

COMPANY PROFILE



STRONG & FAST GROWING

Strong and Fast Growing Since 1977

MVS has a stellar reputation built one customer at a time over 47 years. This means a lot to us and we are aware that losing face with even one customer is a very high price to pay. We go to extreme lengths to make sure that our customers remain satisfied with our products, services and after-sales support.





OUR SUCCESS FACTOR

Dedicated Team

With a strength of 200+ professionals, we are enviably positioned in our industry as one of the leaders with a strong background. Our team is motivated and passionate about what they do. We attract leading engineering talent which wishes to not only establish their careers but also grow technically.





GLOBAL PRESENCE



Global Presence

We have supplied 11,000+ Air and Gas systems that are currently in operation in more than 60 countries worldwide.

We have strong presence in India, South

Asia, Middle East, South East Asia and South America. Our proximity to Middle East, makes us the preferred partner in the oil & gas industry in countries like Saudi Arabia, UAE, Oman, Qatar, Iran, Kuwait among others.





PRODUCT LINE





























III PSA Nitrogen Generators

Pressure Swing Adsorption (PSA) generators have been in use since 1970s for delivering high purity Nitrogen. This technology is well proven and very robust. Our many plants are working since last 40 years. We have supplied around 1800 Nitrogen generators in collaboration with **CarboTech** AC GmbH.











N₂ CAPACITY Up to 3000 Nm³/hr



N₂ PURITY 95% to 99.9999%



N₂ PRESSURE
Up to 12 kg/cm²g



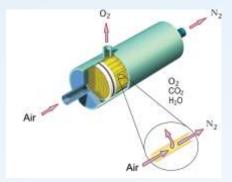
N₂ DEW POINT Up to (-) 80°C





Membrane Generators

Membrane Nitrogen Generators are the most economical and reliable way of producing medium purity Nitrogen gas in your own premises and take control of your gas supply. MVS manufactures Membrane Nitrogen generators in collaboration with **Air Liquide - USA**.









N₂ CAPACITY
Up to 5000 Nm³/hr



N₂ **PURITY** 95% to 99.999%



N₂ PRESSURE
Up to 30 kg/cm²g

Applications

- Purging & Blanketing
- Oil & Gas Industries
- Oil Refineries
- ♦ Oil Tanking
- ♦ Chemical Processing
- Food Packaging







Liquid Nitrogen

It is now possible to produce small quantities of liquid nitrogen from **10 to 2200 liters/day** in your own premises and avoid dependency on purchasing liquid nitrogen from outside vendors.

In partnership with world's most advanced cryogenic systems compnies – **Cryomech, USA & Stirling, Netherlands**, we supply compact **Liquid Nitrogen Plants** on Turnkey basis.













Liquid N₂ PRODUCTION RATE 10, 20, 40, 60, 120, 240& upto 2200 Liters/day



N₂ **PURITY** 98% to 99.999%







Industrial Oxygen Generators

Oxygen generation in your premises is now possible even at small scale from our Oxygen generators. We are India's leading oxygen generator manufacturer and have been supplying since early 1980s. The technology is well proven and reliable and this oxygen finds uses in many industries.









O₂ CAPACITY 1 Nm3/hr to 2000 Nm³/hr



O₂ PURITY Up to 95%



O₂ PRESSURE 0.5 to 25 kg/cm²g





Medical Oxygen Generators

Medical Oxygen generators have been in use in Hospitals since 1980s the world over and offer a reliable and uninterrupted supply of Oxygen. Biomedical staff no longer has to worry about constant cylinders ordering or their liquid tanks going empty. And the best part is producing oxygen in your premises, saves money in the long run.









O₂ CAPACITY 2 Nm³/hr to 250 Nm³/hr



O₂ PURITY Up to 95 %



O₂ PRESSURE 4.8 kg/cm²g



O₂ DEW POINT Of (-) 40°C





Bipolar Water Electrolysis

Bipolar Water Electrolysis Hydrogen generators are the most preferred systems for simple, reliable and clean production of Hydrogen gas in large capacity. Customer only needs to provide electric power and our systems deliver high purity, high pressure Hydrogen directly.









H₂ CAPACITY 5 Nm3/hr to 500 Nm³/hr



H₂ **PURITY** Up to 99.999%



H₂ PRESSURE
Up to 30 kg/cm²g







HYDROGEN GENERATORS

■ Nel Proton® PEM

MVS in partnership with NEL has been supplying state-of-the-art Proton PEM hydrogen generators since 2010. Proton PEM generators are safe, Reliable and easy to install and operate, all in the most compact design on the market.











 H_2 FLOW 1 Nm3/hr to 400 Nm³/hr



H₂ PURITY 99.9995 % or better



H₂ PRESSURE 15 or 30 kg/cm²g



H₂ DEW POINT As low as (-) 70°C



Air Dryer Units

MVS Engineering is one of the oldest Air dryer manufacturer in India. We deliver custom built solutions in accordance with customers requirements to produce Dry Compressed Air up to (-) 100°C Dew point.



Refrigerated Dryers



A Refrigerated air dryer is the most commonly used and low cost compressed air dryer / Gas Dryer for most applications for drying of air and other utility gases like Seal gas etc.

Heatless Dryers



2- vessels filled with desiccant are provided in our Heatless dryer. These vessels keep cycling automatically, producing Dry air continuously.

Heat Reactivated Dryers



Heat Reactivated dryers are used for very low
Dew point of (-)60°C to
(-)100°C. Molecular
sieves desiccant is used for achieving very low
Dew points.

HOC Dryers



Our HOC Dryers deliver very dry air with dew point as low as (-) 65°C. This design needs no electric power for desiccant regeneration, so negligible operating cost.



Air Dryer Unit

AMMONIA CRACKERS



Ammonia Crackers

These Hydrogen generators are low cost and commonly used in Heat Treatment Furnaces. We manufacture smaller capacity cracker units with electrical heating in capacity upto 100 Nm3/hr whereas bigger size cracker units are with Gas fired burners. Ammonia gas is the feed stock in these Hydrogen generators.



H₂ Flow Range



We design and deliver

Ammonia crackers in a wide
flow range. These are
compact systems to produce
flow rates in a single unit Up
to 1000 Nm3/hr capacity.

Cracked Gas Purity



Our custom designed systems are tailored to your gas purity requirement. Standard cracked gas mixture is in a ratio of 75% H2: 25% N2. We can modulate the cracked gas mix with varying hydrogen and nitrogen percentages as per

Hydrogen - High Purity



If the customer requires high purity Hydrogen gas, say 99%, we add a Molecular Sieve purification unit downstream of the cracker to remove Nitrogen and uncracked ammonia, to produce 99% pure H2 for Heat Treatment Furnaces.



Ammonia Cracker Unit

EXO GAS GENERATORS



III Exo Gas Generators

EXO-gas generators produce protective atmosphere for Heat Treatment furnaces. Lean Exo-gas or Rich Exo-gas is produced simply by changing air to fuel ratio in burner. To produce very dry gas, a Gas Dryer is added after Exo Gas Generator.



Burner Technology



These Gas generators are fitted with a specially designed Swirl Flame burner which gives soot free combustion and oxygen free Exo-gas even under substoichiometric conditions.

Gas Dryer



By adding a Refrigeration dryer after Gas generator, Dew point of (+) 5°C is achieved. For (-) 60°C Dew point, a Molecular Sieves dryer is provided in this Gas generator.

Multiple Fuels



MVS Exo gas generators are available to operate on various fuel like:

- Natural Gas
- LPG
- Propane/ Butane
- Hydrogen gas



Exo Gas Generator

Service & Spare Parts

For our equipment to be operate at it's high efficiency and for giving years of trouble-free service, we suggest that you get in touch with our service team to avail our expert engineering services and get genuine spare parts.



24x7 telephonic support



Our service team is available 24x7 to assist our customers. We are reachable by phone, Email and web. Our typical response is within 8-hours and mostly of complaints are attended to in less than 24 hours.

Routine Maintenance



Our machines are designed to give 10+ years of service and in most cases they actually run a lot longer than that. This is made possible by our customers maintaining the machines timely as we recommend.

Annual Maintenance Contract (AMC)



Customers looking for headache free operation of our systems can opt to give a Annual maintenance contracts. We offer several options including labour only, parts only and comprehensive parts and labour contract.



'MVS House', E-24, East of Kailash, New Delhi - 110065 (INDIA)

Phones: +91-11-49997000, Fax: +91-11-49997099

On-Site Gas Generation Solutions for Nitrogen, Oxygen & Hydrogen

Email: sales@mvsengg.com, Website: www.mvsengg.com