

3.3 CONNECTION TO THE CENTRAL FORCED-AIR SYSTEM

⚠ WARNING

Never connect a 120-volt AC circuit to the terminals of the central forced-air system interlock (standard wiring). Only use the low voltage class 2 circuit of the central forced-air system blower control. The unit is designed for low voltages only. Connecting the unit on 120-volt circuit would damage it instantly.

3.3.1 UNIT OPERATION USING A DRY CONTACT CONNECTION

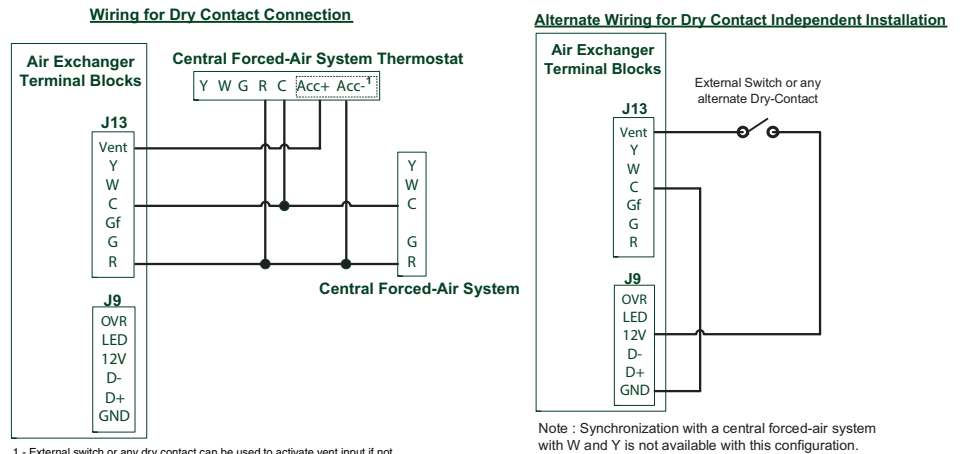
This unit can be controlled by any dry contact connection such as the thermostat equipped with an optional ventilation output.

Once wired, unit will toggle between the Standby mode when contact is opened and the selected mode when contact is closed. Choose among these 4 configurations: minimum (unit operating in MIN speed), intermittent (unit operating in MIN speed 20 min/hr then as per INT configuration selection for 40 min), auto* (unit operating according to outdoor temperature) and maximum (unit operating in MAX speed) in DRY option on the LCD screen when the VENT contact is activated. Refer to section 5 for more details.

* In auto mode, the unit will operate as follows:

- Less than -25°C = 10 min/hr
- -25°C to -7°C = 20 min/hr
- -7°C to 10°C = 40 min/hr
- 10°C to 25°C = MIN speed
- 25°C to 28°C = 30 min/hr
- 28°C to 33°C = 20 min/hr
- Above 33°C = 10 min/hr

3.3.2 UNIT INTERCONNECTION WITH CENTRAL FORCED-AIR SYSTEM (R/C/G/Gf)

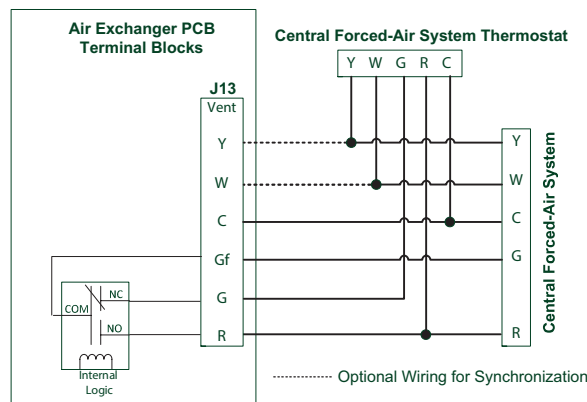


1 - External switch or any dry contact can be used to activate vent input if not available on the thermostat. Some thermostats offer a single wire 24VAC output for accessory ventilation. It can be directly connected to vent input and therefore the Acc- / R connection is not required.

NOTE : This dry contact option will override the main wall control so we do not recommend the use of a wall control with this type of connection.

NOTE : Following ducting installation configuration and temperature conditions, it may be necessary for the unit to operate continuously. Refer to section 2.2 for more details.

Wiring Options with Central Forced-Air System



These connections must be done if you want the unit to force the central forced-air system blower operation when ventilating (refer to solid lines in above diagram).

NOTE: These connections are required for installation configuration T-4. Refer to section 2.2 for more details.

3.3.3 SYNCHRONIZATION WITH CENTRAL FORCED-AIR SYSTEM FUNCTION

The Virtuo technology allows synchronizing the unit operation with the central forced-air system operating time. It prevents unnecessary central forced-air system operating time while providing a better air distribution.

To use this function, W and Y connections must be added to R and C connections to inform the unit that the central forced-air system is running (refer to dotted lines in above diagram).