



MEDICAL O₂ GENERATORS

MEDICAL PSA MODELS FROM

50 l/min TO 7250 l/min



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

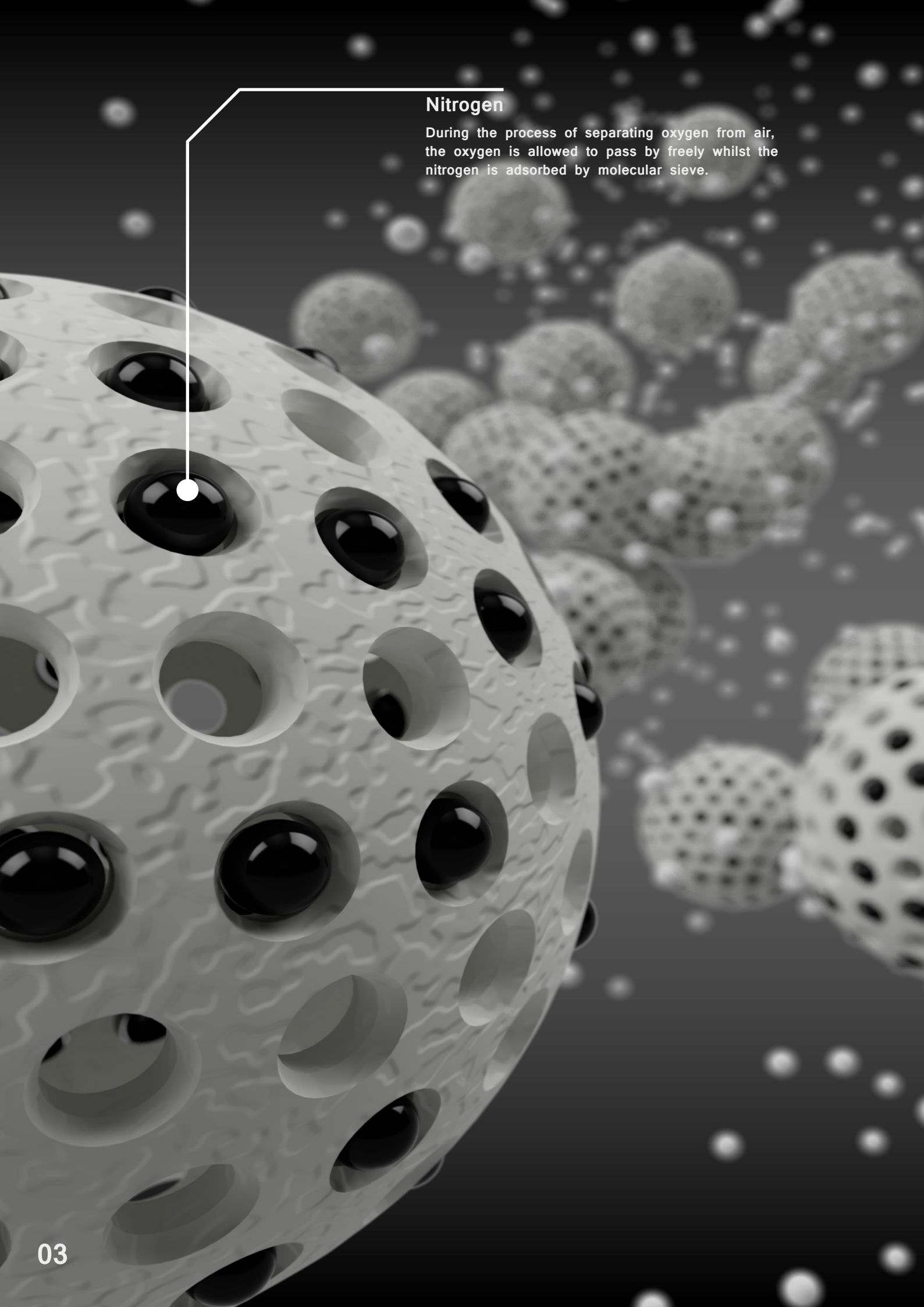


PSA OXYGEN GENERATORS

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-M MEDICAL SERIES

Designed and developed using the latest PSA technology, the FX-M Series focuses on robust and affordable solutions for on-site oxygen production. Designed for the medical industry, with stainless steel finishing and an easy-to-clean assembly, the FX-M series can be installed at any hospital or clinic, providing medical-grade oxygen on demand, reliably and efficiently, whilst occupying less than half the carbon footprint of bulk oxygen deliveries.



Nitrogen

During the process of separating oxygen from air, the oxygen is allowed to pass by freely whilst the nitrogen is adsorbed by molecular sieve.

ACCESS YOUR SYSTEM REMOTELY WITH YOUR SMARTPHONE

Foxolution's range of PSA's have the option of being fitted with a "real-time" monitoring system, giving you the freedom of remote access. Connected via Wi-Fi, the system can be accessed with your mobile device, so you can keep an eye on it 24/7/365. Typically, the system is programmed to notify you by SMS should any alarms be triggered, minimising downtime, saving you money, giving you the edge.

MEDICAL APPLICATIONS WE TAILOR FOR

- Small clinics and healthcare facilities
- Small to large hospitals.
- Medical O₂ cylinder filling plants.
- Emergency response services.
- Custom designs.

ALL THE ADVANTAGES OF THE FX-M SERIES

- Low energy consumption (± 0.85 kWh/kg O₂).
- Green O₂ - i.e. no particulate emissions or emissions of SO_x / NO_x / CO / CO₂ or any other gaseous pollutants associated with liquid oxygen deliveries.
- Produces O₂ on site, on demand, in real time.
- No hazardous high-pressure compressed O₂ storage required.
- No hazardous bulk liquid O₂ storage required.
- Low maintenance cost - function check every 8000 hours or once per year, valve service only required at 16000 - 24000 hours.
- Able to integrate seamlessly 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 promote safety of operation.
- Remote monitoring.
- 3Cr12 corrosion resistant enclosures.

FX-M TECHNICAL SPECIFICATIONS

Below are the FX-M 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-M-C-350)

FX-M-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	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-M-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	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-M-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	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-M-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	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-M-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	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-M-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	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 Preparation

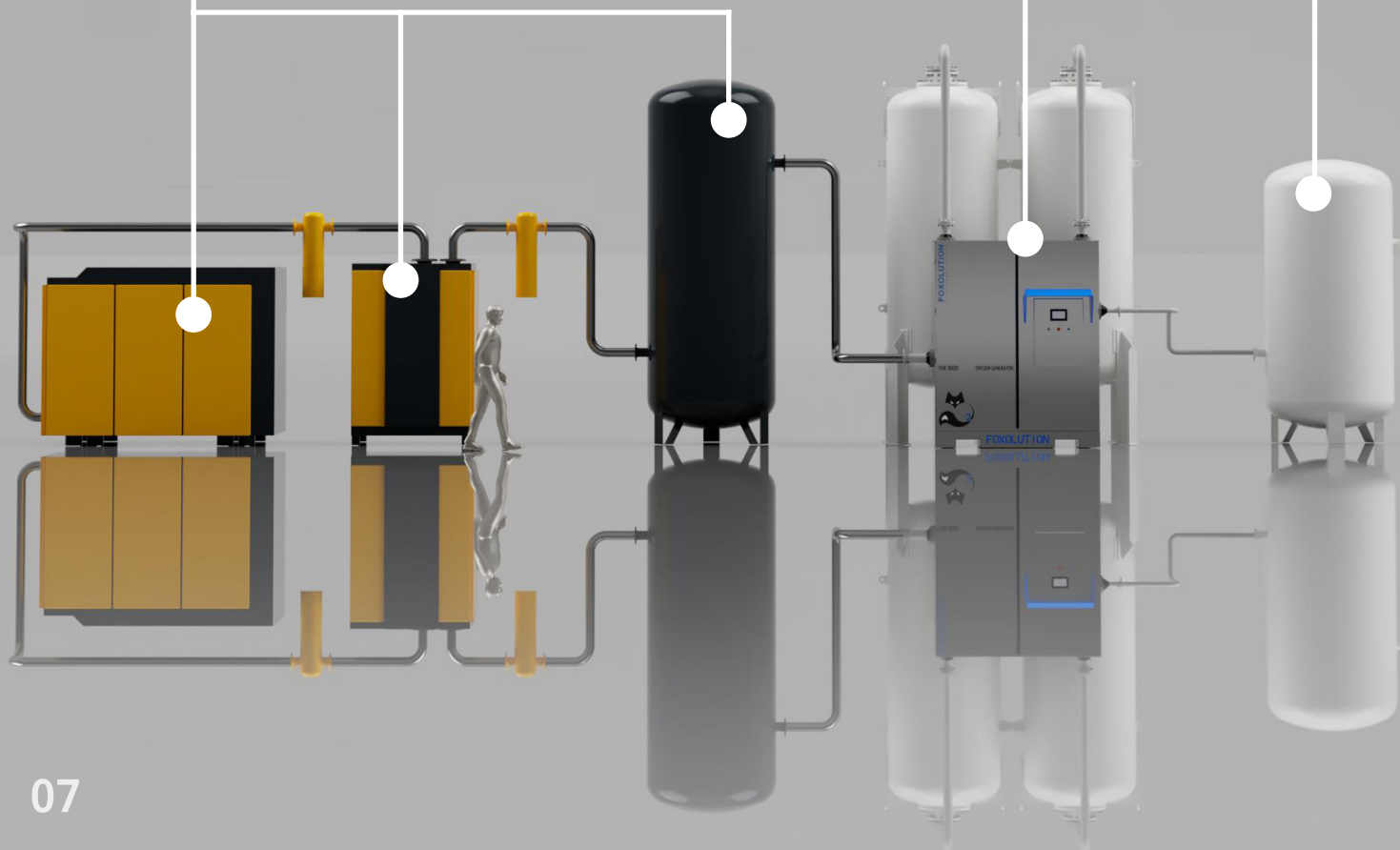
ISO 8573-1 (2010) air
quality Class 1.4.1

FX-M-E-2650

Providing 5 tons per day
of medical grade oxygen,
the FX-M-E-2650 is a
prime example of excellent
engineering and cost
effectiveness combined. Our
generators vessels come
standard with an integrated
guard bed and desiccant
dryer for added longevity.

O₂ Storage Tank

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



FOXOLUTION PRODUCT RANGE

In addition to the MEDICAL O₂ GENERATORS series, we also offer complete system builds to ISO 7396-1:2016; including containerised, skidded and large scale systems. OXYGEN SYSTEMS are adaptable to your onsite needs, and can be designed to provide cylinder filling or oxygen supplied directly to your medical installation; or both.

Our GAS DETECTION EQUIPMENT range includes sensors and monitoring devices which are installed alongside your MEDICAL O₂ GENERATORS, allowing you to stay updated with O₂ purity, dewpoint, pressure, temperature, CO and CO₂ levels, all in real time.

Additional solutions include:

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

LEGITAMACY COMPLIANCE STANDARDS

Foxolution confidently designs, manufactures and installs to a number of international standards such as *Euro Pharmacopoeia Oxygen 93 Percent Monograph*, *United States Pharmacopoeia Oxygen 93 Percent Monograph*, and *ISO 7936-1:2016 Medical Gas Pipeline Systems Part 1: Pipeline systems for compressed medical gases*. For a full list of all the standards we comply with, please visit our website at www.foxolution.co.za.



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