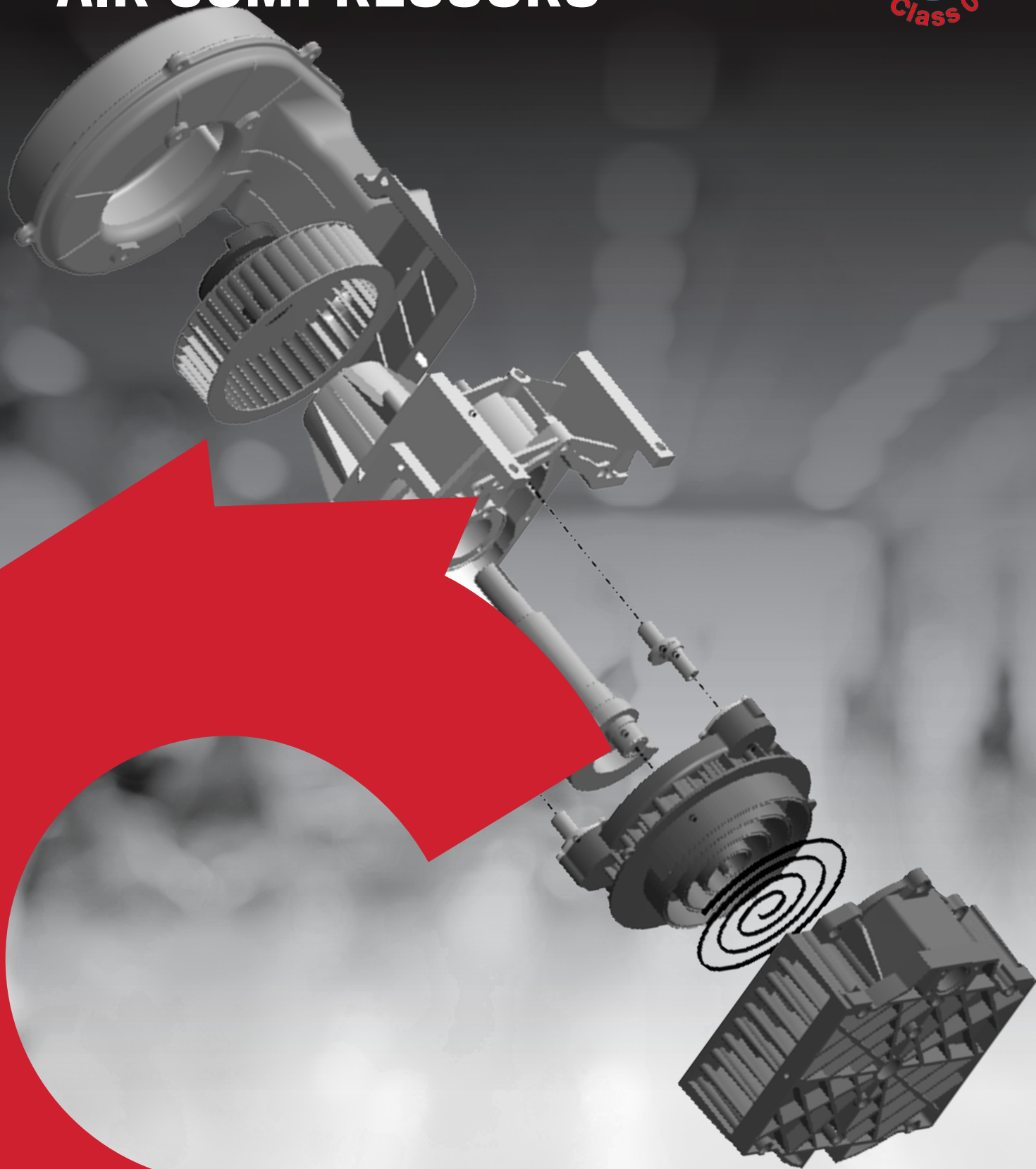


# OIL-FREE SCROLL AIR COMPRESSORS



COMPLETE AIR  
& POWER SOLUTIONS



# CAPS AUSTRALIA COMPLETE AIR & POWER SOLUTIONS

CAPS Australia is a privately owned and proud Australian company intent on remaining at the forefront of compressed air, gas and power generation solutions.

## WHO IS CAPS AUSTRALIA?

- Over **40 years of experience** in the Australian market.
- **10 branches** reach right around the country with **over 160 employees**.
- **60 service technicians** covering the full national footprint with a **24/7 service** offering.
- A vast inventory of **spare parts**.
- An **independent company** with the flexibility to search globally for the best products and technologies that best serve the **Australian market's needs**.
- CAPS has world-renowned partner brands such as Ingersoll Rand, Kohler, AIRMAN, Sauer, Pedro Gil, Next Turbo Technologies, Lamson and many more.
- **Custom design, manufacturing, supply and service**
- ISO 9001 accredited facilities

## WHO DO WE SERVE?

- Mining
- Manufacturing
- Food and beverage
- Public and private utilities
- Waste and water treatment plants
- Oil and gas
- And much more throughout Australia and internationally, having exported turn-key packages to over 35 countries.



*"At CAPS, we think outside the box to develop integrated, agile solutions that are designed around the specific needs of our customers."*



A family  
owned  
Australian  
business

# OIL-FREE SCROLL TECHNOLOGY

## WHY OIL-FREE

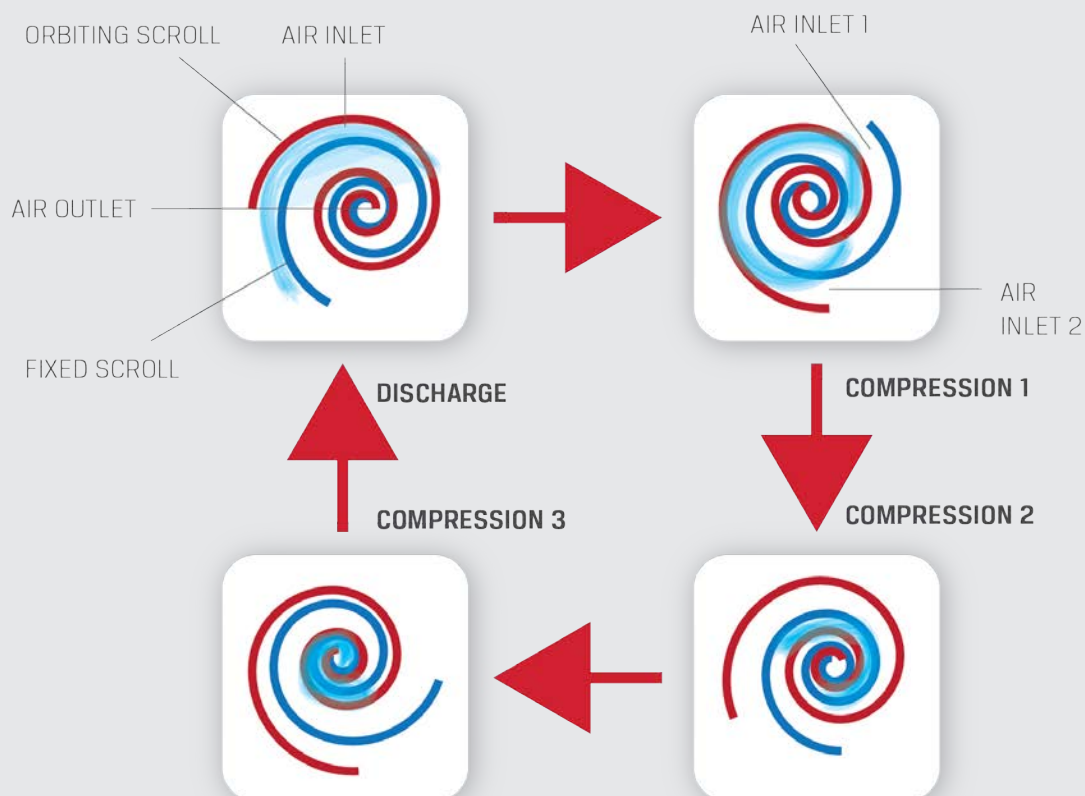
Compressed air oil vapour is the most difficult element to separate effectively. Filtration does not offer a complete oil vapour removal. Therefore, the most effective approach is to eliminate compressor oil in the compression process in the first place.

CAPS oil free scroll compressors are developed to operate without the use of any oil during the compression process, resulting in "Oil-Free" grade compressed air.

As there is no oil in the compression process, condensation treatment is unnecessary, which saves on operating costs. CAPS oil-free scroll compressors compliance to ISO8573-1 Class 0 Standard by TUV Germany.

## PRINCIPLES OF AN OIL-FREE SCROLL COMPRESSOR

As demonstrated in the diagram, there is a pair of stationary and orbital scrolls within each airend. The orbital scroll compresses feed air from the outer rim along the stationary scroll towards the discharge port at the centre of the scroll airend.



# CAPS AL SERIES OIL-FREE SCROLL COMPRESSORS



# PRODUCT SPECIFICATIONS



Model	Max Working Pressure		Flow Capacity		Nominal Power	Power Supply (V/ Ph/Hz)	Inlet/ Outlet Connections		Noise	Approx Weight	Dimensions (mm)		
	Barg	M3/min	CFM	kW	(Inches)		dB(A)	Kg	Height	Width	Depth		
AL3	8.0	0.27	9.6	3	415/3/50	1/2	49	175	1,070	700	740		
	9.9	0.22	7.7	3		1/2	49	175	1,070	700	740		
AL5	8.0	0.42	14.7	4		1/2	50	185	1,070	700	740		
	9.9	0.35	12.4	4		1/2	50	185	1,070	700	740		
AL7	8.0	0.69	24.3	7		1	52	330	1,020	640	1,180		
	9.9	0.57	20.2	7		1	52	330	1,020	640	1,180		
AL10	8.0	0.83	29.4	8		1	53	340	1,020	640	1,180		
	9.9	0.70	24.9	8		1	53	340	1,020	640	1,180		
AL15	8.0	1.25	44.1	12		1	56	485	1,260	750	1,280		
	9.9	1.06	37.3	12		1	56	485	1,260	750	1,280		
AL20	8.0	1.66	58.8	16		1	58	620	1,625	750	1,280		
	9.9	1.41	49.7	16		1	58	620	1,625	750	1,280		
AL25	8.0	2.08	73.5	20		1	59	750	2,040	750	1,280		
	9.9	1.76	62.2	20		1	59	750	2,040	750	1,280		
AL30	8.0	2.50	88.1	24		1	62	1080	1,260	1,600	1,280		
	9.9	2.11	74.6	24	1	62	1080	1,260	1,600	1,280			
AL40	8.0	3.33	117.5	32	1	63	1250	1,625	1,600	1,280			
	9.9	2.82	99.4	32	1	63	1250	1,625	1,600	1,280			
AL50	8.0	4.16	146.9	40	1	65	1420	2,040	1,600	1,280			
	9.9	3.52	124.3	40	1	65	1420	2,040	1,600	1,280			

Maximum operating temp = 40°C

FAD is full package performance as per ISO1217:1996 Annex C (20°C)

LABORATORY AND UNIVERSITY



MEDICAL AND HOSPITAL



# KEY FEATURES & BENEFITS

## OPTIMISED SCROLL AIREND

The scroll airend is designed for optimum performance to match the varying air demands of your plant.

## CORRUGATED AFTER COOLER

High performance after cooler and cooling fan enables the compressor to produce optimised compressed air.

## SUCTION FILTER UNIT

Offers 99.9% of dust elimination and provides a clean, compressed air supply.

## STEP-DRIVEN DEMAND CONTROL (MULTI-SCROLL MODELS)

Automatically operates the appropriate number of scrolls to match your air usage demands.

## HEAVY-DUTY SIROCCO FAN

Cools the scroll airend and the 2-way cooling method of the aftercooler offers stable operation at maximal ambient temperature of 40°C.

## ROTARY (TIME-SHIFTING) CONTROL PROCESS

Used to offer sequential operation as programmed for the operation time to balance the average usage hours and to maximise the overhaul cycles.

## ENERGY EFFICIENCY

Energy savings through a sequential controller. By sequentially starting the series of airends, the inrush or starting current affecting the peak loading is minimised.

## **+** SAVE UP TO 25% ON ENERGY COST

Step-driven demand control of the multi-scroll models' energy saving is based on a pyramid control process. Our scroll compressors consist of modules that offer flexibility for varying air demand conditions.



# CAPS CS SERIES OIL-FREE SCROLL INTEGRATED SOLUTIONS



# DESIGNED TO PERFORM ENGINEERED TO LAST

Integrated solution oil free scroll compressors include a dryer, filtration and air receiver which are an ideal choice for a wide range of medical / laboratory / food applications.

Mounted on a generous air receiver, they provide many benefits; this includes cooler air to improve air quality, extra storage capacity to lessen spikes in air demand, and longer cycle times to reduce power and wear from frequent stop/starts.

## CONFIGURATIONS AVAILABLE TO SUIT YOUR SPECIFIC NEED

- **FIXED SPEED SINGLE-PHASE COMPLETE SOLUTION 1.5 TO 2.2KW**  
(compressor + 250L tank + dryer + filters)
- **FIXED SPEED THREE-PHASE COMPLETE SOLUTION 3.7 TO 7.5KW**  
(compressor + 250L tank + dryer + filters)



1. **Easy to operate standard electronic controller**
2. **Oversized dryer including pre / post filtration package**
3. **Generous 250litre air receiver to EN286-1 and AS1210 compliant**
4. **Ultra-low sound level acoustic enclosure**
5. **Air cooled design with 40DegC ambient temperature duty rating**
6. **Easily accessible service components**
7. **Energy saving IE3 TEFC electric motor**



# PRODUCT SPECIFICATIONS



Model	Power	Electrical Inputs	Capacity*		Operating Pressure	
	kW		m <sup>3</sup> /min	cfm	Bar(g)	psi(g)
CS1.5 CS 8 250	1.5	240V/1P/50Hz	0.16	6	8	115
CS2.2 CS 8 250	2.2	240V/1P/50Hz	0.24	9	8	115
CS2.2 CS 10 250			0.20	7	10	145
CS3.7 CS 8 250	3.7	400V/3P/50Hz	0.40	14	8	115
CS3.7 CS 10 250			0.34	12	10	145
CS5.5 CS 8 250	5.5	400V/3P/50Hz	0.60	21	8	115
CS5.5 CS 10 250			0.47	17	10	145
CS7.5 CS 8 250	7.5	400V/3P/50Hz	0.85	30	8	115
CS7.5 CS 10 250			0.68	24	10	145

\*FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C

Model	Tank Size	Air Dryer Model	Weight	Dimensions (mm)			Noise
	Litres		Kg	Height	Width	Depth	dB(A)
CS1.5 CS 8 250	250	HRD30	444	1,567	723	1,736	59
CS2.2 CS 8 250	250	HRD30	449	1,567	723	1,736	62
CS2.2 CS 10 250							
CS3.7 CS 8 250	250	HRD30	469	1,567	723	1,736	59
CS3.7 CS 10 250							
CS5.5 CS 8 250	250	HRD30	479	1,567	723	1,736	64
CS5.5 CS 10 250							
CS7.5 CS 8 250	250	HRD40	486	1,567	723	1,736	65
CS7.5 CS 10 250							

**FOOD & BEVERAGE  
PROCESSING /  
PACKAGING**



**ELECTRONIC  
MANUFACTURING**



# 24/7 RAPID RESPONSE NATIONWIDE SUPPORT

## 10 BRANCHES SERVICING ALL AUSTRALIA



### AUSTRALIA WIDE

With our extensive network of branches and regional service locations, CAPS can service anywhere in Australia.

From the metro area through to a remote mine-site, we have you covered with experts located all around Australia.

### SPARE PARTS

A complete range of spare parts and accessories to help you get the most out of your industrial equipment.



### HIGHLY TRAINED TECHNICIANS

Enjoy the peace of mind of having an expert at your doorstep. **Their knowledge is continually updated**, and they have the model by model knowledge to fix your generator first time, every time.

Whether you have one generator or have complex systems with multiple pieces of equipment, **our technicians will give you the advice you need to ensure continuous operation.**

### PREVENTATIVE MAINTENANCE

We're always aiming to help you to **reduce operating costs and interruptions to your production.** Our factory-authorised programs include routine inspections, condition monitoring and the use of sophisticated diagnostic equipment to identify any potential problems before they impact you.

### SAFETY COMPLIANCE

Safety is a core value of CAPS and our goal is never to put people, plant or the environment at risk. You can be confident that our technicians will be **completely compliant to any site specific safety requirements** you have.

## NATIONAL HIRE



### LONG TERM AND SHORT TERM HIRE AVAILABLE

At CAPS, we have a large range of equipment that's suitable for every kind of project.

CAPS check their equipment before every hire to ensure the highest standard of safety and service. When you hire through CAPS you are speaking to experts who can assist you with selecting the right equipment for the job every time.

Hire and you protect your staff, control your costs, avoid depreciation, maintenance and borrowing expenses.

# CORE PRODUCTS

## AIR COMPRESSORS

ROTARY SCREW



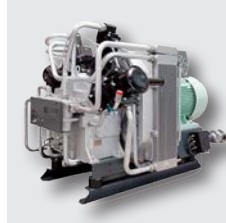
PORTABLE DIESEL



OIL FREE



HIGH PRESS. RECIPS.



SMALL RECIPS.



## AIR BLOWERS

ROTARY LOBE



CENTRIFUGAL



## GAS GENERATORS & COMPRESSORS

NITROGEN



OXYGEN



OTHER GASES



## AIR TREATMENT

AIR DRYERS



AIR RECEIVERS



FILTRATION



## TOOLS & MATERIAL HANDLING

TORQUE CONTROL



WINCHES & HOISTS



## POWER GENERATION & RENEWABLES

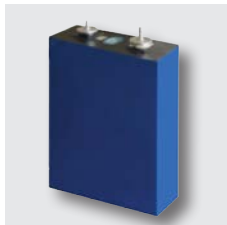
STANDBY



PRIME



BATTERY STORAGE



# ONLINE SHOPPING

[CAPSSHOP.COM.AU](http://CAPSSHOP.COM.AU)

If you are looking for spare parts or tools for your air and power equipment, visit our online shop.



# SOLVING YOUR AIR AND POWER CHALLENGES

## OIL-FREE SCROLL AIR COMPRESSORS

**Inquiries:** 1800 800 878

**Service & 24/7 Support:** 1800 802 697

**Website:** caps.com.au

**Shop:** capsshop.com.au

**Email:** info@caps.com.au

### BRANCH LOCATIONS

PERTH (HEAD OFFICE) | ADELAIDE | BRISBANE | DARWIN | KALGOORLIE | LAUNCESTON  
MACKAY | MELBOURNE | NEWCASTLE | SYDNEY

### INTERNATIONAL

MALAYSIA | GHANA



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