



summits
Enabling Innovation. Enhancing Lives.

A Global Player In Compressed Air Purification & Gas Generation



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An ISO:9001/14001/13485/45001 Company

Pushing The Boundaries Of Applied Science For Enabling Innovation and Enhancing Lives.

27+

Years of
Excellence

300+

Products and
Solutions

15,000+

Installations
Worldwide

500+

Global
Clientele

250+

Employees

At Summits, we believe in innovation and diverse engineering prioritizing a holistic approach to human values and creating a better future.

With the lifetime purpose of harvesting the elements of air through innovation, we're dedicated to **enabling industries, supporting lives, and protecting the Earth**. By doing so, we take pride in contributing to our partners' business success, fulfilling people's life-saving needs, and preserving the planet's health.

With over 27 plus years of industry experience, we stand at the forefront of **compressed air purification, gas generation, and sustainability**. Our vision is to be the driving force behind cleaner air, healthier lives, and a more sustainable planet.

Summits' diverse team is committed to innovating the future while nurturing our core values of Partner's Success, People's needs, and Planet's health.



What Makes Us the Best Choice?



Complete Range of Products

We specialize in building a whole range of products for compressed air purification and gas generation on a **standard, custom built & turnkey basis.**



In-house Production Capabilities

Built across an area 68,000 ft² area, ours is a **fully-equipped production facility.** Having an all-inclusive facility helps us deliver products with the industry's best & highest standards.



Global Clientele

Our products are up and running in many public and private sector organizations **across the India as well as in SE Asia, EU, GCC, African Countries, and the USA.**

Our Achievements Speak a Lot About Us

- ★ Installed **Refrigeration Air Dryers** with capacities above 10,000 cfm and 14,000 cfm for JSW, and NTPC, respectively.
- ★ Installed **Super Pressure Air Dryers** with 400 bar(g) pressure for DRDO, BHEL, BDL, LPSC & VSSC.
- ★ We hold the **major market share at National Thermal Power Corporation of India** for Refrigeration Air dryers in “Low-Pressure Applications” at 1.3 bar(g) for Ash handling applications.
- ★ Installed 12,000 cfm **Blower Reactivated Air Dryers** for the highly prestigious **Trisonic project** by Indian Space Research Organization as well as in **Hypersonic projects** by Defence Research and Development Organization.
- ★ Successfully installed **8,500cfm Zero Purge Desiccant Air Dryers** for Samsung Engineering and KIA Motors.
- ★ Among our most notable **Desiccant Dryer** installations are for the Oil and Gas industries such as Bharat Petroleum Corporation Ltd, Oil and Natural Gas Corporation, India Oil Corporation, Adani, and Vedanta.
- ★ Catering custom-built dryers for International clients such as PETROLEUM DEVELOPMENT OMAN, FARABI PETROCHEMICALS, ABU DHABI NATIONAL OIL COMPANY (ADNOC), PETRONAS, **BAHRAIN NATIONAL GAS COMPANY (B.S.C.) & BAPCO.**
- ★ Installed **Nitrogen Generation Plants** for highly challenging applications with **99.9997%** purity for MCF, Nokia, Danfoss, Hyundai-Mobis, and Maiva Pharma, Sunlight-Nigeria.
- ★ **Catering Compressed Air purification** products requirements of Global Compressor OE's ELGI, KAESER, ATLAS COPCO, SULLAIR, INGERSOLL RAND & KIRLOSKAR PNEUMATICS.
- ★ Providing Customized solutions for EPC & consultants including AL BHARAKA, AL TASNIM (AL TURKI), LARSEN & TOUBRO, THYSSENKRUPP, MACAWBER BEEKAY, CINDA ENGINEERING, TECHNIP.



State-of-the-art Infrastructure

Fully-equipped production facility built across an area of 68,000 ft².



Engineering Design

Dedicated Research and Development

Core strength lies in R&D. Our **product researchers, designers, and engineers** work on the **frontiers of applied science** to build **world-class solutions** for compressed air purification and gas generation.



Automated Welding Facility

Industry's Best Tools and Equipment

Our R&D lab has sophisticated tools such as **3D modeling software - Solid Edge** (in partnership with Siemens), Simulation, Analysis & CFD software, and Test rigs.



Manufacturing Facility

Stringent Quality Assurance Procedures

Starting from material inspection to in-process inspection to final product testing, we undertake comprehensive quality assurance procedures to ensure consistency in Guaranteed parameters.



Fabrication Facility



Office Space

Industrial Standard **Compressed** **Air Purification** Products

Summits designs and builds high-quality compressed air purification products that are **standard and easy to implement** in your compressed air systems.

Summits products serve a wide range of applications such as **automotive, textiles, general engineering, semi-conductors, aerospace, chemical, cement, pharmaceuticals, sugar,** and other **food and beverages** manufacturing.

| Benefits



Custom-built Compressed Air Purification Products

Summits custom-built compressed air purification products are optimized for specific applications, to increase **efficiency and effectiveness, provide flexibility, and provide a competitive advantage.**

All our custom-built solutions are implemented for unique **business needs** that cannot be met by standard products.

Benefits



Customised to specific applications



Increased efficiency & effectiveness



Cost-effective solution



Flexible & easy to integrate



High competitive advantage



Heat of compression



Hydrogen gas dryer



Blower reactivated air dryer



No-loss split flow



6 Air Receiver



Heated purge

Nitrogen Gas Generators

Summits takes a **comprehensive approach** to build nitrogen gas generators since even a minuscule impurity can affect the performance of sensitive equipment and the quality of end products.

Summits serves **a wide range of verticals** including food and beverages, semiconductors, pharmaceuticals, heat-treatment furnaces, laser cutting of metals, oil & gas and laboratory applications.

Benefits



Plug & play easy to operate



Safety and cost-effective



Consistent gas purity



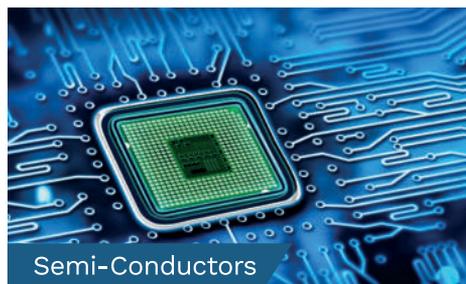
Reduced carbon footprint



Faster Return on Investment



Food and Beverages



Semi-Conductors



Pharma



Heat Treatment furnace



Laser Cutting of metals



Laboratory

Medical Air Purification & Gas Generation Products



Medical Air Dryers

Summits manufactures Medical Air Dryers that are essential to the **healthcare industry** meeting the needs for **ultra-clean medical-grade air** for **treatment in critical care** and **operating life-saving equipments and tools**.

Summits products are designed in compliance with **HTM 02-01, ISO 7396-1, and European Pharmacopoeia standards**. They meet the regulations of the **ISO 13485 quality management system**.

Benefits



Medical grade air quality



Vital role in life-saving treatments



Compliance with regulations



Reduced healthcare costs



High Reliability

Medical Oxygen Generators

Given their importance in healthcare, Summits developed **Medical-Grade Oxygen Generators tailored for various capacities in meeting the healthcare facility demands**.

Summits Medical Oxygen Generators contribute to a faster return on investment as well as serve as a reliable, safe, and cost-effective source of on-site oxygen for people who need oxygen therapy.

Benefits



Cost-effective for both low and high-volume consumption



Plug and play—no additional safety measures are required



Significant reduction in carbon footprint from transportation



Helps hospitals stay self-reliant during emergencies



Summits for a Sustainable Planet

Summits consider sustainability a holistic approach to developing and implementing technologies worldwide. Some of the most significant environmental challenges humankind faces today are GHG emissions, global warming, sea level rise, and climate change.

Summits take pride in introducing a truly unique and innovative approach to remove CO₂ emissions in an energy-efficient way using low CAPEX Swing Adsorption Technology and Green Hydrogen Generators by the most advanced PEM and AEM Electrolysers.

Carbon Capturing Systems

- Our proprietary carbon capture process uses a series of adsorption and desorption chambers to capture the CO₂
- This process can be applied on emissions from various sources, from gas, coal, cement, refineries, steel plants, waste-to-energy, process industries, bio gas up gradation and even direct air capture

- Flue gas emissions from the point source can be directly fed into our system at the same pressure and temperature, and the CO₂ gas will be captured and stored in a safe manner
- A truly plug-and-play modular design that translates to next to no human interaction

Key benefits :

- Our process is not affected by the moisture content of the flue gas
- Gaseous phase process, and hence no process water is needed
- No replenishment of corrosive solvents
- Our process has a wide working range. For example, it can work in high temperatures and low pressure

CO₂

Green Hydrogen generators

Advanced AEM and PEM Electrolysers : In both our AEM and PEM electrolysers the hydrogen is produced by passing an electric current through water. The current splits the water molecules into hydrogen and oxygen atoms. The hydrogen atoms are then collected on one side of the membrane, while the oxygen atoms are collected on the other side.

- **Purity :** Hydrogen purity up to 99.999%
- **High Efficiency :** Faradic efficiency up to 95%
- **Low Maintenance**
- **Long life span :** Up to 2550 hrs.
- **Comprehensive warranty :** 18 Months
- **Safety :** Auto shutdown under any critical situation



Transport



Train



Marine



Power

Flexibility Seasonal storage peaking plants power backup



Chemicals

Fertilizers
Plastics
Fuel refining



Road Freight



Aviation



Industries

Paper
Cement
Food

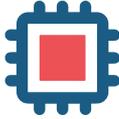


Products

Metallurgy
Glass
Appliances

H₂

Industries We Serve

 Textiles	 Healthcare	 Food and Beverages	 General Engineering	 Semi-conductors	 Energy
 Sugar	 Pharmaceuticals	 Automotive	 Steel Plants	 Oils & Gas	 Cement Plants
 Defence	 OEM	 EPC	 Chemical		

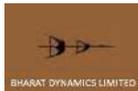
Up & Running: Worldwide Installations Since 1996

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Our Clientele

Summits Hygronics caters to a wide range of public and private sector industries across **the Globe**.

Government Sectors



GAIL (India) Limited

Healthcare



Auto Ancillaries



Original Equipment Manufacturers



Enriching Lives



THERMAX



Engineering



Automobile



Infrastructure



N2 Plants



Export



Energy



FMCG





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