



ISO 9001:2000 Certified

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**AIR-VAC ENGINEERING
COMPANY, INC.**
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Diffuser Heater Installation for DRS Units

Tools Needed: American Standard Allen Wrenches, Multi-Meter

Please note that a burned out heater could possibly cause other parts of the system to fail.

Perform these quick steps to ensure the new heater will not fail prematurely.

NOTE: To determine whether a heater is good or not, check with a multimeter:
Test across the two power leads, $26.0 \Omega \pm 5.0$ (coil). Across the two thermocouple leads should have continuity.



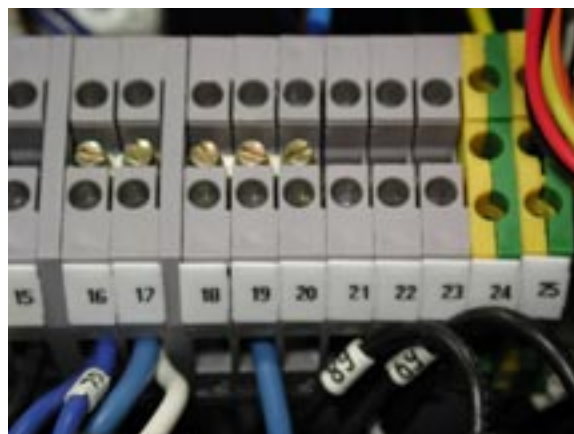
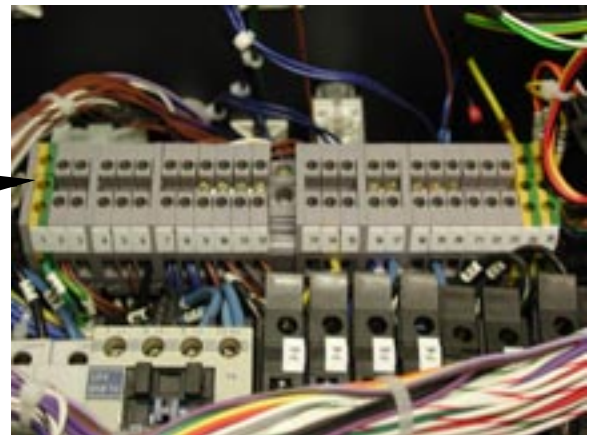
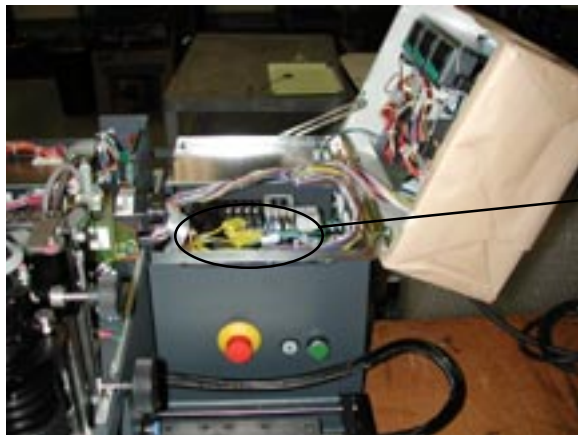
Power Leads

Thermocouple Leads

- 1) Install new heater into diffuser plate.
- 2) Route wires back to the terminal bar where the previous heater was hooked up.
- 3) Route air tube back to the pneumatics panel and securely push into fitting labeled diffuser air (right or left).



- 4) Locate the terminal bar in the right side power panel. Power up machine and immediately check TB18 with 22 (left diffuser) TB18 with 21 (right diffuser). If 1/2 volt or more is present, immediately turn off machine and replace the Solid State Relay controlling that heater.



For CXX units TB23 with TB24 (right diffuser) TB21 with TB22 (left diffuser).

Relay Replacement for DRS24, 25 Models

- 1) Solid State Relays are located in the right side of unit (power module).
- 2) Remove panel via four (4) screws.



- 3) Open panel to the power module right to left. Locate bad diffuser relay and replace.



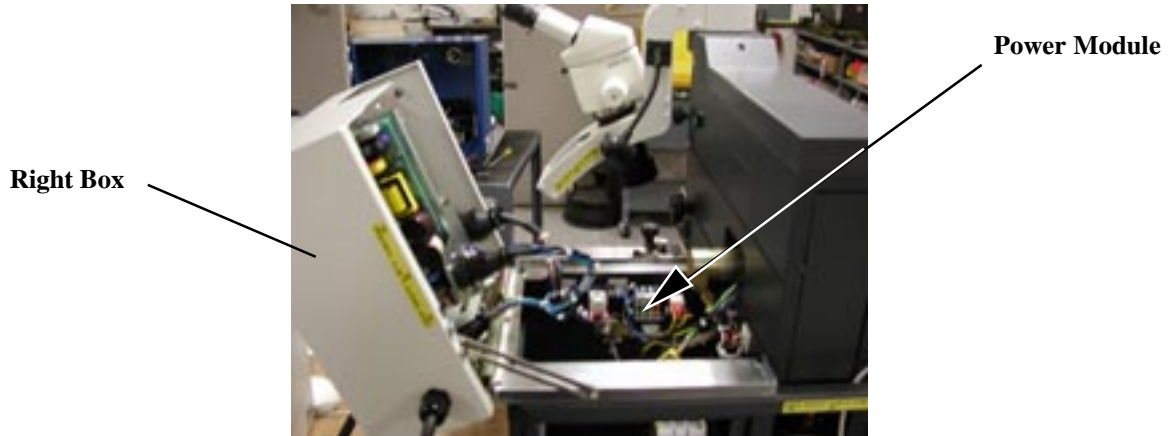
Nozzle Relay

Left Diffuser Relay

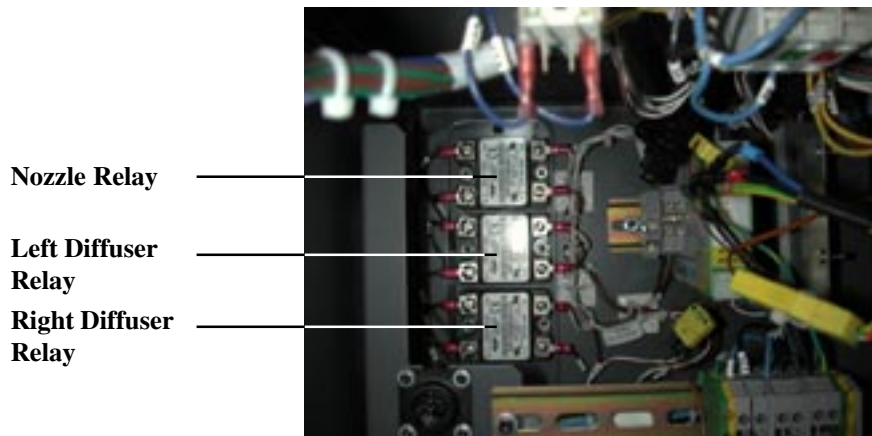
Right Diffuser Relay

Relay Replacement for DRS24NC Models

- 1) Solid State Relays are located in the right side of unit (power module).
- 2) Open right box.



- 3) Located inside are the relays. Remove the protective plexiglass cover, and the bad diffuser relay.



Warranty

Air-Vac Engineering Company warrants its equipment for a period of one (1) year from date of shipment on all parts, materials and labor costs required to repair the system except for component parts that are considered “wear and tear” items which are warranted for ninety (90) days. These include, but are not limited to, heaters, belts, lights, vacuum cups and tubing.

Air-Vac agrees to repair or replace any or all such equipment that may prove to be defective within the warranty period, without expense, excluding shipping to the owner.

This warranty shall not apply to any products that have been repaired or altered except by Air-Vac Engineering.

Services under warranty shall not affect an extension of the warranty period, nor will a new warranty period be granted for the parts, which were replaced/repared. The title of the replaced parts will automatically pass to Air-Vac.

Air-Vac reserves the right to reject replacement under this warranty where, in the sole opinion of Air-Vac, the defect is due to obvious misuse and/or improper maintenance of the module or any part thereof.

The express and/or implied warranty of Air-Vac is limited to the replacement and/or repair of any item defective in material and/or workmanship. Other damages, if any, direct or consequential are expressly excluded from this warranty.

Air-Vac shall be liable under this warranty only if 1) Air-Vac receives notice during the appropriate warranty period (90 days or 1 year as applicable); 2) The products are operated in accordance with the supplied documentation; and 3) Such products are, to Air-Vac’s satisfaction, determined to be defective.

When contacting Air-Vac for warranty inquiries, please provide the following information:

- Order number which the parts were shipped
- Model and serial number of the product
- Reason for warranty

Products cannot be returned to Air-Vac without authorization – please call for an RMA #.

Heater Limited Life Warranty

Air-Vac Engineering Company warrants the heaters for a period of ninety (90) days from date of shipment.

Air-Vac agrees to repair or replace any or all such equipment that may prove to be defective within the warranty period, without expense, excluding shipping to the owner.

This warranty shall not apply to any products that have been repaired or altered except by Air-Vac Engineering.

Air-Vac reserves the right to reject replacement under this warranty where, in the sole opinion of Air-Vac, the defect is due to obvious misuse and/or improper maintenance of the module or any part thereof.

Services under warranty shall not affect an extension of the warranty period, nor will a new warranty period be granted for the parts, which were replaced/repared. The title of the replaced parts will automatically pass to Air-Vac.

Heating element life is affected by several factors, temperature, airflow, condition of incoming air (water and oil contamination) and overall process cycle. These products are considered a “consumable” item. The length of useful service will vary based on the conditions under which they are run. Higher temperatures and/or lower flows will cause shortened life.

The express and/or implied warranty of Air-Vac is limited to the replacement and/or repair of any item defective in material and/or workmanship. Other damages, if any, direct or consequential are expressly excluded from this warranty.

Air-Vac shall be liable under this warranty only if 1) Air-Vac receives notice during the warranty period; 2) The products are operated in accordance with the supplied documentation; and 3) Such products are, to Air-Vac’s satisfaction, determined to be defective.

When contacting Air-Vac for warranty inquiries, please provide the following information:

- Order number under which the parts were shipped
- Model and serial number of the product
- Reason for warranty

Products cannot be returned to Air-Vac without authorization – please call for an RMA #
