

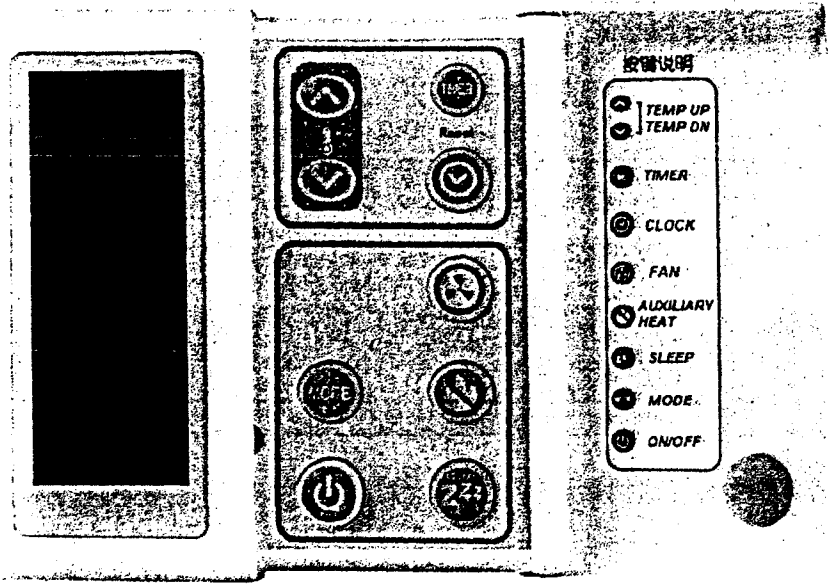


**FirstService**  
RESIDENTIAL



# **TILI—Controller Operating Instructions**

**2011**



## **UNDERSTANDING YOUR NEW TILI CONTROLLER**

The controller in your home is likely a little different than what you are used to. Although you raise and lower the temperature as you would with a conventional thermostat, the controller is far more intelligent than a conventional thermostat and will ensure that your system will always operate at maximum efficiency while adjusting to varying conditions.

The controller is a communicating device that monitors every function of your heat pump in real time. As you familiarize yourself with this new control system, it will be performing its job of providing you with the best heating and cooling while using the least amount of energy possible.

Please take the time to familiarize yourself with your new controller.

Press the on/off button to the on position, the controller will light up and a display will appear.

To select C° or F°: Press and hold the auxiliary heat button for 5 seconds to toggle between Fahrenheit or Celcius display.

### **MODE BUTTON**

Press the mode button to select and display the mode of operation. Selectable modes are as follows:

**HEAT:** Only allows heating function. (Sun symbol will be displayed)

**COOL:** Only allows cooling function. (Snow flake will be displayed)

**AUTO:** Automatically changes between heat & cool if there is a 6°F difference between your set point and the actual house temperature. Only use this feature when you are away for extended periods of time.

**FAN:** Only allows fan operation, no heating or cooling.  
(Fan blade symbol will be displayed)

**DEHUMIDIFY:** Removes additional moisture during cooling mode only  
(Water Droplet will be displayed)

### **SETTING THE CLOCK**

Press the clock button, the minute display will blink. Pressing the clock button again will advance the minute display one minute for every press. To advance the minute display rapidly, press and hold the clock button for over three seconds and release button when desired minute display is attained.

To adjust the hour display, press the mode button. The hour display will blink. Adjust the hour display by pressing the clock button until the desired hour is displayed.

*go to hybrid heat pump  
water tank  
\$2000 -*

## TIMER FUNCTION

Turn controller power off to enter this mode.

Press the timer button, the Timer "ON" time blinks and can be changed by pressing the clock button. This function will allow you to pre-set the time you would like your heat pump to come on.

Press the timer button again and the Timer "OFF" time blinks and can be adjusted by pressing the clock button. This function will allow you to pre-set the time you would like your heat pump to turn off.

When finished programming, the LCD screen will display "TIME ON", or "TIME OFF", or both "TIME ON" and "TIME OFF" depending on which function you've selected.

When the desired time is reached, the heat pump will turn on or off automatically. The timer function can be re-adjusted at any time by pressing the timer button. Selecting "TIME ON" only or "TIME OFF" only will initiate a one time only function. Selecting both the "TIME ON" and "TIME OFF" will repeat the on-off cycles daily.

## FAN FUNCTION

The heat pump is equipped with a three speed fan. Low speed, Medium speed, High speed or Automatic can be selected by pressing the fan button. Although you may choose any fan speed, the automatic mode will provide the highest efficiency. The low, medium and high speed is indicated by one blade, two blades or three blades being displayed. The Controller may override your selection temporarily during a heating or cooling cycle to protect the equipment from improper air flow. The automatic mode will display one or more fan blades inside a circle.

\* Energy Board Models only.

You may choose to have the heat pump's fan run continuously on low speed for ventilation or for comfort. In this mode the fan will automatically change speed during a heating or cooling cycle.

To choose continuous fan operation, press and hold the "FAN" button for 5 seconds until the melting ice cube symbol disappears.

## AUXILIARY HEAT FUNCTION

An auxiliary electric heater may be installed as part of your system to supplement the heat pump during unusually cold weather or can be used as emergency heat in the unlikely event of a breakdown. In order for the auxiliary heat to function, the auxiliary heat button must be turned on. When the button is off, the electric heater cannot come on. When the auxiliary heat button is turned on, a flame signal will be blinking to indicate that it is enabled and ready but not on. When the flame symbol is on solid, the heater is on.

Typically, this feature can be turned off to prevent accidental cycling of the electric heater that would raise the overall cost of operation. During a cold spell or if the heat pump has difficulty maintaining temperature, the auxiliary heat function can be turned on and will function automatically as required.

The auxiliary heater (optional) can be configured to operate in several ways; ask your installing contractor how your auxiliary heater functions.

## EMERGENCY HEAT

Should you need your electric heater for emergency back up and it does not come on automatically, follow these instructions:

- 1) If your controller displays an error code example; E01, E02, E03 etc ...

Depress the controller power button on the bottom left side of your controller to the off position; your screen will go blank. Wait 2 minutes and depress the button again to turn the system back on. The unit will now try to re-start (may take up to 3 minutes).

If the controller displays a fault after this procedure, you can switch to emergency heat by turning the controller off and then on again, then push the mode button repeatedly until you see the fan blade display.

You can select low, medium or high speed continuous fan now.

### EMERGENCY HEAT contd.

- 2) Ensure the breaker in the electrical panel is on and the emergency heat switch (if provided) located on or near your heat pump is also in the on position. If there is a separate wall mounted thermostat located near your heat pump, set the temperature for the desired comfort.
- 3) You should now have temporary emergency back up heat until a technician can service your heat pump. Ask your installing contractor how your emergency heat system works. (if installed)

### SLEEP FUNCTION:

In the heating mode, pressing the sleep button will automatically lower the temperature set-point by one degree \*F after 30 minutes, two degrees \*F after one hour and three degrees \*F after two hours. The sleep button Zzz can be depressed at any time to cancel this function. The Zzz will be displayed if this function is activated.

### IN THE COOLING MODE:

The temperature set-point will be raised by 1 degree \*F after thirty minutes, two degrees \*F after one hour and three degrees \*F after two hours. Use the Zzz button to activate or de-activate this function.