Technical Department

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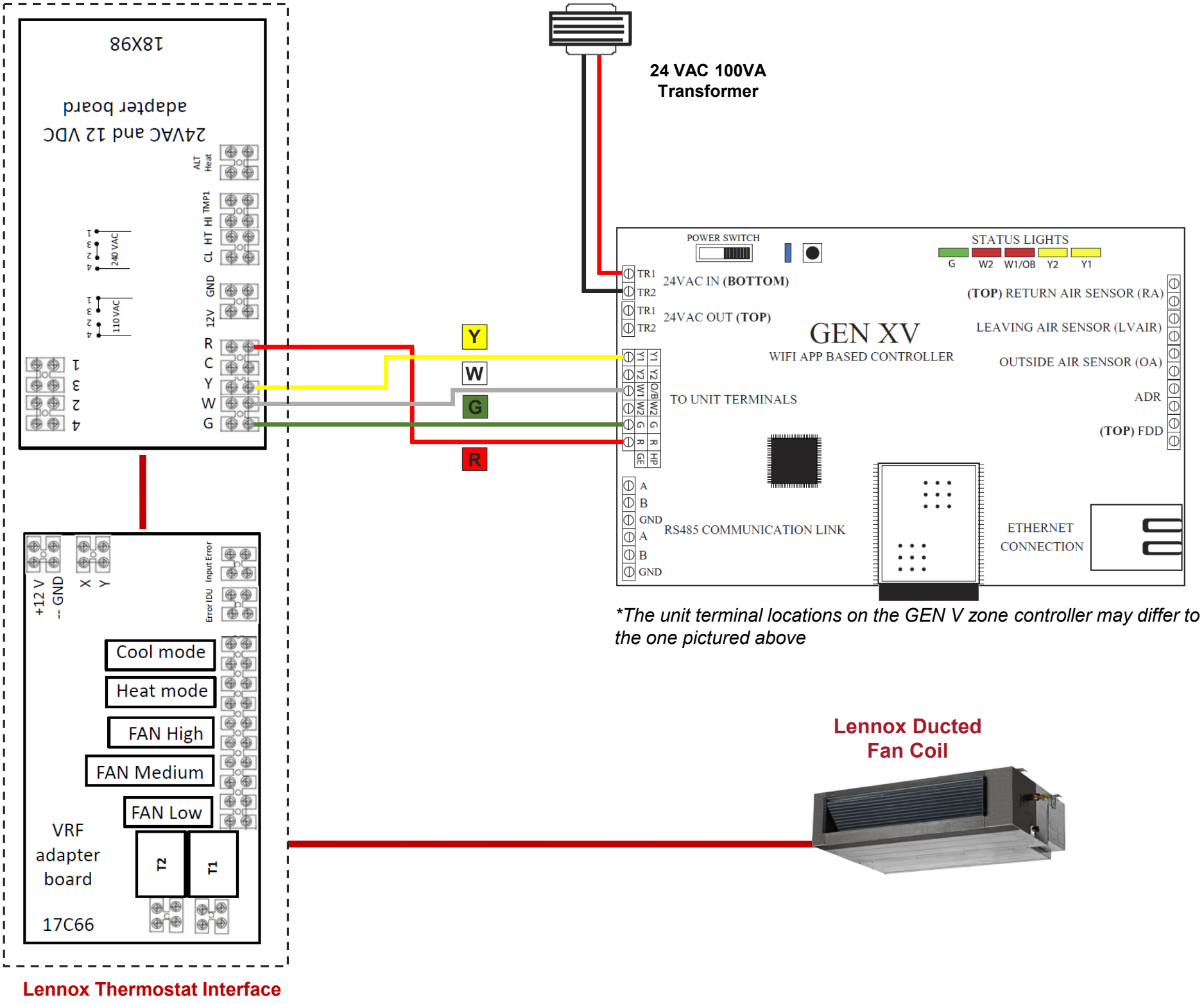
PRODUCT BULLETIN

Date: 01/19/2021
Subject: Lennox – VRF Thermostat Interface with VRF-VAV

Question:
How does the GEN XV or GEN V VRF-VAV zone controllers integrate with a Lennox VRF system using a Lennox thermostat interface?

Solution:
To integrate a GEN XV or a GEN V zone controller with a ducted Lennox VRF system a Lennox thermostat interface is required (field supplied), no additional relays should be required. Wire the Lennox thermostat interface to the ducted fan coil per the manufacturer's instructions. Do not attempt to use the thermostat interface to provide power to operate the GEN XV or GEN V zone controller; a separate 24 VAC/100 VA transformer must be used to provide power to the GEN XV or GEN V zone controller. Wire the GEN XV or GEN V zone controller to the Lennox thermostat interface per the wiring diagram on the next page (R to R, Y to Y, G to G, and W to W). 18 gauge copper thermostat wire is recommended. The "C" terminal of the thermostat interface is not used in this application.

On a call for heat, cool, and/or fan the GEN XV or GEN V zone controller will energize their corresponding relay closing the contacts and completing the circuit between "R" to "W, Y, and/or G" of the thermostat interface thereby initiating a call for heat, cool, and/or fan to the ducted VRF system. When the call is satisfied the GEN XV or GEN V zone controller will de-energize its corresponding relay(s) and the VRF unit should discontinue the current mode of operation.



**The unit terminal locations on the GEN V zone controller may differ to the one pictured above*