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SUGGESTED SPECIFICATION FOR RICKARD ELECTRONICALLY CONTROLLABLE VLB1 VARIABLE GEOMETRY VAV DIFFUSERS:

Supply and install Electronically Controllable model VLB1 Variable Geometry VAV ceiling as manufactured by Rickard Air Diffusion, (Pty) Ltd. Cape Town, Republic of South Africa.

Each diffuser shall be driven by means of a stepper actuator capable of infinitely varying the supply of conditioned air into the space by means of regulating a variable aperture damper within the diffuser. Supply air from the variable geometry linear bar diffuser will be manually adjustable between horizontal and a vertical discharge pattern as required. The linear bar diffuser will maintain constant air movement in the space throughout the range of volume variation from 100% down to 30%. Minimum and maximum damper limits shall be electronically adjustable as desired.

Each diffuser shall be fitted with Multi loop Modular controls for easy slave to master upgrades or downgrades. Master upgrade options shall be remote wired sensing or remote wireless sensing as required. Airflow sensing and top-up heating (with or without airflow cut-outs) shall be upgradeable options as required. All options shall also be factory fitted if required.

Only one cable that supplies power and communication shall be allowed between each diffuser. Each inter-diffuser cable shall be linked in a daisy chain manner between an interface box fitted to the outside of each diffuser. All inter-diffuser cables shall be fitted with rugged automotive grade mini-fit molex connectors and be a minimum of 8m unless otherwise specified. Maximum diffuser control cable length for each power supply module shall not exceed a total of 150 meters. Power supply units shall be capable of supplying a minimum of 15 diffusers. Up to 4 Power Supply Units and 60 diffusers shall be accessible through one Master Communications Unit (MCU). Multiple MCU's shall be daisy chained together as required. Each MCU must be addressable and be BACnet (TCP/IP, MSTP) or LonWorks compatible. Free MLM diffuser management and commissioning software shall be supplied for the adjustment of all diffuser settings, upgrades, building management and commissioning. MLM software must be PC compatible through a USB or MCU device.

VLB1 can be surface mounted to a plastered ceiling. The VLB1 shall have a perforated plate on each side of the nozzle to ensure adequate adhesion of the plaster material. The nozzle shall be extended beyond the perforated plate to give the plasterer an edge to plaster up to. VLB1's shall be joinable to other dummy linear bar nozzles, VLB1 nozzles or CLB nozzles. Surface mount VLB1's shall have an access panel installed in the plenum so that the motor is accessible. Controls shall be accessible from the outside of the VLB1. Volume flow measurement is possible by electronically driving the diffuser damper fully open through the MLM software. Flow measurement is then possible with a flow hood or airflow measurement device fitted and calibrated to the diffuser. All diffusers shall carry the manufacturer's 2-year warranty.

DIRECTORS

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