

Cooling the world...

# GLOBAL REFRIGERATION & EQUIPMENTS

(An ISO 9001:2008 Certified Company)



A Products By Ankur Narula

## ECO-Friendly Chillers

Global CFC- free Chillers are Designed keeping in mind the user's point-of-view and the same quality policy because of which Global has reached its present status of being the premier organization for process chillers in India -strating humbly about a decade and half ago. Now , instead of the least choice available otherwise, you have a complete range of CFC- Free Chillers to chose from - for your unique requirements of process cooling - from 2TR to 150TR.

These Chillers - with higher COP - are so rugged yet the features of these machines are so premium that these could be bench marks of standards for manufacturing, all over the world. Some of these special features are as follows;

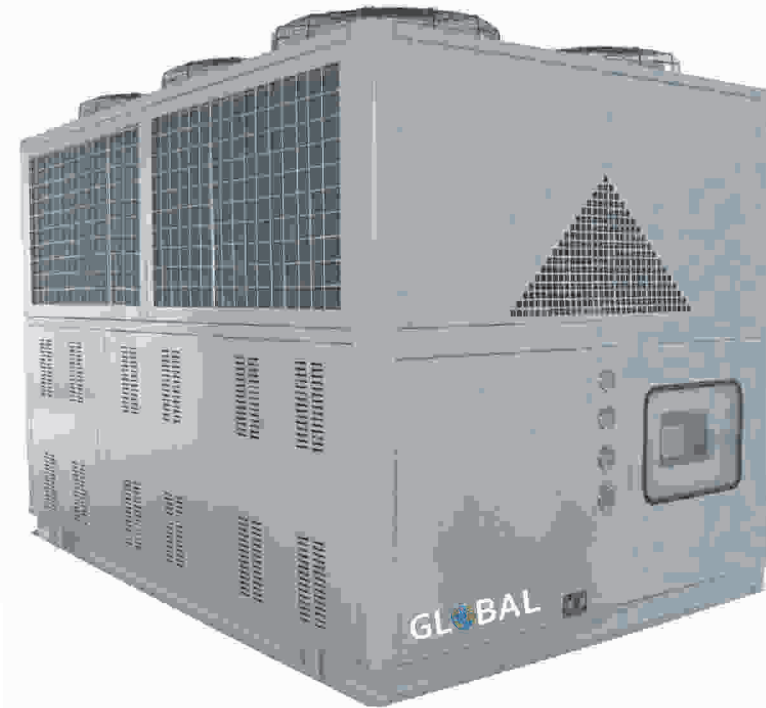
- » Fully automatic, PLC based system with touch screen panel for precise, efficient and user-friendly operation
- » Remotely operable .Connectivity to customer network through SCADA.
- » Electronic expansion valve for precise superheating and improved power efficiency.
- » Totally factory assembled - Including pumps, tanks etc. - with fully operational demonstration, including efficiency tests , at our works.
- » Fully Weather proof with Spray Galvanized structure - can be kept in open air, without any roofing, under shower or within dusty surroundings- with IP55 level protection.
- » Fit for most re-circulating fluids, however corrosive, viscous or flammable. Total wetted parts including pumps, tanks piping etc. made out of SS-304, SS-316(L), Cupro - Nickel etc.
- » Designed to operate effectively upto 50° C ambient and 99% RH.  
And most of the above features are, also, available with our regular machines. To put it simply , these machines are beyond comparison



## Screw Chillers

Screw Chillers are very well known worldwide as 'nothing-happens-to-them' machines. The expertise and experience required to handle these Chillers, availability of the critical components indigenously, applications of these Chillers and the like are the issues being the least answered so far by the other manufacturers.

Global, clearly understanding all these issues, manufactures a range of these Chillers form 50TR to 250TR - with both Dx and Flooded Evaporators - to achieve higher COP - having a dedicated team of professionals which exclusively looks after these machines - from the designing to fabrication and testing to the commissioning and after-sales-service - so that these superior machines get the attention what they deserve.



## Special Machines - built to your need

We, by now, have been through numerous experiences as to how one Chiller can be different from the other, knowing that the applications of process cooling are varied and providing a standard systems for all the processes may not be possible or may be compromising on the basic need and the purpose for which these Chillers are to be installed.

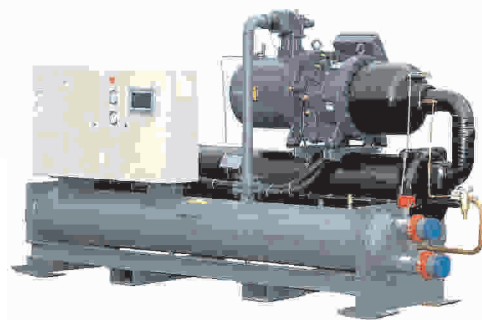
The application of Chillers in the plastics, chemicals, pharmaceuticals, gas liquification, oil cooling, concrete bathing and the like are so unique that a Chiller best suited for one application may not even work at the other.

It is where the expertise and experience of the Chiller manufacturer will count as to whether it has had any machines commissioned for the specific process or has been manufacturing for standard applications only.

This experience one gains by working on many similar projects repeatedly - perfection by practice - and Global has an upper hand here being dedicated to process cooling needs - all of them - from (+)30°C to (-)50°C.

As our total focus has been over one range of products only, we have learnt and almost perfected over varied process cooling applications, by listening to the customers, observing the details of different projects carefully, being aware of the available resources world-over and then conceptualising and providing the most suitable, tailor-made solutions.

All this is also helped by being capable and courageous to take initiatives at the proper times to produce the machines which are the latest, the most efficient and most importantly relevant and closest to what was desired. We are and we do.



## Water Cooled

Capacity	5 TR to 450 TR , stand-alone
Temperature	(+) 30°C to (-) 50°C
Flow Rate	50 lpm to 8,000 lpm
Fluid pressure	1.5 bar to 8.5 bar
Temp. Gradient	upto 60°C
Max. Ambient	(+) 50°C
Max RH	99%

## Air Cooled

Total Range	
Capacity	2 TR to 300 TR , stand-alone
Temperature	(+) 30°C to (-) 40°C
Flow Rate	20 lpm to 5,000 lpm
Fluid pressure	1.5 bar to 8.5 bar
Temp. Gradient	upto 50°C
Max. Ambient	(+) 50°C
Max RH	99%



## Exports

We are exporting our machines to more than 20 countries - some of them regularly - viz. Turkey, Pakistan, Saudi Arabia, Thailand, Bangladesh, Sri Lanka, Nepal etc. We shall soon start exporting our Chillers to Europe and America. We are targeting to export 20% of our production, by 2013-14.

## Projects

We, also, undertake few chosen projects, in process cooling, on turnkey basis. We have dealt with many such projects - for varied process cooling applications - valuing upto Rs. 1.5 crore/300,000 USD.

## REFRIGERATION UNIT CARBON DIOXIDE REFRIGERATION SYSTEM

We excel in designing , manufacturing and distributing CO<sub>2</sub>refrigeration units to a large number of industrial establishments.

- » Our unit are specially built with standardized raw materials and are quality tested by our professionals at various stages of production to infuse high performance into them.
- » Our compact and efficient CO refrigeration units can be put into a number of industrial applications and processes.
- » For providing best services to our customers we make custom made units as per the technical needs and specifications of our customers to give them full satisfaction.
- » Our units are designed for maintaining internal pressure of CO<sub>2</sub> storage and mobile tanks 22.5kg/cm<sup>2</sup>g to 17.5kg/cm<sup>2</sup>g.
- » Our units are fully automatic machines and work on DANFOSS sealed compressor which is suitable for minus temperature.
- » Our machines work on R-404A gas. The capacity of our units is suitable for 5 kl to 200 kl tanks



## Refrigeration Unit Suitable For Air Separation Plant

We excel in designing , manufacturing and distributing Air, GAS & OIL CHILLING PLANTS to a large number of industrial establishments

- » Our unit are specially built with standardized raw materials and are quality tested by our professionals at various stages of production to infuse high performance into them.
- » Our compact and efficient unit can be put into a number of industrial applications and processes.
- » For providing best services to our customers we make custom made unit as per the technical needs and specifications of are customers to give them full satisfaction.

Moreover choosing our air chillers over the outdated water chillers proves to be very advantageous as:-

- » Your power consumption will be reduced by more than 50 to 60 % and this is proven.
- » Air chillers are more efficient than water chillers.
- » Water chillers are very bulky and require a lot of space for installation whereas air chillers are light and require only 50% space as compared to water chillers.
- » Our air chillers have a very attractive outlook.
- » Our air chillers are cheaper than the water chillers.
- » Also our air Chillers require cheap and less maintenance over water chillers.

Our air chillers require the following installed load in different capacity of air separation plants

Type	Installed load
125m <sup>3</sup> O, N, air separation plant	3 T.R.
225m <sup>3</sup> to 300m <sup>3</sup> O, N, air separation plant	5 T.R.
400m <sup>3</sup> O, N, air separation plant	7.5 T.R.
600m <sup>3</sup> O, N, air separation plant	10.0 T.R.

We also make unit for air separation plants above the capacity of 600m<sup>3</sup>



## Liquid Carbon Di-Oxide Tanks

We have emerged as a world-recognized organization involved in manufacturing and supplying a commendable range of CO<sub>2</sub> Storage System. This system is engineered by our professionals in order to make valuable for storage of Carbon Die-oxide gases. It is suitable for storing gases at lowest temperature of -20 degree centigrade and pressure of 20g/cm<sup>2</sup>g. Offered product is highly demanded in the market for its quality, operation efficiency and prolonged service life.

**It is offered to the clients with below enlisted features:**

- » Storage capacity: 1MT to 100MT
- » Study construction
- » Cost effective



### Specifications:

- » Pressure reducing stations with by pass line. PRV is able to deliver constant pressure in downstream side irrespective of change of pressure of upstream side.
- » Pressure gauge and pressure switch has been provided for auto control of tank pressure by operation of CO<sub>2</sub> cooling unit.
- » Differential pressure liquid level indicator indicates the level of mmWC column. A corresponding chart is supplied with each system to determine the tentative quantity of liquid in Kgs. (Optional).
- » Load cell weighing system to determine the tentative quantity of liquid in Kgs (Optional).
- » D.P type gas flow rate indicator cum totalizer can also be provided on tank outlet line for counting the gas quantity(Optional).
- » Temperature indicator indicates liquid temperature and pressurising circuit maintains tank pressure (Optional).
- » Cooling unit control panel operates when pressure exceeds above set - range to restrict the vapour loss. This has electric control circuit and other instruments as per the requirement to make it automatically operational.
- » Two nos. of safety valves are provided each having sufficient discharge capacity to discharge the gas during excessive pressure accumulation
- » Two nos. of isolation valves provided for periodic inspection and testing of

safety valves.

- » Vaporizer to maintain constant CO<sub>2</sub> vapour during process consumption of gas in Plant.
- » 200th K PUF Insulation provided with aluminium sheet barrier.
- » The entire system is sturdy, compact with easy access and maintenance of components.



## Liquid Pumps

We are recognized as leading manufacturer, supplier and exporter of a wide assortment of Liquid Reciprocating Pump. These liquid reciprocating pumps are designed and engineered using premium quality raw material and as per international quality standards. Offered range of liquid reciprocating pumps can be availed from us at market leading price.

### Product Description:

- » High pressure cylinder filling pump is used for filling liquefying gases into the cylinders. Mainly these gases are Argon / Nitrogen / Oxygen and Carbon Di-Oxide.
- » These are manufactured very strict standards of quality and workmanship . For performance and safety , individual pump is tested in our work place before sending to customer.
- » Pump consist of vacuum jacketed cold end and drive assembly , electric motor with belt drive and guard , Galvanised steel skid , pressure gauge with pressure with safety valve and vent line with low pressure relief valve.

### Features:

- » Vacuum jacketed cold end helps minimize heat leak and reduce product loss
- » Grease lubricated , sealed for life bearings for long operations
- » Split drive end housing for easy maintenance access
- » intermediate purge connection allows for extended packing life
- » Positive locking drive coupling for improved safety operation



## Vaporizers

Aiming at maximum level of client-satisfaction, we have been involved in manufacturing, supplying and exporting an exemplary array of Cryogenic Ambient Vaporizer. We are enriched with diligent manpower which helped us to manufacture these product as per the demands of various industries. In our world class manufacturing facility, this product fabricated with top-grade stainless steel and other raw material. Offered product is suitable for industrial applications and demanded in the major markets across the world.



### Salient features:

- » High strength
- » Corrosion resistance
- » Quality assured

We manufacture two type of vaporizers:

Medium & low pressure Vaporizers : Maximum allowable working pressure up to 40kg/cm<sup>2</sup>g or medium and low pressure Vaporizers High pressure Vaporizers : Maximum allowable working pressure 300kg/cm<sup>2</sup>g used for cylinders filling for Argon / nitrogen and for Oxygen

### Standard Features:

- » All models are design as per ASME section VIII- Div-I with latest edition
- » Suitable for wind load up to 160km/hr seismic requirement up to Zone-V
- » Sustainable to server thermal cycling and ice loads High thermal efficiency and advanced Integrated design single unit up to 5000sm<sup>3</sup>/hr
- » Suitable models are available with low pressure drops and larger fluid area to provide high capacity performance fast defrosting

## Compulsory Message For Our Industry As Per CCOE

Since last Few Years have shown all of us about the danger of human life by using non tested cylinders. Not only it leads to destruction of life and property but also harms the goodwill of the company which is built through years of hardship.

Thus in today's time it is a mandatory requirement for testing each & every cylinder before filling it.

Moreover due to the rising prices it is not economical to get the cylinders tested from outside as it requires huge transportation cost with the strenuous job of loading and unloading the cylinders.

Therefore the cheaper and more economical option available is to have your own cylinder testing workshop.



## Therefore no losses just profits

Now the question that must have come in your mind must be **"Where to find the BEST SAFE AFFORDABLE cylinder Testing workshop"**

Don't worry your search has just come to an end!!!

We at global work towards catering to all the needs of our customers.

We provide world class cylinder testing equipment with full guarantee and **LIFETIME** after sale services and spares.

### "Your satisfaction is our motto"

Our after sale services and the best quality equipment make us stand above our competitors. We also make custom made test shop that fits your requirement.

Therefore no worries of making space for the testshop rather the testshop makes space for itself.

Our very user- friendly and long lasting world class quality features make it easy to use and can be used by all only one skilled labour is required as per the explosive norms



## Advantage Of Test Shop

There are many advantage of having a test shop at your own filling station :-

- » It is safe, secure and cheap
- » No transportation cost involved.
- » Any time any day testing
- » Production does not suffer.
- » You can earn too by testing cylinders for others.
- » One skilled labour required.

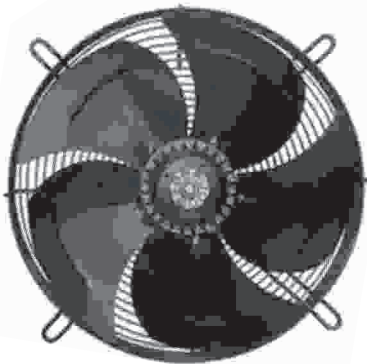
## Accessories



Safety Valve



Pressure Reducing Valve



Axial Fan



Ball Valves

## Our Esteemed Client

RELIANCE



Bisleri

Superior

Bhartiya

Vehicles & Engineering Co. Ltd

Coca-Cola

PRAXAIR  
Making our planet more productive



CREATIVE OZ-AIR (I) PVT. LTD.



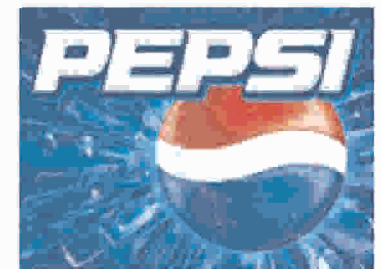
INDIA GLYCOLS LIMITED



JUBILANT  
LIFESCIENCES



OMEGA



## Global Corporate Mission

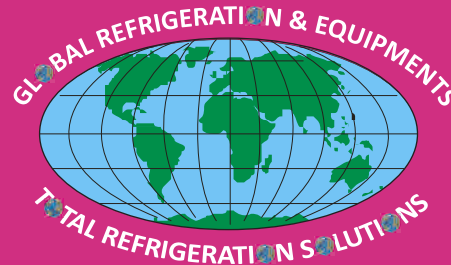
GLOBAL mission is to grow our company by providing innovative, strong and high performance products and solutions to meet our global customer's needs.

We will support our world class products by providing superior customer care.

Our care extends to the environment and the community. We want to help build a better future for our children, where hard work and dedication are given their just reward.

### Members of

- All India Industrial Gases Manufacturers Association **(AIIGMA)**
- Indian Society of Heating Refrigerating and Air Conditioning Engineers ... **(ISHRAE)**
- All India Air Conditioning & Refrigeration Association **(AIACRA)**



Cooling the world...

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