

PSA Technology : Pressure Swing Adsorption



Lubricated screw compressor designed with the best efficiency (kW/.h.m³) of the market.
Can operate 24/7 and has a long service life comparing to other brands.

High quality SEC 7 OX Adsorption air dryer to deliver a dry and very clean air to the oxygen generator.
The benefit is to keep the zeolite at its optimum separation capacity.



Oil separator for a clean environment.

Built-in dew point sensor for ensuring air quality.



PSA oxygen generators

PSA oxygen generator with patented system for oxygen purity production 95% +/-1%.
Version 5,5 bar or 12 bar.



Oil-less piston oxygen booster from 5 to 12 bar with easy maintenance operation.



Paramagnetic oxygen analyzer for a precise oxygen purity reading and easy on-site calibration complying to the Oxygen Pharmacopoeia.



Outdoor cabin with complete oxygen manifolds.
Customized solution.



PRO₂XY® - 5 bar

PSA technology

- Maximum purity > 95% ± 1%
- Oxygen available upon request or continuously
- Simple and reliable production technology
- Constant flow and pressure of oxygen no matter the consumption (MIL'S patent)
- Pressure at 5 bar for single stage network pressure
- PROCOM 2 control device (see page 47)

Complies with ISO 7396-1 and European Pharmacopoeia Oxygen 93.



Characteristics

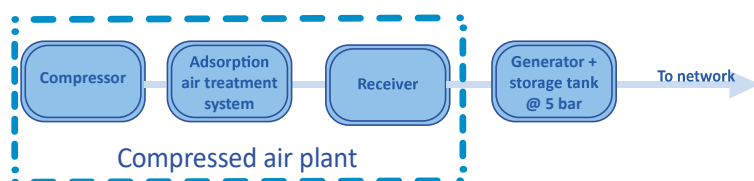
- Flow from 4 to 35 Nm³/h @ 93%
- Air inlet pressure : 6,5 bar
- Oxygen exhaust pressure : between 5 to 5,5 bar
- O₂ measurement by heated and regulated paramagnetic sensor and with back pressure regulator
- CO / CO₂ infrared monitoring (optional)
- Dew point monitoring of O₂ (optional)
- Ambient O₂ monitoring (optional)
- Power consumption monitoring (optional)
- Working temperature from + 5°C to + 40°C
- Continuous running 24 hours (7/7)

PRO ₂ XY® 5 bar version	Flow rate m ³ .h ⁻¹		Required air flow m ³ .h ⁻¹	Oxygen storage tank volume @ 5bar *	HOSPITAIR® S ** (Pack or G)
	93 %	95 %			
PRO ₂ XY® OX 3	4	3	40	200 l	MVA 9
PRO ₂ XY® OX 5	5	4,5	60	200 l	MVB 12
PRO ₂ XY® OX 7	7,7	7	93	500 l	MVB 16
PRO ₂ XY® OX 9	9,9	9	119	500 l	MVC 19
PRO ₂ XY® OX 13	14,3	13	150	500 l	MVC 23
PRO ₂ XY® OX 16	17,6	16	184	500 l	MVD 26
PRO ₂ XY® OX 20	22	20	240	1 000 l	MVE 38
PRO ₂ XY® OX 26	28,6	26	300	1 000 l	MVE 46
PRO ₂ XY® OX 32	35,2	32	392	1 000 l	MVF 56

*: Built-in storage tank : capacity of 200 or 500 liters mounted on the generator, capacity of 1000 litres delivered separately

** : Air plant required at 11 bar

Process sequence

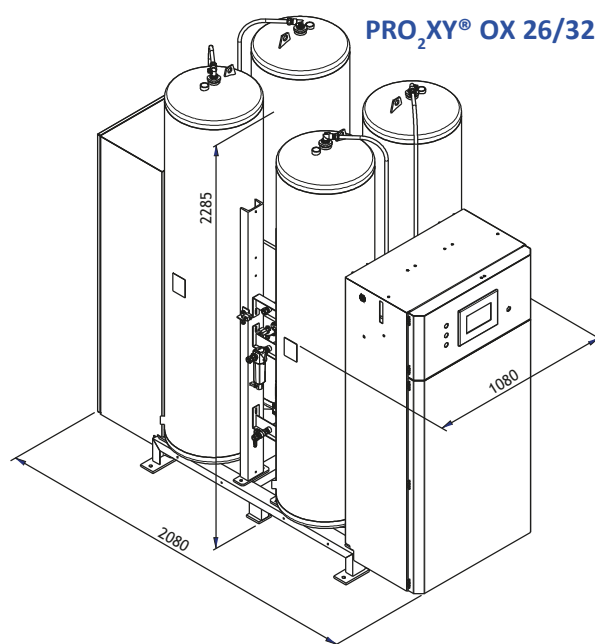
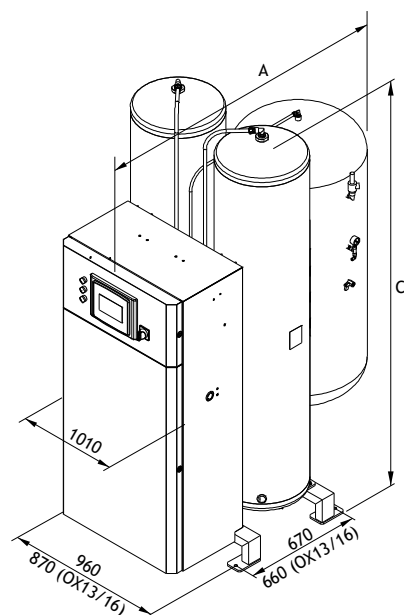


Power supply

1-phase ,230V - 50 / 60 Hz (100W)

PSA oxygen generators

Dimensions (mm)



	A	C	Weight (kg)
PRO ₂ XY® OX 3	1210	1890	290
PRO ₂ XY® OX 5	1240	2015	440
PRO ₂ XY® OX 7/9	1480	2140	640
PRO ₂ XY® OX 13/16	1580	2295	900
PRO ₂ XY® OX 20	2000	2295	1200

	Weight (kg)
PRO ₂ XY® OX 26/32	1 455

Configuration

Measurements	O ₂ generator *	O ₂ network *	CO *	CO ₂	H ₂ O in air	H ₂ O in O ₂	Ambient O ₂ *	Air pressure	O ₂ network pressure *	Power consumption
Single line	✓	●	●	●	●	●	●	✓	✓	●
Multi-line N°1	✓	●	●	●	●	●	●	✓	✓	●
Multi-line N°2	✓						●			●
Multi-line N°3	✓						●			●

✓: Standard equipment ●: Optional

*: mandatory according to ISO7396-1 : 2016

Plant references

PRO ₂ XY® - 5 bar	OX 3	OX 5	OX 7	OX 9	OX 13	OX 16	OX 20	OX 26	OX 32
PRO ₂ XY® Single line	920423	920424	920425	924629	921487	924633	925826	923854	924637
PRO ₂ XY® Line N°1	922311	922312	922313	924630	922314	924634	925827	923855	924638
PRO ₂ XY® Line N°2	922832	922833	922834	924631	922835	924635	925828	923856	924639
PRO ₂ XY® Line N°3	922948	922949	922950	924632	922951	924636	925829	923857	924640

Thermostatically controlled paramagnetic O₂ sensor

1 per generator

625638

Accessories and option references

Zirconium O ₂ sensor	O ₂ purity or network	625616	O ₂ hygrometry monitoring	823735
CO / CO ₂ infrared analyzer	manual calibration	724383	Portable ambient O ₂ analyzer	622765
CO / CO ₂ infrared analyzer	automatic calibration	724385	Paramagnetic O ₂ network sensor	725035
KIT analyzer CO	electromechanical	724912	Power consumption monitoring	See p 24
KIT analyzer CO/CO ₂	electromechanical/IR	724914		
O ₂ / ambient air analyzer	wall mounting	622709		
O ₂ ambient alarm box	1-ph fan	625088		
	3-ph fan	625339		
PLC back-up power supply	1 per generator	625004		

PRO₂XY® - 12 bar

PSA technology

- Maximum purity 95%
- Oxygen available upon request or continuously
- Simple and reliable production technology
- Constant flow and pressure of oxygen no matter the consumption (MIL'S patent)
- Pressure at 12 bar for double stage network compression by an oil-free electrical booster
- PROCOM 2 control device (see page 47)

Complies with ISO 7396-1 and European Pharmacopoeia Oxygen 93.



Characteristics

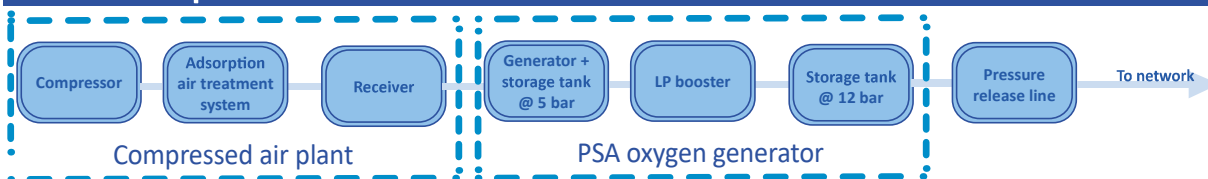
- Flow from 4 to 35 Nm³/h @ 93%
- O₂ storage pressure: 12 bar / 9 bar: after pressure release on network
- O₂ measurement by heated and regulated paramagnetic sensor and with back pressure regulator
- CO / CO₂ infrared monitoring (optional)
- Dew point monitoring of O₂ (optional)
- Ambient O₂ monitoring (optional)
- Power consumption monitoring (optional)
- Working temperature from +5°C to +40°C
- Continuous running 24 hours (7/7)

PRO ₂ XY® 12 bar version	Flow rate m ³ .h ⁻¹		Required air flow m ³ .h ⁻¹	Oxygen storage tank volume @ 5bar *	Oxygen storage tank volume @ 12bar *	HOSPITAIR® S ** (Pack or G)
	93 %	95 %				
PRO ₂ XY® OX 3	4	3	40	200 l	200 l **	MVA 9
PRO ₂ XY® OX 5	5	4,5	60	200 l	200 l **	MVB 12
PRO ₂ XY® OX 7	7,7	7	93	500 l	500 l **	MVB 16
PRO ₂ XY® OX 9	9,9	9	119	500 l	500 l **	MVC 19
PRO ₂ XY® OX 13	14,3	13	150	500 l	500 l **	MVC 23
PRO ₂ XY® OX 16	17,6	16	184	500 l	500 l **	MVD 26
PRO ₂ XY® OX 20	22	20	240	1 000 l	1 000 l **	MVE 38
PRO ₂ XY® OX 26	28,6	26	300	1 000 l	1 000 l **	MVE 46
PRO ₂ XY® OX 32	35,2	32	392	1 000 l	1 000 l **	MVF 56

*: Storage tank included : capacity of 200 or 500 liters mounted on the generator, capacity of 1000 litres delivered separately

** : Air plant required at 11 bar

Process sequence

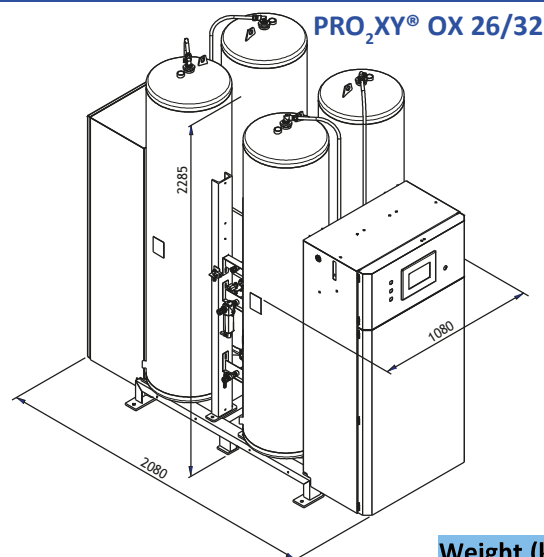
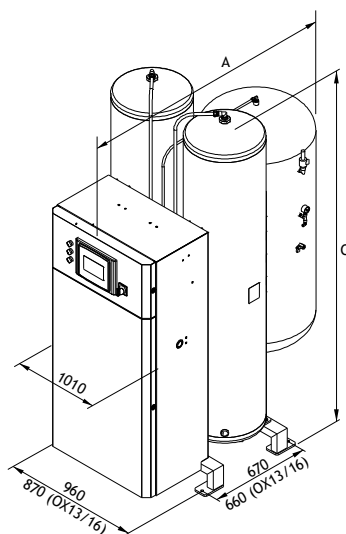


Power supply

3-phase, 400V + N + E - 50 / 60 Hz

PSA oxygen generators

Dimensions (mm)



	A	C	Poids (kg)
PRO ₂ XY® OX 3	1210	1890	290
PRO ₂ XY® OX 5	1240	2015	440
PRO ₂ XY® OX 7/9	1480	2140	640
PRO ₂ XY® OX 13/16	1580	2295	900
PRO ₂ XY® OX 20	2000	2295	1200

PRO ₂ XY® OX 26/32	Weight (kg)
	1 510

Configuration

Measurements	O ₂ generator *	O ₂ network *	CO *	CO ₂	H ₂ O in air	H ₂ O in O ₂	Ambient O ₂ *	Air pressure	O ₂ network pressure *	Power consumption
Single line	✓	●	●	●	●	●	●	✓	✓	●
Multi-line N°1	✓	●	●	●	●	●	●	✓	✓	●
Multi-line N°2	✓						●			●
Multi-line N°3	✓						●			●

✓: Standard equipment ●: Optional *: mandatory according to ISO7396-1 : 2016

Plant references

PRO ₂ XY® - 12 bar	OX 3	OX 5	OX 7	OX 9	OX 13	OX 16	OX 20	OX 26	OX 32	
PRO ₂ XY® Single line	924431	924435	924439	924641	924443	924645	925830	924447	924649	
PRO ₂ XY® Line N°1	924432	924436	924440	924642	924444	924646	925831	924448	924650	
PRO ₂ XY® Line N°2	924433	924437	924441	924643	924445	924647	925832	924449	924651	
PRO ₂ XY® Line N°3	924434	924438	924442	924644	924446	924648	925833	924450	924652	
Oxygen storage tank @12 bar 1 per line	500 l. 722291			1 000 l. 722293				1 000 l. 723981		
Pressure release single line @ 9 bar	BP300 + PAR OX36				722294					
Pressure release Multi-line @ 9 bar	2 x (BP300 + PAR OX36)				722295					
Paramagnetic O ₂ sensor	1 per generator				625638					

Accessories and option references

Zirconium O ₂ sensor	O ₂ purity or network	625616	O ₂ hygrometry monitoring	823735
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O ₂ ambient alarm box	1-ph fan	625088		
	3-ph fan	625339		
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