

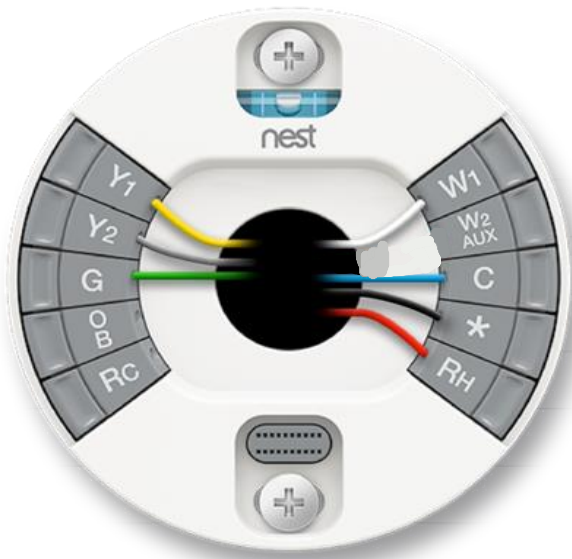
The Omachron FCU/HRV Control Board can operate with the Nest thermostat. The Nest thermostat must be configured using Pro installation processes as identified in the Nest Pro Installer Guide. Changing to the Nest thermostat requires that electrical connections be removed and applied. While unlikely, these changes could damage the existing thermostat, the Nest thermostat, or the Fan Coil Control Board (FCCB). If unsure of how to proceed, consult a qualified electrician, an HVAC specialist, or a Nest Pro Installer. There is also a small risk of a 24VAC electrical shock. Damage to any of these components is not covered by any warranty and is at the risk of the installer.

Instructions

- 1) Prior to removing any existing thermostat or installing the Nest thermostat, remove the power for the Fan Coil Unit and ensure that the power is removed from the FCU control board.
- 2) Take a picture of the connections to the existing thermostat. There will be seven or eight wires depending on whether or not the thermostat can control the HRV.
- 3) Disconnect and remove the existing thermostat and install the base for the Nest thermostat.
- 4) Connect the wires to the base using a combination of the “Conventional 1 Stage Heating, 1 Stage Cooling” setup and the “Multi-Speed Fans: 3 Speed” setup. The descriptions below are based on the Nest understanding of the connections function.
- 5) Attach the thermostat to the base.
- 6) Apply power to the FCU. The thermostat should power up.
- 7) Once the thermostat initializes, it will detect there has been a change to the equipment. Using Pro Installation, configure the system as per the configuration below.

Configuration Complete

Once the configuration is complete, the thermostat can join the local Wi-Fi and the rest of the standard Nest configuration and account settings can be completed.

Nest Label	Nest Function Description	FCCB Label	Nest
Y1	Compressor Relay (Stage 1)	YA	
Y2	Compressor Relay (Stage 2), 2 nd speed fan relay	FAN-M	
G	Fan Relay	FAN-L	
O/B	Heat pump changeover valve		
Rc	24VAC power from cooling transformer		
W1	Heat Relay (Stage 1)	WY	
W2/AUX	Heat Relay (Stage 2) Auxiliary Heat relay		
C	24VAC Common Wire	24C	
*	Star: W3, E, HUM/DHUM, 3 rd speed fan relay	FAN-H	
Rh	24VAC power from heating transformer	24R*	