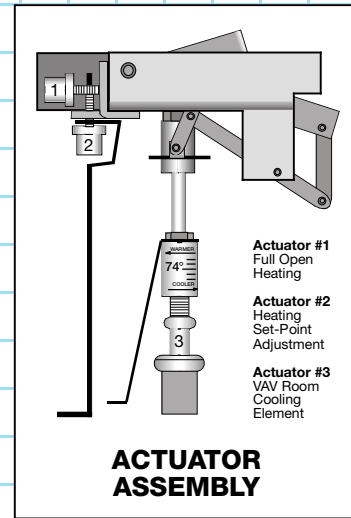
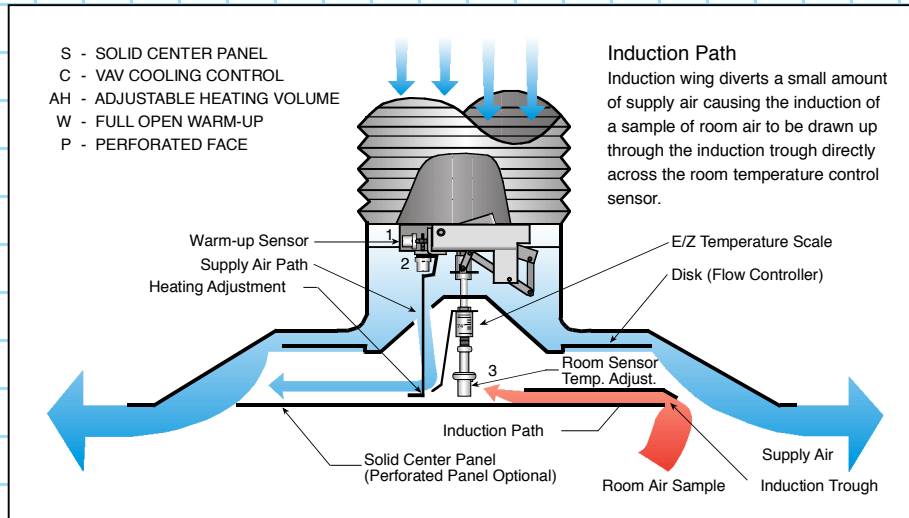


SCAH / PCAH

Thermally Powered Diffusers



SCAH "Smart" Diffuser

How it works

The SCAH "Smart" Diffuser change over from the heating and cooling modes are determined by the supply air temperature. Change-over to heating mode begins when supply air temperature rises above 74 degrees. This disengages the room temperature control cooling actuator #3. Change-over back to cooling mode begins when supply air temperature falls below 68 degrees. In the return air mode supply air temperature is approx. 74 degrees, the diffuser will run at about 50% volume.

Operation

Cooling mode - cool supply air cause actuators #1 and #2 to retract which engages room temperature control actuator #3. A rise in room temperature and the unit will respond (VAV) allowing cool air into the space until room reaches desired temperature. (factory set 74 degrees)

Heating mode - warm supply air will result in a full open warm-up position initiated by actuator #1. Then modulating to a preset position for heating (factory set minimum flow) controlled by actuator #2. In this mode, room temperature does not effect the heating position. It is completely adjustable by the occupant from full open to full closed.

Temperature adjustment

Cooling Adjustment

Factory setpoint 74 degrees. Turn room actuator clockwise for cooler room temperature and counterclockwise for warmer room temperature. Determine room temperature set-point by aligning the end of the actuator with the indicators on the temperature scale. Each full rotation for each indicator on the temperature scale will equal plus or minus approximately 2 degrees. For 74 degree setting turn actuator clockwise to stop, then turn counterclockwise 3 full turns.

Heating Adjustment

Heating setpoint factory set at 1/4 or minimum flow.

More heating turn rod counterclockwise.

Less heating turn clockwise.

PERFORMANCE AIR PRODUCTS, INC.

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Performance Air Products, Inc., warrants the thermal diffuser for a period of 10 years. The diffusers shall be free from defects in material and workmanship. We agree to repair or replace any defective parts. This warranty excludes shipping charges and field labor required to exchange, test or service the diffuser.