



AMBICA CRYOGENIC

All Cryogenic Solution At One Point

"We specialize in Design, Testing & Supply of high-quality cryogenic gas tanks that meet the rigorous demands of industries ranging from healthcare to aerospace."



Industrial Gas | LNG | Cryo-Scientific

Who We Are

ALL CRYOGENIC SOLUTION AT ONE PLACE

The **Ambica Cryogenic**, which was established on the 1st of August, **2018**, has garnered extensive expertise in the realm of cryogenic technology. Our company specializes in the supply and on-site installation of a wide range of Cryogenic storage and Transport Equipment's and its accompanying accessories. With our wealth of experience in this field, we have assembled a highly skilled team dedicated to providing comprehensive service support, as well as handling on-site installation and commissioning processes.

3,000+
Installed
Turnkey
Projects



5+
Years of
Experience



5+
Office

Application Areas

- Aviation & Aerospace
- Construction & Cement
- Cryo scientific
- Dairy & Live stock
- Fertilizer & Chemical
- Food & Beverages
- Glass & Ceramics
- Health Care & Life Sciences
- Hydrogen
- Industrial Gas
- LNG
- Metal work
- Paper & Pulp
- Pharmaceutical
- Milling processes of rubber and elastomer
- Steel Melating & Plants

Services

CRYOGENIC TANK

CRYOGENIC TRANSPORT TANKS

MICRO BULK EQUIPMENT

TURNKEY PROJECTS

CYLINDER FILLING STATION

LIQUID MEDICAL OXYGEN SYSTEM

CRYOGENIC AMBIENT VAPORIZER

PRESSURE REDUCING SKID

CYLINDER QUAD & SKID MANIFOLD

CRYOGENIC PUMP

SPARE PART

INDUSTRIAL GASIFICATION

CRYOGENIC TANK

With our top quality Cryogenic tank service, our expertise and cutting edge technology, we offer a wide range of solutions to meet your cryogenic storage and transportation needs. Whether you are in the medical, research, or industrial field, we have the perfect solution for you.

At Ambica Cryogenic, we understand the critical importance of preserving and transporting materials at extremely low temperatures. Our Cryogenic Tank service ensures the safe handling and storage of your valuable cryogenic substances, maintaining their integrity and optimizing their performance. Our team of skilled professionals is dedicated to delivering reliable and efficient services that meet the highest industry standards.

"Cryogenic tanks: where science meets art, and the canvas is the boundless expanse of discovery."



Type	Storage Tank & Thermosiphon Tank
Design Code	ASME / EN-13458
Capacity	4 KL to 100 KL & as per customer Requirement
Working Pressure	6 Bar/17 Bar/24 Bar/34 Bar/45 Bar & as per customer Requirement
Design temp	(-) 196 DEG C TO (+) 49 DEG C
Services	LIN/LOX/LAR/LNG/LCO2 & LN2O
Insulation	MLI / PERLITE + Vacuum
Flow Rate	Std @1500NM3/hr to be designed & customized upto 30,000 Nm3/hr

CYLINDER FILLING STATION

At Ambica Cryogenic, we offer cutting-edge cryogenic cylinder filling systems designed to handle the unique challenges of cryogenic gases. Our advanced solutions are used in various industries, including healthcare, research, and manufacturing. These state-of-the-art systems are specifically designed to handle extremely low temperatures and enable the storage and distribution of liquefied gases such as nitrogen, oxygen, argon, and helium.



Safety is our utmost priority, and our systems are equipped with multiple safety features to protect both personnel and the environment. From integrated gas detection systems to automatic shutdown mechanisms, we ensure the well-being of all involved parties.

Our range of cryogenic cylinder filling systems can be tailored to meet your specific needs, whether you require a small-scale filling system for a laboratory or a high-capacity solution for industrial applications. Our team of experts is dedicated to providing personalized solutions that seamlessly integrate into your existing operations.



Description	Gas Filling System
Application	Oxygen, Nitrogen, Argon, Carbon Dioxide, Nitrous Oxide and LNG
Design Code	ASME Sec. VIII Div. 1 , EN Code
Material of Construction	SS304/SS316/BRASS and Copper
Manifold	i) 2 to 3 Points for LCO2 Service ii) 5x2/ 10x2/ 20x2/ 30x2 for LIN/ LOX/ LAR Service

Features

- Robust Construction
- Smooth Operation
- Longer Service Life
- Elevated Durability

LIQUID MEDICAL OXYGEN SYSTEM

Ambica Cryogenic specializes in the supplier of Cryogenic Liquid medical Oxygen System. Our advance cryogenic technology ensures of continuous and safe delivery of medical oxygen, helping healthcare providers save lives and provide optimal care.

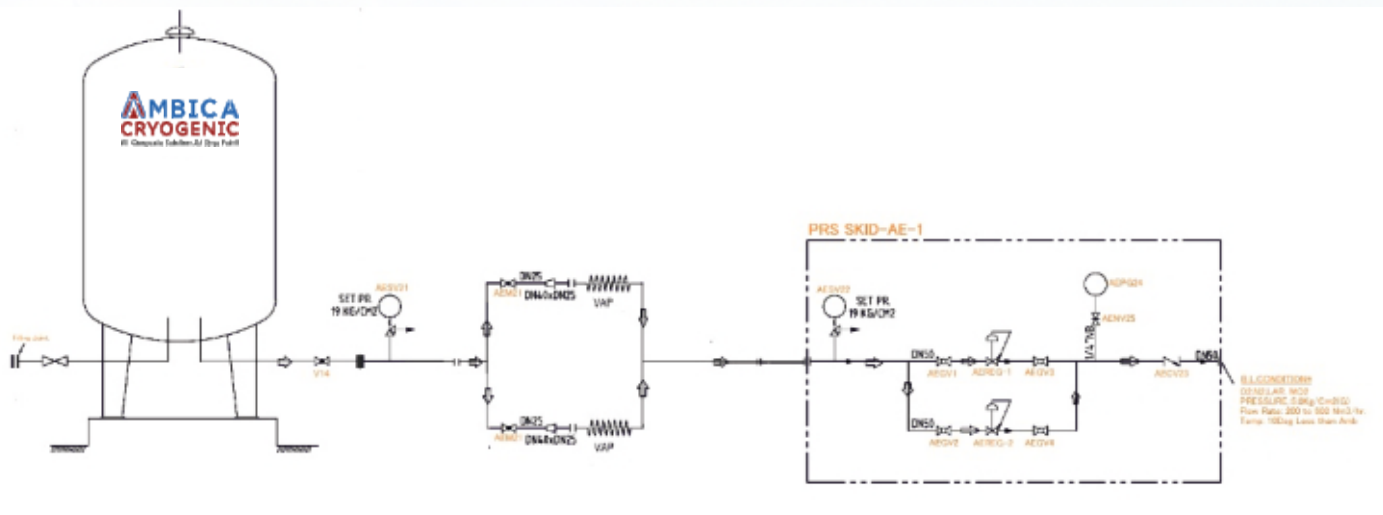
Cryogenic liquid medical oxygen has numerous advantages over other oxygen delivery methods, including its compact storage capacity, extended shelf life, and ability to provide high flow rates when needed.

Our team of highly trained professionals works tirelessly to ensure the utmost quality and safety of our cryogenic liquid medical oxygen system.



We invite you to explore our website and discover the myriad benefits of our Cryogenic Liquid Medical Oxygen Service. We are confident that our cutting-edge technology, stringent quality standards, and unwavering dedication will exceed your expectations and contribute to the enhancement of patient care in your healthcare facility. Thank you for considering our services, and we look forward to serving you with our industry-leading cryogenic solutions.

LMO Plant from 50 Beds to 2000 beds can be designed



CRYOGENIC AMBIENT VAPORIZER

Ambica Cryogenic offers a comprehensive range of vaporizers tailored to your needs for LIN, LOX, LAR, and LCO₂ services, featuring Ambient Low-Pressure, High-Pressure, and Pressure-Building Vaporizers compatible with our complete range. We specialize in supplying skid-mounted High-Pressure and Low-Pressure Vaporizers, delivering convenient and versatile solutions. Our skid-mounted vaporizers ensure reliability, efficiency, and easy installation, catering to your operational requirements. These innovative cryogenic vaporizers efficiently convert cryogenic liquids like nitrogen, argon, and oxygen into usable gases, harnessing heat transfer principles to enable their swift transition from extreme low



our vaporizers handle various cryogenic liquids, accommodating diverse flow rates and conditions, making them suitable for industrial, laboratory, and medical applications. Experience heightened productivity, cost-effectiveness, and safety benefits with our top-tier cryogenic vaporizers, designed to maintain stringent quality standards, ensuring exceptional performance, durability, and user-friendliness. Our dedicated experts are ready to assist you in selecting the right vaporizer, addressing your inquiries and concerns effectively.

Description	Unit	Value
Type	--	Low/ High/ Extra High Pressure
Model No.	CV***	50Nm ³ /Hr to 10000Nm ³ /Hr
Service	--	LIN/LOX/LAR/LCO ₂ / Ethylene
Dutty (Normal) *	hrs	8
Inlet/Design Temperature	Deg C	-196 TO 65
Outlet Temperature	--	10 Deg C Below Ambient Temperature
Heating Medium	--	Ambient Air
Maximum Operating Pressure	kg/cm ² (g)	38/200 & 400
Design Pressure	kg/cm ² (g)	40/205 & 410
Hydrostatic Test Pressure	kg/cm ² (g)	44/267 & 460
Radiography	--	SPOT
Cleaning Duty	--	OXYGEN
Design & Manufacturing Code	--	ASME SEC.VIII, DIV.1
Material of Cunstructoin	--	Aluminium/ SS304

MICRO BULK EQUIPMENT

Micro Bulk Equipment refers to a system designed to store, transport, and dispense cryogenic gases in bulk quantities, while offering convenience, safety, and cost-effectiveness. This innovative solution bridges the gap between traditional cylinder packs and large bulk storage systems. It is ideal for customers who require a higher gas supply volume than standard cylinders but do not need the capacity of a large bulk tank.

Benefits of Services

At Ambica Cryogenic, we are committed to delivering innovative solutions that meet the diverse needs of our customers in various industries. We understand the importance of efficient and reliable cryogenic equipment in your

operations, which is why we are proud to introduce our Micro Bulk Equipment service. With our cutting-edge technology and expertise in cryogenics, we aim to revolutionize the way you store and distribute cryogenic fluids.

Advantages of Microbulk Equipment

- Portability
- Space-saving
- Simplified installation
- Versatility
- Enhanced safety



01KL CRYOGENIC STORAGE TANK

"Micro-bulk equipment: where efficiency meets versatility, providing the perfect balance between bulk and precision."

Embrace the future of cryogenic fluid management with Ambica Cryogenic's Micro Bulk Equipment service. Experience the advantages of space-saving design, enhanced efficiency, flexibility, cost-effectiveness, and safety. Our team is ready to assist you in integrating our advanced equipment into your operations, empowering you to achieve optimal performance and productivity.

Description of Tank

Design Code	ASME SEC.VIII, DIV/ EN 13458-20
Capacity	01KL/03KL/05KL
Working Pressure	17 Bar/24 Bar & 34Bar
Design temp	(-) 196 Deg C to +1 50 Deg C
Services	LIN/LOX/LAR
Insulation	Perlite+ Vacuum
Flow Rate	50 to 500 Nm3/hr

03KL CRYOGENIC STORAGE TANK



05KL CRYOGENIC STORAGE TANK



CRYOGENIC TRANSPORT TANKS

Introducing Cryogenic Transport Tanks: The Ultimate Solution for Safe and Reliable Gas Transportation

At Ambica Cryogenic, we understand the critical importance of maintaining the integrity and safety of cryogenic gases during transportation. That's why we are proud to offer our top-of-the-line Cryogenic Transport Tanks service. With our cutting-edge technology and industry expertise, we ensure the secure transportation of your valuable cryogenic substances.



Our Cryogenic Transport Tanks are designed to meet the highest standards of safety and reliability. We prioritize the preservation of your valuable gases, whether they are liquefied natural gas (LNG), liquid oxygen (LOX), liquid nitrogen (LN2), or any other cryogenic substance. Our tanks are constructed using state-of-the-art materials and advanced engineering techniques, ensuring

maximum durability and protection against external influences. We adhere to stringent industry regulations and standards to guarantee the utmost safety and compliance. Our Cryogenic Transport Tanks are meticulously tested and certified to meet international codes and standards, including those set by organizations such as the International Organization for Standardization (ISO), the European Pressure Equipment Directive (PED), and the American Society of Mechanical Engineers (ASME).

Design Code	ASME
Capacity	11 KL/16 KL/20 KL
Working Pressure	17 bar
Design temp	(-) 196 Deg C to (+) 50 Deg C
Services	LIN/LOX/LAR
Insulation	Insulation MLI + Vacuum



CYLINDERS



High Pressure Cylinders: i) B type 10.2 liter ii) D type 46.7 liter for LIN/ LOX/ LAR/ LCO2 Service

SPARE PART



All make LG & PG



All make Niddle Valve



All make Cryo Pressure Regulator for all product



SS & Ceramic Flange Gaskets



Vacuum meter with gauge tube



All make LSGV & BALL VALVE



Flow Divertor Valve and Assembly



Short Stam Dura / LC valve



SS corrugated Hose Pipe



Low and High Level alarm system



All make SRV & TRV



Ferrule Connection



Valve sheet



Cutting Gas Regulator



Gas Pressure Regulator for Skid



3 Way Manifold

OUR VALUABLE CLIENTS



AMBICA^e CRYOGENIC

All Cryogenic Solution At One Point

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Cryo vessels, vaporizers, Medical Surgical items
LMO & CFS system, High Pressure Cylinders, N2 Dewar