

## Comfort<sup>365</sup> Touch Programmable Thermostat with Airflow Control

**Automatically Controls Airflow in  
Two-Story Homes or Condos and  
Provides Upstairs and Downstairs  
Comfort in All Seasons without  
the Use of a Zoning Panel**



Pat. Pending

**Wired solution for RNC.**

Pat. Pend.

Made in the USA

- Thermostat controls heating and cooling calls the same as any programmable thermostat.
- Automatically or manually control airflow to the upstairs and downstairs of a 2-story home.
- Directs more airflow to the upstairs during the cooling season and more airflow downstairs during the heating season.
- Modulating dampers are installed to direct airflow so that upstairs and downstairs are heated or cooled at the same rate.
- An inexpensive temperature sensor upstairs allows the thermostat to monitor upstairs and downstairs temperatures to control airflow.
- No bypass required and equipment operates at its rated airflow and return temperature.
- Save energy using the Night feature that uses the upstairs temperature sensor to control heating and cooling calls and directs more airflow upstairs while sleeping.
- Saves energy during the cooling season by eliminating overcooling the downstairs to make the upstairs comfortable.
- Saves energy during the heating season by eliminating overheating the upstairs to make the downstairs comfortable.
- No supply air sensor required.
- No zoning panel required.

**WiFi** ■ Easily upgrade the non-WiFi model to WiFi by unplugging the non-WiFi model from the subbase and plugging in the WiFi model.

- Save 23% or more over zoning systems without bypass, 42% or more over zoning systems with bypass and 52% or more over zoning systems with bypass and WiFi thermostats.

# Wired Solution for RNC

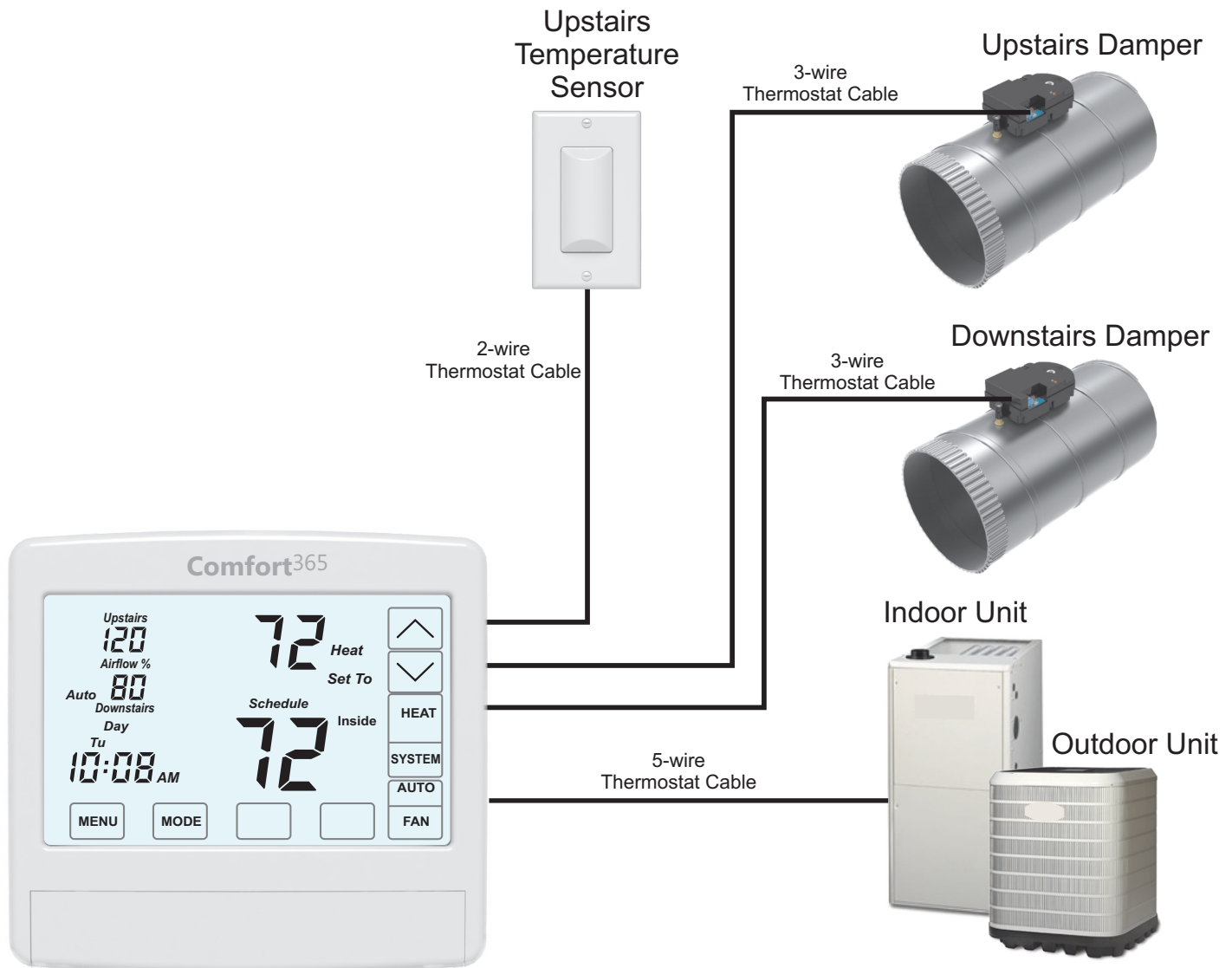
The thermostat is installed downstairs and one or more temperature sensors are installed upstairs. The sensor is wired (2 wires) to the thermostat. Dampers are installed to control the airflow to the upstairs and downstairs and wired to the thermostat with a 3-wire thermostat cable. The thermostat uses the existing wiring to the equipment.

Thermostat monitors the upstairs and downstairs temperatures during calls and adjusts the damper positions and airflow as required to provide uniform heating and cooling. If the nighttime airflow option has

been selected, the thermostat uses the upstairs temperature sensor to control heating and cooling calls and sets the dampers for the preset nighttime airflow.

The dampers use only 2.4VA and are powered from the thermostat. The thermostat uses two AA batteries for maintaining the time and settings when 24VAC power is lost.

The non-WiFi model can be easily upgraded to WiFi by unplugging the non-WiFi model from the subbase and plugging in the WiFi model.



# Technical Specifications

## Program Periods

Four program periods each day. Morning, Day, Evening and Night.

## Program per Week

Programs for weekdays and weekends (5/2).

## Thermostat Modes

Schedule, Hold and Vacant.

## Equipment Control

Off, heating only, cooling only and automatic heating and cooling.

## Airflow Control

Automatic or manual control.

## Allowable Upstairs/Downstairs

### Temperature Differential

Factory set at 1°F. Installer adjustable from 0 to 5°F.

## Maximum Airflow Limits

Airflow limits can be tested and set by the installer.

Factory set limits are;

Maximum upstairs airflow in heating	150%
Maximum downstairs airflow in heating	150%
Maximum upstairs airflow in cooling	140%
Maximum downstairs airflow in cooling	140%

## LCD Display

Clear, 9 square inch, FSTN LCD with white backlight and touch panel.

## Low Level Night Backlight

When the thermostat keys are not being used, the LCD backlight goes to a low light level.

## Airflow Display

Displays the upstairs and downstairs airflow and the airflow control mode.

## Temperature Display

Both the downstairs (Inside) and upstairs (Inside2) temperatures can be displayed.

## Manual Airflow Override

In Automatic mode, the Up/Down keys can be used to change the airflow upstairs and downstairs for a 3 hour period. Returns to Automatic control after 3 hours.

## Energy Saving Nighttime Airflow Option

Turn the energy saving nighttime option on and set the upstairs airflow in heating and in cooling to provide comfort and energy savings while sleeping.

## Upstairs Temperature Sensor

Use one or two temperature sensors upstairs. When two sensors are used, the two temperatures are averaged.

## Installer Options

### Compressor Stages

Select 0 or 1. Factory set to 1.

### Heating Stages

Select 0 or 1. Factory set to 1.

### Indoor Fan Operation

Select Gas or Electric. Factory set to Gas.

### Compressor Minimum Off Time

Set 0 to 9 minutes. Factory set to 2 minutes.

### Gas Heating Minimum Off Time

Set 0 to 9 minutes. Factory set to 0 minutes.

### Minimum Run Time

Set 0 to 9 minutes. Factory set to 2 minutes.

### On-Off Temperature Differential

Select 1, 1.5 or 2°. Factory set to 1°.

### Smart Setback Recovery

Select On or Off. Factory set to Off.

### Vacant Heating Setpoint

Set 44 to 75°. Factory set to 50°.

### Vacant Cooling Setpoint

Set 74 to 95°. Factory set to 90°.

### Calibrate Indoor Temperature Sensors.

Set =5 to -5°. Factory set to 0°.

### Night Level Backlight.

Select On or Off. Factory set to On.

### Airflow Control.

Select On or Off. Factory set to On.

### Enable Manual Airflow Control.

Select On or Off. Factory set to Off.

### Maximum Upstairs Airflow in Heating.

Select 100 to 160%. Factory set to 150%.

### Maximum Upstairs Airflow in Cooling.

Select 100 to 160%. Factory set to 140%.

### Maximum Downstairs Airflow in Heating.

Select 100 to 160%. Factory set to 150%.

### Maximum Downstairs Airflow in Cooling.

Select 100 to 160%. Factory set to 140%.

### Maximum Upstairs/Downstairs Temperature Differential

Select 0 to 5°. Factory set to 1°.

# Specs and Ordering Information

## Test Options

The installer can test the indoor fan, heating and cooling operation. During the heating and cooling tests, the upstairs and downstairs airflow can be adjusted using the Up and Down keys to determine the maximum allowable airflow that does not cause excessive noise or is annoying.

These maximum allowable upstairs and downstairs, heating and cooling airflow limits can be entered using the installer options and the Comfort365 will always operate within these limits.



## Thermostat

Model C365TXX

### Equipment

Heat/cool or heat pump.

### Power

24VAC, 6VA, 2 AA Battery Backup.

### Interconnect

Terminals for wiring.

### Size

4.55 x 4.20 x 1.10 inches.

## Thermostat, Wired, Terminals

Model #	Description
C365T11	Gas/Electric Equipment. 1 Stage Heat / 1 Stage Cool.
C365T21	Gas/Electric or Heat Pump Equipment. 2 Stage Heat / 1 Stage Cool.
C365T21WF	Gas/Electric or Heat Pump Equipment. 2 Stage Heat / 1 Stage Cool. WiFi Enabled



## Dampers

### Positioning

Modulating.

### Torque

80 inch-ounces.

### Pressure Rating

1-inch static pressure.

### Power

24VAC, 2.4VA.

### Life Tested

9 million operations.

## Round Damper, Wired, Terminals Compatible with Thermostat C365TXX

Model #	Size
R80CT-10	10" Round Damper
R80CT-12	12" Round Damper
R80CT-14	14" Round Damper
R80CT-16	16" Round Damper
R80CT-18	18" Round Damper
R80CT-20	20" Round Damper

Dampers are also available in rectangular configurations, rectangular slide-in and round slide-in configurations.



## Temperature Sensor

### Installation

Direct to wall with Euro switch plate or to single gang box.

## Temperature Sensor, Wired, Terminals Compatible with Thermostat C365TXX

Model #	Description
TS5-10	For single sensor installations
TS5-20	For dual upstairs sensor installations
TS5-10W	For single sensor installation. Includes wall plate.
TS5-20W	For dual upstairs installations. Includes wall plate.

# eControls

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## 5-Year Warranty

All products have a 5-year warranty, limited to the repair or replacement of the product due to defective material or workmanship.