



INDUSTRIAL O₂ GENERATORS

INDUSTRIAL PSA MODELS FROM

50 l/min TO 7250 l/min



DRAFTED

DESIGNED

FABRICATED

Our PSA designs have been tested to the extreme to ensure that you, the client, get the best in oxygen generating technology.



PSA OXYGEN GENERATORS

Pressure Swing Adsorption (PSA) technology has gained widespread commercial acceptance as the technology of choice for bulk gas separation. It is a particularly cost-effective and energy-efficient technology - especially for the on-site manufacture of medical grade oxygen for single and multi-patient use, since Skarstrom patented the "heatless dryer" in the early 60's.

FX INDUSTRIAL SERIES

Designed and developed using the latest in PSA technology, the FX Series focuses on robust and affordable solutions. Able to withstand industrial applications in harsh climates, while maintaining oxygen purity and efficiency, the FX Series is the right tool for the job.



Nitrogen

In the process of generating oxygen, oxygen is allowed to pass by freely while the nitrogen is adsorbed by molecular sieve.

ACCESS YOUR SYSTEM REMOTELY WITH YOUR SMARTPHONE

From start-up to shut-down, from pressure to O₂ purity, our range of PSA's can be fitted with a "real-time" monitoring system, allowing you to control your system remotely. Connected via Wi-Fi or Ethernet cable, the system can be accessed by your mobile device, allowing you to keep an eye on your system 24/7/365. Typically the system is programmed to notify you by SMS should any alarms be triggered, minimising down time, saving you money, giving you the edge.

INDUSTRIAL APPLICATIONS WE TAILOR FOR

- CIL gold processing plants
- platinum processing plants
- aquaculture
- wastewater treatment
- ozone generating plants
- combustion applications

ALL THE ADVANTAGES OF THE FX SERIES

- Low energy consumption (± 0.85 kWh/kg O₂ @ 350 kPa(g)).
- Green O₂ - i.e. no particulate emissions or emissions of SO_x / NO_x / CO / CO₂ or other gaseous pollutants associated with LO_x deliveries.
- Produces O₂ at site, on demand, in real time.
- No hazardous high-pressure compressed O₂ storage required.
- No hazardous LO_x storage required.
- Low maintenance cost - function check every 8000 hours or once per year; valve services only required at 16000 - 24000 hours.
- Able to integrate into existing control systems.
- Minimal startup and shutdown time.
- Interactive Human Machine Interface (HMI) modelled on smart-phone technology for ease of use.
- Category 0 Emergency Stop to IEC 60204-1: 2016-Part 1.
- Designed for a SIL 2 (safety integrity level) to minimize risk.
- Remote monitoring.

FX TECHNICAL SPECIFICATIONS

Below are the FX standard models ranging from 50 lpm to 7250 lpm

Calculations done to STP, 1013 mBar at 0°C

For a quote or further information, simply contact us and specify the series and capacity (eg: FX-D-950)

FX-A		50	85	115
O ₂ CAPACITY	lpm	50	85	115
O ₂ CAPACITY	kg/hr	4.28	7.28	9.85
FEED AIR DELIVERY	m ³ /min	0.65	1.10	1.50
FEED AIR PRESSURE	kPa (g)	650	650	650
FEED AIR POWER	kW	5.5	7.5	9.0
FEED AIR CONNECTION	in	3/4 BSP	3/4 BSP	3/4 BSP
O ₂ OUTLET PRESSURE	kPa (g)	310-450	310-450	310-450
O ₂ OUTLET CONNECTION	in	1/2 BSP	1/2 BSP	1/2 BSP
OVERALL DIMENSIONS	mm (in)	650 x 600 x 1680	820 x 760 x 1770	880 x 850 x 1900
WEIGHT	kg	330	400	500
SOUND LEVEL	dB	< 80	< 80	< 80

FX-B		185	250	300
O ₂ CAPACITY	lpm	185	250	300
O ₂ CAPACITY	kg/hr	15.85	21.42	25.70
FEED AIR DELIVERY	m ³ /min	2.34	3.16	3.79
FEED AIR PRESSURE	kPa (g)	650	650	650
FEED AIR POWER	kW	15.0	18.5	25.0
FEED AIR CONNECTION	in	1" BSP	1" BSP	1" BSP
O ₂ OUTLET PRESSURE	kPa (g)	310-450	310-450	310-450
O ₂ OUTLET CONNECTION	in	3/4" BSP	3/4" BSP	3/4" BSP
OVERALL DIMENSIONS	mm (in)	920 x 800 x 2300	1100 x 1000 x 2305	1400 x 1200 x 2400
WEIGHT	kg	630	830	1300
SOUND LEVEL	dB	< 80	< 80	< 80

FX-C		350	485	585
O ₂ CAPACITY	lpm	350	485	585
O ₂ CAPACITY	kg/hr	30.00	41.56	50.13
FEED AIR DELIVERY	m ³ /min	4.70	6.72	8.10
FEED AIR PRESSURE	kPa (g)	650	650	650
FEED AIR POWER	kW	30.0	37.0	45.0
FEED AIR CONNECTION	in	2" BSP	2" BSP	2" BSP
O ₂ OUTLET PRESSURE	kPa (g)	310-450	310-450	310-450
O ₂ OUTLET CONNECTION	in	1" BSP	1" BSP	1" BSP
OVERALL DIMENSIONS	mm (in)	1400 x 1300 x 2400	1400 x 1300 x 2800	1500 x 1300 x 3000
WEIGHT	kg	1800	2000	2200
SOUND LEVEL	dB	< 80	< 80	< 80

FX-D		725	950	1250
O ₂ CAPACITY	lpm	725	950	1250
O ₂ CAPACITY	kg/hr	62.12	81.40	107.12
FEED AIR DELIVERY	m ³ /min	10.04	13.16	16.80
FEED AIR PRESSURE	kPa (g)	650	650	650
FEED AIR POWER	kW	85.0	110.0	110.0
FEED AIR CONNECTION	in	3/4 BSP	3/4 BSP	3/4 BSP
O ₂ OUTLET PRESSURE	kPa (g)	310-450	310-450	310-450
O ₂ OUTLET CONNECTION	in	1/2 BSP	1/2 BSP	1/2 BSP
OVERALL DIMENSIONS	mm (in)	1900 x 1500 x 3000	1900 x 1500 x 3200	2000 x 1600 x 3700
WEIGHT	kg	4000	4800	5800
SOUND LEVEL	dB	< 80	< 80	< 80

FX-E		1650	2000	2650
O ₂ CAPACITY	lpm	1650	2000	2650
O ₂ CAPACITY	kg/hr	141.40	171.38	227.08
FEED AIR DELIVERY	m ³ /min	22.10	26.80	35.50
FEED AIR PRESSURE	kPa (g)	650	650	650
FEED AIR POWER	kW	132	200	250
FEED AIR CONNECTION	in	4" B16.5 FLANGE	4" B16.5 FLANGE	4" B16.5 FLANGE
O ₂ OUTLET PRESSURE	kPa (g)	310-450	310-450	310-450
O ₂ OUTLET CONNECTION	in	2" B16.5 FLANGE	2" B16.5 FLANGE	2" B16.5 FLANGE
OVERALL DIMENSIONS	mm (in)	2400 x 1800 x 3700	2400 x 1800 x 4000	3430 x 2570 x 4890
WEIGHT	kg	7200	8800	11300
SOUND LEVEL	dB	< 80	< 80	< 80

FX-F		4000	5500	7250
O ₂ CAPACITY	lpm	4000	5500	7250
O ₂ CAPACITY	kg/hr	342.76	471.30	621.26
FEED AIR DELIVERY	m ³ /min	53.60	73.80	97.30
FEED AIR PRESSURE	kPa (g)	650	650	650
FEED AIR POWER	kW	315	450	550
FEED AIR CONNECTION	in	8" B16.5 FLANGE	8" B16.5 FLANGE	8" B16.5 FLANGE
O ₂ OUTLET PRESSURE	kPa (g)	310-450	310-450	310-450
O ₂ OUTLET CONNECTION	in	6" B16.5 FLANGE	6" B16.5 FLANGE	6" B16.5 FLANGE
OVERALL DIMENSIONS	mm (in)	3800 x 2680 x 5300	4000 x 2700 x 5700	4720 x 2800 x 6100
WEIGHT	kg	16950	22600	30500
SOUND LEVEL	dB	< 80	< 80	< 80

Air Preperation

ISO 8573-1 (2010) air quality
class 1.4.1

FX-E-2650

Concentrating a massive
5 tons per day of 93%
oxygen, the FX-E-2650 is a
prime example of excellent
engineering in terms of cost
to output ratio.

O₂ Storage Tank

Once stored in the OST, the O₂
can be used to feed an oxygen
compressor or booster for cylinder
filling or it can feed directing into
your application.



FOXOLUTION PRODUCT RANGE

In addition to the **INDUSTRIAL O₂ GENERATORS^{FOXOLUTION}** series, we also offer complete system builds; including containerised, skidded and large scale systems. **OXYGEN SYSTEMS^{FOXOLUTION}** are adaptable to your onsite needs. These systems can be designed to provide cylinder filling or supply O₂, directly to your facility or industrial installation.

Our **GAS DETECTION EQUIPMENT^{FOXOLUTION}** range includes sensors and monitoring devices which can be fitted alongside your **INDUSTRIAL O₂ GENERATORS^{FOXOLUTION}** allowing you to stay up to date with O₂ purity, dewpoint, pressure, temperature, CO and CO₂.

Additional solutions include:

MEDICAL O₂ GENERATORS / MEDICAL O₂ SYSTEMS
N₂ GENERATORS / NITROGEN SYSTEMS / GAS COMPRESSORS
GAS DISTRIBUTION SYSTEMS / GAS BOOSTERS / GAS DETECTION EQUIPMENT
GAS CYLINDERS / FESTO PNEUMATICS / FOXOLUTION SERVICES



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