



TECHNICAL SERVICE BULLETIN

TSB C-GN-OT-0069

Date: April 16, 2025,
To: All Service and Parts Managers
From: Technical Services Department
Subject: Accessory / Zoning Kit for R-32 Systems

We are providing new information to service technicians about R-32 refrigerant leak mitigation when the HVAC installation uses electronic accessories such as zoning, electronic air cleaner, UV lamps or humidifiers. If there is an R-32 refrigerant leak inside the indoor unit, the system's refrigerant leak detection system (RDS) will turn off the heating, cooling and continuous fan modes and ensure the indoor blower is running at maximum CFM to dissipate any R-32 refrigerant.

The A2L Accessory / Zoning Control (Kit # **0230K00007**), working with the refrigerant leak detection system, will open all zone dampers to 100%. Any accessory considered a potential ignition source (see table below) and installed within the system's air stream will be deenergized during an active refrigerant leak alarm. After the refrigerant detection system removes the leak alarm, the A2L Accessory / Zoning Control will restore power to the accessory devices and return control of zone dampers to the zoning control.

| Accessory/ Options | Need to mitigate? | Reasoning |
|---------------------------|----------------------|---|
| Dehumidifiers | No | When dehumidifiers are controlled by furnace and air handlers and operate only in Cooling or Heating mode. It must not operate in Fan only mode. |
| | Yes | If dehumidifier is in air duct, and controlled independently. |
| Heat strips | No | Electric Heater Kits are controlled by RDS. |
| HRV & ERV | Yes | Not controlled by furnace/air handler. Should be disabled during mitigation. |
| Humidifiers | No | If the wires are connected through the HUM terminals of the control board, the dehumidifier will be disabled when unit goes into mitigation mode. |
| | Yes | If humidifier is in air duct, and controlled independently. |
| Powered Ventilating | Yes | Not controlled by furnace/air handler. Need to have the dampers open to allow ventilation to dissipate leak concentration. |
| Zoning kits/ Dampers | Yes | Not controlled by furnace/air handler. Need to have the dampers open to allow ventilation to dissipate leak concentration. |
| UV Light | Yes | Operating temperature of UV light may exceed the ignition source temperature (Less than 700 F). |
| Electronic Air Filters | Yes | Our control boards do not disable the EAC terminals during mitigation. Therefore, any EAC would need to be disabled during mitigation. |

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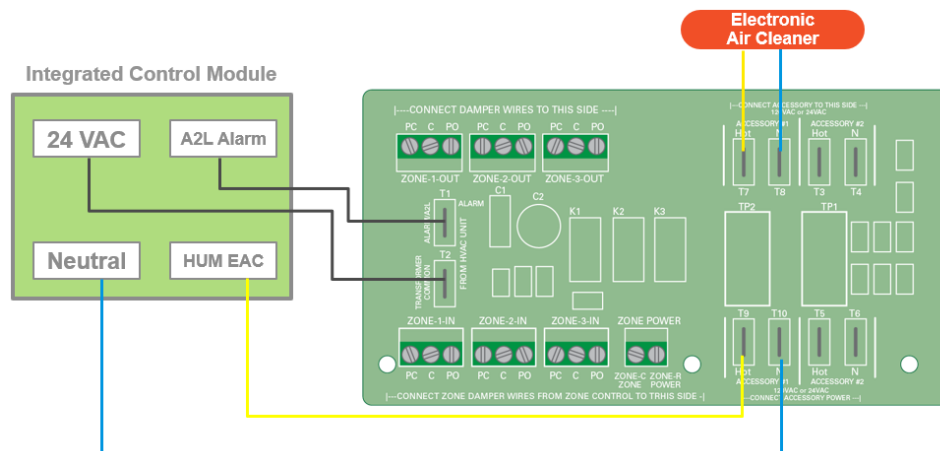
Please read and follow the Accessory /Zoning Kit instructions carefully (use QR code below to access IO-7032).

When connecting 120 volt hot and neutral wires to the Accessory/Zoning control, National Electrical Code (NEC) requires the wiring be secured with a strain relief. To provide this strain relief, install the entire Accessory/Zoning control box inside of a metal enclosure large enough to accommodate the control box, 120 volt wiring and electrical box connectors to secure the wiring (at least 10 inches by 8 inches and 3 inches deep). The enclosure should have knockouts that align with the Accessory/Zoning control box to secure the 120 volt wiring. The front cover of the enclosure would not need to be installed as long as the wiring connections to the Accessory/Zoning control are within the Accessory/Zoning control box.



Electronic Air Cleaner (EAC)

The EAC hot and neutral wires from the furnace control board must be connected to one of the Accessory connections on the bottom of the Accessory / Zoning Control. The EAC hot and neutral wires to the electronic air cleaner would then be connected to the matching Accessory connection on the top of the Accessory / Zoning Control and routed to the EAC.



UV Lamp

The power source for the UV lamp must be connected to one of the Accessory connections on the bottom of the Accessory / Zoning Control. The hot and neutral wires to the UV lamp would then be connected to the matching Accessory connection on the top of the Accessory / Zoning Control.

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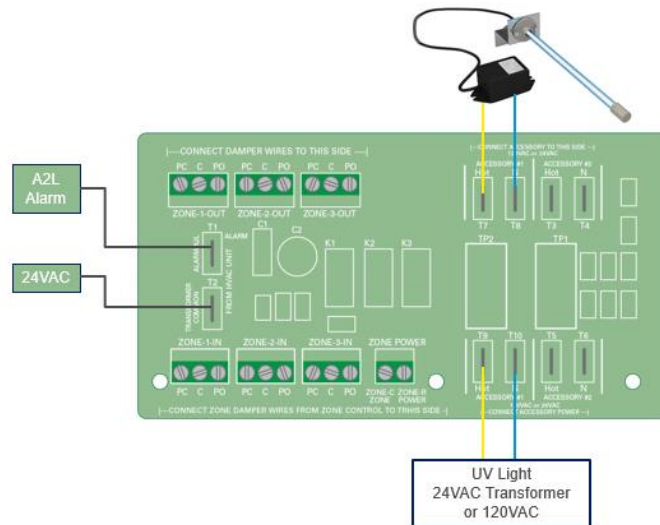
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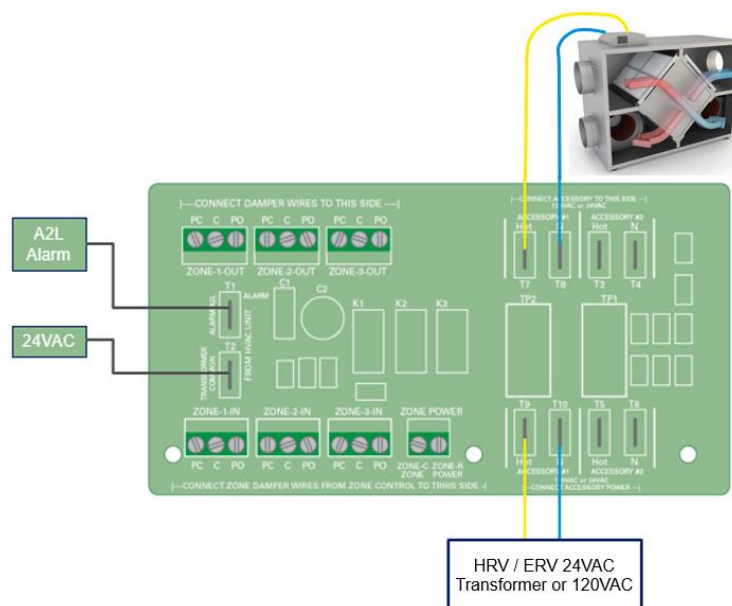
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HRV & ERV Energy Recovery Ventilators

Since these accessories are directly connected to the supply and return duct of the HVAC system, they should be considered a potential ignition source during RDS mitigation. The power source for the HRV or ERV must be connected to one of the Accessory connections on the bottom of the Accessory / Zoning Control. The hot and neutral wires to the HRV or ERV would then be connected to the matching Accessory connection on the top of the Accessory / Zoning Control.



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Humidifier

120V HUM-H terminal is energized when the “W” terminal is energized by a heating call from the thermostat and the inducer motor is energized. The 24V HUM Normally Open contacts would close when the “W” terminal is energized by a heating call from the thermostat and the inducer motor is energized. During a refrigerant leak mitigation by the RDS, the “R” wire to the thermostat is disabled, which removes the heating call (“W”) from the thermostat to the furnace and the inducer motor is not energized. Since the refrigerant detection system disables the heating call from the thermostat during refrigerant leak mitigation, the A2L Accessory / Zoning Control would not be needed for an installed humidifier wired through one of the HUM connections on the furnace control board.

Dehumidifier

Typically, a dehumidifier is a stand-alone accessory not directly connected to the HVAC duct system. It is most often used to dehumidify damp basements or crawl spaces. If a dehumidifier is directly connected to the airstream of an R-32 system, the power to the dehumidifier would need to be disabled during a refrigerant leak mitigation. If the control for the dehumidifier is separate from the refrigerant leak detection system, the power source for the dehumidifier must be connected to one of the Accessory connections on the bottom of the Accessory / Zoning Control. The hot and neutral wires to the dehumidifier would then be connected to the matching Accessory connection on the top of the Accessory / Zoning Control.

Double Pole, Double Throw, Normally Closed Relay – An Alternative Option

If the R-32 System has no zone system and only has one or two accessories listed above, a double pole, double throw, normally closed relay can be used for each accessory as an option to the A2L Accessory / Zoning Control. Part # **0130M00908** or equivalent relay must be normally closed double pole, double throw with a 3A N.C. rating at 277VAC and a 24-volt coil. For a single accessory rated above 3 amps, the normally closed double pole, double throw relay must be rated to match that accessory’s amp draw and must have a 24-volt coil. The 24 volt Common and Alarm terminals from the refrigerant leak detection system (RDS) would energize the relay and open the circuits during an active refrigerant leak alarm.

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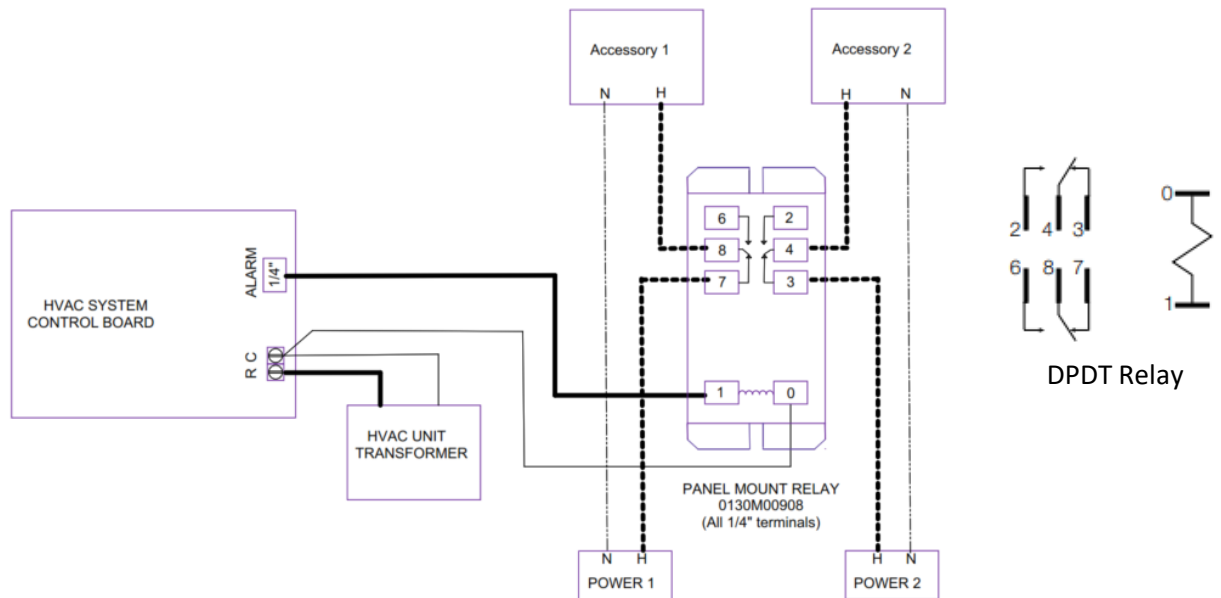
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If you have technical questions, please call 1-855-DAIKIN1, option 3, or e-mail TechnicalServicesDaikin@daikincomfort.com.

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