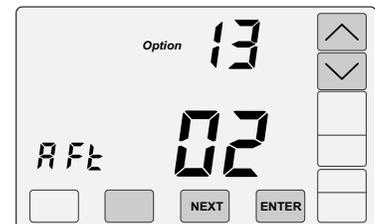
Touch **NEXT** or **ENTER.**

Option **11**

Living

C AL **72**

NEXT   ENTER

Factory Default: None.   Range - +/-5°

12 Calibrate Sleeping Area Temperature Sensor

Use the **UP/DOWN** keys to change the Sleeping area temperature to the temperature that the user feels is correct.

Touch **NEXT** or **ENTER.**

Option **12**

Sleeping

C AL **72**

NEXT   ENTER

Factory Default: None.   Range - +/-5°

13 Airflow Update Time

This is the frequency, in minutes, that the damper position is updated.

Use the **UP/DOWN** keys to set the time in minutes to update the sleeping and living area airflow.
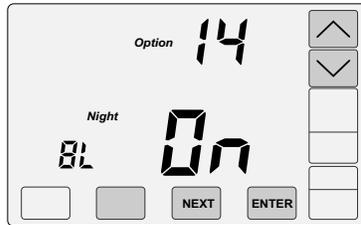
Touch **NEXT** or **ENTER.**

Option **13**

A Ft **02**

NEXT   ENTER

Factory Default: 2 Minutes. Range: 1 to 20 Minutes.

14 Night Level LCD Backlight

The LCD has a low level backlight that can be used as a night light.

Use the **UP** key to turn the low level backlight ON or the **DOWN** key to turn OFF.

Touch **NEXT** or **ENTER.**

Option **14**

Night
BL On

NEXT   ENTER

Factory Default: On. Range: On or Off.

15 Airflow Control

This option turns the automatic airflow control on or off. If off, dampers fully open, nighttime airflow options are disabled and airflow is no longer displayed on the thermostat.

Use the **UP** key to select ON for airflow control or the **DOWN** key to select OFF to disable airflow control.

Touch **NEXT** or **ENTER.**

If Airflow Control was off and is now being turned on, the Nighttime Airflow option needs to be turned on using the User Options.

Sleeping
100
Airflow %
100
Living   *Option* **15**

A FC On

NEXT   ENTER
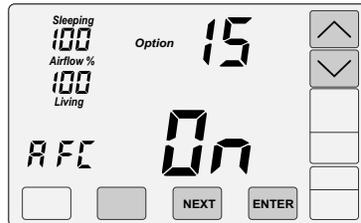
Factory Default: On. Range: On or Off.

16 Enable USER Airflow Control

Homeowners with an unusual work schedule or home office, etc. may want to use this option. When turned On, this option enables the user to turn off automatic airflow control in the User Options. Airflow is adjusted by the homeowner. The Nighttime Airflow option is still enabled but can be turned off using the User Options.

Use the **UP** key to select ON to enable the user to turn off automatic airflow control in the user options.
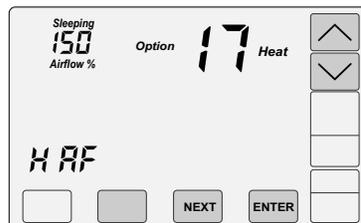
Touch **NEXT** or **ENTER.**

Option **16**

U AC OF

NEXT   ENTER
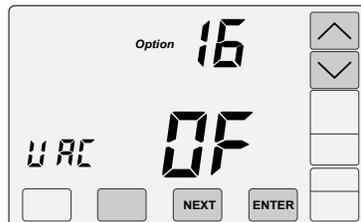
Factory Default: Off. Range: On or Off.

For options 17 - 20, use the installer test on page 8 to determine the maximum allowable airflow.

17 Maximum Airflow in Heating to Sleeping Area

Use the **UP/DOWN** keys to select the maximum allowable airflow in heating to the sleeping area.

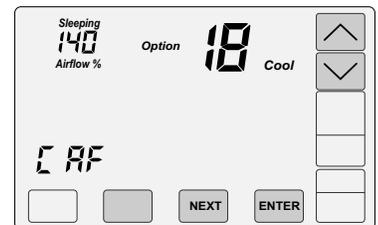Touch **NEXT** to display the next option, or **ENTER** to save the option.

Sleeping
150
Airflow %   *Option* **17** *Heat*

H AF

NEXT   ENTER

Factory Default: 150%. Range: 100% to 160%.

18 Maximum Airflow in Cooling to Sleeping Area

Use the **UP/DOWN** keys to select the maximum allowable airflow in cooling to sleeping area.
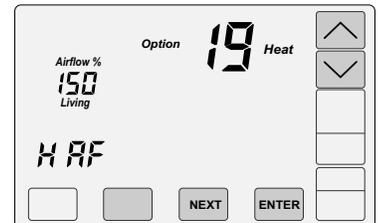
Touch **NEXT** or **ENTER.**

Sleeping
140
Airflow %   *Option* **18** *Cool*

C AF

NEXT   ENTER

Factory Default: 140%. Range: 100% to 160%.

19 Maximum Airflow in Heating to Living Area

Use the **UP/DOWN** keys to select the maximum allowable airflow in heating to the living area.
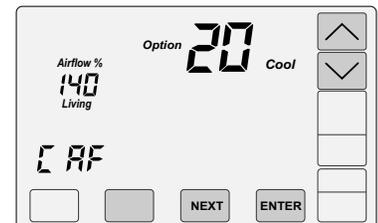
Touch **NEXT** or **ENTER.**

Option **19** *Heat*
Airflow %
150
Living

H AF

NEXT   ENTER

Factory Default: 150%. Range: 100% to 160%.

20 Maximum Airflow in Cooling to Living Area

Use the **UP/DOWN** keys to select the maximum allowable airflow in cooling to the living area.
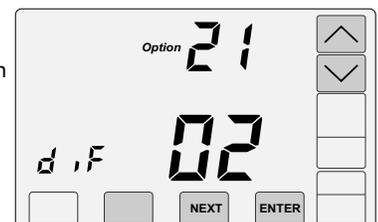
Touch **NEXT** or **ENTER.**

Option **20** *Cool*
Airflow %
140
Living

C AF

NEXT   ENTER

Factory Default: 140%. Range: 100% to 160%.

21 Maximum Temperature Differential

This the maximum allowable temperature difference between the sleeping area and the living area temperatures. When the temperature difference is equal to or greater than the allowed differential, the airflow is adjusted.

Use the **UP/DOWN** keys to select the maximum allowable temperature difference between the sleeping and living areas.
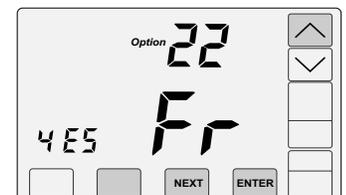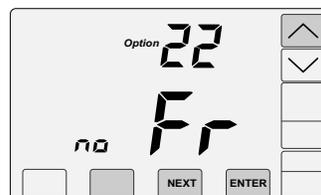
Touch **NEXT** or **ENTER.**

Option **21**

d iF 02

NEXT   ENTER

Factory Default: 2ºF.   Range: 0º to 10º F

22 Factory Restore

WARNING! Factory Restore resets ALL settings.

To exit this option, touch **NEXT** or **ENTER,** or the hidden Back key.

To restore factory settings, touch the **UP** key to display YES then touch Enter.

Option **22**
no Fr
NEXT   ENTER

Option **22**
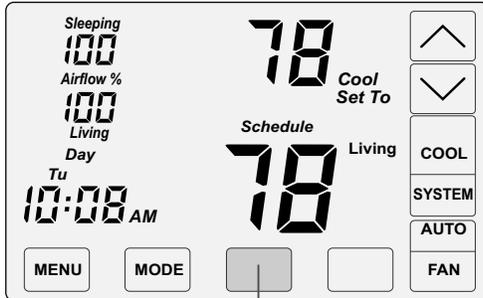**4ES Fr**
NEXT   ENTER

ACCESSING THE TEST MENU

The Test Menu is used to test the Indoor Fan Operation, Allowable Heating Airflow Limits and Allowable Cooling Airflow Limits.

The Test Menu can also be used to perform the HERS Total Airflow test. Option 05-06 activates a cooling call and opens both dampers to 100% enabling the installer to perform the test.

To access the Test Menu, **TOUCH** and **HOLD** the hidden Next key for 7 seconds until the fan test screen (Option 01) appears.

Sleeping 100
Airflow % 100
Living
Schedule
Day Tu
10:08 AM
78 **Cool Set To**
78 **Living**
COOL · SYSTEM · AUTO · FAN
MENU · MODE

TOUCH and **HOLD** this key for 7 seconds to access the Installer Options.

01-02 Testing Indoor Fan Operation

This test is used to verify that the indoor fan is operating correctly.

In Option 1, the Fan is Off.

Touch **NEXT** to go to Option 2 to turn on the indoor fan. Verify the fan is operating and delivering airflow to the sleeping and living area.

Touch **NEXT** to go Testing Heating Airflow Limits.
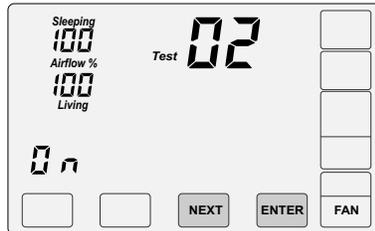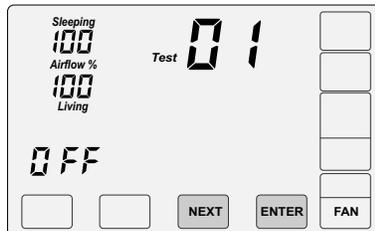
Sleeping 100
Airflow % 100
Living
Test 01
OFF
NEXT · ENTER · FAN

Sleeping 100
Airflow % 100
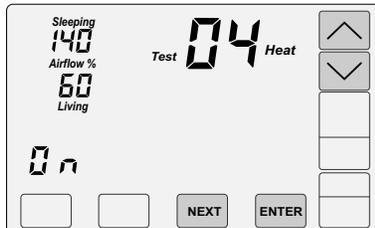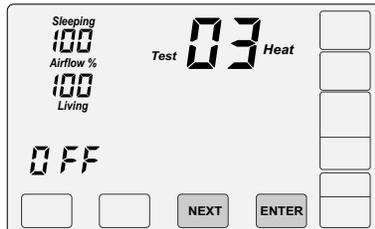**Living**
Test 02
On
NEXT · ENTER · FAN

03-04 Testing Heating Airflow Limits

This test is used to determine the maximum allowable airflow to the sleeping area and the living area in HEATING.

In Option 3, the system is Off.

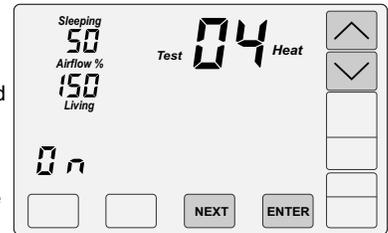Touch **NEXT** to go to Option 4 to activate heating. Verify the equipment is operating.

To determine the maximum allowable airflow to the Sleeping Area, touch the **UP** key until the airflow is too great and causes noise or annoyance. Lower the airflow using the **DOWN** key until it is acceptable. This is the maximum allowable airflow in heating to the sleeping area. Record the airflow value.

Sleeping 100
Airflow % 100
Living
Test 03 **Heat**
OFF
NEXT · ENTER

Sleeping 140
Airflow % 60
Living
Test 04 **Heat**
On
NEXT · ENTER

Maximum Allowable Airflow in Heating to the Sleeping Area ☐

03-04 Testing Heating Airflow Limits (cont.)

To determine the maximum allowable airflow to the living area, touch the **DOWN** key until the airflow is too great and causes noise or annoyance. Increase the airflow using the **UP** key until it is acceptable. This is the maximum allowable airflow in heating to the living area. Record the airflow value.

Sleeping 50
Airflow % 150
Living
Test 04 **Heat**
On
NEXT · ENTER

Maximum Allowable Airflow in Heating to the Living Area ☐

Touch **NEXT** to go to Testing Cooling Airflow Limits.
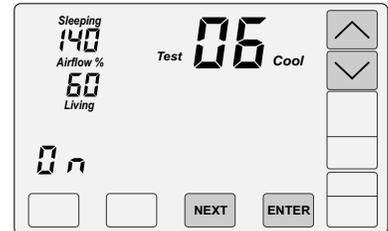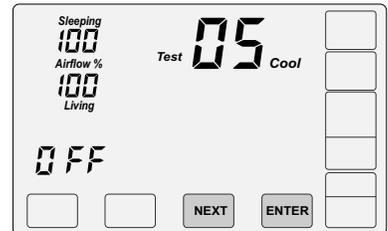
05-06 Testing Cooling Airflow Limits

This test is used to determine the maximum allowable airflow to the Sleeping Area and the Living Area in COOLING.

The test can also be used to perform the HERS Total Airflow test. The test activates a cooling call and opens both dampers to 100%.

In Option 5, the system is Off.

Touch **NEXT** to go to Option 6 to activate cooling. Verify the equipment is operating.

To determine the maximum allowable airflow to the sleeping area, touch the **UP** key until the airflow is too great and causes noise or annoyance. Lower the airflow using the **DOWN** key until it is acceptable. This is the maximum allowable airflow in cooling to the sleeping area. Record the airflow value.

Sleeping 100
Airflow % 100
Living
Test 05 **Cool**
OFF
NEXT · ENTER

Sleeping 140
Airflow % 60
Living
Test 06 **Cool**
On
NEXT · ENTER

Maximum Allowable Airflow in Cooling to the Sleeping Area ☐

To determine the maximum allowable airflow to the Living Area , touch the **DOWN** key until the airflow is too great and causes noise or annoyance. Increase the airflow using the **UP** key until it is acceptable. This is the maximum allowable airflow in cooling to the Living Area. Record the airflow value.

Sleeping 50
Airflow % 150
Living
Test 06 **Cool**
On
NEXT · ENTER
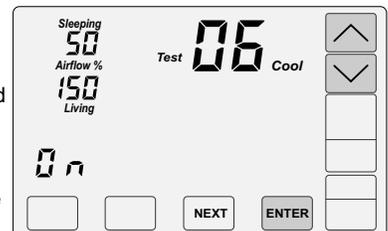
Maximum Allowable Airflow in cooling to the Living Area ☐

Touch **ENTER** to end testing and return to normal thermostat operation.

Enter the maximum airflow limits using Options 17 through 20 of the installer menu.

Comfort365

User Options and Settings

Quick Reference
Using Your Comfort365 Thermostat

1 Set Time and Day

2 Set System Mode

3 Set Fan Mode

4 Set Thermostat Mode

5 Changing Setpoint Temperature

6 Temperature Override

7 Displaying Upstairs Temperature

8 Overriding Automatic Airflow

9 Terminating Automatic Airflow

User Menu Options

1 Set Schedule

2 Selecting Manual or Auto Airflow

3 Turning Nighttime Airflow Option On or Off

4 Setting the Nighttime Airflow in Heating

5 Setting the Nighttime Airflow in Cooling

Changing Batteries

ATTENTION HOMEOWNER

Your Comfort365 thermostat includes several features to optimize your comfort, including:

Nighttime Airflow Control. At night, the sensor in the sleeping space is used to control heating and cooling calls and directs more airflow to the sleeping space and less to the unoccupied living space. In addition, the airflow to the sleeping space can be adjusted for more comfort. This option is defaulted to On. See User Menu Option 3 for more information on Nighttime Airflow Control.

Airflow Override On occasion you may want to direct more airflow to the living or sleeping space. Simply touch the airflow area and use the UP and DOWN keys to adjust the airflow to sleeping or living space. After 3 hours, the airflow returns to automatic operation. See Using Your Comfort365 Thermostat, Option 8 and 9 for more information.

Quick Reference

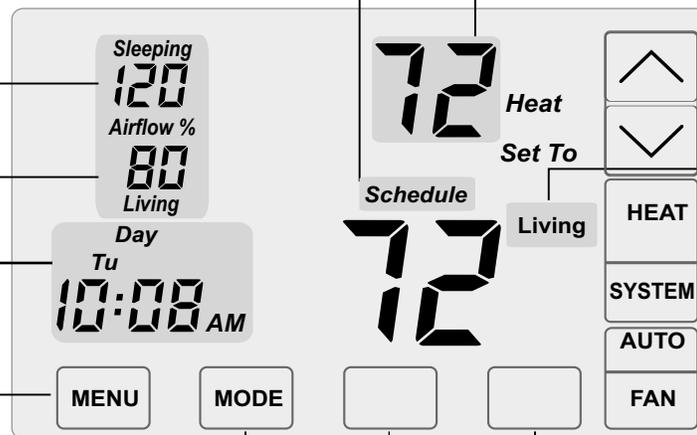Displays the Thermostat Mode HOLD, SCHEDULE or VACANT

Displays airflow to the Upstairs Sleeping Area

Displays airflow to the Downstairs Living Area

Displays time, day and schedule MORNING, DAYTIME, EVENING or NIGHT

MENU Key Set Schedule, Nighttime Airflow Options, Clean Touch Screen

THERMOSTAT MODE Key Selects SCHEDULE, HOLD or VACANT

Displays the heating or cooling setpoint temperature

UP/DOWN Keys.

Displays the Living (downstairs) or Sleeping (upstairs) temperature.

SYSTEM MODE Key OFF, HEAT, COOL, AUTO

FAN MODE Key AUTO or ON

ENTER Key Used to save options and return to thermostat operation

NEXT Key Used to advance through options
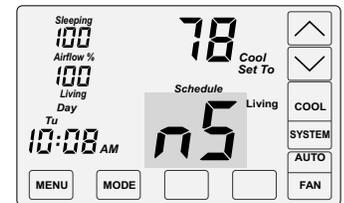

⊘ Error Messages

No Power Message

nP is displayed when there is no power to the system. If the message is displayed when there is no interruption in power to the home, contact your HVAC contractor/builder. Wiring from the thermostat to the system needs to be checked for errors.
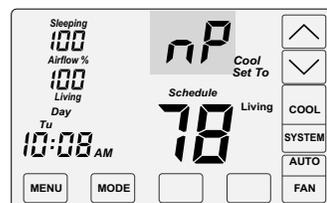
Sensor Error Message

nS is displayed when there is an error with the sensor(s) in the sleeping area. If the message is displayed, contact your HVAC contractor/builder. The sensor wiring needs to be checked for errors.

When the **nS** message is displayed, the thermostat will continue to control the system but the airflow control will be disabled until the sensor error is corrected.

Using Your Comfort365 Thermostat

1 Set Time and Day

2 Set System Mode

3 Set Fan Mode

4 Set Thermostat Mode

5 Changing Setpoint Temperature

6 Temperature Override

7 Displaying Upstairs Temperature

8 Overriding Automatic Airflow

9 Terminating Automatic Airflow

1 Set Time and Day

Touch here to change the time and day of the week.
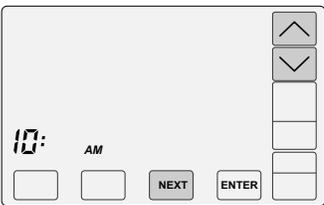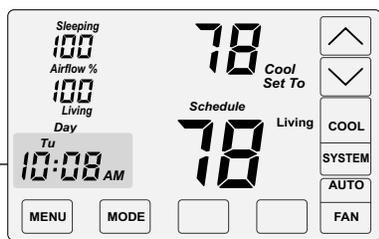
CHANGE THE HOUR
Touch the **UP/DOWN** keys to change the HOUR. Touch **NEXT.**

CHANGE THE MINUTE
Touch the **UP/DOWN** keys to change the MINUTE. Touch **NEXT.**

CHANGE THE DAY OF THE WEEK
Touch the **UP/DOWN** keys to change the DAY OF THE WEEK.

Touch **ENTER.**

🛇 Setting the time resets the setpoint temperature to the factory default heating or cooling setpoint.

2 Set System Mode

Touch the **SYSTEM** key to display the SYSTEM MODES: OFF, HEAT, COOL or AUTO. In AUTO or OFF, the setpoint for the last system call is displayed.
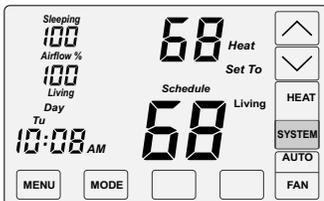
Touch here to change the system mode:

OFF Heating and cooling systems are off.

HEAT Only heating calls are enabled and heating setpoint is displayed.

COOL Only cooling calls are enabled and cooling setpoint is displayed.

AUTO Heating or Cooling calls are enabled.

3 Set Fan Mode

Touch the **FAN** key to display the FAN MODES - AUTO or ON.
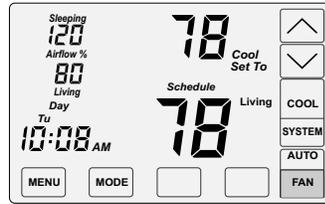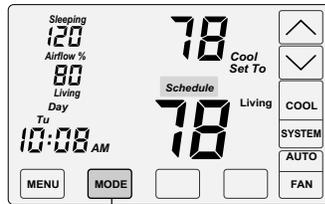
AUTO Fan is activated only during heating or cooling calls. This is the most commonly used setting.

ON Fan is continuously on.

Touch here to change the fan mode:

4 Set Thermostat Mode

Touch the **MODE** key to display the THERMOSTAT MODES: SCHEDULE, HOLD and VACANT.

SCHEDULE
Setpoint temperatures are changed at scheduled times defined by the user.

HOLD
Setpoint temperatures are set by the user. No schedule is used.

VACANT
Setpoint temperatures are kept at the vacant temperatures set by the installer.

Touch here to select thermostat mode:

5 Changing the Setpoint Temperature

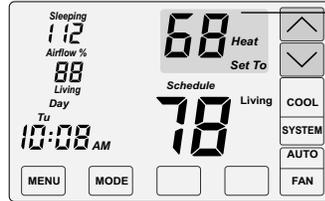The UP/DOWN keys are used to change the setpoint temperature.
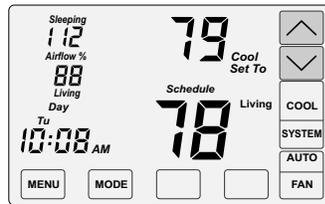
Touch the **UP** key to raise setpoint temperature.

Touch the **DOWN** key to lower setpoint temperature.

An active heating call is indicated by HEAT blinking. An active cooling call is indicated by COOL blinking.

To display the opposing system setpoint, touch the area shown below.
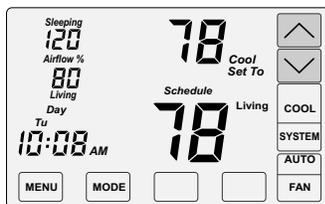
Touch here to display and change the opposing setpoint temperature.

Touch the **UP/DOWN** keys to change the setpoint temperature for the opposing system. The thermostat will return to displaying the active setpoint after about 30 seconds.

6 Temperature Override

To override the setpoint temperature when in SCHEDULE MODE:

Touch the **UP/DOWN** keys to adjust the setpoint temperature.

After 3 hours, the thermostat returns to normal thermostat operation.

7 Displaying the Upstairs Temperature

The thermostat typically displays the temperature in the downstairs living space. When the thermostat enters Night Mode (see User Option 3), the upstairs sleeping area temperature will be displayed, indicated by **Sleeping**.
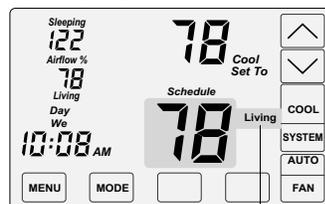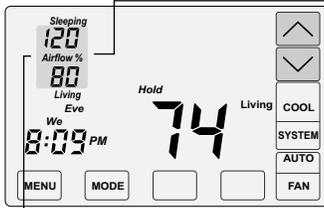
Press Living to display the upstairs Sleeping area temperature.
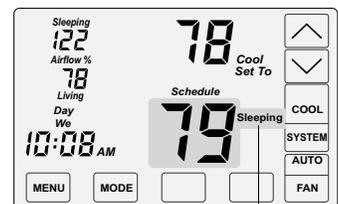
The upstairs Sleeping area temperature is now displayed.

8 | Overriding Automatic Airflow

To override the AUTOMATIC AIRFLOW to the downstairs living area or the upstairs sleeping area:
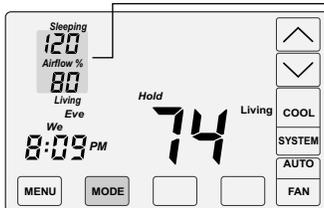

Touch **AIRFLOW%** as shown.

Touch the **UP** key to increase the upstairs sleeping area airflow (the living area airflow will automatically decrease). Touch the **DOWN** key to increase downstairs living area airflow (the upstairs airflow will automatically decrease).

Airflow % will blink in override

After 3 hours, the thermostat returns to automatic operation. The override range is defined by the installer during set up.

9 | Terminating Airflow Override

To terminate Airflow Override:

Touch **AIRFLOW%** as shown.

Touch the **MODE** key to terminate airflow override.

The thermostat returns to automatic airflow control. The AIRFLOW % returns to the airflow prior to the override.

User Menu Key Options

1 Set Schedule

Option 2 is only displayed if User Airflow Control has been enabled by installer using the installer options.

2 Turning Automatic Airflow Control Off

Options 3-5 will not be displayed is Airflow Control has been turned off by the installer.

3 Turning Nighttime Airflow Control On or Off

4 Setting Nighttime Airflow in Heating

5 Setting Nighttime Airflow in Cooling

### 6 Cleaning the Touchscreen

Factory Set Schedule

The thermostat comes pre-set with the following energy-saving schedule for weekdays (Mon-Fri) and weekends (Sat-Sun). Using these settings can reduce your heating/cooling expenses.

| Monday through Friday	Time	Heat	Cool
Morn	6:00 AM	70	75
Day	8:00 AM	62	83
Even	6:00 PM	70	75
Nite	10:00 PM	62	78
Saturday and Sunday	**Time**	**Heat**	**Cool**
Morn	6:00 AM	70	75
Day	8:00 AM	62	83
Even	6:00 PM	70	75
Nite	10:00 PM	62	78

1 | Change Factory Set Schedule

To change the start time or heating or cooling setpoint for the morning, daytime, evening or night schedule, touch the **MENU** key to display SCHEDULE. The thermostat defaults to the weekday schedule. If no key is touched, the thermostat returns to normal operation after about 30 seconds.
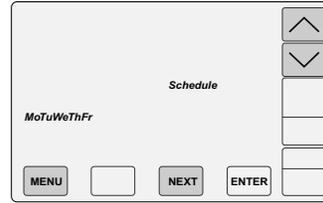

SELECTING THE WEEKDAY OR WEEKEND SCHEDULE

The thermostat defaults to the weekday schedule. Touch the **NEXT** key to change the weekday schedule start times, and heating or cooling setpoints. Or press the DOWN key to select weekend schedule) the touch **NEXT**.
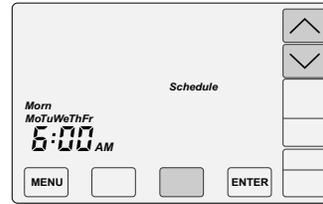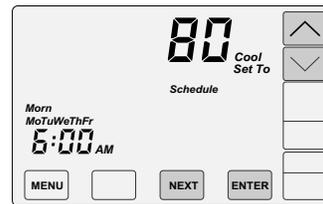

SETTING THE MORNING SCHEDULE START TIME.

Touch the **UP/DOWN** keys to change the Morning Schedule Start Time. Touch **NEXT**.
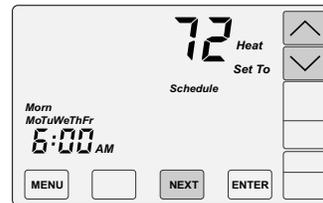
SETTING THE MORNING SCHEDULE HEATING TEMPERATURE.

Touch the **UP/DOWN** keys to change the Morning Schedule Heating Setpoint. Touch **NEXT**.

SETTING THE MORNING SCHEDULE COOLING TEMPERATURE.

Touch the **UP/DOWN** keys to change Morning Schedule Cooling Setpoint. Touch **NEXT**.

Continue setting the start times, heating setpoints, and cooling setpoints for the Day, Evening and Night schedules.

Touch **ENTER** to save the schedule.
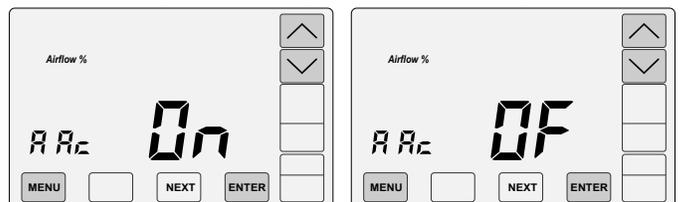
2 | Automatic Airflow Control On or Off

❶ This option is only displayed if **User Airflow Control** has been turned on by the installer in the Installer Options.

❶ Homeowners with an unusual schedule, home office, etc. may want to use this option.

❶ With Automatic Airflow Control Off, the Nighttime Airflow option is still enabled. If desired, the homeowner can turn the Nighttime Airflow option off using User Option 3,

Thermostat defaults to **Automatic Airflow Control On** and automatically directs more airflow to where it's needed. When Automatic Airflow Control is **Off**, the user must set the airflow.

Touch the **MENU** key until the following thermostat screen is displayed.

To turn Automatic Airflow Control OFF, touch the **DOWN** key. To turn Automatic Airflow Control On, touch the **UP** key.
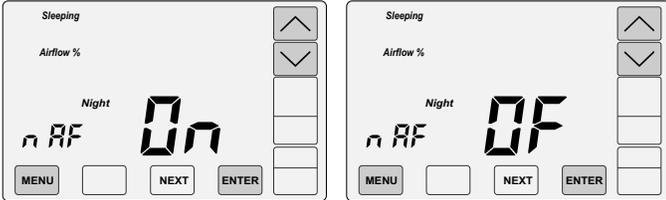
Touch the **MENU** key to save and go to next option or touch the **ENTER** key to save the options and return to normal thermostat operation.

3 Nighttime Airflow Control On or Off

❶ This option is not displayed if **Airflow Control** has been turned off by the installer using the Installer Options.

❶ If bedrooms are located downstairs, the Nighttime Airflow Control should be turned **OFF**.

NIGHTTIME AIRFLOW CONTROL defaults to On and is used to save energy. The thermostat uses the temperature sensor in the sleeping area for controlling heating and cooling calls. The airflow is increased to 130% to the sleeping area and the airflow is reduced to 70% to the unused living area. The thermostat displays the sleeping area temperature.

Touch the **MENU** key until the following thermostat screen is displayed.
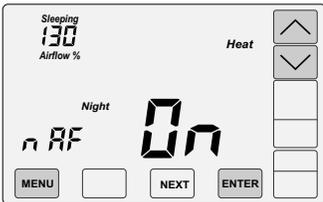
Touch the **UP** key to turn the option ON. Touch the **DOWN** key to turn the option OFF.

Touch the **MENU** key to save and go to next option or touch the **ENTER** key to save the options.

❶ Default start time for Nighttime Airflow is 10:00pm but can be changed using User Option 1 to change the Night Schedule Start Time.

❶ Default airflow level upstairs is 130%. If a different airflow level is desired, use User Options 4 and 5 to change the airflow levels.

4 Set the Nighttime Airflow in Heating

❶ This option is not displayed if **Airflow Control** has been turned off.

This option is used to change the default nighttime airflow in heating of 130% to a user desired airflow level, not to exceed installer limits.
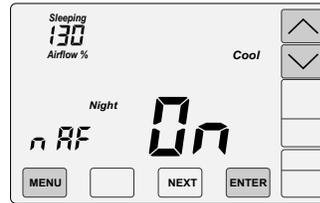
Touch the **MENU** key to display NIGHTTIME, UPSTAIRS AIRFLOW IN HEATING indicated by nAF Heat.

Touch the **UP/DOWN** keys to adjust the airflow.

Touch the **MENU** key to save and go to next option or touch the **ENTER** key to save the option.

5 Set the Nighttime Airflow in Cooling

❶ This option is not displayed if **Airflow Control** has been turned off.

This option is used to change the default nighttime airflow in cooling of 130% to a user desired airflow level, not to exceed installer limits.

Touch the **MENU** key to display NIGHTTIME, UPSTAIRS AIRFLOW IN COOLING indicated by nAF Cool.

Touch the **UP/DOWN** keys to adjust the airflow.

Touch the **MENU** key to save and go to next option or touch the **ENTER** key to save the options.

6 Clean the Touch Screen

This option disables the touch screen for 30 seconds to enable the user to clean the touch screen by wiping down with a soft, damp cloth.
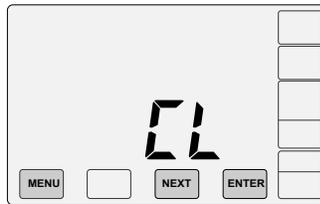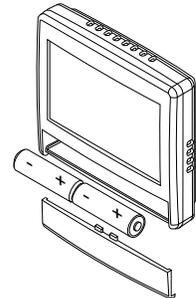
Touch the **MENU** key to display CLEAN DISPLAY option indicated by CL.

Press **ENTER** to start the 30 second count down. The touch screen is disabled during this time.

Or, press **NEXT** to return to normal thermostat operation.

Install Two AA Batteries

The batteries power the clock when 24VAC power is lost. Slide the battery cover downward and install the two AA batteries.

Easy Upgrade to WiFi The Comfort365 WiFi thermostat provides remote access to your home's heating and cooling system and simply plugs into the same subbase and requires no additional wiring. Contract us at 949-916-6701 for more information.

Learn more about your Comfort365 Thermostat by watching the Consumer How-To Video available at Comfort365USA.com