



CONTAINER OXYGEN GENERATOR



**A turn-key project for the critical oxygen demand across Indian hospitals.
The complete container oxygen generator system is tested, installed
at factory and delivered to the hospitals across India.**

Containers consist of Air Compressor, Air Dryer, Filters, Buffer Tank, Oxygen Generator,
Electricity Control System and Optional Cylinder filling Machine.



Excellentia Oxygen Generator

ADVANTAGES

- Easy to Install & Ready to Use
- Fully Automatic
- Minimal Operator's Attention
- Negligible Maintenance
- No changing of Cylinders
- Continuous Purity Check
- Compact Design, Lowest Footprint
- Removable & Relocatable
- Low Generation Cost
- Skid-Mounted Pre-Commissioned
- Larger Oxygen Vessel
- Purity up to 95% Achievable
- Proven PSA Technology
- Heat and Sound Insulation
- Smart Monitor & Control System
- Transportable on all kinds of roads
- Customized Sizes
- Serves as Technical Room

SALIENT FEATURES

- Waterproof and Dust-proof
- Fire Safety – Fire Resistant Class Mo- Incombustible
- Isolation - double wall type with isolating material
- All pipes are Medical Degreased Copper
- Compressed air pipes before treatment is made of galvanized steel
- Access Door - 1 double door, 1 Lateral door
- All components in contact with medical oxygen are degreased
- Switch cabinet comes with all electrical & Monitoring Devices
- Ventilation - canned hot air extraction for internal ventilation
- Regulated fan, ventilating grates with anti-insects grate Access
- Size: 20 X 40 Ft.

TECHNICAL SPECIFICATIONS

Oxygen Flow	24 m ³ /hr
Oxygen Pressure (Cylinder)	150 Bar
Oxygen Pressure (O2 Tank)	6 Bar
Oxygen Concentration (Nominal)	95%
Oxygen Dew Point	Minus 50 Deg
Cylinder Filling Capacity	18 m ³ /hr

Each Airox MED-OX PSA System comes with

- 4 stage Air Pretreatment and filtration for particulate/bacterial Elimination
- 2 Stage Bacteria Filter for Oxygen at Final Outlet.
- Activated Carbon Adsorber Bed to remove trace oil from the downstream of air.
- Life of Activated Carbon bed – 4 Years

TECHNICAL DATA	AIROX MED-OX 5	AIROX MED-OX 10	AIROX MED-OX 200P	AIROX MED-OX 500P
FLOW RATE (LPM)	50	100	200	500
FLOW RATE (Nm3/hr)	3	6	12	30
OXYGEN PURITY	93% +/-3% (AT GENERATOR OTLET)			
OUTLET PRESSURE	OPTIONS OF 0.2 Bar G , 1.8 Bar G , 5 Bar G & 7 Bar G AVAILABLE			
BOOSTER OPTIONAL	FOR CYLINDER FILLING 200 & 350 Bar G WITH BOOSTERS AVAILABLE			
OPERATING TEMPERATURE	-18°C to 49°C	-18°C to 49°C	-18°C to 49°C	-18°C to 49°C
POWER SUPPLY	380/460/575 VAC +/- 10%, 50/60/60 Hz +/- 3% ,			3-Phase
POWER REQUIRED	15 KVA	20 KVA	30 KVA	60 KVA
POWER CONSUMPTION	4.6 KW @ 4-5 barG	8.5 KW @ 4-5 barG	16 KW @ 4-5 barG	38 KW @ 4-5 barG
OUTLET CONNECTION	15 NB	15 NB	25 NB	40 NB
SKID SIZE L x W X H (Mtrs)	2.5 x 4 x 3	2.5 x 4 x 3	2.5 x 4 x 3	3.5 x 4 x 3

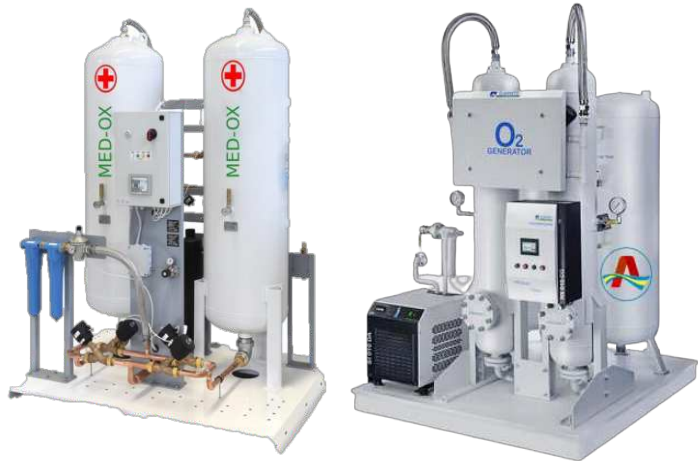
TECHNICAL DATA	AIROX MED-OX 1KP	AIROX MED-OX 1.5KP	AIROX MED-OX 2KP	AIROX MED-OX 3KP
FLOW RATE (LPM)	1000	1500	2000	3000
FLOW RATE (Nm3/hr)	60	90	120	180
OXYGEN PURITY	93% +/-3% (AT GENERATOR OTLET)			
OUTLET PRESSURE	OPTIONS OF 0.2 Bar G , 1.8 Bar G , 5 Bar G & 7 Bar G AVAILABLE			
BOOSTER OPTIONAL	FOR CYLINDER FILLING 200 & 350 Bar G WITH BOOSTERS AVAILABLE			
OPERATING TEMPERATURE	-18°C to 49°C	-18°C to 49°C	-18°C to 49°C	-18°C to 49°C
POWER SUPPLY	380/460/575 VAC +/- 10%, 50/60/60 Hz +/- 3% ,			3-Phase
POWER REQUIRED	90 KVA	130 KVA	200 KVA	450 KVA
POWER CONSUMPTION	70 KW @ 4-5 barG	105 KW @ 4-5 barG	132 KW @ 4-5 barG	205 KW @ 4-5 barG
OUTLET CONNECTION	40 NB	50 NB	80 NB	100 NB
SKID SIZE L x W X H (Mtrs)	4.5 x 4 x 3	5.5 x 4 x 3	6.5 x 4 x 3	6.5 x 4 x 3

PRESSURE SWING ADSORPTION TECHNOLOGY

Our Oxygen Generators operate on Pressure Swing Adsorption, commonly known as PSA Technology.

PSA Technology is based on the selective adsorption phenomena of gas molecules under pressure on the surface of highly porous and efficient adsorbent, in this case of Medical Oxygen Generation the Adsorbent is Zeolite based Molecular Sieve (Z.M.S.)

In PSA System when compressed air is passed through an adsorption tower field with Z.M.S. the molecules of Nitrogen Carbon Di Oxide, moisture & other unwanted gases are adsorbed on the surface of Z.M.S. and Oxygen which is not adsorbed by Z.M.S. comes out of the adsorption tower and is collected in a surge vessel. For continuous generation of Oxygen two Adsorption towers are provided which are interconnected with Auto-change over valves controlled by PLC in the control panel. After saturation of one tower with oxygen the process automatically changes over to another tower and thus the Oxygen production is continuous.



Our systems are the best ones in industry to ensure the highest efficiency, user friendly design, Reliable Economical and Durable. Our onsite Medical Oxygen Generators are custom made and can be adjusted to give the desired nitrogen quality for your process and application.

Safety Features and Audio-Visual Alarms

The Oxygen Gas Generator are Skid Mounted and Pre-commissioned at our works and are fully Automatic and requires virtually no attention of the Operator. Once started it can be left-unattended. All operations take place automatically and oxygen Purity remains

very consistent. In case of any abnormality the gas Generator would trip automatically with Audio Visual Alarms for Necessary action.

SAFETY FEATURES AND AUDIO-VISUAL ALARMS



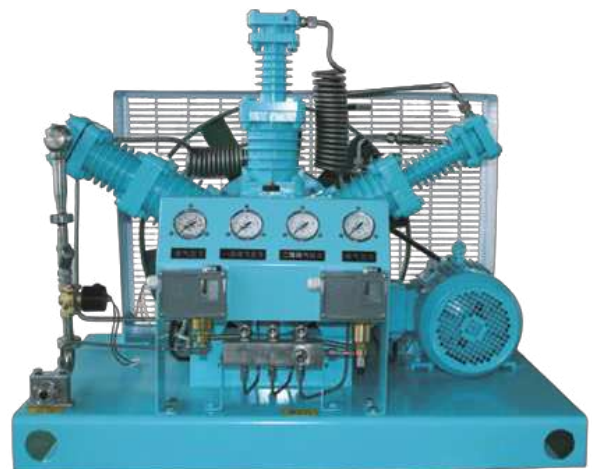
Airox MED-OX PSA or **VSA** Oxygen Gas Generator are Skid Mounted and Pre-commissioned at our works and are fully Automatic and requires virtually no attention of the Operator.

All System comes with 7 or 10 inch HMI Once started it can be left-unattended. All operations take place automatically and oxygen Purity remains very consistent. In case of any abnormality the gas Generator would trip automatically with Audio Visual Alarms for Necessary action.

In case of Storage Tank Getting Filled the Gas Generator Goes to Sleep and restarts Once the pressure in storage Tank is Reduces to set Lim it.

AIROX MED-OX OXYGEN GAS BOOSTER

Airox offers Oxygen Gas Boosters along with gas filling manifolds and pigtails. Oxygen Boosters offered by us are state of art and backed by after sales services. Booster offered are from 3 m³/hr. to 100 m³/hr., Higher Capacities can also be offered



AIROX NIGEN CREDENTIALS & APPROVALS

Certification of Registration

AIROX NIGEN EQUIPMENTS PVT. LTD.

OFFICE ADDRESS: 410, 4TH FLOOR, SARTHIK SQUARE, NEAR HDFC BANK, BODAKDEV, AHMEDABAD - 380 054, GUJARAT, INDIA
WORKS ADDRESS: 304-305, MAHA GUJARAT INDUSTRIAL AREA, MORAIYA-CHANGODAR, AHMEDABAD - 382 213, GUJARAT, INDIA

QA CERTIFICATION SERVICES PVT. LTD.

Certify that the quality management system of the above organization has been audited and found to be in accordance with the requirements of standard detailed below.

ISO 9001:2015

DESIGN, MANUFACTURING AND SUPPLY OF PSA NITROGEN & OXYGEN PLANT, HYDROGEN GENERATION PLANTS, COMPRESSED AIR DRYING SYSTEMS, OXYGEN GAS ANALYSER, AIR & GAS FILTERS, SEPARATORS, AIR RECEIVERS AND AFTER COOLERS

Certificate No:- QA-CS-A-AN-11.18.049

This certification was conducted in accordance with the QA Certification Services Pvt. Ltd. auditing and certification procedures and is subject to yearly surveillance audits.

Certificate Issue Date: 18th January 2019 1st Surveillance Date: 17th January 2020
Date of Initial Registration: 18th January 2019 2nd Surveillance Date: 17th January 2021
Certificate Validity:- 3 Years Recertification Date:- 17th January 2022

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

To Check the certificate validity please Refer Web:- (www.qacertification.com)

QA Certification Services Pvt. Ltd.
Email: info@qacertification.com, www.qacertification.com

Certification of Registration

AIROX NIGEN EQUIPMENTS PVT. LTD.

OFFICE ADDRESS: 410, 4TH FLOOR, SARTHIK SQUARE, NEAR HDFC BANK, BODAKDEV, AHMEDABAD - 380 054, GUJARAT, INDIA
WORKS ADDRESS: 304-305, MAHA GUJARAT INDUSTRIAL AREA, MORAIYA-CHANGODAR, AHMEDABAD - 382 213, GUJARAT, INDIA

QA CERTIFICATION SERVICES PVT. LTD.

Certify that the environmental management system of the above organization has been audited and found to be in accordance with the requirements of standard detailed below.

ISO 14001:2015

DESIGN, MANUFACTURING AND SUPPLY OF PSA NITROGEN & OXYGEN PLANT, HYDROGEN GENERATION PLANTS, COMPRESSED AIR DRYING SYSTEMS, OXYGEN GAS ANALYSER, AIR & GAS FILTERS, SEPARATORS, AIR RECEIVERS AND AFTER COOLERS

Certificate No:- QA-CS-A-EMS-AN-0939

This certification was conducted in accordance with the QA Certification Services Pvt. Ltd. auditing and certification procedures and is subject to yearly surveillance audits.

Certificate Issue Date: 18th January 2019 1st Surveillance Date: 17th January 2020
Date of Initial Registration: 18th January 2019 2nd Surveillance Date: 17th January 2021
Certificate Validity:- 3 Years Recertification Date:- 17th January 2022

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

To Check the certificate validity please Refer Web:- (www.qacertification.com)

QA Certification Services Pvt. Ltd.
Email: info@qacertification.com, www.qacertification.com

Certification of Registration

AIROX NIGEN EQUIPMENTS PVT. LTD.

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WORKS ADDRESS: 304-305, MAHA GUJARAT INDUSTRIAL AREA, MORAIYA-CHANGODAR, AHMEDABAD - 382 213, GUJARAT, INDIA

QA CERTIFICATION SERVICES PVT. LTD.

Certify that the occupational health and safety management system of the above organization has been audited and found to be in accordance with the requirements of standard detailed below.

OHSAS 18001:2007

DESIGN, MANUFACTURING AND SUPPLY OF PSA NITROGEN & OXYGEN PLANT, HYDROGEN GENERATION PLANTS, COMPRESSED AIR DRYING SYSTEMS, OXYGEN GAS ANALYSER, AIR & GAS FILTERS, SEPARATORS, AIR RECEIVERS AND AFTER COOLERS

Certificate No:- QA-CS-A-OHSAS-AN-900

This certification was conducted in accordance with the QA Certification Services Pvt. Ltd. auditing and certification procedures and is subject to yearly surveillance audits.

Certificate Issue Date: 18th January 2019 1st Surveillance Date: 17th January 2020
Date of Initial Registration: 18th January 2019 2nd Surveillance Date: 17th January 2021
Certificate Validity:- 3 Years Recertification Date:- 17th January 2022

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

To Check the certificate validity please Refer Web:- (www.qacertification.com)

QA Certification Services Pvt. Ltd.
Email: info@qacertification.com, www.qacertification.com

CERTIFICATE

CERTIFICATE OF REGISTRATION

This is to certify that the
Medical Devices - Quality Management System
of
AIROX NIGEN EQUIPMENT PVT. LTD.

OFFICE AND WORKS: OFFICE: 410, 4TH FLOOR, SARTHIK SQ. AREA, NEAR HDFC BANK BODAKDEV, AHMEDABAD - 380054, GUJARAT, INDIA
WORKS ADDRESS: 304-305, MAHA GUJARAT INDUSTRIAL AREA, MORAIYA, CHANGODAR, AHMEDABAD - 382213, GUJARAT, INDIA

has been independently assessed and is compliant with the requirements of

ISO 13485:2016

This Certificate is applicable to the following product or service ranges:

DESIGN, MANUFACTURING AND SUPPLY OF AIROX MEDICAL VIALS, PSA OXYGEN GENERATOR, OXYWISER MEDICAL OXYGEN GENERATOR, PSA NITROGEN & OXYGEN PLANT, HYDROGEN GENERATION PLANTS, COMPRESSED AIR DRYING SYSTEM OXYGEN GAS ANALYSER, AIR & GAS FILTER, SEPARATORS, AIR RECEIVERS

Certificate No:- IN532254

Date of initial registration 23 September 2020
Date of this Certificate 22 September 2020
Surveillance audit on or before 21 September 2021
Recertification date / Certificate expiry 21 September 2023

This Certificate is valid only subject to satisfactory surveillance audits.

Emmanuel ADEMOSU
Director

STANBURY MANAGEMENT AND SYSTEM SERVICES LIMITED
LAFAYETTE BUSINESS CENTRE, 15, LAFAYETTE ROAD, WESTGATE, LONDON W14 8EP, UK
Tel: +44 (0)20 8846 1000
Email: info@stanburymgmt.com
Website: www.stanburymgmt.com
Company Registered in England and Wales with Company Number: 11088881 2020-01-01-2022-01-01

CERTIFICATE

Certificate of Compliance

Certificate Number: UQ-20200922014
This is to certify that

AIROX NIGEN EQUIPMENT PVT. LTD.

at

OFFICE ADDRESS: OFFICE 410, 4TH FLOOR, SARTHIK SQUARE, NEAR HDFC BANK, BODAKDEV, AHMEDABAD - 380054, GUJARAT, INDIA.
WORKS ADDRESS: 304-305, MAHA GUJARAT INDUSTRIAL AREA, MORAIYA, CHANGODAR, AHMEDABAD - 382213, GUJARAT, INDIA

has been assessed and found to be conforming the requirements of the

FDA

DESIGN, MANUFACTURING AND SUPPLY OF AIROX MEDICAL VIALS, PSA OXYGEN GENERATOR, OXYWISER MEDICAL OXYGEN GENERATOR, PSA NITROGEN & OXYGEN PLANT, HYDROGEN GENERATION PLANTS, COMPRESSED AIR DRYING SYSTEM OXYGEN GAS ANALYSER, AIR & GAS FILTER, SEPARATORS, AIR RECEIVERS

This certificate is issued under the following conditions:

1. The certificate holder shall ensure compliance with the requirements of current regulatory requirements.
2. The certificate holder shall ensure compliance with the requirements of the applicable standards.
3. The certificate holder shall ensure compliance with the requirements of the applicable standards.
4. The certificate holder shall ensure compliance with the requirements of the applicable standards.

Validity of this certificate can be verified at www.ukcertification.com/verify

Date of Certification 22nd September 2020
1st Surveillance Audit Due 21st September 2021
2nd Surveillance Audit Due 21st September 2022
Certificate Expiry / subject to the compliance with the system 21st September 2023

Authorised Signatory
This certificate is issued in accordance with the requirements of the applicable standards.
UKcert Certification Services Limited, 15, Lafayette Road, Westgate, London W14 8EP, UK
Tel: +44 (0)20 8846 1000
Email: info@ukcert.com
Website: www.ukcertification.com

CERTIFICATE

Certificate of Compliance

CE

We hereby certify that the holder of this Certificate is in compliance with the requirements of the applicable standards and is in compliance with the requirements of the applicable standards.

Certificate No:- CE 11880

Manufacturer: AIROX NIGEN EQUIPMENT PVT. LTD.
Address: OFFICE ADDRESS: OFFICE 410, 4TH FLOOR, SARTHIK SQUARE, NEAR HDFC BANK, BODAKDEV, AHMEDABAD - 380054, GUJARAT, INDIA.
WORKS ADDRESS: 304-305, MAHA GUJARAT INDUSTRIAL AREA, MORAIYA, CHANGODAR, AHMEDABAD - 382213, GUJARAT, INDIA.

Products: AIROX MEDICAL VIALS, PSA OXYGEN GENERATOR, OXYWISER MEDICAL OXYGEN GENERATOR, PSA NITROGEN & OXYGEN PLANT, COMPRESSED AIR DRYERS, HYDROGEN GENERATION PLANTS, GAS ANALYSER, AIR & GAS FILTER, SEPARATORS, AIR RECEIVERS

Complies with the requirements applicable to it:
The certificate holder shall ensure compliance with the requirements of the applicable standards.
This certificate is issued under the following conditions:
1. The certificate holder shall ensure compliance with the requirements of the applicable standards.
2. The certificate holder shall ensure compliance with the requirements of the applicable standards.
3. The certificate holder shall ensure compliance with the requirements of the applicable standards.
4. The certificate holder shall ensure compliance with the requirements of the applicable standards.

Validity of this certificate can be verified at www.ukcertification.com/verify

Date of Certification 22nd September 2020
1st Surveillance Audit Due 21st September 2021
2nd Surveillance Audit Due 21st September 2022
Certificate Expiry / subject to the compliance with the system 21st September 2023

Authorised Signatory
This certificate is issued in accordance with the requirements of the applicable standards.
UKcert Certification Services Limited, 15, Lafayette Road, Westgate, London W14 8EP, UK
Tel: +44 (0)20 8846 1000
Email: info@ukcert.com
Website: www.ukcertification.com

INSTALLATIONS



Government Hospital, Yadagiri



With NDRF Team, Yadagiri



Government Hospital, Channagiri

OUR ESTEEMED CLIENTS



EXCELLENTIA

Its

Keep Breathing...

Excellentia Infrastructure & Technology Solutions Private Limited

B-7 Allied House, Plot No. 5&6, Shopping Complex, Vasant Kunj, Delhi 110070.

Tel: +91 93508 59462 Email: info@excellentia-its.com, contact@excellentia-its.com

www.excellentia-its.com