

# Reynold<sup>®</sup> CHILLERS



**Inverter Based Scroll Chiller**



**Variable Speed water cooled Screw Chiller**



**Variable Speed Air Cooled Screw Chiller**



**Air Cooled Scroll Chiller**



**India's No.1 in Process Chillers**

**Exporting to over 60 Countries - US, EU**



## OUR VISIONARIES

Our founders' relentless pursuit of excellence laid the foundation for our success. Their passion for innovation, combined with a deep understanding of the industry, fueled the growth of Reynold India Pvt Ltd. Over the years, their vision has guided us to become leaders in delivering advanced refrigeration solutions.



## A GROWING TEAM

From our initial team of 14, we've blossomed into a vibrant community of professionals who are passionate about shaping the future of refrigeration Industry. Today, our team consists of more than 250 dedicated individuals, including executives, staff, and skilled workers. This diverse and talented workforce enables us to design, develop, and deliver solutions that exceed expectations.



## CUSTOMIZED COOLING SOLUTIONS

Reynold India Pvt Ltd is driven by a singular objective: to provide customized cooling solutions to customers across the globe. We understand that each client's needs are unique, and we pride ourselves on crafting solutions that perfectly fit their requirements. Our commitment to delivering tailored excellence sets us apart.



## ABOUT US

- **30** Years of Excellence (**Since 1995**)
- Manufacturing Excellence (Our World Class Manufacturing Locations)
- **WORKS I NOIDA SINCE 1995**  
Reynold India Pvt. Ltd. Building C-38 & 39, Sector-2 PO Box 201301 Noida Uttar Pradesh
- **WORKS II NOIDA SINCE 1995**  
Reynold India Pvt. Ltd. Plot No. 30, Sector-4 PO Box 249407 SIDCUL, Haridwar Uttarakhand
- **WORKS III NOIDA SINCE 1995**  
Reynold India Pvt. Ltd. Plot No. 12 & 13 Sector-12 PO Box 249407 SIDCUL, Haridwar Uttarakhand
- Total number of employees (**250+**)

Reynold, since inception, has been working on focused and very clear objectives... developing and incorporating futuristic technologies with real environmental considerations, providing users with the most accomplished solutions customized to their needs and owning up to support the commissioned equipment throughout, to ensure that the benefits are realized as conceived.

- R-134a, R-404A, R-407C, R-410A, R-22, **CO2, Propane, R513a, etc.**
- Capacity Range - 2 TR to 1800 TR, on skid
- Temperature Range - (+) 60°C to (-) 55°C
- IKW/TR - Upto 0.41
- Standard Design Basis - 45°C ambient, **upto 60°C max, 99%RH**
- Temperature Accuracy - Upto  $\pm 0.3^{\circ}\text{C}$
- Fluids Handled - Water, Air, Oils, Chemicals, Gases, Solutions, Viscous Fluids **etc.**



1000 TR, Air cooled, HT Motors, Transmitter based



1800 TR, Water cooled, Oil & Gas Industry

## 12000+ Customers Globally



## Installations in over 60+ countries





# SOME OF OUR CERTIFICATIONS & APPROVALS

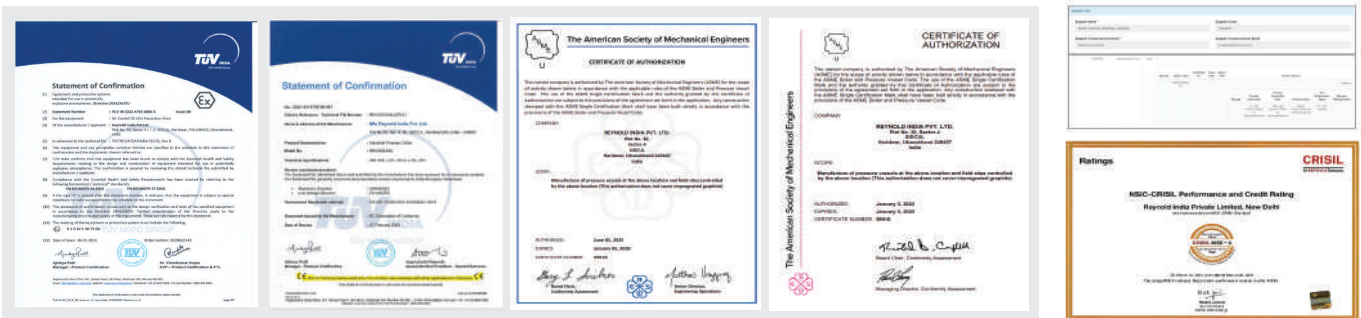
## ISO CERTIFICATES



## PED & CE CERTIFICATES



## ASME U STAMP & ATEX CERTIFICATES ETC....



## CONSULTANTS/ EPCS WE HAVE WORKED WITH

- EIL
  - Simon Carves
  - ENI SPA
  - SAUDI ARAMCO
  - Jacob Humphreys & Glasgow Limited
  - IOCL ONGC
  - ADNOC
  - Tata Consulting Engineers Limited
  - LUKOIL
  - Kuwait National Petroleum Company
  - Bharat Heavy Electricals Limited
  - SOCAR
  - KOC, Kuwait
  - Indian Space Research Organization
  - KANOO
  - L&T
  - Indian Navy
  - British Petroleum
  - National Thermal Power Corporation
  - Vikram Sarabhai Space Centre
  - MMEC Mannesmann
  - TOYO Engineering
  - Bhabha Atomic Research Centre
  - OMAN LNG
  - TECNIMONT
  - NPCC
  - BPCL
  - CPECC
  - BGC IRAQ
- AMONG OTHERS.....

# OUR PRODUCTS



## **Screw Chillers**

Air-cooled Screw Chillers  
Water-cooled Screw Chillers  
Industrial Screw Chillers.

## **Scroll Chillers**

Air cooled Scroll Inverter Chillers  
Water cooled Scroll Inverter Chillers

## **Inverter Based Chillers**

Air-cooled Reciprocating Chillers  
Water-cooled Reciprocating Chillers

Variable Speed Screw Chillers

## **Customized Chillers**

Ultra Low Temperature Chillers

Gas Liquefaction Chillers

Medical Equipment Chillers

Ammonia Screw Chillers

Batching Chillers

Oil Chillers

Air Chillers

## **Hazardous area Air**

## **Conditioners**

**Hazardous Area Chillers**

## **Oil & Water MTCs**

**Plastic Dehumidifiers**

**Heating & Cooling Units**



## Air-cooled Scroll Chillers

Reynold Air-cooled Scroll Chillers are highly energy efficient and are perfectly designed to work within extreme tropical weather conditions. Supported with European origin compressors, these chillers are designed, manufactured and tested in conformation with international industrial standards. The chillers are operation friendly, easy to install and backed by competent engineering team to realize the advantages while being in operation.



### Prominent Features

Reliable and energy efficient scroll compressors of European origin

Environment friendly refrigerant R-407C / R-410A/ R-134a, available

Separate and individual refrigeration circuits with each compressor

Totally skid mounted unit with single and multiple refrigeration circuits including fluid pump and storage tank

Electronic expansion valves for larger capacities, for energy efficiency and precise temperature control

Factory made and tested tube-in-tube as well as shell and tube evaporators, with high-flow high-pressure design, for specific process applications

Low FPI count and high condensing area together with low noise, high flow, pressure-controlled axial fans, ensuring best possible energy efficiency while being operable within the harshest ambient conditions

Fully automatic PLC based units with remote operation and data logging facilities, available

Automatic, stepped capacity control, through multiple compressor operation, from 33% to 100%

## Air-cooled scroll chillers

While maintaining high energy efficiency, the Air-cooled Reciprocating Chillers are suitable to work in extreme tropical weather conditions. These are designed, manufactured and tested in accordance with international standards. These equipments are easy to install and operation friendly, backed by competent engineering team to realize the advantage while being in operation.



### Prominent Features

Reliable and energy efficient reciprocating compressors of European origin

Environment friendly refrigerant R-404A / R-407C, available

Electronic expansion valves for larger capacities, for energy efficiency and precise temperature control

Multiple refrigeration units including fluid pump and storage tank on skid

Monocoque skid design for extra ruggedness and reliability for mobile operation

Low FPI count and high condensing area with coated fins, for easier maintenance and longer life

Shell and tube type evaporators with high-flow design, ready to handle fluid debris and suspended particles

Weather and dust proof designs with IP55 / IP65 level protection, available

Fully automatic PLC based units with remote operation and data logging facilities, available

Automatic, stepped capacity control, through multiple compressor operation, from 25% to 100%

## Air-cooled Screw Chillers

Reynold Air-cooled Screw Chillers are suitable for working in extreme tropical weather conditions while maintaining energy and operational efficiencies. The equipment are designed and manufactured in compliance with superior designing and manufacturing standards. The environment friendly chillers are easy to install and are tested against all required international parameters to be at par with the best.



### Prominent Features

The latest most efficient and highly reliable screw compressors from Europe

Environment friendly, energy efficient and operation friendly refrigerant R-134a

Highest full and part load energy efficiencies, through single and multiple refrigeration circuits

Factory made and tested DX and Flooded evaporators, made as per highest international standards of manufacturing

Electronic expansion valves for increased efficiency and precise temperature control

Fully automatic PLC based units with remote operation and data logging facilities

Low FPI count and high condensing area together with low noise, high flow, pressure controlled axial fans, ensuring best possible energy efficiency while being operable within the harshest ambient conditions

Stepless capacity control from 25% to 100% adapting precisely to varying process loads

## Air-cooled inverter scroll chillers

Reynold Variable Speed Chillers are upto 50% more energy efficient than standard chillers. The chillers operate efficiently and reliably with almost zero maintenance breakdowns due to the chiller capacities varying automatically, precisely as per the fluctuating heat loads from the processes. Few Processes too would demand variability of the chiller capacities to attain specific process parameters, where they remain highly desirable.



### Prominent Features

Reliable and energy efficient screw and scroll compressors of European origin

Environment friendly refrigerant R-134a / R-407C / R-404A / R-410A

Highly energy efficient upto 50%; lowest IKW/TR

Continuously varying capacities from 20% to 130%, precisely as per varying process loads

ROI on the additional cost within 1-2 years of operation, depending upon the usage

Widest fluid temperature range, (+) 25°C to (-) 30°C

Lower sound levels of upto 20%; reduced refrigerant levels of upto 15%

Electronic expansion valves for larger capacities, for energy efficiency and precise temperature control

Fully automatic PLC based single and multiple compressor operation

User friendly design backed by specially trained engineering staff

## Air Cooled Inverter Screw Chillers

This is a new series of compressor called CSVH series with inbuilt inverter, permanent magnet motor in bigger motors, integrated 3 step oil separator, automatic 2 step VI slider, integrated check valve, oil filter, inbuilt MODBUS Communication and excellent part load efficiency which improved efficiency from 5% to 72% compared to a standard screw compressor.



### Prominent Features

1. An external VFD based screw chiller can only change the speed of the Screw Compressor from 40Hz to 60Hz, that means from 2200 RPM to 3500 RPM, while this Inverter based Variable Speed Chiller can change the speed from 1750 RPM to 8000 RPM. There fore better control over speed and hence more saving in power at part load and lower load.
2. Why a Standard Screw Chiller with external VFD can not be used at lower Speed? like a Inverter based Variable Speed Chiller –  
This is because of Oil. Since there is no oil pump, at lower speed, an External VFD based chiller cannot bring back the oil at lower levels, while the Inverter based Variable Speed Chiller has an Intelligent software and monitoring system, which monitors the oil level and speeds up the compressor as and when required automatically to keep the system healthy and running.
3. Some Motors in Inverter based Variable Speed Chiller are Permanent Magnet motors in place of Standard Asynchronous motor, which has excellent part load efficiency.

## Air Cooled Low Temperature Brine /Glycol Chiller upto (-)35 °C

This is a new series of compressor called CSVH series with inbuilt inverter, permanent magnet motor in bigger motors, integrated 3 step oil separator, automatic 2 step VI slider, integrated check valve, oil filter, inbuilt MODBUS Communication and excellent part load efficiency which improved efficiency from 5% to 72% compared to a standard screw compressor.



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## Water-cooled scroll chillers

Designed to work in extreme tropical conditions, the Water-cooled Reciprocating Chillers are energy efficient and environmental friendly. These chillers are designed and manufactured within the best available facilities and are tested as per the most stringent international parameters. The equipment are easy to install and operation friendly.



### Prominent Features

Reliable and energy efficient reciprocating compressors of European origin

Environment friendly refrigerant R-404A / R-407C, available

Electronic expansion valves for larger capacities, for energy efficiency and precise temperature control

Multiple refrigeration units including fluid pump and storage tank on skid

High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance

Monocoque skid design for extra ruggedness and reliability for mobile operation

Shell and tube type evaporators with high-flow design, ready to handle fluid debris and suspended particles

Weather and dust proof designs with IP55 / IP65 level protection through acoustic enclosures, available

Fully automatic PLC based units with remote operation and data logging facilities, available

Automatic, stepped capacity control, through multiple compressor operation, from 33% to 100%

## Water-cooled Screw Chillers

Reynold Water-cooled Screw Chillers are designed to work within extreme tropicalized weather conditions, while maintaining the highest energy efficiency. Designing and the choice of equipment are critical to conform to superior standards. Manufacturing and testing standards at our facilities are at par with the best, internationally. Installed equipments are operation friendly and are backed by competent engineering team to realize the advantage while being in operation.



### Prominent Features

The latest most efficient and highly reliable screw compressors from Europe

Environment friendly, energy efficient and operation friendly refrigerant R-134a

Highest full and part load energy efficiencies, through single and multiple refrigeration circuits

Factory made and tested DX and Flooded evaporators, made as per highest international standards of manufacturing

Electronic expansion valves for increased efficiency and precise temperature control

Fully automatic PLC based units with remote operation and data logging facilities

High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance

Step less capacity control from 25% to 100% adapting precisely to varying process loads

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3. Some Motors in Inverter based Variable Speed Chiller are Permanent Magnet motors in place of Standard Asynchronous motor, which has excellent part load efficiency.

## Brine Chillers

Brine Chillers/Glycol chillers/Low temperature chillers are designed for cooling brine/Glycol/Liquid refrigerant (DX. applications) to ultra-low temperatures of up to Minus 60°C (evap. temp.). The design includes a screw compressor with internal/external motor, high efficiency, oil separation system, accumulator, evaporator, condenser and economiser. Extensively used in pharmaceutical, chemical and food & beverage industry. Chillers are manufactured using supreme grade components with the help of cutting-edge technology by our skilled team of professionals. These chillers are equipped with integrated air-cooled / Water Cooled condenser or evaporative condenser, to meet the extensive needs of the clients, we offer these Brine Chillers as per application requirements of the clients



### Prominent Features

Custom Designed Brine Chillers

Single Stage Ref System for Temp Up to -40°C

Two Stage Cascade Ref System for Up to -60°C

Eco-friendly Refrigerants.

Compressor-Open / Semi hermetic, Reciprocating /Screw

Communication Protocol-Compatible with BMS/ Modbus RS485 / Modbus TCP / IP / Profibus / ProfiNet / Ethernet.

Process Specific Alteration Easily Possible.

Flame-Proof / intrinsically safe components for Electricals and Instruments.

High technology Control System including all control & safety interlocks.

Maintenance Friendly.

Repairable / Replaceable Components

Operation & Maintenance Training to customers.

Comprehensive Technical, O&M Manuals

Electrical & Instrument Components Certification : IEC Ex / ATEX / NEMA / CCOE / CMRI

## Methanol Chillers

Methanol Chillers are designed for using methanol water as the cooling media, in place of glycol or brine up to low temperatures of up to Minus 30°C (evap. temp.).

Methanol being flammable, the system should be flameproof, or alternately the evaporator and the machine are made in two separator skids, with the refrigeration skid being installed in the safe area.

The evaporator is installed remotely in a separate skid, and all the instruments on this skid is of flameproof design.



### Prominent Features

We guarantee the quality of the product as we abide by the highest quality maintained as per the industry standards.

➤ Custom Designed Methanol Chillers

➤ Ref System for Temp Up to -40 °C

➤ Eco-friendly Refrigerants.

➤ Compressor - Open / Semi hermetic, Reciprocating / Screw

➤ Communication Protocol - Compatible with BMS / Modbus RS485 / Modbus TCP/IP / Profibus / Profinet / Ethernet are available.

➤ PLC & Control Redundant Feature are available.

➤ Process Specific Alteration Easily Possible.

➤ Flame-Proof / intrinsically safe components for Electricals and Instruments are optional.

➤ High technology System Control including all control & safety interlocks.

➤ Maintenance Friendly.

➤ Repairable / Replaceable Components

➤ Maintenance Training to customers.

➤ Comprehensive Technical, O&M Manuals

➤ Electrical & Instrument Components Certification : IEC Ex / ATEX / NEMA / CCOE / CMRI

## Cascade Low Temperature Chillers

Reynold Cascade Chillers are designed and manufactured for ultra-low temperature applications. Primary and secondary refrigeration circuits are completely skid mounted and are available in both Water-cooled as well as Air-cooled types. They are designed as per the peculiar applications and fluid specifications and use materials precisely as per the specific process cooling requirements.



### Prominent Features

The latest most efficient and highly reliable screw and reciprocating compressors from Europe/US/Japan

Environment friendly, very stable and operation friendly refrigerant R-404A/R-134a/NH<sub>3</sub>

Totally skid mounted units including primary and secondary refrigeration circuits, with the highest possible energy efficiencies

Factory made and tested DX and Flooded evaporators, made as per highest international standards of manufacturing

Electronic expansion valves for increased efficiency and precise temperature control

Fully automatic PLC based units with remote operation and data logging facilities

High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance

Low FPI count and high condensing area together with low noise, high flow, pressure controlled axial fans, ensuring best possible energy efficiency while being operable within the harshest ambient conditions

## Low Temperature Gas Liquefiers

Reynold Gas Liquefaction Chillers are specially designed for the liquefaction of Industrial gases like CO<sub>2</sub>, N<sub>2</sub>O etc. These chillers are completely skid mounted which include gas liquefying evaporators also. The chillers work on multiple refrigerants as per the process requirements. They are customizable as per specific process requirements and with matching metallurgy.



### Prominent Features

Reliable and energy efficient screw and reciprocating compressors of European origin

Refrigerants used NH<sub>3</sub> / R-404A

Completely skid mounted design, including liquefying evaporators

Designed for gas temperatures of upto (-) 30°C and pressures of upto 100 bar

Special metallurgy equipment and accessories as per hazardous area classifications

Small vessel mounted units to very large liquefier sizes available

Complete commissioning at site handled through specially trained engineering staff

Round the clock operating, continuous storage liquefiers available

Custom designed, with HT motors, available

## Air Chillers

Reynold Air Chillers are VFD based, designed for precise temperature and flow of chilled air, for specific applications like plastic blown film plants etc. The chillers are highly energy efficient by upto 50%, in comparison to the traditional air cooling systems using water chillers in tandem with the air exchangers. Since the ambient temperature and RH varies continuously, the chiller is designed to operate within the desirable temperature range, with automatic capacity control from 40% to 110%.



### Prominent Features

Reliable and energy efficient hermetic and semi-hermetic compressors of European origin

Environment friendly refrigerant R-407C/ R-410A/ R-134a, available

Designed for precise air outlet temperature range, upto 48°C ambient temperature and 90% RH

Energy saving of upto 50%, in comparison to the traditional indirect air cooling systems

VFD based design for better temperature control and higher efficiency, available

Compact design with less footprint area and lower maintenance cost

Separate and individual refrigeration circuits with each compressor

Electronic expansion valves for larger capacities, for energy efficiency and precise temperature control

Fully automatic PLC based units with remote operation and data logging facilities, available

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Separate and individual refrigeration circuits with each compressor

Electronic expansion valves for larger capacities, for energy efficiency and precise temperature control

Fully automatic PLC based units with remote operation and data logging facilities, available

## Ammonia Chillers

Reynold Ammonia Chillers are compact and skid mounted and are usable for a wide temperature range from medium to low temperature process cooling applications, like in pharmaceuticals, chemicals, dairy, food processing, beverages, cold storage, ice making, industrial gases as well as medium temperature application like HVAC,Plastics,milk etc.



### Prominent Features

Highly reliable screw and reciprocating compressors from Europe,Japan and US

Natural refrigerant NH<sub>3</sub> with zero ODP and zero GWP, with the highest energy efficiency

Widest operating temperature range, (+) 30°C to (-) 40°C

Customized as per the extreme and sensitive environmental conditions, factory inspected and certified

Factory assembled and tested equipment with the option to dismantle and re-commission at site, in case of very large sizes

Factory made and tested Flooded evaporators, made as per highest international standards of manufacturing

High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance

Stepped and stepless capacity control, from 25% to 100%,adapting precisely to varying process loads

Customized turnkey cooling solutions,available

## Heating & Cooling Unit

Reynold heating cooling unit consists of both refrigeration system to cool and automatic electrical heaters to heat the water. A customer can use the equipment for any temperature between **+5 degree C** to **+9 degree C** without switching manually between heating and cooling. The system automatically switches from cooling to heating or vice versa as maintains the temperature in between as per the customer requirement. High pressure pumps are inbuilt, up to two numbers in quantity to deliver this water at high pressure and as per the flow requirement of the customer..



### Prominent Features

Reliable and energy efficient scroll compressors of European origin

Environment friendly refrigerant R-407C / R-410A/ R-134a,available

Separate and individual refrigeration circuits with each compressor

Totally skid mounted unit with single and multiple refrigeration circuits including fluid pump and storage tank

Electronic expansion valves for larger capacities, for energy efficiency and precise temperature control

Factory made and tested with shell and tube evaporators,with high-flow & high-pressure design, for specific process applications

High fouling factors increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance

Fully automatic PLC based units with remote operation and data logging facilities,available

Automatic, stepped capacity control, through multiple compressor operation,from 50% to 100%

## Batching Chillers

Reynold Batching Chillers, and Ice water chillers are customized for concrete mixing and cooling applications with 4°C and 1°C chilled water temperatures, respectively, as the application will demand. The chillers are designed to operate at highly dusty batching sites, within extreme weather conditions, working directly under sun and shower. These chillers are hard-frame based, for operational mobility. The major components in the refrigeration circuits are chosen or designed as per the available site conditions and utilities.



### Prominent Features

Highly reliable reciprocating and screw compressors of European origin

Environment friendly, energy efficient and operation friendly refrigerant R-134a / R-404A, available

Customized design for the lowest possible temperatures of water, with or without energy reservoir

Containerized models available, including large sized ice-water storage tank assembly and water pumps

Designed to produce ice-water within extreme weather conditions of upto 52°C

Monocoque skid design for extra ruggedness and reliability for mobile operation

Low FPI count and high condensing area with coated fins, for easier maintenance and longer life

Shell and tube type evaporators with high-flow design, ready to handle fluid debris and suspended particles

Weather and dust proof with IP 55 / IP 65 level protection

Stepped and stepless capacity control from 25% to 100%

Complete turnkey solutions providing ice-water upto the mixing area

## Mobile Trolley Mounted Air Cooled Screw Chillers

The whole unit to be mounted on four wheels trailer capable of being towed by a tractor / suitable vehicle. The trailer should have a canopy (with monsoon protection) made of MS suitable for speed of 40 km / hr capable of taking 10 ton load and with the width not exceeding 2.5mtrs. The trolley should be so constructed so as to comply with the statutory requirements regarding road transportation.



### Prominent Features

➤ The trolley should have two axles with suspension system. Leaf springs of the trolley should be strong enough to withstand total loading of the trolley taking into consideration the transportation shocks and various shocks associated with lifting by cranes and associated shifting.

➤ It should have the entire chilled water plant, its accessories and the control panel neatly mounted on the trolley.

➤ The whole trolley should be suitably enclosed with adequate water ingress protection so as to allow operations along sea side on the jetties and in all weather condition including the ability to withstand sea water sprays from heavy seas in the monsoons.

➤ The trailer should be provided with suitable lifting arrangement/hooks to lift the complete unit by a crane without damaging the canopy. All slings/ straps etc required for lifting are to be supplied along with the plant and the same should be certified for their load bearing capabilities by the relevant agencies.

➤ Fluorescent internal/external lighting arrangement is to be provided to enable night operation and maintenance.

➤ The trolley in its design would conform to commercially usable ruggedized trolley and towable by a tractor / vehicle (max speed 40kmph).

## VFD Racks

This series of compressor equipped with variable frequency drive, provide excellent efficiency under part load by modulating the operating speed of compressor according to fluctuation of process load. External VFDs are used in both Brine / Glycol / Methanol refrigeration chillers as well as Water chillers using Semi Hermetic Screw Compressor.



### Prominent Features

1. Capacity Regulation as per load requirement with limited frequency range
2. Save Energy by system modulation (reducing System at part load and on start-up).
3. Precise control & Automation System.
4. Motor Safety and process interlocks.
5. Save overall system cost (DG Size / Compressor Size / Cables etc.)

### Advantage

1. VFDs allow starting current equal to or greater than 1. 5 times of full load current of motor.
2. Lower Switchgear sizes
3. Peak Demand under control
4. Smooth start
5. Reduction in DG Set capacity requirement.
6. No in-rush currents at start-up (Max. up to 200% of FLC).
7. Improved System performance with Energy Savings.
8. At least 20% Extra capacity available with the compressor (60 Hz operation).
9. Smooth start and low wear and tear of Compressor.
10. Minimum Compressor Switching.
11. Motor Protection and Safety

## Hazardous Area Chillers

Reynold Hazardous Area Chillers are customized as per the specific process needs at various hazardous areas, certified through prestigious international testing certifying bodies. These highly specialized chillers find their applications in oil and gas industry throughout the world.

These chillers are backed by dedicated engineering teams, with sound know how, highly desirable during engineering, fabrication, testing as well as while commissioning at site.



### Prominent Features

ATEX certified chillers, with UL / CSA / IECEx certifications, available

Designed for hazardous area classifications Zone-I & Zone-2

Explosion proof designs for gas groups IIA, IIB and IIC

Using smart transmitters with all signal and control cables as per hazardous area classifications

NEMA Standard enclosures for electrical control, junction boxes and motors

Special metallurgy equipment and accessories as per hazardous area classifications

Skid mounted designs, upto 1800TR nominal capacities

Microprocessor controlled with remote monitoring and data logging

Customized turnkey jobs handled

## Ultra Low Temperature Chillers- upto (-)50 °C Water Cooled

Ultra low temperature chillers are offered in air cooled and water cooled, using screw compressors. For air cooled with additional secondary cooling so that these chillers can deliver the cooling of media at low temperature of **(-)50 degree C** or lower, even at the highest ambient of plus **(+)55 degree C**. These are compact, skid mounted units, complete with inbuilt stainless steel pumps, **SS316L** piping, and **SS316L** expansion tank or ride storage tank, are screw compressors are variable speed. Having a speed from **1600 RPM** to **6000 RPM**.



### Prominent Features

The latest most efficient and highly reliable screw and reciprocating compressors from Europe/US/Japan

Environment friendly, very stable and operation friendly refrigerant R-404A/R-134a/NH<sub>3</sub>

Totally skid mounted units including primary and secondary refrigeration circuits, with the highest possible energy efficiencies

Factory made and tested DX and Flooded evaporators, made as per highest international standards of manufacturing

Electronic expansion valves for increased efficiency and precise temperature control

Fully automatic PLC based units with remote operation and data logging facilities

High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance

Low FPI count and high condensing area together with low noise, high flow, pressure controlled axial fans, ensuring best possible energy efficiency while being operable within the harshest ambient conditions

## Ultra Low Temperature Chillers- upto (-)50 °C Air Cooled

There ultra low temperature chillers are offered in air cooled and water cooled condenser using screw compressors for air cooled with additional secondary cooling so that these chillers deliver the cooling media at low temperature of minus **50 degree C** or lower, even at the highest ambient of plus **55 degree C**. These are compact, skid mounted units, complete with inbuilt stainless steel pumps, **SS316L** piping, and **SS316L** expansion tank or ride storage tank.



### Prominent Features

The latest most efficient and highly reliable screw and reciprocating compressors from Europe/US/Japan

Environment friendly, very stable and operation friendly refrigerant R-404A/R-134a/NH<sub>3</sub>

Totally skid mounted units including primary and secondary refrigeration circuits, with the highest possible energy efficiencies

Factory made and tested DX and Flooded evaporators, made as per highest international standards of manufacturing

Electronic expansion valves for increased efficiency and precise temperature control

Fully automatic PLC based units with remote operation and data logging facilities

High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance

Low FPI count and high condensing area together with low noise, high flow, pressure controlled axial fans, ensuring best possible energy efficiency while being operable within the harshest ambient conditions

# Explosion Proof ATEX Certified Air Conditioners



Hazardous, area Zone 1 & Zone 2, With Full SS-316 L construction

Explosion proof Air conditioners are essential in hazardous areas in petrochemical installations such as offshore platforms for the oil and gas industry. Our explosion proof heating, ventilation and air conditioning systems are designed by our skilled engineers and offer a safe solution of the highest level of quality. These systems are durable and reliable, and they are corrosion protected, designed to withstand the harsh environment in which offshore platforms are located. **(3kw to 70 kw)**

## Prominent features

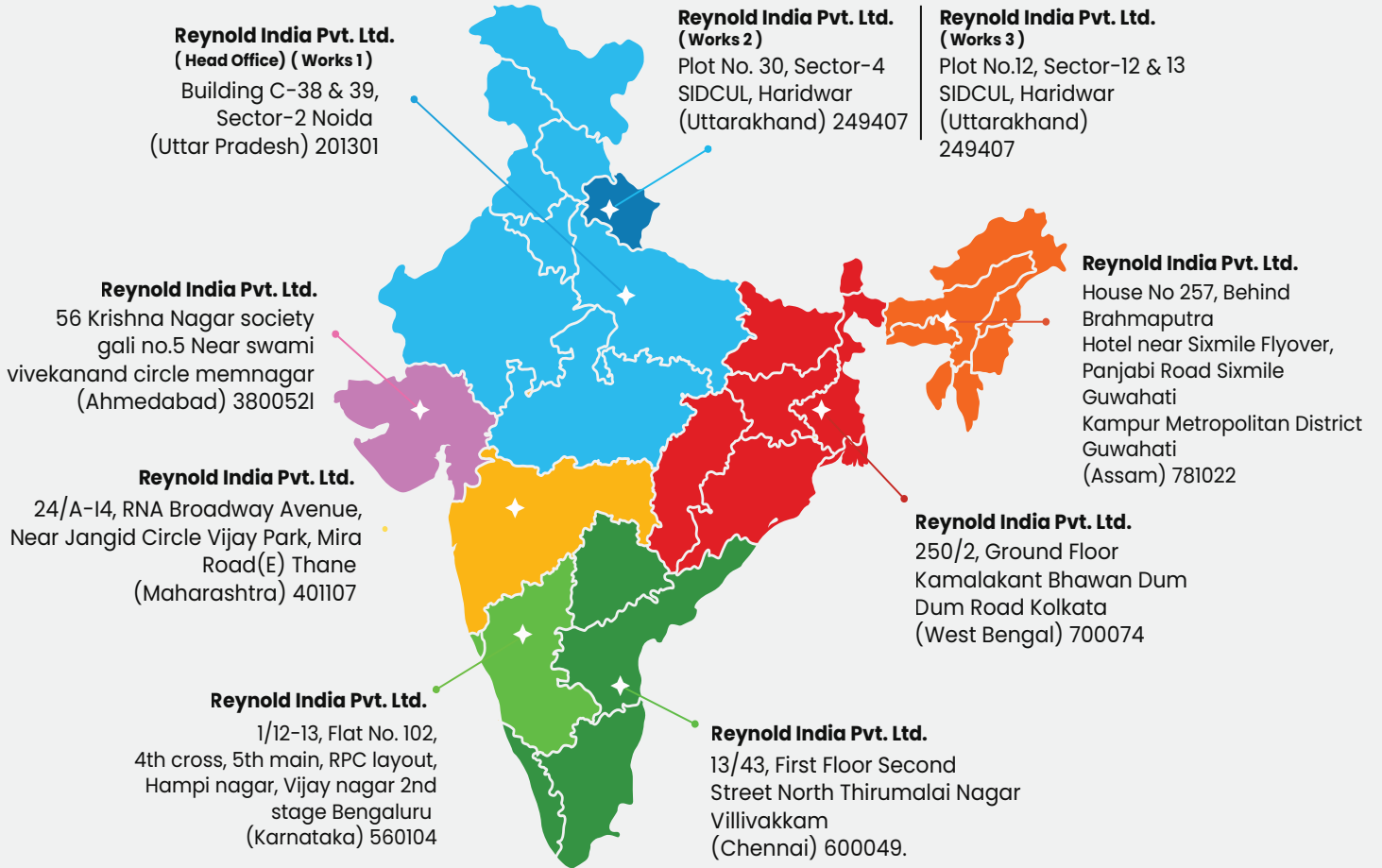
- A. Indirect Cooling of Accommodation Modules.
- B. Local Equipment Rooms (LER) Modules.
- C. Silicon Controlled Rectifiers (SCR) Modules.
- D. Variable speed Drive (VSR) Modules.
- E. Transformer Rooms.
- F. Galley Cooling.

## Optional Features

- a. These can be custom-built to your requirements.
- b. These air conditioners can be third party certified by TUV/LR/others for ATEX certification.



# Our Pan India Presence



## Additional Service Centres

- Karwar
- Vadodara
- Pune
- Bhubaneswar
- Coimbatore
- Lucknow
- Jaipur
- Hyderabad
- Visakhapatnam

### Customer Care

**Reynold Toll Free**  
**1800-120-1516**

\*The details and specifications provided here may change without notice. Please ask for the latest updates.

### Reynold India Pvt Ltd

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#### Works 3

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