





**YOUR GLOBAL PARTNER FOR**

**ENERGY SAVINGS**

**MAJOR FIRST COST SAVINGS**

**INNOVATIVE SYSTEM DESIGN**

**INSTALLATION FLEXIBILITY**

**INDIVIDUAL TEMPERATURE CONTROL**

**MULTIZONE APPLICATIONS**

**SINGLE LOOP & BMS CONTROLS**

**LOW TURNDOWN RATIO VARIABLE  
GEOMETRY AIR DIFFUSION**

**LOW PRESSURE OPERATION**

**GREEN BUILDING POINT CREDITS**

**INDOOR AIR QUALITY**

**OUR PHILOSOPHY IS SIMPLE  
SUPERIOR PRODUCTS TO CREATE  
INTELEGENANT COMFORT CONTROL**



**RICKARD VARIABLE AIR VOLUME**

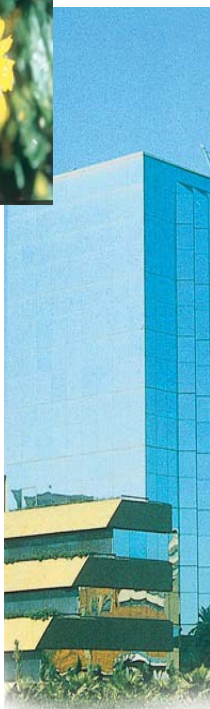


**CONTROLS OFFER THE ULTIMATE**



**NATURAL COMFORT  
SOLUTION**

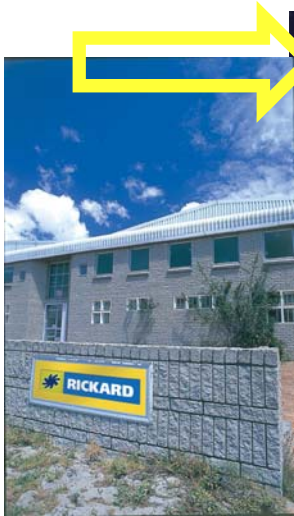
Our systems can cater for large corporate headquarters and smaller buildings to offer you uncompromising indoor air quality and control at an affordable price





## AWARDS AND ACHIEVEMENTS

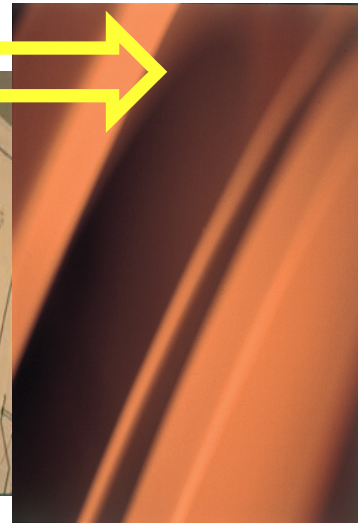
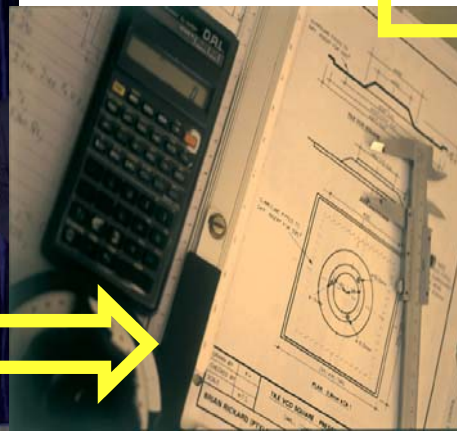
The company won the Safmarine Trophy in 1994 for the best export performance in its class in the Western Cape region. The company's labour force, headed by fully-qualified engineering staff, is well trained, reliable and committed to produce the high quality equipment for which Rickard has become renowned.



Rickard's Cape Town Head Office

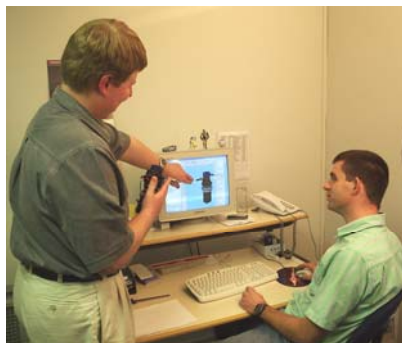


An Export Award ceremony with Nelson Mandela and our chairman Brian Rickard



## DESIGN SOLUTIONS

Our products are developed using state-of-the-art Solid Modeling computer software systems with which we strive to design products to international standards and have therefore become leaders in excellently engineered reliable and dependable Variable Geometry VAV equipment.



## HISTORY

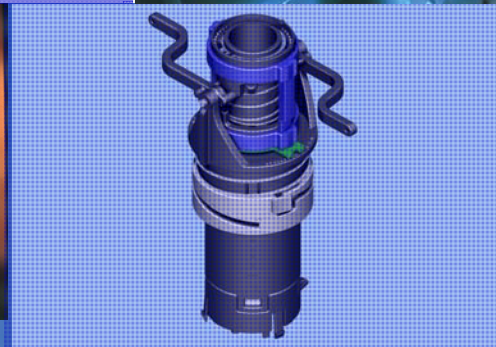
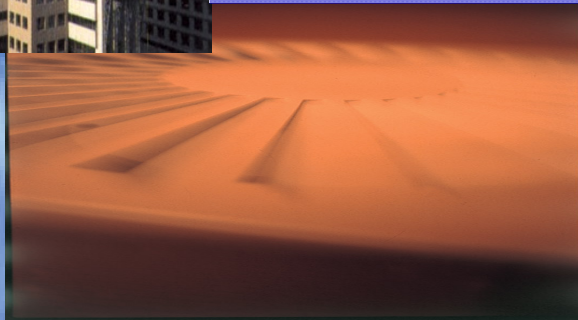
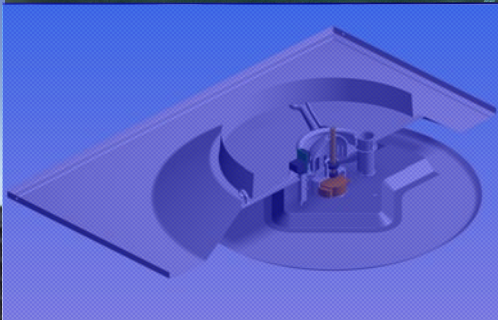
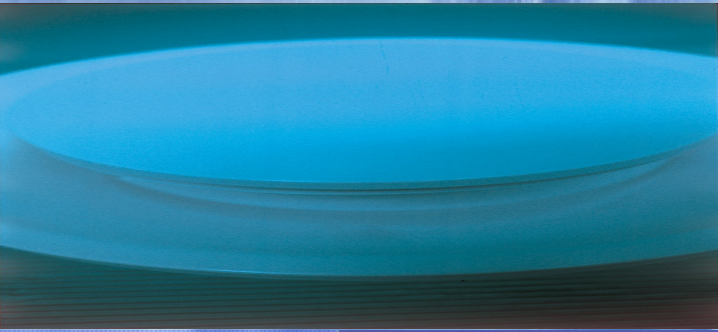
Rickard Air Diffusion (Pty) Ltd was established in Cape Town, South Africa in 1979 with a staff of only two. Today it is Internationally the leading producer of Variable Geometry VAV equipment and controls. The company is privately owned, managed and directed by its shareholders.

Since 1985 Rickard has actively promoted its products in many countries around the world resulting in the installation of its VAV equipment in such prestigious buildings as the Rolls Royce offices-Birmingham England, New York Times-New York City, George Washington University-Washington DC, Ramat Gan Towers-Tel Aviv Israel, Telekom-Cyberjaya Malaysia, Deloitte & Touche-New York City, Clinica Girassol-Luanda Angola, Old Mutual Headquarters-Cape Town South Africa, Yellow Pages House-Sydney Australia, Movie City-Hong Kong China, Port Ghaleb Resort-El Qusier City Egypt & Madinat Jumeirah Resort Dubai to name but a few.





**RICKARD**



Rickard products are constantly being upgraded to keep abreast of the latest requirements, trends and up-to-date advanced technology. Sophisticated equipment is utilized to design and manufacture Rickard Variable Geometry VAV equipment and temperature controls of the highest possible quality.

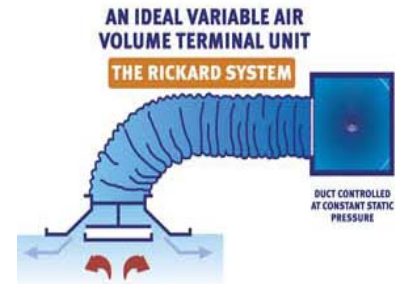


### WHY VARIABLE AIR VOLUME

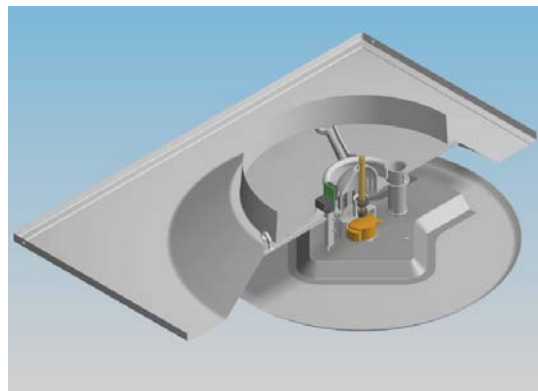
With the introduction of VAV into the air conditioning industry a number of years ago, the ideal of varying supply air volume (at constant temperature) with room load variations, seemed totally unacceptable to many engineers. It went against all contentions that reducing air volume flow rates would result in insufficient room air movement. And then - **The Introduction of Variable Geometry VAV Diffusion Equipment!** With the introduction of this type of air diffusion equipment and design, improvements to VAV systems, Confidence was generated by the improved performance of the system.

The Rickard Variable Geometry Vari-Disc Ceiling Diffuser is designed for general building zones where uniform radial discharge is the most suitable and desirable supply air distribution pattern.

The basic diffuser is available in a wide range of options to suit every

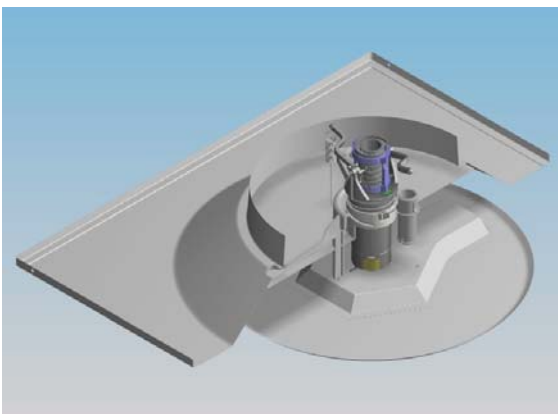


**The Rickard Vari-Disc VAV Diffuser with the Very Latest State-of-the-art Electronic Controllable Actuator and Assembly Support System.**



Optimum performance in terms of uniform air distribution & low noise level has been combined with simple construction & aesthetically pleasing appearance to provide a unit which is both functional & reliable. All diffusers are constructed in steel & are finished in a chip resistant baked epoxy powder coating which is available in a wide range of colours.

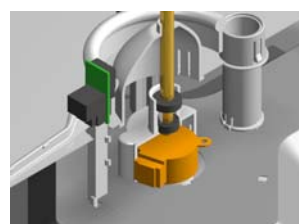
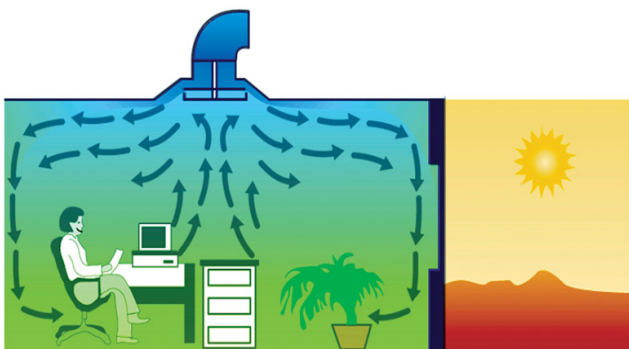
Rickard also produces a matching range of Vari-Disc constant volume diffusers ideally suited for use in internal building zones. As for it's Variable Volume partner, the Vari-Disc CAV diffusers have a truly 360° radial air distribution pattern.



**The Rickard Vari-Disc VAV Diffuser with State-of-the-art Heating/Cooling Thermal Mechanism.**

Normally internal zones are less complex to air condition as load fluctuation are not as severe as those on the perimeter. This does not automatically regulate the air volume entering the conditioned space as it is a constant volume device.

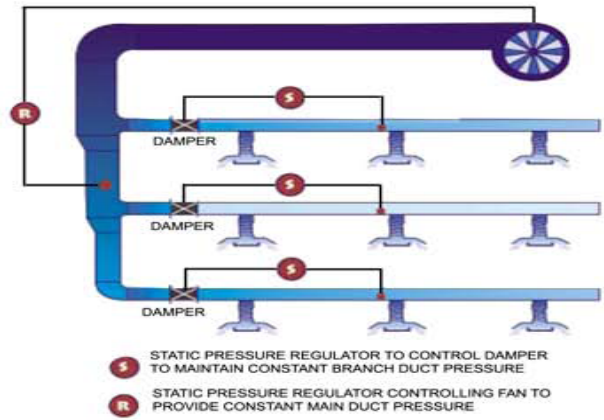
Manual adjustment of the air volume flow rate is made possible by means of an integral volume control damper.



The world's consciousness for the need to conserve energy has accelerated the tendency for designers to use VAV as the most economical and effective solution to the problems posed by multi-zone requirements of modern buildings. Unquestionably no other system offers low operating costs and flexibility in its application to multi-zone air conditioning diversities.



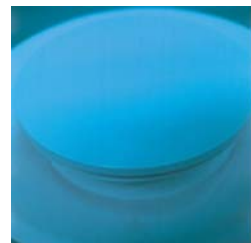
### A TYPICAL SYSTEM IN OPERATION WITH PRESSURE CONTROL DAMPERS

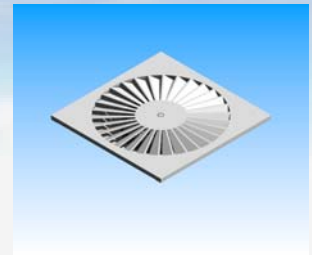
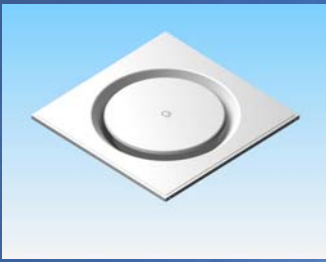


## SUPPORT ONLINE

Our highly experienced engineers and sales staff will be pleased to answer product specific and general system queries through contact with us on our website or via Email.

Please feel free to contact us at [info@rickardair.com](mailto:info@rickardair.com)





**MODEL VCD**

A versatile **Variable Geometry** ceiling diffuser for variable air volume cooling and heating applications.

- ◆ Available in five neck sizes from 150mm (6 ins) to 350mm (14 ins)
- ◆ Sizes to suit metric and imperial ceiling configurations
- ◆ Air volumes from 40 l/s (85 cfm) to 550 l/s (1160 cfm)
- ◆ Operating pressures from 20 Pa (0.08 ins wg) to 100 Pa (0.40 ins wg)
- ◆ Minimum air volume turn down to as low as 10% of design maximum

**MODEL VSD**

A versatile **Variable Geometry** ceiling diffuser for variable air volume cooling and heating applications.

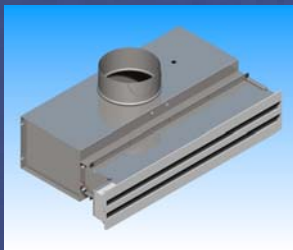
- ◆ Available in five neck sizes from 150mm (6 ins) to 350mm (14 ins)
- ◆ Sizes to suit metric and imperial ceiling configurations
- ◆ Air volumes from 40 l/s (85 cfm) to 550 l/s (1160 cfm)
- ◆ Operating pressures from 20 Pa (0.08 ins wg) to 100 Pa (0.40 ins wg)
- ◆ Minimum air volume turn down to as low as 10% of design maximum

**MODEL VSW**

A versatile **Variable Geometry** ceiling diffuser for variable air volume cooling and heating applications.

- ◆ Available in four neck sizes from 150mm (6 ins) to 300mm (12 ins)
- ◆ Sizes to suit metric and imperial ceiling configurations
- ◆ Air volumes from 80 l/s (170 cfm) to 345 l/s (727 cfm)
- ◆ Operating pressures from 30 Pa (0.12 ins wg) to 70 Pa (0.28 ins wg)
- ◆ Minimum air volume turn down to as low as 25% of design maximum

**ALSO AVAILABLE IN CONSTANT AIR VOLUME FORM**



**MODEL VLN**

A versatile **Variable Geometry** ceiling diffuser for variable air volume cooling and heating applications.

- ◆ Available in four standard diffuser lengths from 300mm (12 ins) to 1500mm (60 ins)
- ◆ Six standard control unit lengths: 300mm (12"), 600mm (24"), 900mm (36"), 1200mm (48") & 1500mm (60")
- ◆ Air volumes from 40 l/s (85 cfm) to 230 l/s (485 cfm)
- ◆ Operating pressures from 50 Pa (0.20 ins wg) to 100 Pa (0.40 ins wg)
- ◆ Minimum air volume turn down to as low as 10% of design maximum

**MODEL WBD**

A versatile **Variable Geometry** sidewall bulkhead fixing variable air volume unit for cooling and heating applications.

- ◆ Available in standard widths from 300mm (12 ins) to 700mm (28 ins)
- ◆ Available in two standard height options 100mm (4") & 150mm (6")
- ◆ Air volumes from 60 l/s (125 cfm) to 390 l/s (825 cfm)
- ◆ Operating pressures from 20 Pa (0.08 ins wg) to 50 Pa (0.20 ins wg)
- ◆ Minimum air volume turn down to as low as 10% of design maximum

**MODEL PCD**

A **Variable Geometry** pressure control damper designed specifically for duct pressure control in variable air volume system installations.

- ◆ Width increments of 50mm (2") from 200mm (8") to 1000mm (40")
- ◆ Height increments of 50mm (2") from 200mm (8") to 1000mm (40")
- ◆ Multiple dampers for larger sizes
- ◆ Available with integral sheet metal flanges
- ◆ Standard 24V AC electric actuators
- ◆ Static pressure control packages available
- ◆ Operating Pressures up to 200Pa (0.8")
- ◆ Near linear control characteristics

**ALSO AVAILABLE IN CONSTANT AIR VOLUME FORM**



**RICKARD**

## FUTURE INNOVATION

At Rickard we are constantly engaged in improving our products to bring about increasingly cost effective and efficient solutions to customer needs. Our highly experienced and trained staff are relentlessly pursuing new technologies and products to provide increased comfort for building occupants.



## QUALITY ASSURANCE

Every product is thoroughly tested, manually and electronically, before being shipped. At Rickard we believe in the highest level of quality and hence the importance on the finishing touches in packaging and checking to ensure our customer's 100% service and guaranteed peace of mind

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