

**VOC/VSD SERIES** // Variable Speed Compressors

SAVE ENERGY, SAVE MONEY



**Benefit from** a choice of heavy duty models that deliver a lifetime of tough performance // quiet designs that save space and money // Sullair genuine parts specifically engineered for durability // Australian designed technology for Australian conditions.

**The Optimal Flux Factor**

Patented# ‘Optimal Flux’ Technology allows precise and dynamic drive-to-motor calibration, which minimises losses and delivers optimum performance and efficiency throughout the V-Series. Optimal Flux reduces motor temperatures by up to 11°C, giving greater turn-down, eliminating forced ventilation and cooling requirements, and improving motor efficiency and longevity.

**Customer Care**

Sullair’s support of its systems doesn’t stop when you buy your compressor. From technical services, such as routine maintenance, to hands-on and online training, to products and services to help you evaluate, monitor, and manage your compressed air system, Sullair provides everything you need to keep your system running smoothly.

**Weather Resistant**

The VOC/VSD range is designed to work in real world environments up to 50 degrees Celsius — reducing plant room installation costs. The VOC/VSD is fitted with dirty environment pack filters, a TEFC low temperature rise MEPS2 compliant motor with Class H insulation, IP54 electrics and deluxe electronic monitoring as standard.

**Powerful air for every need**

Available from 45 kW to 250 kW, the Champion VOC/VSD series provides optimal performance up to an impressive free air delivery of 729 l/s (1544 cfm). With the famous reliability of the Sullair air-end the VOC/VSD range will satisfy the most demanding applications for many years to come.

**10 years guaranteed**

Designed with premium components and for easy serviceability, the VOC/VSD is engineered for longevity. The VOC/VSD is supported by optional Titanium and Platinum extended warranties† and Partner Care fixed price servicing. For up to 10 years peace of mind — talk to your Sullair representative.

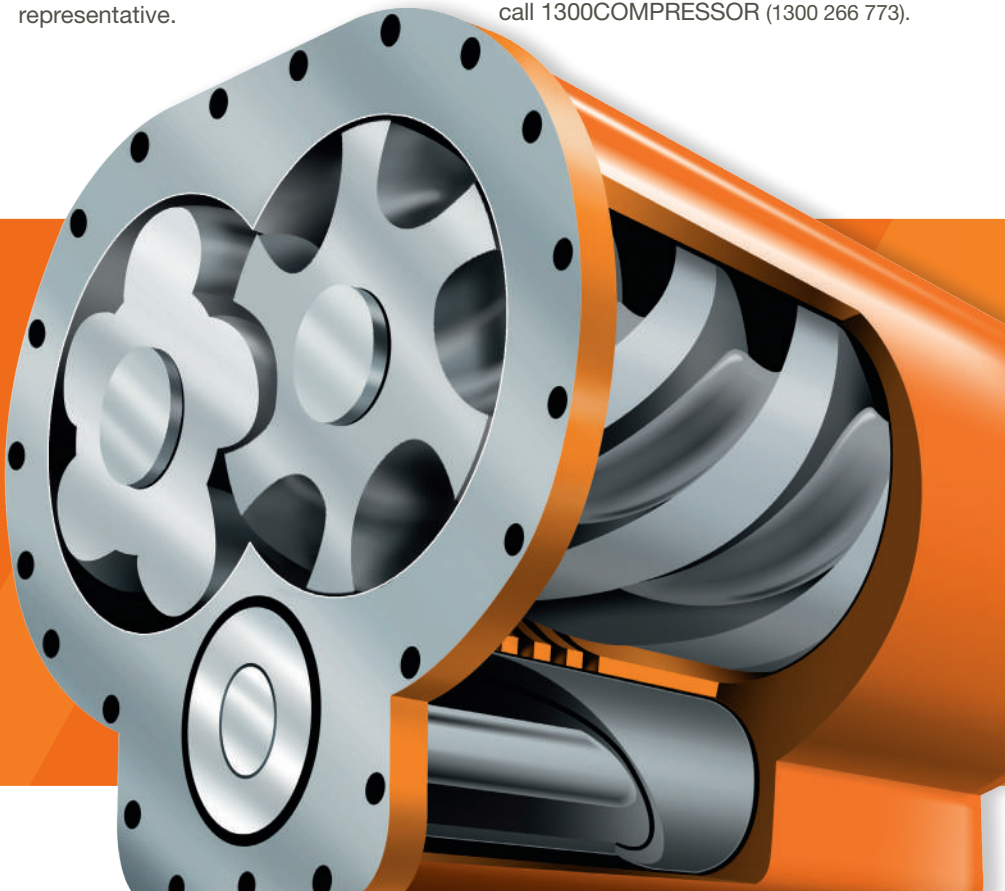
**One number for all your support**

All Sullair products are backed by our national support network of branches and over 40 GPS tracked service vans. Our Melbourne based national Customer Response Centre is waiting to handle your technical enquiries, service bookings and emergency breakdowns. To speak to a real person call 1300COMPRESSOR (1300 266 773).

**THE SULLAIR AIR-END**

Sullair’s mechanical output control enables the air-end volume to be varied to match demand by increasing or decreasing the exposure of ‘vents’ in the air-end floor with the spiral valve.

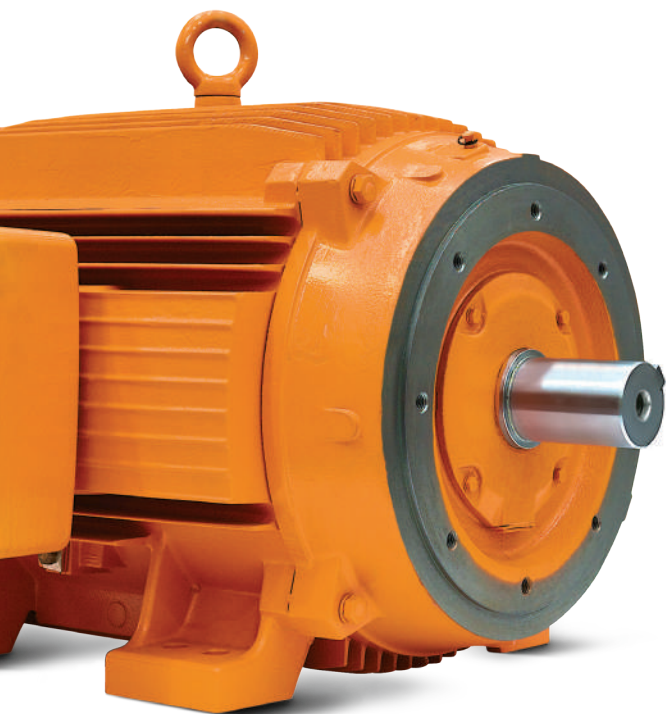
Figure 3





**MY SULLAIR  
VOC/VSD  
SLASHED MY  
POWER BILL.**

**The Champion VOC/VSD  
provides the opportunity  
for you to SAVE POWER and  
MAINTENANCE COSTS**



The Sullair VOC/VSD combines the energy efficiency and responsiveness of the Variable Speed Drive with the added turndown of the mechanical Variable Output Control spiral valve. The result is near constant pressure and improved energy efficiency regardless of demand.

### PARTNERS IN SAVINGS

The Sullair VOC/VSD partnership beats on/off load compressors hands down. The VSD technology reduces energy consumption while the VOC spiral valve extends turndown to 15% of full load capacity and creates further energy savings under part load conditions. If your air demand varies — the Sullair VOC/VSD can save you thousands per year.

### ALWAYS AIR. ALWAYS THERE

On/off load constant speed compressors require minimum cut-in and maximum cut-out stored pressures to meet flow demand, resulting in significant swings in delivered pressure and greater wear and tear. Sullair VOC/VSD compressors deliver both constant flow and constant pressure to meet your application needs.

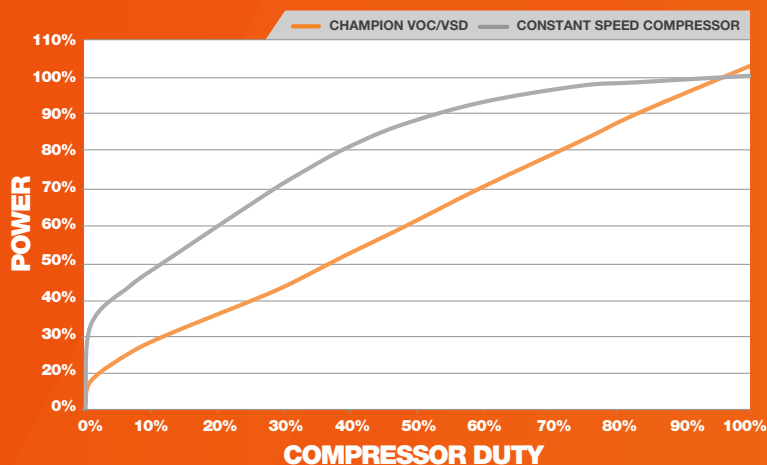
### PARTNERS IN EFFICIENCY

The Sullair VOC/VSD utilises a patented Optimal Flux Technology<sup>#</sup> (OFT) drive to minimise torque de-rating, extend efficiency and reduce temperature. OFT also eliminates the need for external forced ventilation and cooling at low motor speeds. The VOC/VSD features a unique built-in Thermo-Fan that reduces energy use and noise by only operating when required.

### SAVE ENERGY, SAVE MONEY

The variable speed drive adapts motor speed to changes in air demand. Compared to constant speed compressors, the Sullair VOC/VSD can deliver up to 30% power savings at partial loads — saving you thousands of dollars in energy costs per year.

Figure 1  
Constant speed vs VOC/VSD compressor.





Every Sullair VOC/VSD has ease of servicing built in and is backed by a range of genuine spare parts and full factory warranty.



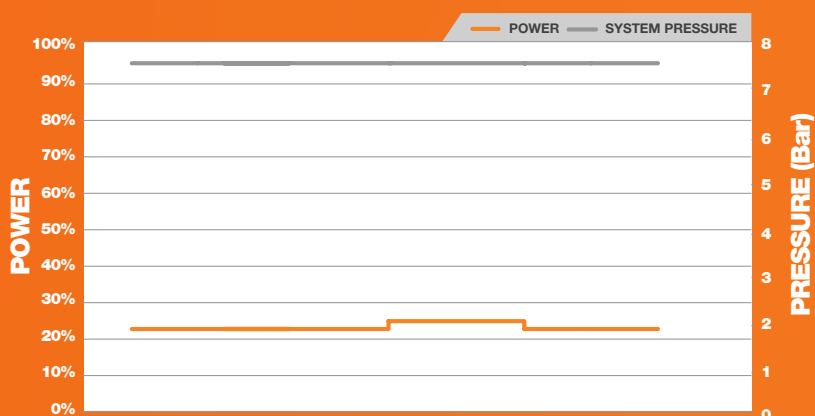
Sullair's proven air end with the highest efficiency at different loads

The Australian designed Sullair VOC/VSD combines two technologies that can save you thousands of dollars in energy costs per annum. Reduce your carbon footprint and save money with Sullair VOC/VSD.

## PARTNERS IN PERFORMANCE

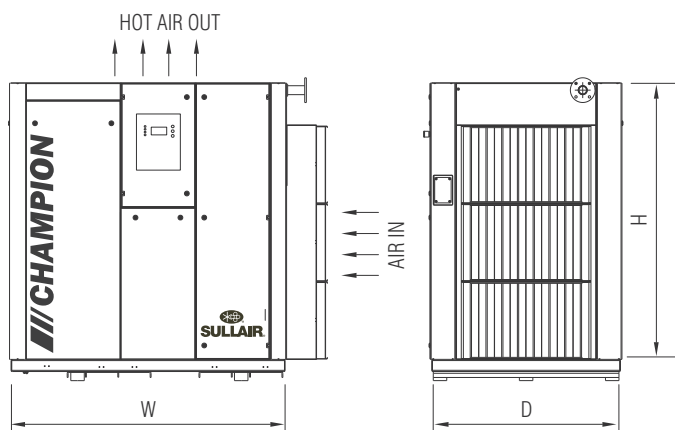
With the unique Sullair VOC/VSD compressor much tighter tolerances on system pressure are achieved with significantly reduced and constant power consumption.

Figure 2  
VSD model with VOC and thermostatically controlled fan at low demand.



MODEL	MAXIMUM WORKING PRESSURE			FREE AIR DELIVERY* OF UNIT AT WORKING PRESSURE			MOTOR		NOISE LEVEL ***	DIMENSIONS	AIR OUTLET DISCHARGE SIZE	APPROX. WEIGHT Kg (nominal)
	Bar	Kg/cm <sup>2</sup>	PSI	l/s	m <sup>3</sup> /min	CFM	kW	HP				
<b>VOC 45 VSD</b>	7.5 10.0	7.65 10.2	109 145	141 111	8.5 6.7	300 236	45	60	68	2125 x 1300 x 2020	2" BSPF	2175
<b>VOC 55 VSD</b>	7.5 10.0 13.0	7.65 10.2 13.3	109 145 188	168 141 111	10.1 8.5 6.7	355 300 236	55	75	68	2125 x 1300 x 2020	2" BSPF	2140
<b>VOC 75 VSD</b>	7.5 10.0 13.0	7.65 10.2 13.3	109 145 188	236 202 174	14.2 12.1 10.4	500 428 368	75	100	73	2125 x 1350 x 2020	2" BSPF	2175
<b>VOC 90 VSD</b>	7.5 10.0 13.0	7.65 10.2 13.3	109 145 188	279 238 206	16.7 14.3 12.4	591 505 437	90	125	73	2125 x 1330 x 2020	2" BSPF	2300
<b>VOC 110 VSD</b>	7.5 10.0 13.0	7.65 10.2 13.3	109 145 188	338 293 250	20.3 17.3 15.0	717 621 530	110	150	76	1825 x 2730 x 2110	80NB (3") ANSI 150 FLANGE	3480
<b>VOC132 VSD</b>	7.5 10.0 13.0	7.65 10.2 13.3	109 145 188	398 312 272	23.9 18.7 16.3	845 663 578	132	175	76	1825 x 2730 x 2110	80NB (3") ANSI 150 FLANGE	3845
<b>VOC 160 VSD</b>	7.5 10.0 13.0	7.65 10.2 13.3	109 145 188	469 391 314	28.1 23.5 18.8	996 830 667	160	215	77	1825 x 2730 x 2110	80NB (3") ANSI 150 FLANGE	3950
<b>VOC 185 VSD</b>	7.5 10.0 13.0	7.65 10.2 13.3	109 145 188	517 451 388	31.0 27.1 23.3	1098 958 824	185	250	79	1825 x 2730 x 2110	80NB (3") ANSI 150 FLANGE	3970
<b>VOC 250 VSD</b>	7.5 10	7.65 10.2	109 145	729 652	43.7 39.1	1544 1381	250	335	77	1780 x 5185 x 2110	100 NB (4") ANSI 150 Flange	6300

\* Unit capacity specified according to PNEUROP / CAGI PN2CPTC2. ± 3dBA Note: Technical data shown for standard compressor package not including options



**ALL COMPRESSORS ARE BACKED WITH FAST DELIVERY, INSTALLATION AND A RANGE OF SERVICE SOLUTIONS**

**SULLAIR AUSTRALIA PTY LTD**

324-332 Frankston-Dandenong Road, Dandenong, VIC Australia 3175

PO Box 5194, Hallam, VIC 3803 P 1300 COMPRESSOR (1300 266 773)

F +61 3 9703 9053 facebook.com/SullairAustralia **SULLAIR.COM.AU**

sales@sullair.com.au

06/12v2

