

Rickard **Next Gen** **VAV Diffusers**



Rickard VAV Diffusers provide the occupant with optimal thermal comfort and improved indoor air quality. These Next Gen diffusers are made easier to install, include more features, functionality and can operate through a BMS.



Optimising Indoor Thermal Comfort

The diffusers are engineered with a reliable design eliminating the complexity of parts. The master and slave controller, and sensor board have been combined into one unit, reducing cables and connectors between them and decreasing the number of PCBs from 4 to 2.

The temperature of individual spaces are more accurately measured by an onboard sensor mounted beneath every diffuser faceplate.



Rickard diffusers are built with a robust, powder-coated metal construction including the face-plate, trim-plate, control disc and foot-mounts.

The controller is mounted on the face of the diffuser, making it easily accessible from the room. This eliminates the need to open the diffuser and reduces the risk of damage.



Faulty diffusers automatically self-isolate to keep the rest of the network running.



Improved hot plug protection makes the diffusers more resilient to plugging in components when powered.

Uses a plug-and-play cable and connection system for easy installation and long-lasting functionality.

Improved cable management on the diffuser by reducing the number of cables from 3 to 1.

Occupancy sensing is standard. Diffusers close when unoccupied, saving fan energy.

The interface board is protected with a metal cover and hard-mounted to the diffuser body for additional protection.

No commissioning is required since every diffuser is shipped as a master and assigned its own zone on powerup.

Convert a slave diffuser to a master, set minimum and maximum temperature settings, and perform all commissioning on the computer using proprietary Rickard MLM software.



Power supplies have built-in surge protection.



By utilising an all-metal construction, plastic usage within the diffuser has been reduced by 60%.



What are VAV Diffusers

VAV diffusers are smart HVAC outlets that precisely control the volume of air to meet the demands of the occupant.

They prevent drafts, do not dump and mix the air well under all conditions.

They are also the easiest and most affordable way to give more zones control, without losing the flexibility to change zones should the layout change later.

VAV diffusers use simple, inexpensive, low pressure, pressure dependent ducting which allows them to save fan energy as the load and occupancy in the building changes.

Even though it is easy to recognize the comfort, control, energy saving and flexibility benefits that VAV Diffuser systems provide, the benefits cannot be fully unlocked unless they are integrated with an Intelligent Control System such as the MLM control system.

What makes our VAV Diffusers Intelligent

MLM or Multi-Loop-Modular Controls enhance the benefits of VAV diffusion. Comfort can be customised for large zones or specific individuals, powerful diffuser management software gives the user complete control over an entire buildings' diffusers, intelligent energy saving software and hardware enhances energy savings and the modular benefits of VAV diffusion are maximised to allow complete layout flexibility without adding unnecessary cost.

Rickard's modular controls also allow hardware modularity and a number of diffuser accessories are available that are easy to fit to a diffuser. They include remote temperature control (wired & wireless), top up neck heaters, airflow sensors (for commissioning, airflow trimming and air-conditioning billing calculations) and occupancy sensing that close the diffuser damper to save system fan energy when a zone is unoccupied.

Our MLM control system can communicate with the Building Management System to give the administrator full centralised control of the HVAC system. By using our MCU, the cost of connection to a BMS can be reduced considerably. It does this by centralising the BMS access point and by connecting to, up to 60 diffusers/MCU.



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