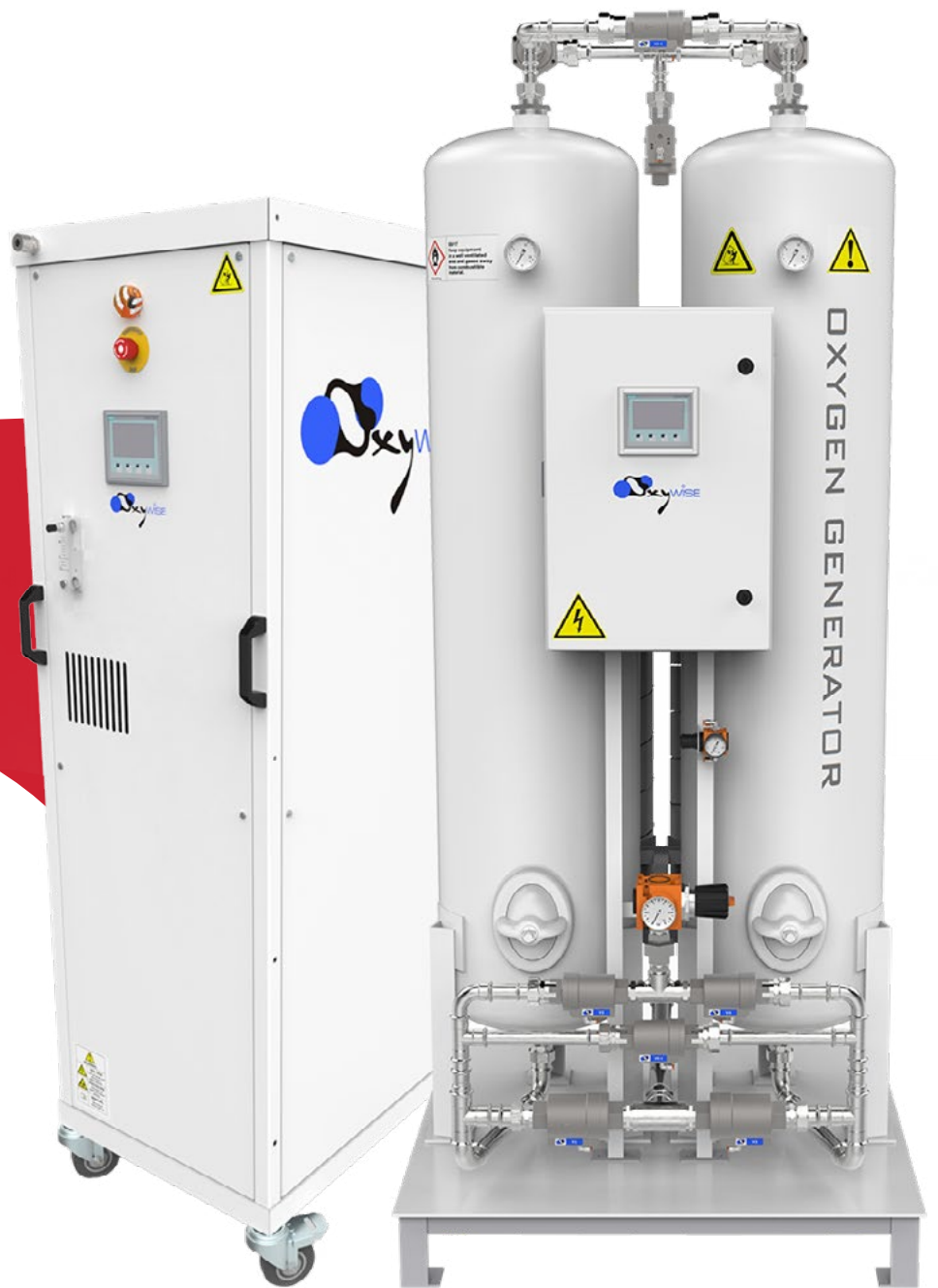


OXYWISE OXYGEN GENERATORS SERIES



COMPLETE AIR
& POWER SOLUTIONS



PSA OXYGEN GENERATORS STANDARD SERIES

PREMIUM PERFORMANCE

Oxywise Oxygen generators produce high quality oxygen from compressed air by Pressure Swing Adsorption (PSA). The generators represent a reliable and cost effective alternative to traditional Oxygen supplies

STANDARD FEATURES

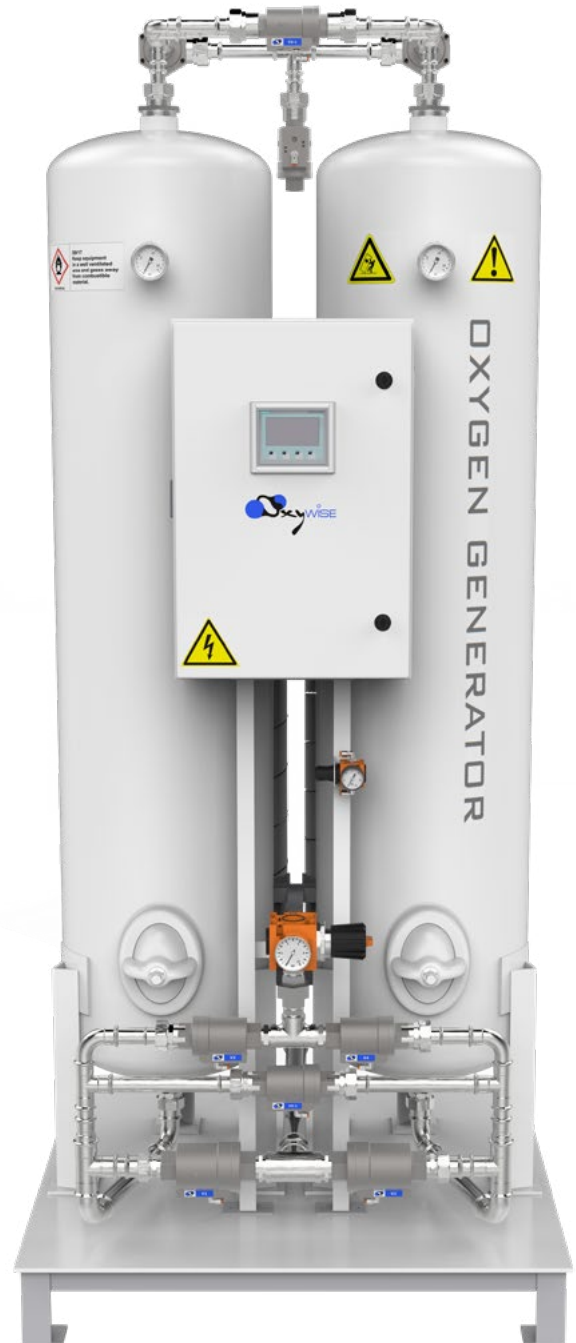
- Colour touch screen control
- Built in purity analyzer for constant monitoring
- Data-logging via USB interface
- Modbus TCP, Ethernet connection
- Remote start/stop relay
- Stainless steel piping
- Designed for dynamic pressure loading

+ OPTIONS

- Flow control valve – flow & purity adjustment
- Energy saving valve – reduces compressed air usage during turn down
- Purity control – off spec purge
- Sequential start/stop – one button operation
- SMS alarm
- Remote monitoring
- Audio-visual alarm
- And others according to application

TYPICAL APPLICATIONS

- Fish farming
- Gold leaching
- Glass/metal production
- Ozone production
- Veterinary
- Water treatment



KEY BENEFITS

- Flexibility or configuration
- Cost effective
- Safety
- Easy operation
- Reliability



OPERATING CONDITIONS

Ambient temperature range	5°C to 50°C
Nitrogen outlet pressure	4 to 6 barG
Nitrogen dew point	-50°C (-70°C)
Air inlet pressure	7.5 to 10barG
Inlet air quality	ISO: 8573.1:2010 class 1.4.1
Pressure dew point	3°C
Filtration grade	0.01 micron
Power supply	110-240V / 50-60Hz

Model	Oxygen capacity						Dimensions LxWxH cm	Weight kg
	90%		93%		95%			
	kg/h	m³/h	kg/h	m³/h	kg/h	m³/h		
02	1.6	1.2	1.5	1.1	1.4	1.1	62x70x170	165
04	3.4	2.6	3.2	2.4	2.9	2.2	65x75x195	200
06	4.2	3.2	3.9	2.9	3.5	2.6	65x80x195	250
09	5.8	4.4	5.4	4.1	4.9	3.7	78x82x195	350
012	8.2	6.2	7.7	5.8	6.9	5.2	82x82x212	450
015	11.2	8.4	10.5	7.9	9.5	7.1	87x83x213	550

NOTES

- Performance data is based on 7 barG inlet pressure and 20°C to 30°C ambient temperature.
- Flow stated in cubic meter (m³) is with reference conditions, Temperature: 20°C, Pressure: 1.013 barA.
- Conversion factor for m3 with reference conditions, Temperature: 0°C, Pressure: 1.013 barA is 0.8 m³/kg.
- Design and specifications are subject to change without notice or obligation.

PSA OXYGEN GENERATORS SEP SERIES

PREMIUM PERFORMANCE

The unique SEP design provides consistent high flow rates of oxygen with minimum footprint. Together with molecular sieve protection from moisture to, substantially lower the service costs, and extend the lifetime of the molecular sieve.

STANDARD FEATURES

- Colour touch screen control
- Built in purity analyzer for constant monitoring
- Data-logging via USB interface
- Modbus TCP, Ethernet connection
- Remote start/stop relay

OPTIONS

- Flow control valve – flow & purity adjustment
- Energy saving valve – reduces compressed air usage during turn down
- Purity control – off spec purge
- Sequential start/stop – one button operation
- SMS alarm
- Remote monitoring
- Audio-visual alarm
- And others according to application



OPERATING CONDITIONS

Ambient temperature range	5°C to 50°C
Nitrogen outlet pressure	4 to 6 barG
Nitrogen dew point	-50°C (-70°C)
Air inlet pressure	7.5 to 10barG
Inlet air quality	ISO: 8573.1:2010 class 1.4.1
Pressure dew point	3°C
Filtration grade	0.01 micron
Power supply	110-240V / 50-60Hz

KEY BENEFITS

- Zeolite anti-crush design
- No channelling effect
- Minimized footprint
- Molecular sieve protection
- Siemens based control system
- Stainless steel piping
- Designed for dynamic pressure loading

Model	Oxygen capacity						Dimensions LxWxH cm	Weight kg
	90%		93%		95%			
	kg/h	m ³ /h	kg/h	m ³ /h	kg/h	m ³ /h		
020	13.5	10.2	12.6	9.5	11.4	8.6	125x85x205	750
020+	15.2	11.4	14.2	10.7	12.8	9.6	125x85x205	750
027	19.4	14.6	18.1	13.6	16.3	12.3	130x85x220	1000
027+	20.6	15.5	19.3	14.5	17.4	13.1	130x85x220	1000
035	24.8	18.6	23.2	17.4	20.9	15.7	135x95x220	1550
035+	27	20.3	25.2	19	22.7	17.1	135x95x220	1550
050	31	23.3	29	21.8	26.1	19.6	162x113x200	1800
050+	38.5	28.9	36	27.1	32.4	24.4	162x113x200	1800
065	42.7	32.1	39.9	30	35.9	27	181x113x216	2300
065+	49.6	37.3	46.4	34.9	41.8	31.4	181x113x216	2300
080	54.3	40.8	50.8	38.2	45.7	34.4	192x125x225	2800
080+	61.3	46.1	57.3	43.1	51.5	38.7	192x125x225	2800
0100	69.8	52.5	65.3	49.1	58.7	44.1	205x140x250	3000
0100+	76	57.1	71.1	53.4	63.9	48	205x140x250	3000
0125	85.3	64.1	79.8	60	71.8	54	205x140x300	3300
0125+	93.1	70	87	65.4	78.3	58.9	205x140x300	3300
0150	105.5	79.3	98.6	74.1	88.7	66.7	205x140x350	4000
0150+	114	85.7	106.5	80.1	95.9	72.1	205x140x350	4000

NOTES

- Performance data is based on 7 barG inlet pressure and 20°C to 30°C ambient temperature.
- Flow stated in cubic meter (m³) is with reference conditions, Temperature: 20°C, Pressure: 1.013 barA.
- Conversion factor for m³ with reference conditions, Temperature: 0°C, Pressure: 1.013 barA is 0.8 m³/kg.
- Designs and specifications are subject to change without notice or obligation.

TYPICAL APPLICATIONS

- Fish farming
- Glass/Metal production
- Gold leaching
- Ozone production
- Veterinary
- Water treatment



PSA OXYGEN GENERATOR OXYPORT

PREMIUM PERFORMANCE

The Oxyport PSA generator, produces high quality oxygen from Pressure Swing Adsorption. The Oxyport is a complete turnkey solution for smaller flows with a minimal footprint.

➤ STANDARD FEATURES

- SIEMENS control system with 4" colour touch screen
- Built in purity analyser for constant monitoring
- Data-logging via USB interface
- Integrated oil free air compressor, dryer, filters, generator and 10L buffer tank

+ OPTIONS

- SMS alarm & control
- Audio/visual alarm
- 7" color display
- Filling station

NITROGEN PURITY	
Purity %	Flow l/min
94	10.0

NOTES

- Performance data is based on 7 barG inlet pressure and 20°C to 30°C ambient temperature
- Flow stated in liter per minute (l/min) with reference conditions, Temperature: 20°C, Pressure: 1.013 barA

OPERATING CONDITIONS

Ambient temperature range	5°C to -40°C
Oxygen outlet pressure	4 to 5 barG
Oxygen dew point	-50°C (-70°C)
Power supply	230V / 50Hz
Power	1.3kW
Dimensions & weight	55x67x180cm, 220kg



KEY BENEFITS

- Minimized footprint
- Compact
- Easy to move
- Reliability
- Siemens based control system

MOBILE OXYGEN FILLING STATION

Mobile oxygen filling station is an oxygen generating & filling system built in transportable container. The oxygen is produced from compressed air by pressure swing adsorption technology. The compressed air system, the separation system as well as the high pressure cylinder filling system is integrated in the container.

STANDARD FEATURES

- Transportable (pass for fork-lift and bolt-on ISO corners)
- Turnkey, plug & play solution
- Designed for outdoors - the container is an excellent protection against rain and sun
- Automatic start and stop operation
- Available oxygen outlet at pressure 4barG; Oxygen cylinders are filled at 150barG (200barG)
- Oxygen purity 95% +/-1%



OPTIONS

- Automatic fire detection system
- Audio/visual alarm
- Sequential start/stop system – one button operation
- Surveillance system – monitors oxygen concentration of the ambient air in the container
- CSC approval – certification for sea transport
- SIBIRIA – nordic version for temperatures down to -50°C

TECHNICAL DATA

MODEL	MOFS4	MOFS8	MOFS16	MOFS24
FILLING CAPACITY	3.2 m ³ /h	6.4 m ³ /h	16.0 m ³ /h	24.0 m ³ /h
CYLINDERS FILLED IN 24H	12.8	25.6	64	96
END PRESSURE	150bar	150bar	170/200bar	170/200bar
POWER	7kW	12kW	25kW	45kW
CONTAINER SIZE	9ft	20ft	20ft	20ft
DIMENSIONS	2.9x 2.2x 2.3m	6.1x 2.5x 2.6m	6.1x 2.5x 2.6m	6.1x 2.5x 2.6m
TOTAL WEIGHT	2100kg	3700kg	4600kg	6500kg

Note: Cylinder size = 6m³

THE PROCESS

Mobile oxygen filling station is an oxygen generating & filling system built in transportable container. The oxygen is produced from compressed air by pressure swing adsorption technology. The compressed air system, the separation system as well as the high pressure cylinder filling system is integrated in the container.



Mobile oxygen filling station is a compact solution design for outdoors able to fill cylinders of any size.



OXYGEN CONES



Oxygen cones are used to enter and mix oxygen into bodies of water, particularly in an aqua culture environment. It is used both in closed circuits as well as in the flowing ponds. Water inside the cone provided by circulation pumps is mixed with oxygen supplied from a separate vessel. Maximum pressure that arises does not exceed 2 bar. Oxygen supply pressure must not be higher than 2 bar.

Receiving a stream of oxygen, water is moving in a vertical direction towards the base of the cone where they are mixed together (self-saturation method), causing the optimum molecular oxygenation.

In a next step, the oxygenated water is moved through pipelines, optionally assisted with a circulating pumps system to the breeding pools.

In a fish farm, oxygen cones are placed both next to the basin with the fish, as well as in the interior of the basin, shortening the transmission time generally reduces the energy consumed, and thus, improves economic indicators breeding.

GAS DISTRIBUTION PANELS



The Oxygen distribution panel controls pneumatic valves that regulate the amount of oxygen based on information sent from the control system. Solenoid valves are avoided for maximum safety. The design of the panel is adapted for individual requirements. In case of power failure the oxygen flow can be set manually. The pneumatic valves are opened by compressed air, so a connection to the air source is required.

The Oxygen distribution panel controls pneumatic valves that regulate the amount of oxygen based on information sent from the control system. Solenoid valves are avoided for maximum safety.

The design of the panel is adapted for individual requirements. In case of power failure the oxygen flow can be set manually. The pneumatic valves are opened by compressed air, so a connection to the air source is required.

COMPLETE AIR & POWER SOLUTIONS

CAPS Australia is a leading provider of power generation, compressed air and gas generation solutions, boasting an extensive portfolio of products and brands.

CAPS delivers products that are suited to Australian operating environments, serving a wide range of industries including mining and resources, agriculture and manufacturing.

WHO IS CAPS AUSTRALIA?

- Over four decades of experience in the Australian market.
- 10 branches reach right around the country with 200 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, AIRMAN, Mitsubishi Generator Series, Sauer, Pedro Gil, Bollfilter, Next Turbo Technologies, Lamson and more.
- Custom design, manufacturing, supply and service.
- Operating under an ISO 9001 accredited quality system.

WHO DO WE SERVE?

- Mining
- Manufacturing
- Industrial
- Commercial
- Data Centres
- Public and private utilities
- Waste & water treatment plants



GLOBAL NETWORKS

BACK BY LOCAL KNOWLEDGE & EXPERIENCE

Founded in Western Australia in 1980, CAPS joined the Ingersoll Rand family in 2024. Ingersoll Rand is a global market leader offering a broad range of innovative and mission-critical air, fluid, energy, and medical technologies, enhancing industrial productivity and efficiency.

By utilising quality products with proven reliability where and when they are needed, CAPS' extensive range of industrial equipment features world-renowned brands and means customers have full access to the latest technology, suited to Australian operating environments.

24/7 NATIONWIDE SUPPORT

10 BRANCHES SERVICING ALL OF 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 knowledge to fix your air compressor or generator first time, every time.

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

Every minute wasted waiting for answers costs you profit, so CAPS offers technical support over the phone 24/7, with experts and spare parts located in our branches all around Australia.

PREVENTATIVE MAINTENANCE

We're always aiming to help **reduce your operating costs and any interruptions to production.**

Our factory-authorized 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 to never 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.



SOLVING YOUR AIR AND POWER CHALLENGES

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BRANCH LOCATIONS

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NEWCASTLE | SYDNEY | LAUNCESTON | MELBOURNE | ADELAIDE

