



# High Resolution TouchScreen Digital Thermostat model DT4272 RESIDENTIAL



DAIKIN



Owner's Manual & Installation Guide



Follow the <u>Installation Instructions</u> before proceeding. Set the thermostat mode to "OFF" prior to changing settings in setup or restoring Factory Defaults.

#### **FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for an intentional radiator, pursuant to Part 15, subpart C of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference in radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver.
- Consult the dealer or an experienced radio or TV technician for help.

Notice: Only peripherals complying with FCC limits may be attached to this equipment. Operation with noncompliant peripherals or peripherals not recommended by Daikin, is likely to result in interference to radio and TV reception. Changes or modifications to the product, not expressly approved by Daikin could void the user's authority to operate the equipment.

#### FCC - INDOOR Mobile Radio Information:

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Cet appareil est conforme avec Industrie Canada, exempts de licence standard RSS(s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne doit pas causer d'interférences, et 2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

En vertu des règlements d'Industrie Canada, cet émetteur de radio ne peut fonctionner en utilisant une antenne d'un type et maximale (ou moins) Gain approuvé pour l'émetteur par Industrie Canada. Pour réduire les interférences radio potentielles aux autres utilisateurs, le type d'antenne et son gain doivent être choisis afin que la puissance isotrope rayonnée équivalente (PIRE) ne est pas plus de ce qui est nécessaire pour une communication réussie.

We, Daikin, declare under our sole responsibility that the device to which this declaration relates: Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC responsible party is Goodman Manufacturing Company, L.P., and may be contacted by calling (713)-861-2500, or at 19001 Kermier Rd., Waller, TX 77484. www.GoodmanMFG.com

This color touchscreen has the ability to receive updates to its firmware. Periodically firmware updates are released by the manufacturer to add features and/or performance enhancements. This manual was produced reflecting the most current firmware/feature set at the time of publication, firmware rev. 4.04. Firmware releases after rev. 4.04 may not be adequately depicted in this manual. Please refer to the appropriate website or contact your place of purchase to learn about changes to the thermostat after firmware release 4.04.







Innovation, Science and Economic Development Canada ICES-003 Compliance Label: CAN ICES-3 (B)/NM8-3(B) IC: 125474-SKYPORT15

# **Glossary of Terms**

- **Auto-Changeover:** A mode in which the thermostat will turn on the heating or cooling based on room temperature demand.
- **Cool Setpoint:** The warmest temperature that the space should rise to before cooling is turned on (without regard to deadband).
- **Deadband:** The number of degrees the thermostat will wait, once a setpoint has been reached, before energizing heating or cooling.
- **Differential:** The forced temperature difference between the heat setpoint and the cool setpoint in Auto Mode.
- **Heat Setpoint**: The coolest temperature that the space should drop to before heating is turned on (without regard to deadband).
- lcon: The word or symbol that appears on the thermostat display.
- **Mode:** The current operating condition of the thermostat (i.e. Off, Heat, Cool, Auto).
- **Non-Programmable Thermostat:** A thermostat that does not have the capability of running Time Period Programming.
- Programmable Thermostat: A thermostat that has the capability of running Time Period Programming.
- **Temperature Swing:** Same as Deadband.
- **Time Period Programming:** A program that allows the thermostat to automatically adjust the heat setpoint and/or the cool setpoint based on the time of the day. Same as Schedule.

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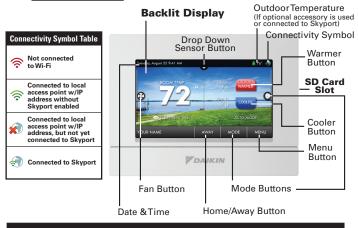
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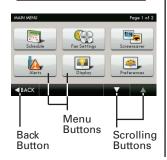
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### **Get To Know Your Thermostat**

### Home Screen



### Main Menu Screen



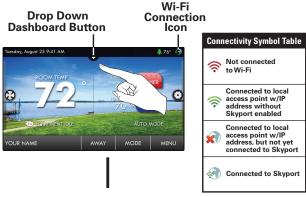
### Sub Menu Screen



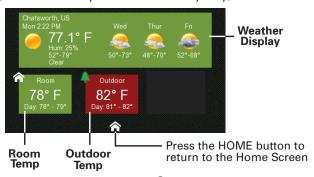
### **Get To Know Your Thermostat**

### **Dropdown Dashboard**

The Dropdown Dashboard displays temperature, humidity, and other readings. It will also show the high and low readings of the day.



# **Dropdown Dashboard** (The contents of your Dashboard may vary)



### **Get To Know Your Thermostat**

### Care and Use of Your Thermostat

Pencils, pens and other sharp objects should never be used on your thermostat; these may damage your touchscreen. Only use your finger tip to press the touchscreen buttons.



Use a soft, damp cloth to clean the screen.

DO NOT USE ABRASIVE CLEANERS OR CLEANERS THAT CONTAIN SOLVENTS. DO NOT SPRAY ANYTHING DIRECTLY ONTO THE THERMOSTAT.

# Quick Start - Temperature, Modes & Fan

# Selecting Your Desired Temperature and Mode

**Press** 



or



to adjust temperature

The Heat or Cool Setpoint is the temperature the room has to reach before heating or cooling will turn on.

(Without regard to deadband)





or the MODE Icon



HEAT will allow only heat operation.

COOL will allow only cool operation.

AUTO will allow both Heat and Cool operation.

OFF - heating and cooling systems are turned off.



**AUTO-CHANGEOVER MODE** - Pressing the WARMER or COOLER buttons in Auto mode will adjust <u>both</u> the heat and cool setpoints simultaneously. To adjust heat and cool setpoints individually, choose HEAT mode to adjust the heat setpoint and COOL mode to adjust the cool setpoint, then return to AUTO mode.

**HEAT OR COOL MODE** - Pressing the WARMER or COOLER buttons in Heat or Cool mode will adjust only the heat or cool setpoints.

### **Time Period Schedule**



Press MODE or the MODE Icon



To turn on the preprogrammed time period schedule, select **RUN**.

To turn off the preprogrammed time period schedule, select STOP.

# Using the Fan Button

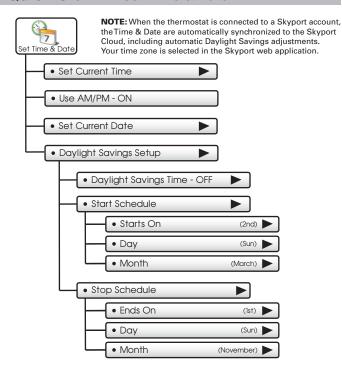
Press the FAN Icon



FAN ON fan runs constantly even in OFF Mode.
FAN AUTO fan only runs with a heating or cooling demand.

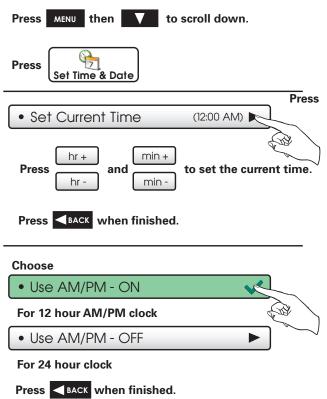


### Quick Start - Set Time & Date



### Quick Start - Set Time & Date

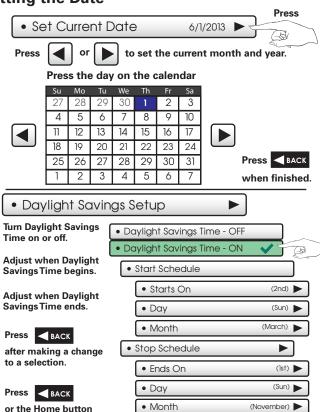
# Setting the Time



### Quick Start - Set Time & Date

# Setting the Date

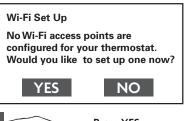
when finished.



### Quick Start - Connect to Wi-Fi

# Connect to Wi-Fi (from initial start up)

When power is connected to the thermostat and it has not been configured to connect to a Wi-Fi Access point, the following message appears:





Press YES

Select the access point you wish to connect to from the list.



Enter the password for the Wi-Fi Access Point and press **NEXT**.



Select automatic setup and press NEXT.



When finished, a dialog box will appear confirming the successful connection to the local Wi-Fi Access Point.

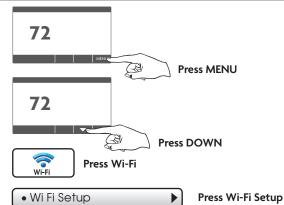


Select **OK**, then the Wi-Fi status page will appear. Upon closing of the Wi-Fi status page, you will be asked to join the thermostat to a Skyport account.



Select **YES** and follow the onscreen instructions to create a new Skyport account or to add the thermostat to an existing account.

# Quick Start - Connect to Wi-Fi (from menus)



Select the access point from the list that you want to connect to.



Enter the password for the Wi-Fi Access Point and press **NEXT**.



Select automatic setup and press NEXT.



When finished, a dialog box will appear confirming the successful connection to the local Wi-Fi Access Point.



Select **OK**, then the Wi-Fi status page will appear. Upon closing of the Wi-Fi status page, you will be asked to join the thermostat to a Skyport account.



Select **YES** and follow the onscreen instructions to create a new Skyport account or to add the thermostat to an existing account.

# Quick Start - Connect to Wi-Fi (from menus)

Although there is more than one way to create a Skyport account, the steps below illustrate creation from a browser.

If the thermostat is connected to the local Wi-Fi Access Point, but not yet joined to a Skyport account, you may join the thermostat to an account by doing the following:

Select **MENU** from the thermostat's home screen.



Scroll down



Select Skyport



\*

Select Skyport Account and follow the onscreen instructions.

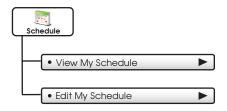


- 1. Open your browser to: https://Daikin.skyportcloud.com
- 2. Select "Create account now"



Follow on screen instructions to create an account and add a thermostat to the Skyport account.

# Main Menu Buttons - Schedule



### Main Menu Buttons - Schedule



This thermostat features up to four programmable time periods per 24 hour day: Morning, Day, Evening, and Night. The start time for each time period is adjustable. The stop time for each time period is the start time for the next period.

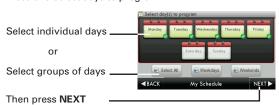
# • View My Schedule

Press a day of the week to view its settings. This may be repeated for each day.





Press and select days to program



Continued >

### Main Menu Buttons - Schedule

### Edit My Schedule

(Continued)

Press and select a Time Period (Morning, Day, Evening, or Night) to edit.



Adjust Mode, StartTime, and Heat and Cool Setpoints to desired settings. The Time Period may also be Enabled or Disabled. Un-check the Enabled box for Time Periods you don't want to use. Press **DONE** when finished.



When you are finished editing the four time periods press

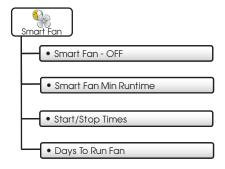
Review your program.

Press **SAVE** to keep your program.

Press **EDIT** to make further changes.



# Main Menu Buttons - Smart Fan



### Main Menu Buttons - Smart Fan



The fan may be programmed to turn on automatically for a specified period during the day.

Press to turn fan schedule on or off

- Smart Fan OFF
- Smart Fan ON



Set the minimum number of minutes the fan will run from the top of each hour. Set runtime to 60 minutes to be on continuously from StartTime to Stop time. (5 - 60 mins.)

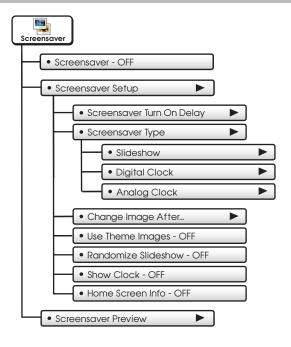
• Start/Stop Times (7:00AM - 9:00PM) ▶

Set when the Smart Fan schedule will start and stop. For example, you may not want Smart Fan to run during sleeping hours.

• Days To Run Fan

Choose which days of the week Smart Fan will run.

### Main Menu Buttons - Screensaver



### Main Menu Buttons - Screensaver



The Screensaver allows you to create custom slideshows.

- Screensaver OFF Screensaver - ON Screensaver Setup Screensaver Turn On Delay (5m) How long after a button press for the Screensaver to appear, 1, 3, 5, or 30 minutes (Slideshow) Screensaver Type
  - Slideshow, Digital Clock, Analog Clock
    - Change Image After...

15, 30 seconds - 1, 5, or 10 minutes

Show Clock - OFF

- Use Theme Images OFF Slideshow uses includedTheme Images. Off or On
- Randomize Slideshow OFF
- Shuffles slideshow photos in random order

Shows the time and date every 5 photos. Off or On

Home Screen Info - OFF

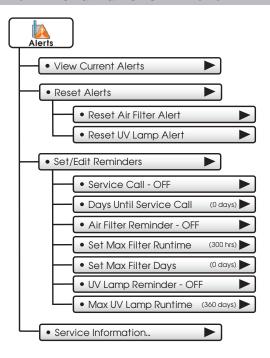
Shows the mode, setpoints, and temperature after every 10 photos. Off or On.

### Screensaver Preview

Press this button to preview your screensaver operation before returning to the Home Screen.

After the preview, press anywhere on the screen to return to the sub menu.

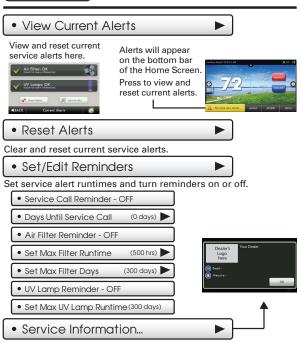
### Main Menu Buttons - Alerts



#### Main Menu Buttons - Alerts

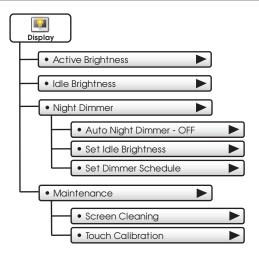


The alerts let you know when your system needs service.



View your service company's contact information.

# Main Menu Buttons - Display



### Main Menu Buttons - Display



The display brightness options may be adjusted in this menu.



You may select how bright the backlight is while the thermostat is active. The display is active for 3 minutes after last touch, it then goes Idle.



You may select how bright the backlight is while the thermostat is idle.

# Night Dimmer

You may dim the brightness of the screen at night.

### Auto Night Dimmer - OFF

The screen can be set to dim automatically at night. Dimming the display can prolong the life of the backlight.

### • Set Idle Brightness (20%)

Set the screen brightness for the Night Dimmer. When Night Dimmer is On, the display will go idle 8 seconds after last touch.



Set the schedule for the Night Dimmer.

# Main Menu Buttons - Display



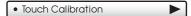
Maintenance allows you to clean and calibrate the touch screen.



Screen Cleaning Mode disables the touch feature for 15 seconds so the screen may be cleaned without altering any settings.

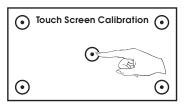


Use a soft cloth without solvents or abrasive cleaners



Under normal circumstances, the touchscreen should not need to be calibrated.

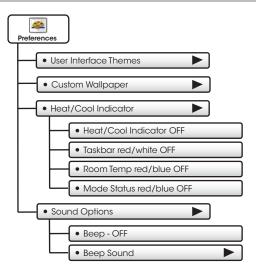
Touch and hold the center of the targets as they appear on the screen for 3 seconds.



Press FINISH when done.

When calibration is complete, the thermostat will automatically restart and return to the Home Screen.

# Main Menu Buttons - Preferences



### Main Menu Buttons - Preferences



You may set the type of background that appears on the thermostat Home Screen.

# • User Interface Themes (ocean)

This thermostat has several high quality background themes to choose from. **NOTE**: At 7pm, the background will change to an evening scene. At 7am it will return to a daytime scene.

# • Custom Wallpaper

You may choose your own background image by selecting a photo that you have uploaded from an SD memory card.

# Heat/Cool Indicator

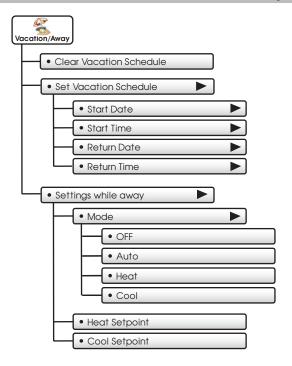
You may choose an enhanced indicator of the current status of the HVAC equipment.

- Heat/Cool Indicator ON/OFF
- RoomTemp Red/Blue ON/OFF
- Taskbar Red/White ON/OFF
- Mode Status Red/Blue ON/OFF



Choose from different beep sounds.

# Main Menu Buttons - Vacation/Away



# Main Menu Buttons - Vacation/Away



Vacation or pressing the AWAY button, will use temporary, energy saving settings without changing the regular schedule. Pressing the HOME button will return the thermostat to normal comfort settings.

### Clear Vacation Schedule

Removes the stored vacation schedule.

### Set Vacation Schedule

Set your Vacation Schedule.



Select the time Vacation Mode will start

Then press **◀ BACK** 



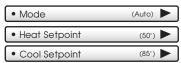
Continued >

# Main Menu Buttons - Vacation/Away

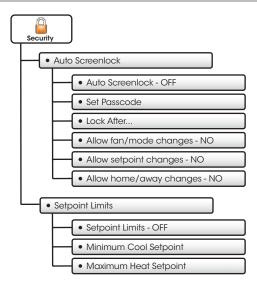


Settings while away

Select the desired Mode and setpoints to be used in Vacation/Away Mode.



# Main Menu Buttons - Security



# Main Menu Buttons - Security



Security settings may be set to limit or prevent changes to your thermostat.

#### • Auto Screenlock

- Auto Screenlock OFF
   Auto Screenlock ON
- Set Passcode (code not set)

NOTE: Code must be set before Auto Screenlock can be turned on.

Use keypad to enter and confirm passcode.



When the thermostat is locked, the bottom bar of the display will show:



Press UNLOCK then enter passcode to access thermostat settings.

• Lock After... (5 m)

Set the time the screen will automatically lock after the last button press.

Allow fan/mode changes - NO

Choose to allow fan/mode changes when Auto Screenlock is on.

• Allow setpoint changes - NO

Choose to allow setpoint changes when Auto Screenlock is on.

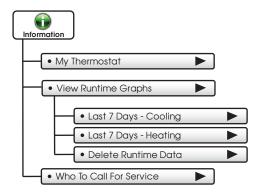
Allow home/away changes - NO

Choose to allow use of the Home and Away button when Auto Screenlock is on.

Setpoint Limits

Limits how high or low heating and cooling may be adjusted.

### Main Menu Buttons - Information



#### Main Menu Buttons - Information



This button contains valuable service and system runtime information.



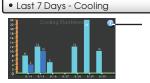


View your thermostat dip switch settings, equipment status, runtimes, and other settings.

#### View Runtime Graphs



Track your system's runtime/energy usage.



Press the information icon to learn more about each graph

Last 7 Days - Heating

\*NOTE: The runtime graphs are updated at 12:00 AM each day.



Press anywhere on the screen to return to the submenu.

Delete Runtime Data

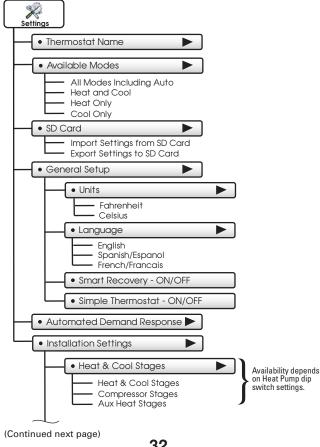
Press to delete your current equipment runtime information.

#### • Who To Call For Service

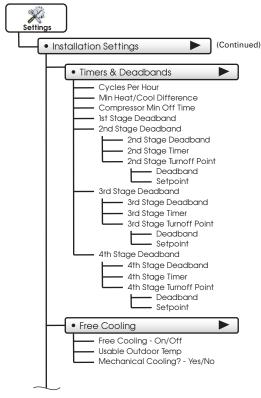


Your service company's contact information may be displayed here.

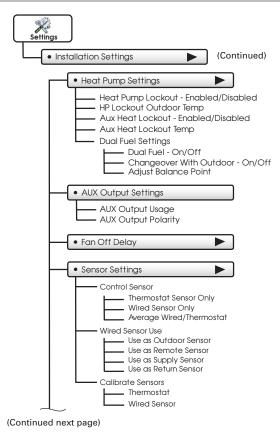


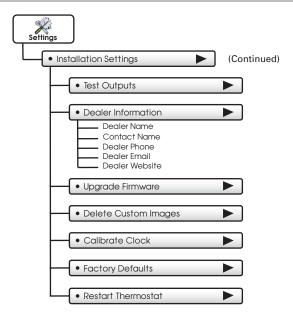


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(Continued next page)







Thermostat heating and cooling options are found in this menu

#### Thermostat Name



Use keypad to name your thermostat. The name is displayed on the Home Screen

(Up to 14 characters)

#### Name appears here



#### Available Modes (all)

Choose the desired modes the thermostat will use: Heat, Cool, Heat & Cool, or Auto (All). For example, if you only have a heater, choose Heat, and only Heat & Off modes will be available. This will simplify the operation for the user.

#### SD Card



Import and export files to and from the thermostat. See the **TouchScreen Assistant** instructions for further details.

Import Settings from SD Card

Upload files from TouchScreen Assistant or another thermostat.

Export Settings to SD Card

\*NOTE: A 2GB SD card is recommended. To import and export files, the SD card must contain the same version of the firmware as the thermostat. TouchScreen Assistant will keep the firmware current.

Export files from one thermostat and import them into others.

#### General Setup

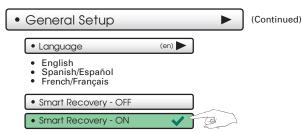


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Units

- Fahrenheit (F)
- · Celsius (C)

(F)



Smart Recovery turns on the heat or cool before the Morning start time to bring the room temperature to the Morning setpoint at the start of the Morning time period. Please allow 4-8 days for Smart Recovery time to adjust. When used with a heat pump, electric strip heat will be disabled while Smart Recovery is active.



#### Turn on Simple Thermostat for the most basic user interface.

When SimpleThermostat is on, alerts will appear in the top bar of the main screen. Press on the top yellow alert bar to view alerts.



**Note:** When using the SimpleThermostat Home Screen; the program schedule along with the **HOME** and **AWAY** features are unavailable.

#### Automated Demand Response ►

# Overview

TouchScreen thermostats support the handling of specific signals from the utility provider. The utility generated signals carry pricing information and/or setback actions that alter the comfort settings of the thermostat in order to reduce energy usage on demand. This is known as **Automated Demand Response** or ADR for short. You must register to participate in a utility sponsored program, if offered by your local utility, to take advantage of this feature.

#### SKYPORT CLOUD SERVICES

From the web application the user will select **Thermostat Settings** from the left column. Then the **Demand Response** button is selected.

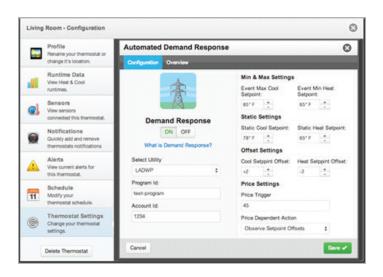


The Demand Response configuration page, shown below, is where the thermostat is configured to respond to the energy provider's signals. It also sets operational parameters for the thermostat.

The left column of the ADR configuration page allows or prevents access by the utility. Here communication with the utility and your thermostat may be turned On or Off.

The selected utility will provide a Program ID.

The Account ID would normally be the occupants utility account number.



The right column of the ADR configuration page is where the occupant adjusts the operational parameters for ADR. The utility may send up to 3 types of ADR signals to Skyport. These are:

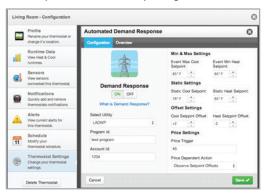
1) Pricing for the cost of energy, 2) An Offset to the occupants' comfort setpoints, and 3) a signal to enforce discrete or Static setpoints.

The Maximum Cooling Setpoint and Minimum Heating Setpoints for ADR events are adjusted here.

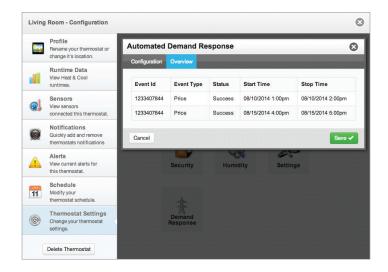
The Static Settings are applied when the utility sends a signal to allow the occupant to enforce their own discrete temperature settings during an ADR event.

The Offset Settings allow the utility to modify the Cool or Heat setpoints by the value set here during an ADR event.

A Price Trigger setting allows the occupant to set the maximum cost of energy threshold. When this threshold is exceeded the Price dependent action is enforced. This Price Trigger and Dependent action is enforced independent of an ADR event, as long as the utility sends 'real-time' pricing.



Selecting the Overview tab of the ADR page will cause a summary of ADR events to be displayed.



### Automated Demand Response ►

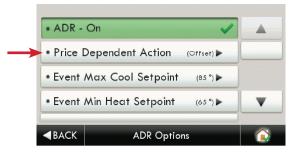
Utility and Program setup must be done at the Skyport Cloud Services account. From the thermostat Home Screen, press the 'Menu' button, then select 'Settings'.



From the above screen the 'Automated Demand Response' button is pressed.



By selecting ADR – On, the user can participate in ADR events triggered by their utility, or price dependent events.



Selecting the 'Price Dependent Action' button allows the user to determine what action is taken when the price rises above the set threshold.



In the above example; if the price threshold is exceeded, the thermostat will invoke the 'Offset Setpoints' configured for an ADR event until the event is over.

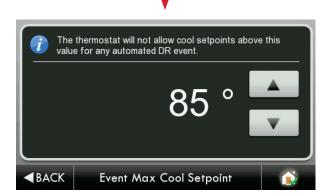
Please note that the Threshold price may only be set in the Skyport Cloud Services account.

Selecting 'Skip Event' will take no action when the set price threshold is exceeded.

43

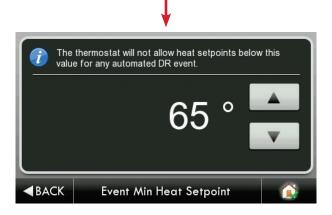


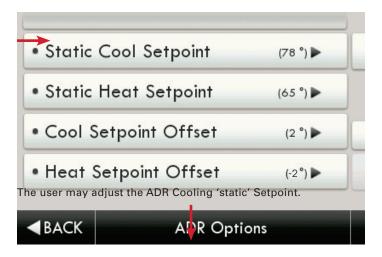
The user may limit the maximum Cooling Setpoint.

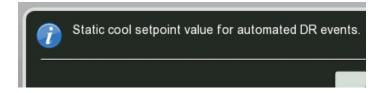




The user may limit the minimum Heating Setpoint.









The user may adjust the ADR Heating 'static' Setpoint.



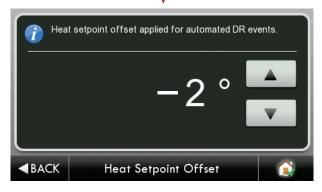


The user may adjust the ADR Cool offset. During an ADR event the cooling setpoint will be adjusted by the amount of degrees configured in this step.





The user may adjust the ADR Heat offset. During an ADR event the heating setpoint will be adjusted by the amount of degrees configured in this step.



When an ADR event is pending, and hasn't started yet, there will be a yellow leaf on the top bar. This will be accompanied by associated text as shown below.



During an ADR event there will be a green leaf on the top bar. This will be accompanied by associated text as shown below.

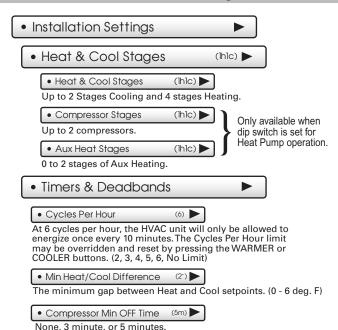


If a Warmer or Cooler button is pressed during an active ADR event, then the user is presented with this opt-out screen.



If a pricing triggered ADR event is enabled, there will be a green leaf on the top bar along with the actual cost of energy. This will be accompanied by associated text as shown below

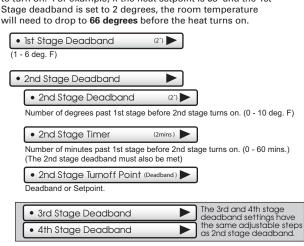






The Deadband is the number of degrees or minutes that the thermostat waits before it initiates the stages of heating or cooling.

**1st Stage Deadband** Specifies the minimum temperature difference between the room temperature and the desired setpoint before the first stage of heating or cooling is allowed to turn on. For example, if the heat setpoint is 68° and the 1st Stage deadband is set to 2 degrees, the room temperature will need to drop to **66 degrees** before the heat turns on.





Free Cooling requires additional dampers and duct work to be installed. Additionally, the thermostat is wired in a different manner for this feature to function properly. Before enabling this feature, please make sure these steps are completed.

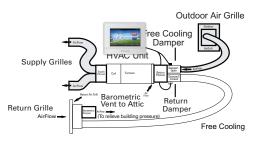


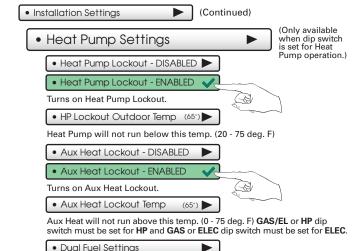
Free Cooling shuts off above this outdoor temperature. (40 - 80 degrees F)



If you don't have a compressor, set Mechanical Cooling to "NO", Y1 will then be used to control the Free Cooling Damper(s) and Y2 will be disabled. If set to "YES", mechanical (compressor) cooling will be controlled by the Y2 terminal. (See page for wiring diagram)

Mechanical air conditioning is turned on with a 2nd stage demand for cooling and the Free Cooling, outdoor air damper is closed.





This feature is for heat pump applications only.

This will only appear if the GAS/EL or HP dip switch is set for HP and the GAS or ELEC dip switch is set for Gas.

When Dual Fuel is ON, an outdoor temperature or, if Change With Outdoor is set to OFF a demand for third stage heat will be used to stop running the heat pump and switch to a fossil fuel source of heat. NOTE: Once the change to fossil fuel is made, the heat demand must finish with fossil fuel. Additional heat demands within 10 minutes will also use fossil fuel, regardless of outdoor temperature or stage demand.

- Dual Fuel ON/OFF
- Changeover With Outdoor ON/OFF

ON: Uses an outdoor sensor for changeover.

OFF: Uses a third stage heat demand for changeover.

Adjust Balance Point

Choose the temperature for changeover to fossil fuel. (0 - 60 deg. F)

Installation Settings

AUX Output Settings



Runs the fan for a short time after Cooling or electric strip heat turns off to increase system efficiency. (0 - 120 Secs.)



When a remote sensor is connected to the thermostat, the user may choose which sensor source is used to measure room temperature.

- · Thermostat sensor only
- · Remote Sensor only
- · Average remote/thermostat

### Wired Sensor Use (remote)

The wired sensor may be used as follows:

- Outdoor sensor
- Remote Sensor
- · Supply Sensor
- Return Sensor



The thermostat and wired sensor may be calibrated -7 to +7 degrees F. The integral humidity sensor may be calibrated -20% to +20% RH



With a 1st stage cooling call, Y1 and G are active



A Dealer may enter their company contact information for the customer to use when they need service. This will appear when the "Who To Call For Service" button is pressed in the Information Menu.

Use the keyboard to enter your information.

- Dealer Name
- Contact Name
- Dealer Phone
- Dealer Email
- Dealer Website



# • Upgrade Firmware

Press to upgrade the thermostat firmware. The SD Card must be in the thermostat SD Card reader and contain the valid firmware. If an error message appears, confirm with ColorTouch Assistant that firmware is up to date or simply try reinserting the SD card.

If you are connected to SkyportWi-Fi and you receive an Alert that new firmware is available, simply press the Upgrade Firmware button to upgrade wirelessly.

**Note**: Occasionally an update that requires a large amount of data is not possible to do wirelessly. In this case an update using an SD card will be required.

# Delete Custom Images

Press to delete the custom photos you uploaded to the thermostat.

# • Calibrate Clock (0 mins) ▶

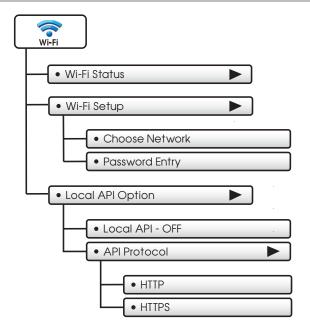
If needed, the clock may be calibrated up to -10 to +10 minutes per month.



Press to reset the thermostat back to the factory settings.



If needed, press here to restart the thermostat.







This option allows the Wi-Fi radio to be turned off or on.

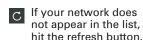


It is here that you will find helpful information regarding the connectivity status of your thermostat, including the thermostat's ID.





Choose your network from the list and enter the network password.







Turning on the local API allows 3rd party software to interface with your thermostat, such as a home automation system.

This is the default with the local API OFF.



To turn on the HTTP Local API select Local API

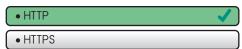


Press BACK to return to previous screen.

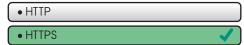
If a Secure API is preferred, then select API Protocol



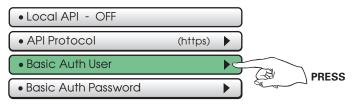
Upon pressing API Protocol, the following screen will appear.



Then select HTTPS and press BACK



Upon pressing BACK, the screen will look like this.

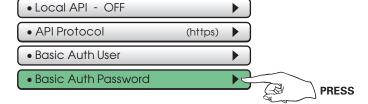


Basic Auth User

Select **Basic Auth User**, and enter the appropriate information on the screen below and press **DONE** to save.



Select Basic Auth Password as the next step.



Basic Auth Password

Select **Basic Auth Password** and enter the appropriate information on the screen below and press **DONE** to save.



The last step is to turn the Local API as shown below.



# Main Menu Buttons - Skyport





Pressing this button will let you know if you are paired with a Skyport account. If not, then you may follow prompt and instructions to create an account and add the thermostat to the account.

# Main Menu Buttons - Emergency Heat



The Emergency Heat function is only available if your thermostat is set to control a Heat Pump.

To initiate the Emergency Heat feature, Press the Emergency Heat button. During Emergency Heat operation the thermostat will turn on the fan and auxiliary stages of heat when there is a demand for heat. The 1st stage of heating and all stages of cooling will be unavailable. To exit Emergency Heat, press the Emergency Heat button.



## The TouchScreen Assistant

TouchScreen Assistant may be downloaded at no charge at:

## www.Daikinthermostats.com/touchscreen/



Every time the user runs the TouchScreen Assistant software, it automatically connects to Daikin's TouchScreen website in the background and updates the software and firmware (the operating system for TouchScreen) at no cost.

The **TouchScreen Assistant** allows you to use your computer to:

- Upload photos for background and slideshow images
- Program a time period schedule
- Configure installation settings

- Upload dealer and service contact information and company logo
- An alternative method to update thermostat firmware

## The TouchScreen Assistant

## **Uploading Photos and Settings to your thermostat**

When you are finished adding and editing photos and settings, click on **Save to SD**. When prompted, remove the SD card from the SD card reader on your computer.



## At the thermostat:

Insert the SD card into the SD Card Slot.



Your thermostat will automatically save your new photos and settings in it's internal memory. When finished, you may remove the SD card. It is not needed for normal thermostat operation.

# Remove and Replace the old thermostat

To install the thermostat properly, please follow these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.

- Assemble tools: Flat blade screwdriver, wire cutters and wire strippers.
- Make sure your Heater/Air Conditioner is working properly before beginning installation of the thermostat.
- Carefully unpack the thermostat. Save the screws, any brackets, and instructions.
- Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.
- Remove the cover of the old thermostat. If it does not come off easily, check for screws.
- Loosen the screws holding the thermostat base or subbase to the wall and lift away.
- Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat. Additionally, we recommend taking a photo with your phone of the connections for future reference.
- Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.

## Wire Connections

If the terminal designations on your old thermostat do not match those on the new thermostat, **refer to the chart below or the wiring diagrams that follow.** 

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked	
G or F	Fan	G	
Y1,Y	Cooling	Y1	
W1, W	Heating	W1/0/B	
Rh, R, M, Vr, A	Power	R	
С	Common	С	
O/B	Rev. Valve	W1/O/B*	
W2	2nd Stage Heat	W2	
Y2	2nd Stage Cooling	Y2	
W3	3rd Stage Heat	W3	
OUT -	Outdoor Sensor	SENSOR	
OUT +	Outdoor Sensor	SENSOR	

<sup>\*</sup> O/B is used if your system is a Heat Pump.

# Before you go any further, determine what your existing wiring and equipment situation is.

- A. If you have a **Heating only system** without Air Conditioning, the Daikin thermostat will require **3 wires**: R (24Vac), C (24Vac) and W (Heat). Most systems that only have Heating use very simple thermostats that require 2 wires: the R (24Vac) and W (Heat). The Daikin thermostat requires **3 wires** to the thermostat. In this case an Add-a-Wire accessory will not work and it will be necessary to install another wire for the C (24Vac) connection.
- B. If you have a single stage fossil fuel heater with air conditioning, the Daikin model will require 5 wires for independent fan control. They are R (24Vac), C (24Vac), W (Heat), Y (Cooling), and G (Fan). You may connect only 4 wires, as instructed in the "Making 4 Wires Work When 5 Wires Are Required" section on page 74.

If there are only 4 wires present that are connected to the existing thermostat, there are at least 3 options available to connect the Daikin thermostat:

- Use the 4 wires as instructed in the "Making 4 Wires Work When 5 Wires Are Required" section on page 74, and note that the fan will only operate with a Heating or Cooling demand.
- 2. Pull new thermostat wire from the HVAC equipment to the thermostat so that there are at least 5 wires available.
- 3. Purchase and install a Daikin Add-A-Wire accessory.
- C. If you have a multi-stage HVAC system comprised of a fossil fuel heater with air conditioning, the Daikin thermostat will require the 5 wires mentioned above (R, C, W, Y, G) plus an additional wire for each additional stage of Heating or Cooling. You may reduce the 5 wire requirement to 4 if you give up independent fan control following the instruction in the "Making 4 Wires Work When 5 Wires Are Required" section on page 53, or use the optional Add-A-Wire accessory.

D. If you have a heat pump without aux heat, the Daikin model will require 5 wires: R (24Vac), C (24Vac), W1/O/B (Reversing Valve), Y (1st Stage Compressor), and G (Fan).

If you are short 1 wire, there are at least 3 options available to connect the Daikin thermostat:

- Use the available wires as instructed in the "Making 4 Wires Work When 5 Wires Are Required" section on page 56 and note that the fan will only operate with a Heating or Cooling demand.
- 2. Pull new thermostat wire from the HVAC equipment to the thermostat so that there are at least 5 wires available.
- 3. Purchase and install a Daikin Add-A-Wire accessory.
- E. If you have a heat pump with aux heat, the Daikin model will require 6 wires: R (24Vac), C (24Vac), W1/O/B (Reversing Valve), Y (1st Stage Compressor), W2 (Aux Heat), and G (Fan).

If you are short 1 wire, there are at least 3 options available to connect the Daikin thermostat:

- Use the available wires as instructed in the "Making 5 Wires Work When 6 Wires Are Required" section on page 57 and note that the fan will only operate with a Heating or Cooling demand.
- 2. Pull new thermostat wire from the HVAC equipment to the thermostat so that there are at least 6 wires available.
- 3. Purchase and install a Daikin Add-A-Wire accessory.

# Making 4 Wires Work When 5 Wires Are Required

If you would like to install the Daikin thermostat using only 4 wires when 5 are required, follow the directions below. You will need a screwdriver along with a 3" long piece of thermostat wire to use as a jumper:

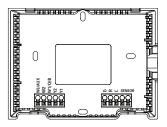
- 1. Make sure the power is off.
- Label and disconnect wires at the thermostat. Please note the color and corresponding wire designator with each color. For example: The R wire is red and the W wire is white and so on. You will need this information handy for the next step at the HVAC equipment.
- 3. At the HVAC equipment end of the thermostat wires (usually at the furnace), locate the terminals that the wires are attached to.
- 4. Remove the "G wire" from the terminal marked G.
- 5. Place the "G wire" on terminal C.
- 6. Place one end of the 3" long jumper on terminal G.
- 7. Place the other end of the 3" long jumper on terminal Y. Please note that there will be more than 1 wire on terminal Y.
- 8. When connecting the wires to the Daikin thermostat, note that the wire that was previously connected to the G terminal of the old thermostat will now be required to be connected to the C terminal on the Daikin thermostat. All other wires will be connected such that the connections on <a href="mailto:each end of the individual wires match terminal designations">each end of the individual wires match terminal designations</a>. For example: Connect the yellow wire on the thermostat end to the <a href="mailto:yterminal">Yterminal</a> on the HVAC equipment end also.

# Making 5 Wires Work When 6 Wires Are Required

If you have a system that requires 6 wires, and you would like to install the Daikin thermostat using only 5 wires, follow the directions below. You will need a screwdriver along with a 3" long piece of thermostat wire to use as a jumper:

- 1. Make sure the power is off.
- Label and disconnect wires at the thermostat. Please note the color and corresponding wire designator with each color. For example: The R wire is red and the W wire is white and so on. You will need this information handy for the next step at the HVAC equipment.
- 3. At the HVAC equipment end of the thermostat wires (usually at the furnace), locate the terminals that the wires are attached to.
- 4. Remove the "G wire" from the terminal marked G.
- 5. Place the "G wire" on terminal C.
- 6. Place one end of the 3" long jumper on terminal G.
- 7. Place the other end of the 3" long jumper on terminal Y. Please note that there will be more than 1 wire on terminal Y.
- 8. When connecting the wires to the Daikin thermostat, note that the wire that was previously connected to the G terminal of the old thermostat will now be required to be connected to the C terminal on the Daikin thermostat. All other wires will be connected such that the connections on <a href="mailto:each end of the individual wires match terminal designations">each end of the individual wires match terminal designations</a>. For example: Connect the yellow wire on the thermostat end to the <a href="mailto:yterminal">Yterminal</a> on the HVAC equipment end also.

# The TouchScreen Backplate



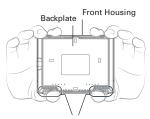
#### NOTE:

The backplate does not fully cover a full size vertical junction box. The TSTATGTAC-WP Daikin Wallplate or a single-gang, horizontally mounted junction box would be needed for that type of installation

#### To remove the thermostat backplate: Using the Finger Pull Areas, pull the front housing away from the backplate.



Look for these tabs to locate the pull areas



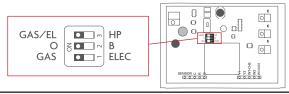
Pull out with thumbs in these areas

W3	3rd stage heat circuit	
W2	2nd stage heat circuit	
W1/O/B	1st stage heat circuit	
Y2	2nd stage compressor relay	
Y1	1st stage compressor relay	
G	fan relay	
R	24 VAC return	
С	24 VAC common	
SENSOR	remote/outdoor/supply/return sensor connections	

IMPORTANT: This thermostat requires both R (24 VAC Return) and C (24 VAC Common) be connected to the backplate terminals.

# **Explanation of Thermostat Dip Switches**

Dip switches are located on the back of the thermostat





This dip switch configures the thermostat to control a conventional gas/electric system or a heat pump. If your system is anything other than a heat pump, leave this switch set for GAS/EL.\*

\*For some commercial heat pumps, this switch may need to be set for GAS/EL. Consult the commercial heat pump literature.



When the GAS/EL or HP dip switch is configured for HP, this dip switch (O or B) must be set to control the appropriate reversing valve. If O is chosen, the W1/O/B terminal will energize in cooling. If B is chosen, the W1/O/B terminal will energize in heating.



#### 1. When GAS/EL or HP is set for GAS/EL:

This switch (GAS or ELEC) controls how the thermostat will control the Fan (G) terminal in heating mode. When GAS is chosen, the thermostat will not energize the Fan (G) terminal in heating. When ELEC is chosen the thermostat will energize the fan in heating.

### 2. When GAS/EL or HP is set for HP:

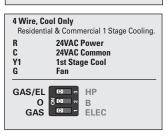
This switch (GAS or ELEC) defines the Aux Heat type. When <u>GAS</u> is chosen, the auxiliary heat will not be allowed to run during heat pump operation. When using a Dual Fuel system, set this switch for <u>GAS</u>. When <u>ELEC</u> is chosen, up to two stages of auxiliary strip heat will be allowed to run.

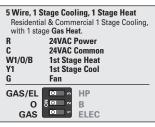
# Sample Wiring Diagrams with Dip Switch Positions

Conventional Heating and Cooling Systems

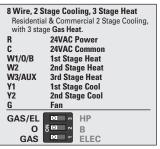






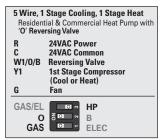


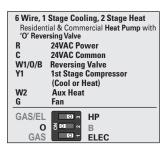


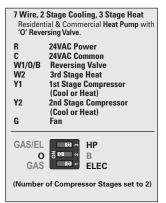


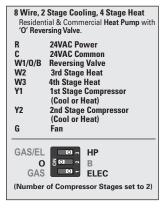
# Sample Wiring Diagrams with Dip Switch Positions

Heat Pump Systems



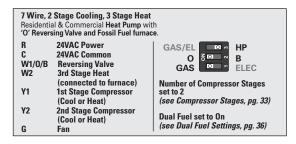


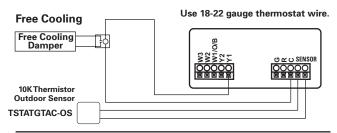




# Sample Wiring Diagrams with Dip Switch Positions

Heat Pump Systems with Dual Fuel





Free Cooling utilizes the Y1 terminal for the operation of 1st stage cooling. If mechanical (compressor) cooling is also present, the mechanical cooling is connected to the Y2 terminal in this instance.

Free Cooling may be used with a Gas/Electric or Heat Pump system.

Temperature Sensor: TSTATGTAC-OS Temperature Sensor 10K ohm sensor at 77F/25C. Negative Temperature Coefficient.

# **Troubleshooting**

SYMPTOM: The thermostat touchscreen buttons are not responsive.
 CAUSE: The touchscreen is out of calibration.

**REMEDY:** Remove the thermostat from the backplate. Push the thermostat back onto the backplate, while keeping your finger pressed firmly against the center of the touchscreen, until the Calibration screen appears. Re-calibrate the touchscreen. See Touch Calibration section of full user's manual (page 19).

• SYMPTOM: The display is blank.

CAUSE: Lack of proper power.

**REMEDY:** Make sure the power is on to the HVAC and that you have 24vac between **R & C**.

• SYMPTOM: The air conditioning does not attempt to turn on.

**CAUSE**: The cooling setpoint is set too high.

**REMEDY:** Lower the cooling setpoint or lower the cooling set-point limit. See Setpoint Limits (page 28).

• SYMPTOM: The heating does not attempt to turn on.

**CAUSE**: The heating setpoint is set too low.

**REMEDY:** Raise the heating setpoint or raise the heating set-point limit. See Setpoint Limits (page 28).

• **SYMPTOM**: When controlling a residential heat pump, and asking for cooling, the heat comes on.

CAUSE: The thermostat reversing valve dip switch is set for "B".

REMEDY: Set the reversing valve jumper for "O".

SYMPTOM: When calling for cooling, both the heat and cool come on.
 CAUSE: The thermostat equipment dip switch is configured for "HP" and the HVAC unit is a Gas/Electric.

REMEDY: Set the equipment dip switch for "Gas".

 SYMPTOM: Air handler control board fuse blows when thermostat is attached to backplate with power on, but does not blow until the thermostat is placed onto the backplate.

**CAUSE:** The Outdoor sensor and/or sensor wiring is shorted. **REMEDY:** Check/replace Outdoor sensor and/or sensor wiring.



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# **Limited Warranty**

Thermostat Models: D1100, D1152, D2100, D2152, D2270, D2270C, D2111, D4272, D4273, D4271C. D4272C. D4272RT. D4273RT. D4272CT. D4273CT

#### Who Is Providing The Warranty?

This warranty is provided to you by Goodman Manufacturing Company, L.P. ("Goodman"), which warrants all parts of this thermostat ("control"), as described below.

#### To What Type Of Installations Does This Warranty Apply?

This warranty applies to controls installed in owner-occupied residences.

#### What Units Does This Warranty Not Cover?

This warranty does not apply to:

- Controls that are ordered over the Internet, by telephone, or by other electronic means unless the unit is installed by a dealer adhering to all applicable federal, state, and local codes, policies, and licensing requirements.
- · Controls that are installed outside the United States, its territories, or Canada.
- Controls that are installed in buildings other than owner-occupied residences, such as non-residential buildings or residences not
  occupied by the owner.

#### What Problems Does This Warranty Cover?

This warranty covers defects in materials and workmanship that appear under normal use and maintenance.

#### Other Warranties

This warranty is in fieu of all other express warranties. ANY IMPLIED WARRANTIES BY GOODMAN, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTRALITY AND FITNESS FOR PASTICULAR PURPOSE, ARE LIMITED TO THE UDNATION OF THIS WARRANTY, NO AFFILIATE OF GOODMAN GIVES ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ON THIS UNIT. Some states and provinces do not allow the exclusion of express warranties and/or limitations on you long an implied warranty lasts, so the above exclusion and/or imitation may not apply to you.

For further information about this warranty contact Consumer Affairs at (877) 254-4729 or by mail to 19001 Kermier Rd, Waller, Texas 77484

#### What Problems Does This Warranty Not Cover?

Goodman is not responsible for:

- Damage or repairs required as a consequence of faulty installation or application.
   Damage as a result of floods, fires, winds, lightning, accidents, corrosive atmosphere, or other conditions beyond Goodman's control.
- Damage or the need for repairs arising from the use of components or accessories not compatible with this control.
- · Normal maintenance as described in the installation and operating manual.
- · Parts or accessories not supplied or designated by the manufacturer.
- Damage or the need for repairs resulting from any improper use, maintenance, operation, or servicing.
- · Damage or failure of the control due to interruption in electrical service or inadequate electrical service.
- Any damage caused by frozen or broken water pipes in the event of equipment failure.
- · Changes in the appearance of the control that do not affect its performance.
- Replacement of fuses and replacement or resetting of circuit breakers.

#### When Does Warranty Coverage Begin?

Warranty coverage begins on the "installation date." The installation date is one of two dates depending on the circumstances of purchase:

- (1) For controls installed in a newly constructed residence, the installation date is the date the owner purchases the residence from the
- (2) For controls installed in existing residences, the installation date is the date that the control is originally installed.
- (3) For products on which a manufacture date is indicated, if the date the owner purchases the residence from the builder or the date the product is originally installed cannot be verified, the installation date is three months after the manufacture date.

(4) For products on which a manufacture date is not indicated, if the date the owner purchases the residence from the builder or the date the product is originally installed cannot be verified, the installation date is the date the condensing unit to which the product is paired was originally installed.

#### **How Long Does Warranty Coverage Last?**

The warranty lasts for a period up to 1 YEAR.

The warranty period does not continue after the control is removed from the location where it was originally installed. The replacement of a part under this warranty does not extend the warranty period. In other words, Goodman warrants a replacement control only for the period remaining in the apolicable warranty that commenced on the installation date.

#### What Will Goodman Do To Correct Problems?

Goodman will furnish a replacement control, without charge for the control only, to replace any control that is found to be defective due to workmanship or materials under normal use and maintenance. Furnishing of the replacement control is Goodman's only responsibility under this warranty and the furnishing of the replacement control is the owner's only remedy.

THE OWNER AGREES THAT THESE REMEDIES ARE THE OWNER'S EXCLUSIVE REMEDIES FOR BREACH OF ALL WARRANTIES, EXPRESS OR IMPLIED.

#### What Won't Goodman Do To Correct Problems?

Goodman will not pay for:

- · Labor, freight, or any other cost associated with the service, repair, or operation of the control.
- Electricity or fuel costs, or increases in electricity or fuel costs, for any reason, including additional or unusual use of supplemental electric
  heat.
- Lodging or transportation charges.

WHETHER ANY CLAIM IS BASED ON NEGLIGENCE OR OTHER TORT, BREACH OF WARRANTY OR OTHER BREACH OF CONTRACT, OR ANY OTHER THEORY, NEITHER GOODMAN NOR ANY OF ITS AFFILIATES SHALL IN ANY EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOSS OF USE OF A CONTROL, EXTRA UTILITY EXPENSES, OR DAMAGES TO PROPERTY.

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

#### How Can The Owner Receive Warranty Service?

If there is a problem with the control, contact a licensed contractor,

To receive a replacement control, a licensed contractor must bring the defective control to a Goodman heating and air conditioning products distributor

For more information about the warranty, contact Consumer Affairs at 877-254-4729 or write to Consumer Affairs, 19001 Kermier Rd, Waller, TX 77484.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

#### Quebec Residents

The arbitration provisions of this warranty shall not apply to residents of Quebec.

#### Non-Owner Occupied Warranty

Products installed in non-residential buildings or in residences not occupied by the owner are warranted for a period of 1 YEAR. THIS WARRANTY IS PROVIDED IN LILE UP OF ANY OTHER WARRANTY OF OCOMMAN OF ITS AFFILIATES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Subject to the additional limitations set forth in this paragraph, all other provisions of the Limited Warranty apply to products installed in non-residential buildings or in residences not occupied by the owner.

#### Where Can Any Legal Remedies Be Pursued?

ARBITRATION CLAUSE, IMPORTANT, PLEASE REVIEW THIS ARBITRATION CLAUSE, IT AFFECTS YOUR LEGAL RIGHTS.

- Parties: This arbitration clause affects your rights against Goodman and any of its affiliates or employees or agents, successors, or assigns, all of whom together are referred to below as "we" or "us" for ease of reference.
- 2. ABRITATION REQUIREMENT: EXCEPT AS STATED BELOW, ANY DISPUTE BETWEEN YOU AND ANY OF US SHALL BE DECIDED BY NEUTRAL, BINDING ARBITRATION RATHER THAIN IN COURT OR BY JURY TRIAL. "Dispute" will be given the broadest possible meaning allowable by law. It includes any dispute, claim, or controversy arising from or relating to your purchase of this control, any warranty upon the unit, or the unit's condition. It also includes determination of the scope or applicability of this Arbitration Clause. The arbitration requirement applies to claims in contract and orbit, pursuant to statute, or otherwise.
- 3. CLASS-ARBITRATION WAIVER: ARBITRATION IS HANDLED ON AN INDIVIDUAL BASIS. IF A DISPUTE IS ARBITRATED, YOU AND WE EXPRESSLY WAIVE ANY RIGHT TO PARTICIPATE AS A CLASS REPRESENTATIVE OR CLASS MEMBER ON ANY CLASS CLAIM YOU MAY HAVE AGAINST US OR WE AGAINST YOU, OR AS A PRIVATE ATTORNEY GENERAL OR IN ANY OTHER REPRESENTATIVE CAPACITY. YOU AND WE ALSO WAIVE ANY RIGHT TO CLASS ARBITRATION OR ANY CONSOLIDATION OF INDIVIDUAL ARBITRATIONS.

- 4. Discovery and Other Rights: Discovery and rights to appeal in arbitration are generally more limited than in a lawsuit. This applies to both you and us. Other rights that you or we would have in court may not be available in arbitration. Please read this Arbitration Clause and consult the rules of the arbitration organizations listed below for more information.
- SMALL CLAIMS COURT OPTION: YOU MAY CHOOSE TO LITIGATE ANY DISPUTE BETWEEN YOU AND ANY OF US IN SMALL CLAIMS
  COURT, RATHER THAN IN ARBITRATION, IF THE DISPUTE MEETS ALL REQUIREMENTS TO BE HEARD IN SMALL CLAIMS COURT.
- 6. Governing Law: For residents of the United States, the procedures and effect of the arbitration will be governed by the Federal Arbitration Act (9 U.S.C. § 1 et seq.) rather than by state law concerning arbitration. For residents of Canada, the procedures and effect of the arbitration will be governed by the applicable arbitration law of the province in which you purchased your control. The law governing your substantive warranty rights and other claims will be the law of the state or province in which you purchased your control. Any court having jurisdiction may enter judgment on the arbitration award.
- 7. Rules of the Arbitration: If the amount in controversy is less than \$250,000, the arbitration will be decided by a single arbitrator. If the amount in controversy is greater than or equal to \$250,000, the arbitration will be decided by a panel of three arbitrators. The arbitratoricy will be chosen pursuant to the rules of the administering arbitration organization. United States residents may choose the American Arbitration Association (1633 Broadway, 10th Floor, New York, NY 10019, www.adr.org), JAMS (1920 Main Street, Ste. 300, Irvine, CA 92514, www.jamsadr.com), or, subject to our approval, any other arbitration organization. In addition, Canadian residents may choose the ADR Institute of Canadia (248 Eglinton Ave. East, Suite 405, Fornot, Ontario, MTKs, www. amic.org). These organizations' rules can be obtained by contacting the organization or visiting its website. If the chosen arbitration organization's rules conflict with this Arbitration Clause, the provisions of this Arbitration Clause control. The award of the arbitratoris shall be final and brightno or lauties.
- Location of the Arbitration Hearing: Unless applicable law provides otherwise, the arbitration hearing for United States residents will be conducted in the federal judicial district in which you reside or, for Canadian residents, in the province in which you reside.
- 9. Costs of the Arbitration: Each party is responsible for its own attorney, expert, and other fees unless applicable law requires otherwise. Goodman will pay your share of the fees charged by the arbitration organization and arbitrator(s) beyond the first \$200. Where permissible by law, you may be required to reimburse Goodman for the fees of the arbitration organization and arbitrator(s) in whole or in part by decision of the arbitrator(s) at the discretion of the arbitrator(s).
- 10. Survival and Enforceability of this Arbitration Clause: This Arbitration Clause shall survive the expiration or termination, or any transfer, of the warranty on your control. If any part of this Arbitration Clause, except valvers of class-action rights, is found to be unenforceable for any reason, the remainder of this clause and the warranty shall remain enforceable. If, in a case in which class-action allegations have been made, the waiver of class-action rights under this warranty is found to be unenforceable with respect to any part of the dispute, the parts of the dispute as to which the waiver of class-action rights have been found undergoable will be severed and will proceed in court without reference or application of this Arbitration Clause. Any remaining parts will proceed in arbitration.

