

# HYBRID VARIABLE OUTPUT COMPRESSOR RANGE

- 75 to 250 kW power range • 195 l/s to 729 l/s free air delivery
- 110 to 188 psi • 73 to 79 dBA quiet performance • Environmentally responsible



# BRED FOR TOUGH

## AUSTRALIAN CONDITIONS



THE RESPONSIVE, ENVIRONMENTAL CHAMPION

**CHAMPION**  
ENGINEERED FOR TOUGH PERFORMANCE

# THE ENVIRO-FRIENDLY HYBRID COMPRESSORS FOR MAXIMUM ENERGY SAVINGS

## COMBINING THE FULL-LOAD EFFICIENCY OF A CONVENTIONAL COMPRESSOR TECHNOLOGY WITH THE PART-LOAD EFFICIENCY OF A VARIABLE OUTPUT AIREND TECHNOLOGY

Feature packed with powerful performance and **Australian conditions** in mind.

Take a look at what's inside.

### BENEFIT FROM

- A choice of economic, heavy duty models that deliver a lifetime of powerful performance
- **CHAMPION Genuine Parts**, specifically engineered for durability and lifetime savings
- Compact sizing, quiet performance and thoughtful design that saves space and money
- Australian made technology bred for Australian conditions and backed with 35 years of experience.



### INCREASE EFFICIENCY

The large, slow running airends achieve lower power consumption at the top end of capacity and the variable output airends maintain constant system pressure and produces significant, part load energy savings. There is minimal waste compressed air or coolant foaming and extended component life.



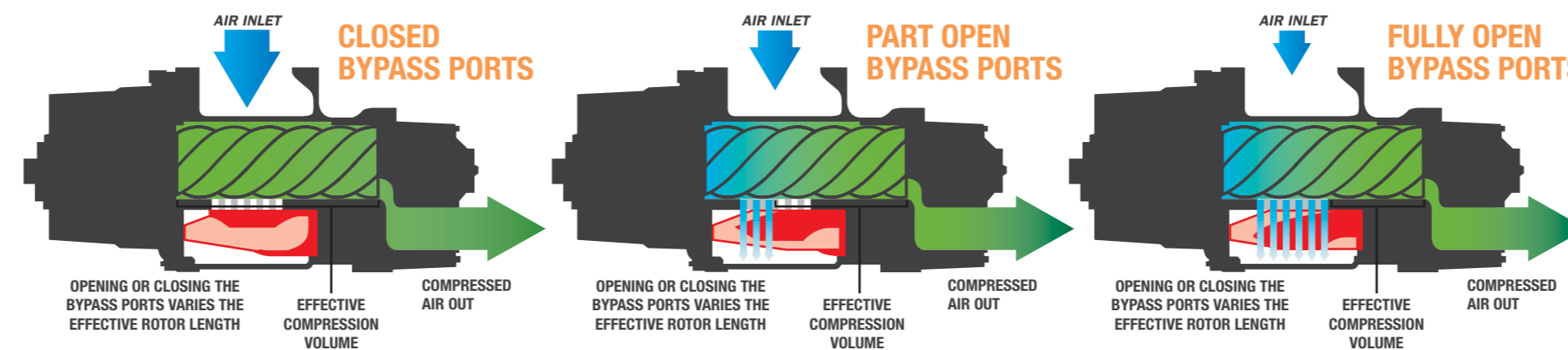
### BE REWARDED WITH CHAMPION PERFORMANCE

The **CHAMPION VOC** motor and airend continue to run at optimum speed and therefore maintain maximum efficiency through the full variable output range. The effective rotor length is progressively reduced with demand, providing efficient part load control system to 50% output.



### HYBRID VARIABLE OUTPUT

Hybrid **VOC** compressors provide significant power and maintenance savings in comparison with alternative control systems.



### CLEVER COMPONENT PROTECTION

The harsh environment design philosophy removes the risk of component damage with an IP55 TEFC low temperature rise MEPS2 motor with Class H insulation, and IP54 (IP65 Optional) electrical enclosure allows the compressor to perform in hot, humid and dusty environments.



### ENHANCED SAFETY

Full internal guarding of moving parts and electrical components far exceed Australian safety standards. Fully enclosed noise sources make for a quiet package that can be used in indoor industrial environments to save space. EH&S initiatives ensure that **CHAMPION** thinks 'safety first'.



### BREATHE EASY WITH CLEAN HEALTHY AIR

Cyclonic tangential flow separation with shrouded separator element provides extremely low pressure drop and high separation efficiency. Maximum liquid oil carry-over of less than 1 ppm produces clean air to your plant.



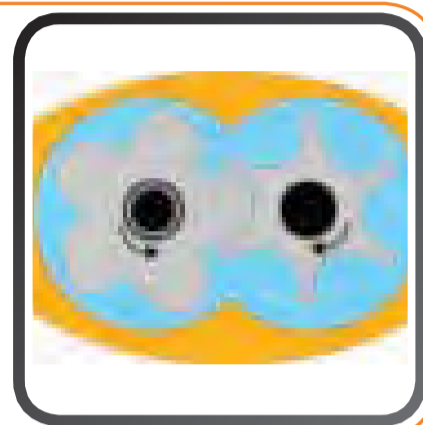
### REDUCED POWER COSTS

The output changes to exactly match the varying demands at the required supply pressure – reducing energy use and saving you thousands of dollars. All motors are MEPS2 compliant for increased energy efficiency.



### RELIABLE, EFFICIENT CONSTANT SPEED

The motor and airend continue to run at optimum speed, maintaining optimum efficiency through the variable output range.



### SIMPLE AND EFFECTIVE

Forget about complicated drive electronics! **CHAMPION's** VOC is by far the most simple and cost effective control system, providing constant air pressure, and less wear and tear on the components.



### ENVIRONMENTALLY CONSIDERATE

The **VOC** uses hybrid technology to match compressed air output to varying compressed air needs for increased power savings and reduced environmental footprint. Supplying compressed air to meet demand as required can achieve energy savings with the shortest payback times.



### CONSTANT SUPPLY PRESSURE

The **VOC** provides consistent pressure to equipment and eliminates the need for the extra power required for the compressor pressure to rise to the same pressure cut-out point as a standard on-load/off-load compressor.



### LOWEST LIFETIME COST

The combination of lower maintenance, service and power costs offer the lowest cost compressed air available. Designed with premium components engineered for long-term use and backed up by a range of extended warranty agreements, **CHAMPION's** VOC offers 24/7 performance.





Contact us today and see how you can be a **CHAMPION** of your industry!

**1300 CHAMPION (1300 242 674) OR**  
**CHAMPIONCOMPRESSORS.COM.AU**

The hybrid **VOC** provides the opportunity for you to **save on power** and **maintenance costs**

MODEL	WORKING PRESSURE**			FREE AIR DELIVERY* OF UNIT AT WORKING PRESSURE			MOTOR		NOISE LEVEL***	DIMENSIONS	AIR OUTLET DISCHARGE SIZE	SHIPPING VOLUME m <sup>3</sup> (nominal)	APPROX. WEIGHT kg (nominal)
	bar	kg/cm <sup>2</sup>	psi	L/s	m <sup>3</sup> /min	CFM	kW	hp					
<b>VOC75</b>	7.5 10.0	7.7 10.2	110 145	234 195	14.0 11.7	495 413	75	100	73	1280 x 1600 x 1990	50 NB 2" TABLE 'E' FLANGE	4.0	2100
<b>VOC90</b>	7.5 10.0	7.7 10.2	110 145	279 242	16.7 14.4	591 513	90	125	73	1280 x 1875 x 1990	65 NB 2½" TABLE 'E' FLANGE	4.5	2300
<b>VOC110</b>	7.5 10.0 13.0	7.7 10.2 13.3	115 145 188	326 263 221	19.6 15.8 13.3	692 557 469	110	150	75	1280 x 1990 x 1990	65 NB 2½" TABLE 'E' FLANGE	5.1	2400
<b>VOC110</b>	7.5 10.0 13.0	8.0 10.2 13.3	115 145 188	345 287 250	20.7 17.2 15.0	731 609 530	110	150	74	1775 x 2535 x 2110	DN 65 2½" BSPP-F	9.5	3280
<b>VOC132</b>	7.5 10.0 13.0	8.0 10.2 13.3	115 145 188	403 326 269	24.2 16.9 16.1	855 690 571	132	175	75	1775 x 2535 x 2100	DN 65 2½" BSPP-F	9.5	2600
<b>VOC160</b>	7.5 10.0 13.0	8.0 10.2 13.3	115 145 188	472 392 330	28.3 23.5 19.8	1000 831 699	160	215	76	1775 x 2535 x 2100	DN 65 2½" BSPP-F	9.5	2615
<b>VOC185</b>	7.5 10.0 13.0	8.0 10.2 13.3	115 145 188	535 472 385	32.1 28.3 23.1	1134 1000 816	185	250	79	1775 x 2535 x 2100	DN 65 2½" BSPP-F	9.5	3700
<b>VOC225</b>	9.0	9.2	131	566	34.0	1200	225	300	77	1775 x 5185 x 2100	100 NB 4" ANSI 150	19.5	6300
<b>VOC250</b>	7.5 10.0	7.7 10.2	110 145	729 652	43.7 39.1	1544 1381	250	335	78	1775 x 5185 x 2100	100 NB 4" ANSI 150	19.5	6300

\*Unit performance specified according to PNEUROP / CAGI PN2CPTC2. \*\*7.5 bar performance measured at 7.0 bar \*\*\*± 3dBA



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