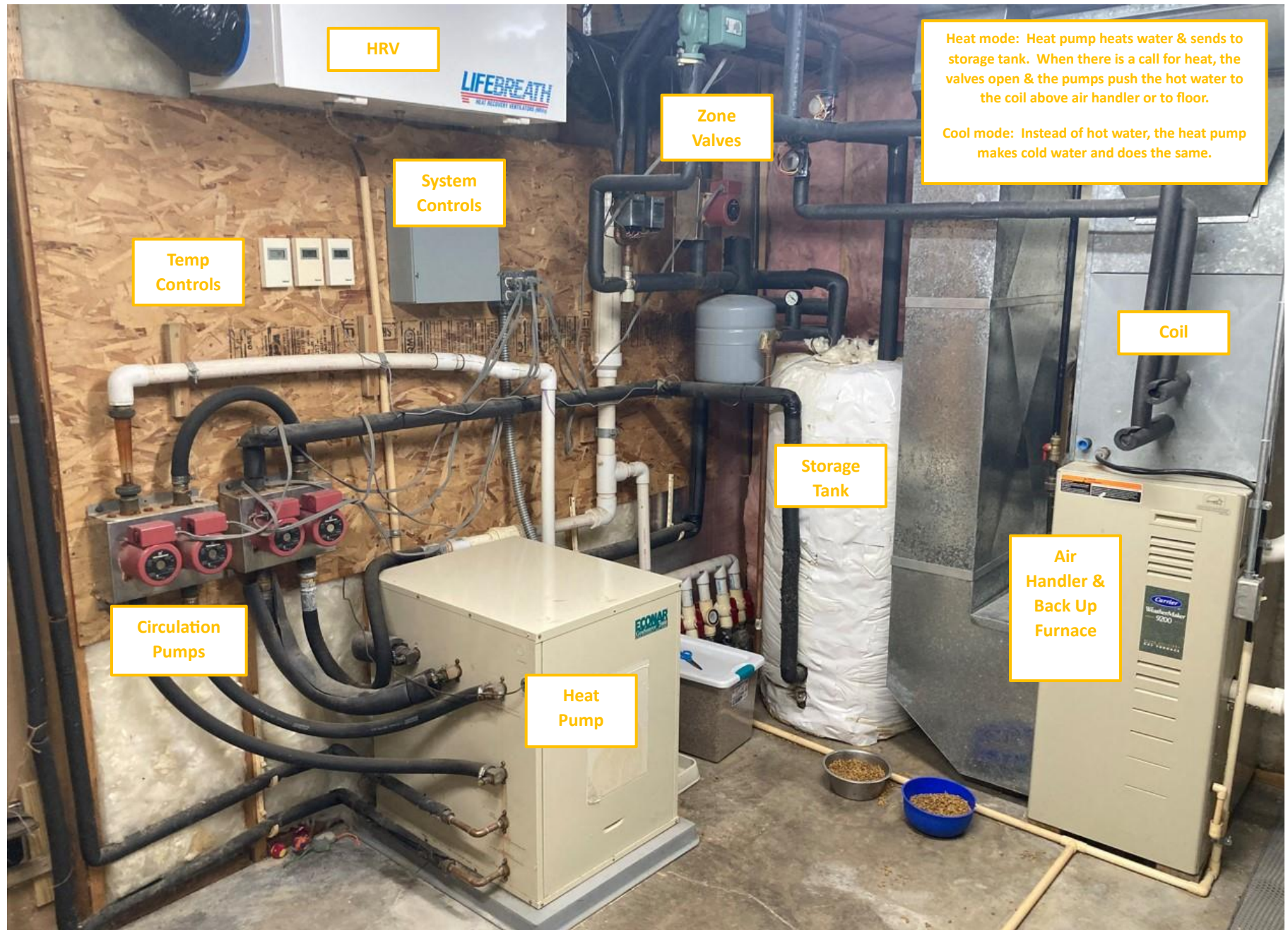
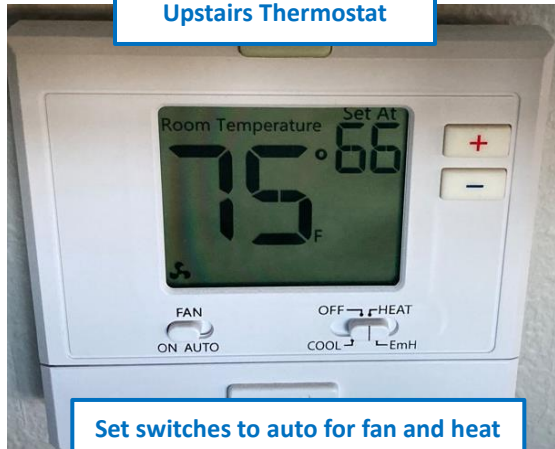


## HVAC Systems



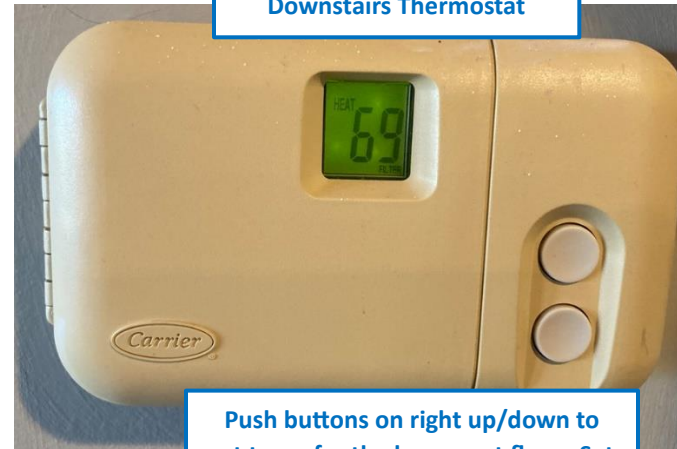
## Main System Heating:

Upstairs Thermostat



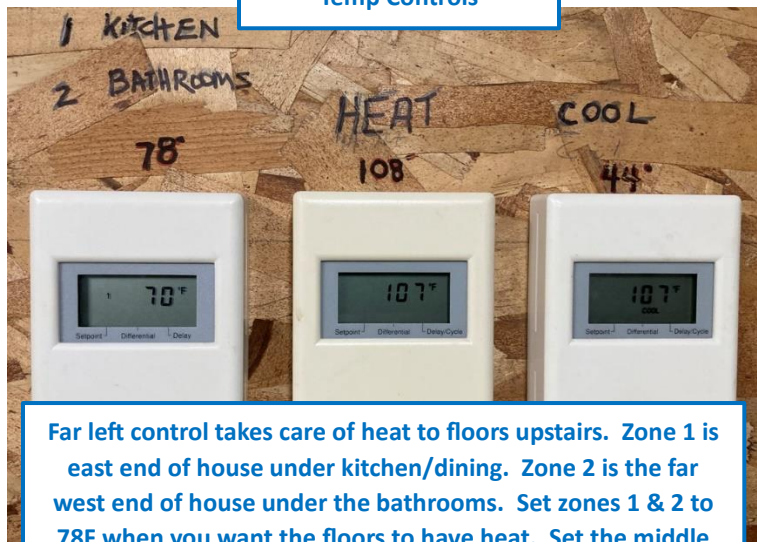
Set switches to auto for fan and heat for heat mode.

Downstairs Thermostat



Push buttons on right up/down to set temp for the basement floor. Set low when no heat is needed.

Temp Controls



Far left control takes care of heat to floors upstairs. Zone 1 is east end of house under kitchen/dining. Zone 2 is the far west end of house under the bathrooms. Set zones 1 & 2 to 78F when you want the floors to have heat. Set the middle and far right controllers to 108F for the temp of the water that is stored in storage tank.

Temp Controls



To change temp, pull cover off & press all 3 buttons together for a couple of seconds. When number blinks, press "item" until you get to the temp number as shown. Press arrows up/down as needed. Press "item" a few times on left controller to toggle between zone 1 & 2 settings.

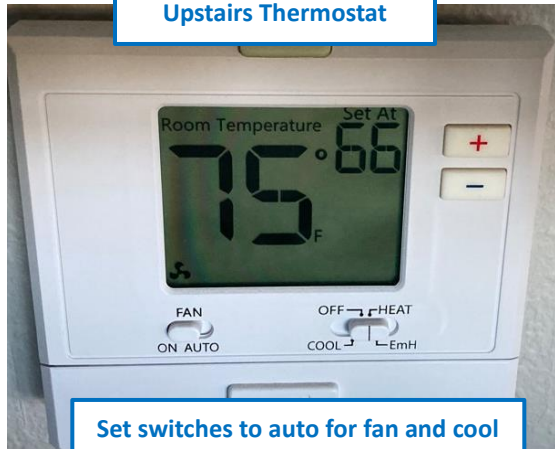
Sight Tube for Ground Loop Water Level



Make sure you can see water in the poly tube on left. If low, take cap off top and add water.

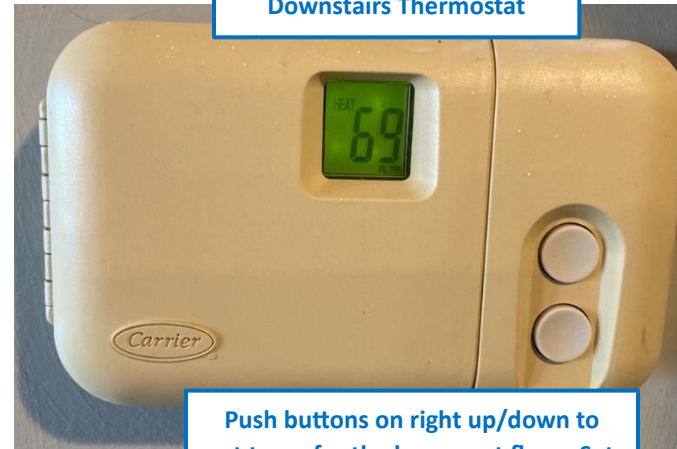
## Main System Cooling:

Upstairs Thermostat



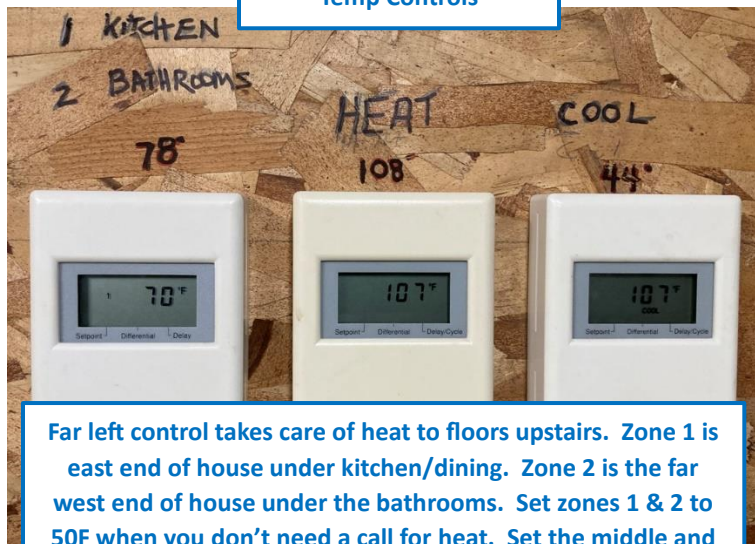
Set switches to auto for fan and cool for cool mode.

Downstairs Thermostat



Push buttons on right up/down to set temp for the basement floor. Set low when no heat is needed.

Temp Controls



Far left control takes care of heat to floors upstairs. Zone 1 is east end of house under kitchen/dining. Zone 2 is the far west end of house under the bathrooms. Set zones 1 & 2 to 50F when you don't need a call for heat. Set the middle and far right controllers to 44F for the temp of the water that is stored in storage tank.

Temp Controls



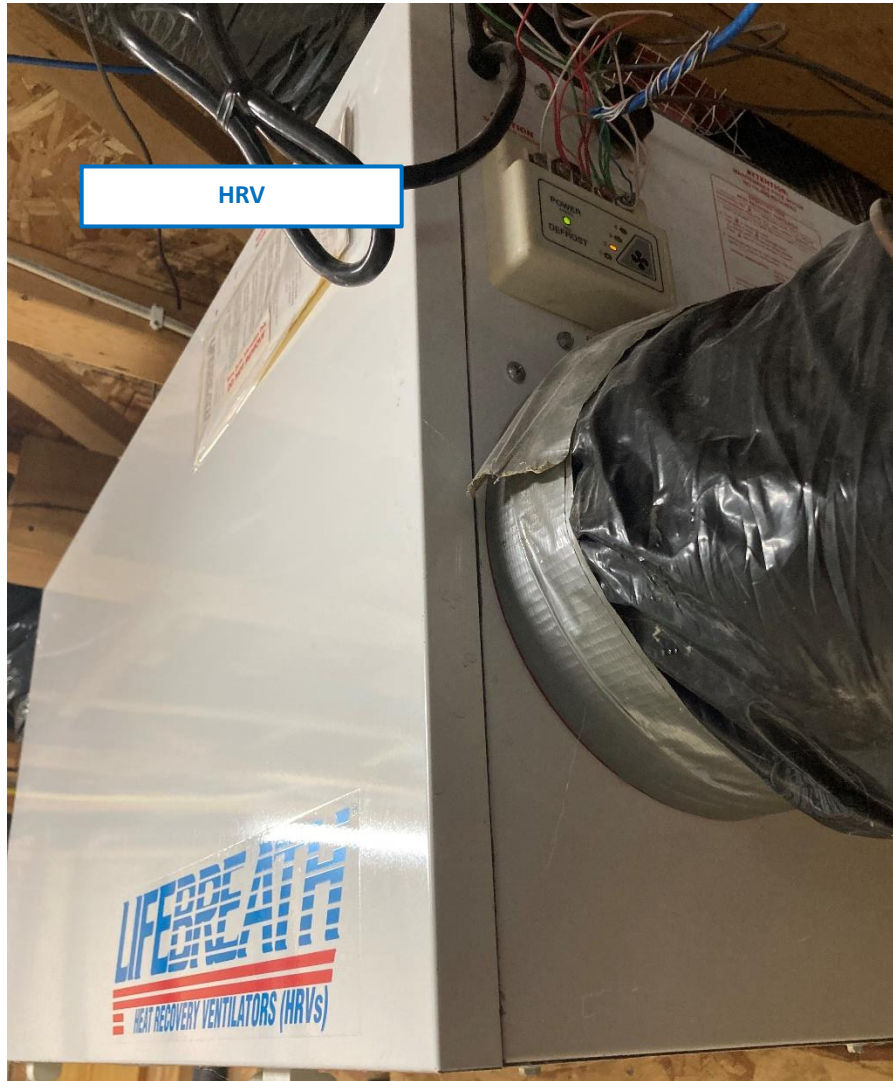
To change temp, pull cover off & press all 3 buttons together for a couple of seconds. When number blinks, press "item" until you get to the temp number as shown. Press arrows up/down as needed. Press "item" a few times on left controller to toggle between zone 1 & 2 settings.

Sight Tube for Ground Loop Water Level



Make sure you can see water in the poly tube on left. If low, take cap off top and add water.

## HRV System Control:



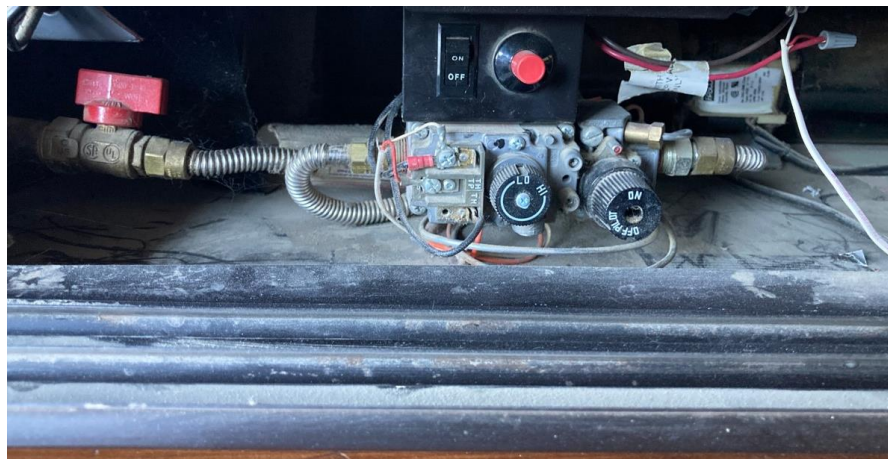
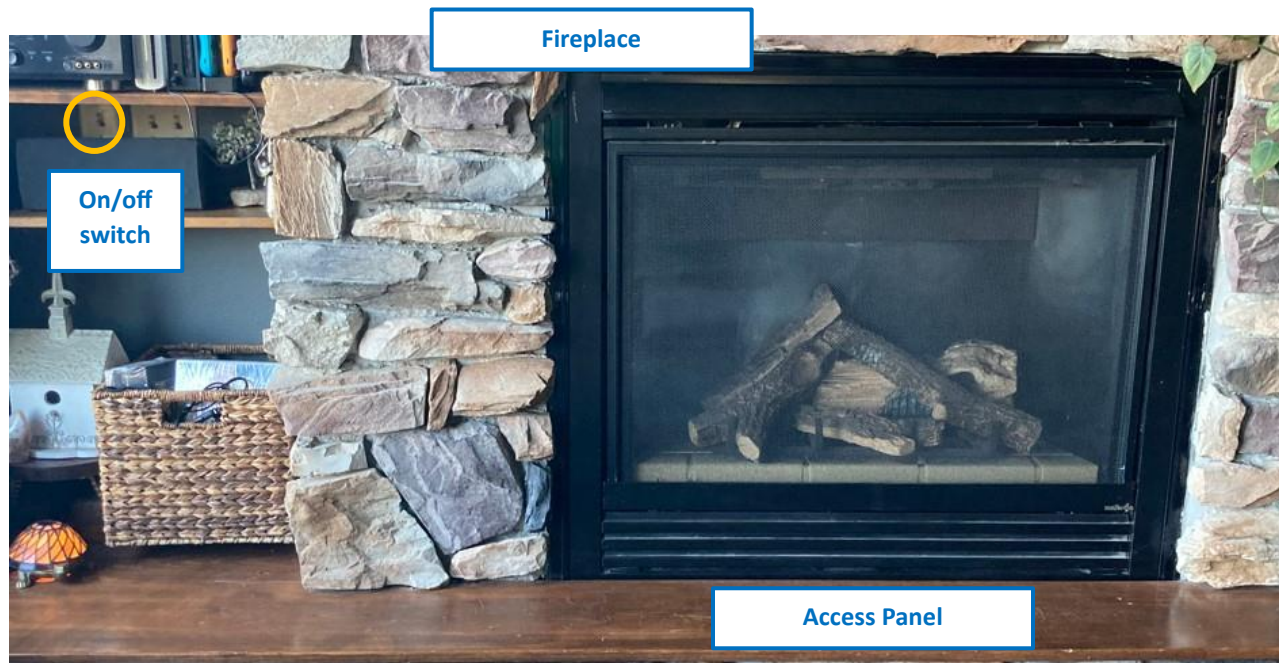
The HRV is used to bring in fresh air from outside and mix with exhaust air going back out. It has its own fan and controls. There is a button control on the side of the HRV to leave the fan running continuously. If you press it a few times, you can shut it off and it will only come on from one of the other controls below.

The upstairs humidistat will turn the fan on if the inside humidity is higher than setting. The controls in the bathrooms will also turn the fan on for just a period of time to pull nuisance air out.

There is a coil and filter on the inside of the HRV unit that can be accessed and cleaned by pivoting the front cover down.

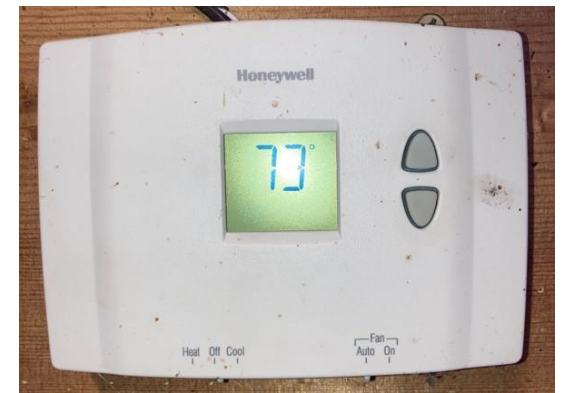


## Fireplace Controls:



To start fireplace, make sure that the pilot light is on. If not, open the access panel. Then make sure that the red valve is in the open position as shown. Rotate the knob that says "pilot" to the pilot position according to the upper red dot indicator above the knob. While pushing in on the knob manually push the red button several times to get the pilot to turn on. Release the knob. If the light stays on rotate to the "on" position. If it doesn't stay on, then press button again and repeat button push. Then use the electric switch left of the fireplace near shelves to turn the fireplace on. Flame will start and once warm enough the fan will turn on. Turn switch to off position and the flame will stop. Fan continues to run until the temperature is low enough to shut off.

## Garage Heater:



To turn on garage heat, first make sure that the yellow valve handle is in the "open" position. Currently shown as closed. Then go to the south wall near service door to turn the switch to "heat". Set the temp as needed. Once the thermostat calls for heat, the furnace will cycle a couple of times to get the flame started for continuous running.