

# Sullair's Champion V-Series variable speed drives

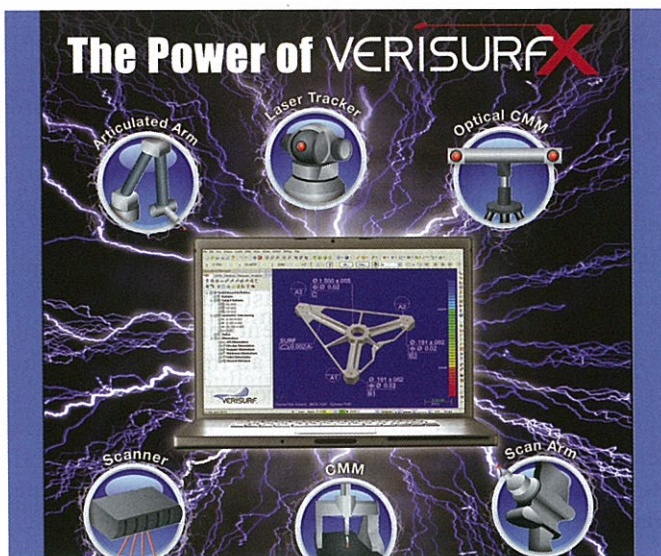
**S**ullair Australia's, V-Series, range of compressors features 'Optimal Flux Technology' to provide precise and dynamic calibration between drive and motor, to minimise losses and maximise performance and energy savings.

The incorporation of Optimal Flux Technology in the V-Series has eliminated the need for forced ventilation and cooling and torque de-rating. Extensive testing of the drive and motor has shown that the temperature of the motor can be reduced by as much as 11° C, significantly reducing energy consumption on cooling and ventilation for the compressor. The MEPS-2 compliant motor incorporates spike-resistant wire to minimise the impact of voltage surges on start-up, thereby increasing the longevity of the motor.

The variable speed capabilities of the drive and motor ensure that the motor is running at optimum capacity, regardless of the compressor demands. "A load on/load off compressor is more suited to applications where air demand is relatively constant. The Champion range of VSD compressors is the ideal compressor for varying load



Champion brand of VSD compressors from Sullair Australia maximises efficiency and energy savings.



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applications, such as where production shift changes or changes in use of equipment create demand highs and lows. VSD compressors are more efficient under these conditions and save users significantly on energy bills," said Andrew Dove, Design Engineer with Sullair Australia. "The VSD is also the ideal partner to a load on/off compressor, where the on/off compressor meets the bulk of air demand and the VSD trims supply to meet the variations in demand more efficiently."

The Champion brand of V-Series compressors offers a range of operating specifications that are ideal for variable load conditions. The smallest unit, CSF18V delivering rates of up to 51 L/s, comprises an 18.5 kW motor with working pressures of between 7.5 to 13bar. The heavy-weight of the range is the CSE45V boasting a 45kW motor and working pressure of 7.5 to 13 bar and a delivery rate of up to 123 L/s.

"The best way to determine which V-Series compressor is best for your application is to conduct an air audit. This will indicate the type and size of compressor to use and what the payback period is likely to be, thereby maximising your efficiency and energy savings," said Dove.

The V-Series incorporates an IP54 rated enclosure, Sullair airtend technology and is backed by extended warranty and service options. The end result is tough design and premium performance suited to Australia's hot, humid and often dusty conditions. **AMT**

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