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SUGGESTED SPECIFICATION FOR RICKARD THERMO-DISC THERMALLY POWERED VCD, VRD or VSD5 COOLING ONLY VARIABLE GEOMETRY VAV DIFFUSERS:

Supply and install THERMO-DISC model VCD or VSD5 Variable Geometry VAV ceiling diffusers as manufactured by Rickard Air Diffusion (Pty) Ltd. of Cape Town, Republic of South Africa.

Each diffuser shall be Thermally Powered to infinitely vary the supply of cold air into the space by means of regulating a variable aperture damper, known as a control disc, vertically within the diffuser. Supply air from the variable geometry diffusers will discharged horizontally in a 360° pattern and will maintain constant air movement in the space throughout the range of volume variation from 100% down to minimum air which is adjustable between 0 and 30%. The Thermal room sensing element shall be located behind a cap in the center of the diffuser appearance panel. Each diffuser shall be individually adjustable to sense room temperature within the space between 19°C and 24°C to within 1°C of setpoint temperature. No tools or force shall be required to access and adjust the setpoint adjustment knob.

Each diffuser shall be self-contained and require no external power source to maintain space temperature throughout the range of operation. The diffuser shall have a detachable faceplate so that it can hang and be adjusted or be completely removed from the occupied space, giving access to all moving parts from below the ceiling. Volume flow measurement is possible by detaching the face plate, unclipping the lever arm springs and re-attaching. The diffusers shall carry the manufacturer's 10-year warranty.

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