

THE COMPANY

Mount Engineers & Refrigeration is an engineering company specialized in design and manufacturing of mechanical plants & equipment. Mount Engineers & Refrigeration was founded in 2014 and during these year the company has the established a position as the leader in field of Refrigeration system & Cryogenic Equipments.

OUR PRODUCTS

- Industrial Process Chillers
- Screw & Scroll Chillers
- Chilling Plants
- Cooling Towers
- Cold Rooms
- Refrigerated Air Dryer
- Heat Exchanger
- Co2 Storage Tanks
- Condensing Unit
- Cryogenic Pumps
- Cylinder Testing Lab
- Cryogenic Tanks
- Manifold & Pipeline Works
- Industrial Gas & Chemicals
- Cryo & Refrigeration Spares



MOUNT ENGINEERS & REFRIGERATION

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ECO-Friendly Chillers

Mount Engineers CFC-free Chillers are designed keeping in mind the user's point-of-view and the same quality policy because of which MOUNT has reached its present status of being the premier organization for process chillers in INDIA-starting 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 choose from-for your unique requirement 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 benchmarks of standards for manufacturing, all over the world. Some of these special features are as follows.

- Electronic expansion valve for precise superheating and improved power efficiency.
- Total 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 like are the issues being the least answered so far by the other manufacturers.

MOUNT ENGINEERS, clearly understanding all these issues, manufacture a range of these Chillers from 50 TR to 250 TR-with both Dx and Flooded Evaporators-to achieve higher COP-having a dedicated team of professionals which exclusively 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.



Water Cooled

Capacity 3TR-400TR Stand-alone
 Temperature (+)30°C to (-)50°C
 Flow Rate 30 lpm to 8000 lpm
 Fluid Pressure 1.5 bar to 8.5 bar
 Temp.Gradient up to 60°C
 Max Ambient (+)50°C
 Max RH 99%

Air Cooled

Capacity 1/2TR to 300TR
 Temperature (+)30°C to (-)40°C, stand-alone
 Flow Rate 05 lpm to 5000 lpm
 Fluid Pressure 1.5 bar to 8.5 bar
 Temp. Gradient up to 50°C
 Max. Ambient (+)50°C
 Max RH 99%



TECHNICAL SPECIFICATIONS

Model	Capacity TR	Heat Load		Ref. Compressor		Flow LPM	Cooling Type		Water Tank
		Kcal/Hr	kW	Qty	Type		Air	Water	
ME01	1	3000	3.52	1	Hermetic	10	*	*	30
ME02	2	6000	7.03	1	Hermetic	20	*	*	40
ME03	3	9000	10.55	1	Hermetic	30	*	*	60
ME05	5	15000	17.58	1	Hermetic	50	*	*	150
ME10	10	30000	35.17	1	Scroll	100	*	*	400
ME15	15	45000	52.75	1	Scroll	150	*	*	500
ME20	20	60000	70.34	2	Scroll	200	*	*	500
ME30	30	90000	105.51	2	Scroll	300	*	*	EXTERNAL 1000LTR
ME40	40	120000	140.67	2	Scroll / Screw	400	*	*	
ME50	50	150000	175.84	2	Scroll / Screw	500	*	*	
ME60	60	180000	211.01	2	Scroll / Screw	600	*	*	EXTERNAL 2000LTR
ME80	80	240000	281.35	2	Screw	800	*	*	
ME100	100	300000	351.69	2	Screw	1000	*	*	
ME120	120	360000	422.02	2	Screw	1200	*	*	

Conditions:

Evaporating Temp: 5°C, Condensing Temp: 45°C

Water Inlet Temp: 15°C, Water Outlet Temp: 10°C

MOUNT

REFRIGERATION UNIT CARBON DIOXIDE REFRIGERATION SYSTEM

We excel in designing, manufacturing and distributing Co2 refrigeration units to a large number of industrial establishments.

- ★ Our units are specially built with standardized and are quality tested by our professionals at various stages of production to infuse high performance into them.
- ★ Our compact and efficient Co2 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 Co2 storage and mobile tanks 22.5kg/cm to 17.5kg/cm g.
- ★ Our units are fully automatic machine 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 5KL to 50KL tanks.



COOLING TOWER

We are the leading cooling tower manufacturer in India. Over the years, we have gained a good reputation in the market in terms of water cooling tower manufacturer. These are low noise cooling towers.

This cooling tower with forced draft can be integrated into the cooling water circuit. Evaporation loss is compensated automatically. Temperature, atmospheric humidity and water flow rate are measured at the inlet and outlet of the cooling tower. The tower is designed using corrosion-resistant materials suitable for outdoor use. It is also equipped with a roof to protect it from the rain. The cooling tower is connected to the electrical system and water system. These cooling towers are highly demanded and appreciated by our customers for its outstanding cooling functionality and effectiveness for various applications. Our FXV cooling towers are designed to provide oxidation resistant and high strength functionality which are very cost competent and energy efficient. These towers can be availed from us at a competitive range of prices.

Assisted by our team of professional experts, we are involved in offering an extensive gamut of FRP cooling towers. This tower is induced draft-rotary sprinkler type with aluminum casting fan, FRP body with suitable electric motor for maintaining. The circulating water temperature between the hot well and cold well for optimum undergoes numerous tests to ensure its quality.

APPLICATIONS :

Chillers
Air Conditioning Plant
D/G Set / Turbines
Injection Molding / Plastic Industries
Induction Furnaces / Steel Plant
Automobile Plants
Chemical And Petrochemical Industry
Paper Mill / Sugar Mill
Refinery And Fertilizer Industry

TECHNICAL DATA REQUIRED FOR SELECTION OF COOLING TOWER :

- 1- Rate of water circulation
- 2- Hot water temperature In
- 3- Cold water temperature out
- 4- Ambient wet bulb temperature
- 5- Information in brief about site condition and water quality



TECHNICAL SPECIFICATIONS

Model	Capacity	Length MM	Width MM	Height MM	Fan Dia MM	Operating Weight Kg	Pump Head MM	Motor HP/RPM
ME10CT	10TR	750	750	2050	450	200	1800	1/960
ME15CT	15TR	900	900	2100	700	275	2000	1/960
ME20CT	20TR	1050	1050	2200	750	360	2000	2/1400
ME40CT	40TR	1200	1200	2300	900	650	2400	2/960
ME50CT	50TR	1500	1500	2550	1200	850	2900	2/960
ME60CT	60TR	1800	1800	2600	1350	1000	3100	3/960
ME80CT	80TR	1800	1800	2600	1350	1200	3100	5/960
ME100CT	100TR	2100	2100	2650	1450	1600	3300	5/960
ME125CT	125TR	2400	2400	2650	1500	2050	3300	5/960
ME150CT	150TR	2400	2400	2650	1500	2150	3300	7.5/960
ME175CT	175TR	2700	2700	2850	1500	2300	3400	7.5/960
ME200CT	200TR	3000	3000	2850	1800	3000	3500	10/960
ME250CT	250TR	3000	3600	2850	1500x2	4000	3500	5/960 x 2
ME300CT	300TR	3600	3600	2900	1800	4400	4300	10/960
ME400CT	400TR	3000	6000	2900	1800x2	5000	4500	10/960 x 2

Cold Storage

Mount has rich experience in design, manufacture, install and commission turnkey farm to plate projects for Agri, Dairy, Food Processing, Marine, Ready to Eat and Cold Chain projects. Have in house design, manufacture, installation and after sales team to support such activities. Has over 300 employees and is proud to have over 6000 corporate customers in various segments.

Mount offers customization in Cold Solutions & Construction solutions product lines covering the needs of “cold chain” and “clean & energy efficient” lightweight construction.

In the cold solutions vertical, the company offers products right from farm to plate in cooling solutions; viz harvest level pre coolers, ripening chambers, CA chambers, pack house, process refrigeration, cold ware houses, distribution & cold dispensing at retail for the following user segments; Agro, Hospitality, Pharma, Dairy, Food processing, Food service, Food & Retail.

In the construction solutions vertical, the company offers products right from concept to commissioning for the following user segments; Pharma, Food Processing, Automobile, Textile, Telecom, Engineering & Retail.

The products in the verticals can be broadly categorized as below



Cold Solutions

- Modular cold rooms
- Chilled & Frozen store warehouses
- Pre-cooler for agro products
- Fruit Ripening chamber
- Process cooling & chilling systems
- Individual Quick Freezers
- Blast Freezers, Blast Chillers, Plate freezers
- Ice flake, Tube Ice & Block Ice Mc
- Controlled Atmosphere & MA Chambers



Construction Solutions

- Clean room panels, doors
- Food zone clean envelopes
- Walk on ceilings
- Sandwich panel roofing & walling
- Rack Assisted Storage
- Mezzanine Assisted Storage
- ASRS & Mobile Racking
- Pre engineered buildings
- Light weight Structure
- Kiosks, tele shelters



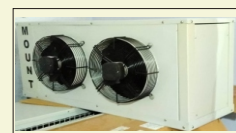
Maintenance and Service:

A dedicated team called “TEAM MOUNT” led by qualified, experienced service personnel is MOUNT’s distinctive strength. Several prominent companies from diverse industries vouch for MOUNT’s quality standards and service excellence.

Certifications / Credentials

MOUNT is certified:

ISO 9001:2015 - Certificate Number : 305020070205Q dt 02 July 2020



CONDENSING UNIT

Open base units with Copeland ZB & ZF scroll compressors from 2.0 to 15.0 hp. for small/medium/large cool rooms and freezer rooms utilizing refrigerants R404A, R134a and R22. Vast range of fitted accessory options to enable the installer to customize to suit the project. Unit covers also available. All Patton scroll condensing units are factory supplied with "Patton Coat" condenser coil and fin protection.

R404A - Med temp

R404A - Low temp

RI34a - Med temp

R22 - Med Temp



Application:

Mount Scroll condensing units are capable of addressing your refrigeration needs, starting from 2.0 hp. The units are based on dependable Copeland ZB & ZF scroll compressors and are built to provide durability, high performance and low sound level. Suited to a variety of cooling applications Patton Scroll condensing units are predominantly used on commercial cool rooms and freezers, water chillers, ice makers, display cases etc.

REFRIGERATED AIR DRIER

A refrigerated air dryer is a type of compressed air dryer, used to dry compressed air. Compressed air always contains water, coming from the air that is sucked in by the compressor. To protect your piping, tools and equipment, it's best to use a compressed air dryer to dry the air.

An ideal solution for clean and compressed dry air is provided by Mount, one of the experts among the refrigerant air dryer manufacturers. Extensive design strategies and prototype testing culminates in Mount's amazing products that offer a constant dew point of +3 degree Celsius. Also, the Mount offers a very low running cost unlike the other air dryers. Some exclusive features of these products are:-



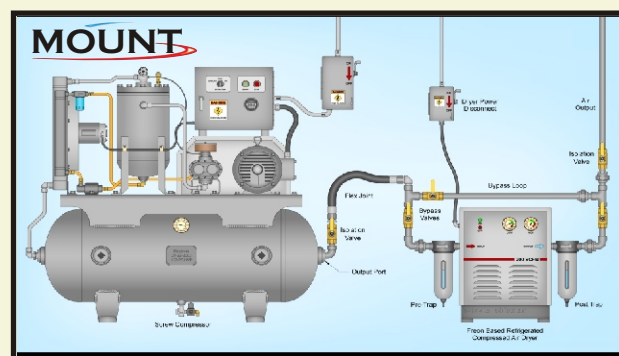
The cold dry compressed air passes back through the secondary side of the Air to Air heat exchanger where it is reheated by the incoming warm air. Reheating the outgoing compressed air increases the volume of the air enabling it to do more work and it also prevents downstream pipe sweating. Trident heat exchanger has no extended surfaces or sharp corners that collect dust, dirt or oil residue. Their self cleaning smooth surface tube in shell and tube design will maintain the same heat transfer efficiency through out the dryer's life. Any dust, dirt or oil will be washed off from the air system along with the condensed moisture at the De-mister.



- ✱ Maintaining of a consistent pressure dew point.
- ✱ Control of the condensing temperature for atmospheric variations in temperature.
- ✱ The safety of compressor provided by the HP cut switch.
- ✱ The advanced mimic display that indicates the functions and faults if any.
- ✱ The provision of Trident automatic drain valve in Demister and Heat exchangers for efficient dryer functioning.

TECHNICAL SPECIFICATIONS

Model	Flow cfm	Power KW	Refrigerant	END Con.	Dimension (mm)H W D			Weight Kg. (Apx.)
ME-10	10	0.36	R134a	1/2" BSP	490	405	520	47
ME-20	20	0.36	R134a	1/2" BSP	490	405	520	55
ME-40	40	0.36	R134a	1/2" BSP	490	405	520	55
ME-60	60	0.53	R134a/R-22	1" BSP	670	510	630	85
ME-80	80	0.80	R134a/R-22	1" BSP	670	510	630	90
ME-100	100	0.85	R134a/R-22	1" BSP	670	510	630	90
ME-150	150	1.10	R134a/R-22	1" BSP	670	510	630	115
ME-200	200	1.44	R134a/R-22	1 1/2" BSP	820	610	770	135
ME-250	250	1.44	R134a/R-22	1 1/2" BSP	820	610	770	135
ME-300	300	2.20	R134a/R-22	2" BSP	980	760	910	250



CRYOGENIC STORAGE TANKS

Liquefied gases are used in a wide range of applications, including metal processing, medical technology, electronics, water treatment, energy generation and the food industry. Today, more and more of these industrial gases are being delivered to customers in liquid form at cryogenic temperatures, enabling them to be stored on site for later use.

- ★ The tanks range in capacity from 3,000 to > 100,000 litres and come with standardised working pressures of 18, 22, or 36 bar respectively.
- ★ Our tanks can be used for a wide range of applications. They are standardised to ensure smooth distribution logistics and cost-efficient series production and also comply with the European Pressure Equipment Directive (PED) or ASME VIII, Div. 1. LITS tanks (Leading International Tank Standard).
- ★ Each tank is vacuum-insulated and can be delivered as a vertical or horizontal installation. The inner vessels and piping are made of stainless steel to ensure high-grade cleanliness – particularly important for the food and electronics industry. The outside shell is specially coated and a vacuum-perlite system with a molecular sieve adsorbent is applied to ensure outstanding insulation.



ATMOSPHERIC VAPORIZER

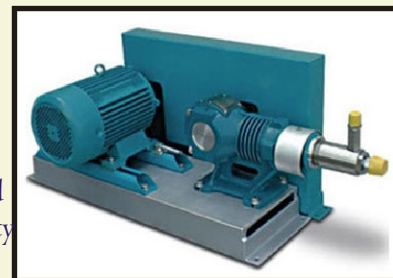
Providing you the best range of cryogenic ambient vaporizer, air ambient vaporizer and atmospheric vaporizer with effective & timely delivery.

Catering to the demands of various industries, we are offering Atmospheric Vaporizer to the clients. We deal Atmospheric Vaporizers for the Liquefied Industrial Gases viz. Liquid Oxygen, Liquid Nitrogen, Liquid Argon and Liquid Carbon Di-oxide (CO₂). Atmospheric or Ambient air vaporizers use the relative heat (energy) of the atmosphere to for the vaporization of the liquid gases. These vaporizers are the most cost effective as it does not need any electricity to vaporize liquid cryogenics.



SPECIFICATIONS:

Design	: Standard, Customized
Brand	: ME
Type	: Vaporizer
Usage	: Vaporization
Design Temperature	: (-)196 deg C
Body Material	: Aluminium



RECIPROCATING PUMP

We are recognized as leading supplier and exporter of a wide assortment of Liquid Cryogenic Pump. These liquid pumps are designed and engineered using premium quality raw material and as per international quality standard.

Offered range of liquid pumps can be availed from us at market leading price.

TECHNICAL SPECIFICATION

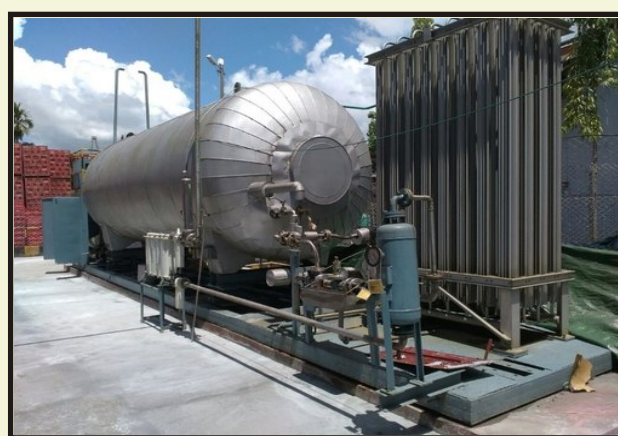
Model	ME-30	ME-36	ME-40	ME-45	ME-35C	ME-40C
Medium	LOX/LIN/LAR	LOX/LIN/LAR	LOX/LIN/LAR	LOX/LIN/LAR	Liquid Co2	Liquid Co2
Piston Diameter	30mm	36mm	40mm	45mm	35mm	40mm
Stroke	32 m	32 m	32 m	40 m	32 m	32 m
Speed	150-250RPM	150-250RPM	150-275RPM	150-275RPM	175-255RPM	175-275RPM
Flow	175-225m ³ /Hr	250-350m ³ /Hr	275-450m ³ /Hr	300-550m ³ /Hr	5Ltr/Min	10Ltr/Min
Discharge Pressure (Max)	165 Kg/cm ²	300 Kg/cm ²	165 Kg/cm ²	165 Kg/cm ²	120 Kg/cm ²	120 Kg/cm ²
Motor Power	7.5 HP	7.5 HP	10 HP	15 HP	5 HP	7.5 HP
Operating Temperature	-183°C to -196°C	-183°C to -196°C	-183°C to -196°C	-183°C to -196°C	-20°C to -40°C	-20°C to -40°C
Weight	225 Kgs	250 Kgs	250 Kgs	275 Kgs	225 Kgs	250 Kgs

CARBON DIOXIDE STORAGE TANKS

We have emerged as a world-recognized organization involved in supplying a commendable range of Co2 Storage System. It is suitable for storing gases at lowest temperature of -30C and pressure of 20kg/cm2.

SPECIFICATIONS

- ★ Our unit are specially built with standardized and are quality tested by our professionals at various stages of production to infuse high performance into them.
- ★ Pressure Reducing Station with bypass line & PRV is able to deliver constant pressure in downstream side irrespective of change of pressure of upstream side,
- ★ Pressure Gauge & Pressure Switch has been provided for auto control of tank pressure by operation of Co2 Refrigeration Machine.
- ★ Liquid Level Indicator (D.P.G.) Also has been provided for indicated for level of Liquid and a corresponding chart is supplied with each system to determine the tentative quantity of Gas.
- ★ Safety Valve are also provided with system for discharge the gas during excessive pressure.



CYLINDER TESTING UNIT

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 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.

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!!!!

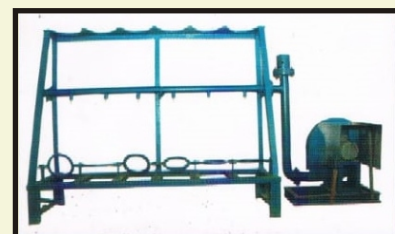
We work towards catering to all the needs of our customers.

We provide world class Cylinder Testing Unit at affordable price.

ADVANTAGES OF TEST SHOP

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

- ★ It is safe, secure & cheap.
- ★ No transport cost involved.
- ★ Anytime any day testing.
- ★ Production does not suffer.
- ★ You can earn too by testing cylinder for others.
- ★ One skilled labour required.





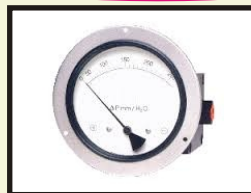
PRESSURE REDUCING VALVE



BALL VALVE



SAFETY VALVE



D.P.G.



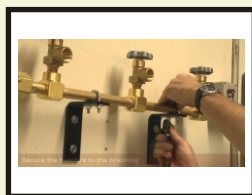
WATER COOLER



GLYCOL & CHEMICALS



REFRIGERANT GASES



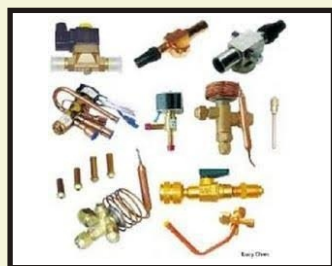
GAS MANIFOLD



HEAT EXCHANGER



SPARE PARTS



SPARE PARTS



COMPRESSOR



COMPRESSOR



AXIAL FAN

WHY US

Some of the reasons, which make us a suitable business partner of your choice are:

- Stringent Quality Checks.
- Cost Effective.
- Durable & Reliable product range.
- Association with reputed manufacturers ensures customized product procurement.
- Prompt delivery & after sales service.

R & D DEPARTMENT

We have a qualified team of professionals who conduct various quality & durability checks.

These checks are done right from the procurement of the raw material to the final packaging of the product. Our R&D division is continuously engaged in coming up with innovative designs and better production techniques that assist us in increasing our efficiency as well offering better products..

Corporate Mission

Mount Engineers mission is to grow our company by providing innovative, strong and high performance products and solutions to meet our Mount Engineers customers' need.

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.



MOUNT ENGINEERS & REFRIGERATION

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