

Airtech



THE NEXT GENERATION
**CHILLING
SOLUTION**

 www.airtechcool.com

ABOUT COMPANY

Airtech, established in year 1990 is synonymous with the chilling solutions across a wide spectrum of industries. The Airtech Chillers are designed, manufactured and tested with the latest technologies at two state-of-the-art manufacturing units situated in Faridabad, Haryana (India).

We provide latest, sustainable and energy efficient refrigeration solutions developed through continuous research and development.

At Airtech, we not only deal in products but also provide all our esteemed customers with post sales services through our dedicated service team.

■ Airtech Chillers cater to various Industries like

Plastics	Pharmaceuticals
Dairy	Breweries
Food & Beverages	Automobiles
Batching (Construction)	Chemicals
Textiles	Foaming
Printing & Packaging	Oil & Lubricants
Machine Tools	Rubber
Food Processing	Gas & liquefying

➤ **Airtech Mission is "To provide best-in-class chilling solutions by manufacturing sustainable, environment friendly and energy efficient products customized as per customer's needs."**

➤ **Airtech Vision is "To Maintain the ecological balance of the Mother Earth by manufacturing Quality Refrigeration Solutions"**

GLOBAL
REACH

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AIRTECH

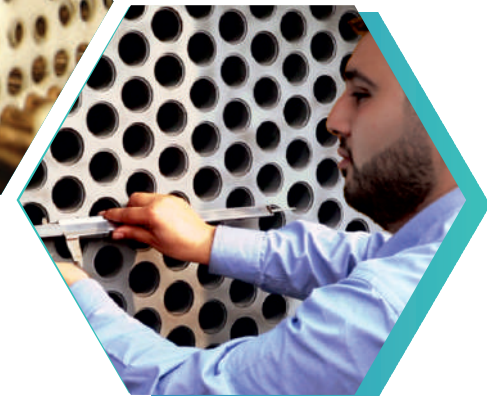
MANUFACTURING CAPABILITIES

At Airtech, in purview of keeping our products and services standout in the industry, we have been following best-in-class manufacturing standards along with latest design and manufacturing capabilities. Our team of 150+ members consisting of engineers, mechanics, foremen, service technicians, supervisors, operations, service managers etc. along with state of the art infrastructure for manufacturing at our facilities located in Faridabad, Haryana together provides a total ecosystem for manufacturing energy efficient Chillers tailored for our client needs.

■ Safeties Available in Airtech Chillers

MECHANICAL SAFETY

- Low pressure cut-outs
- High pressure cut-outs
- Internal compressor pressure safety switch
- Excess liquid slugging safety
- Oil temperature heaters
- Oil pressure cut-outs (in selected models)
- Oil level cut-outs (in selected models)
- Water flow switch (in selected models)
- Anti-Freeze protection (For low temperature models)



ELECTRICAL SAFETY

- Internal Compressor motor thermostat
- Overload relay
- Reverse phase protection
- Single phasing protection
- Over-current & Short circuit protection
- Earthing protection

Note: The features may vary on basis of system and design requirements of chiller.

SCREW CHILLER

Airtech Screw Chillers are designed for the uninterrupted industrial applications in extreme tropical conditions offering a dual advantage of capacity control along with high efficiency with the reliable European screw compressor which are tested as per ARI standards. Airtech Screw Chillers are designed, manufactured and tested as per the International Standards at the in-house manufacturing facilities. Airtech Screw Chillers are available in both DX as well as flooded system.

SALIENT FEATURES

Temperature Range: 12°C to -40°C

Refrigerant: R-22/R-404A/R-407c/R-410A/R-134a/R-1234ze/R-1234yf

Helical screw design for part load performance.

Rugged Compressor with fewer moving parts giving high efficiency.

Stepless Capacity control as per the fluctuating load from 25% to 100%.

Anti-Freeze Protection for safe operation at low temperatures.

Automatic PLC based central control system with SCADA integration options.

Electronic Expansion Valve for regulating the flow of refrigerant as per the load. (Optional)

SS-304 Buffer Tank duly insulated with nitrile insulation.

Corrosion Proof piping and fittings for all water contact areas.

Eco-friendly Refrigerant option available.

Air-Cooled Screw Chiller

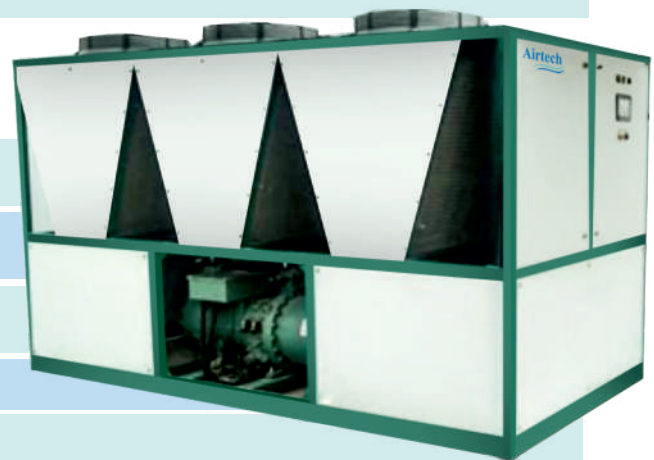
Energy Efficient Compressor of European origin.

Aluminium Fin & Copper Tube Condenser with high speed axial fans for optimized gas condensation.

Ease of operation with automatic controllers & minimum operator routine checks requirement.

Low fouling as compared to water-cooled counterpart.

Low Maintenance with less water contact parts.



Water-Cooled Screw Chiller

Energy Efficient Compressor of European origin.

Shell and Tube type heat exchanger for trouble-free operation of system.

Plate Heat Exchanger option available.

Highly Efficient system with meticulously selected & designed equipments.

Lower capacity Fluctuations due to change in ambient conditions.

Lower running Cost due to lower power consumption.



RECIPROCATING CHILLER

Airtech Reciprocating Chillers designed for withstanding the extreme ambient temperatures are designed, manufactured and tested as per the International standards at the Airtech facility with the latest modern techniques. The simple design of compressor gives dual advantage of low investment and maintenance cost.

SALIENT FEATURES

Temperature Range: 12°C to -40°C

Refrigerant: R-22/R-404A/R-407c/R-410A

Robust Design for operating over a large range of operating temperature.

Packaged Design makes it extremely rugged and easy to install.

Low Maintenance cost due to simple design of the system and the compressor.

Microcontroller based decision control system.

SS-304 Buffer Tank duly insulated with nitrile insulation.

Fast Return on Investment with low initial investment as compared to other chillers.

Suitable for any Industrial Application in **Extreme Tropical Conditions.**

Air-Cooled Reciprocating Chiller

Rugged Compressor of European origin for trouble-free operation.

Aluminium Fin & Copper Tube type condenser with high speed axial fans for optimized gas condensation.

Ease of operation with automatic controllers & minimum operator routine checks requirement.

Low Condenser Coil fouling as compared to water-cooled counterpart.

Low Maintenance with less water contact parts.



Water-Cooled Reciprocating Chiller

Shell and Tube heat exchanger for trouble-free operation of system.

Rugged Compressor of European origin for trouble-free operation.

Plate Heat Exchanger option available.

Highly Efficient system with meticulously selected & designed equipments.

Lower capacity Fluctuations due to change in ambient conditions.

Lower running Cost due to lower power consumption.



SCROLL CHILLER

Airtech Scroll Chillers are designed as per the international standards and manufactured with the latest modern techniques at the ISO 9001:2015 certified manufacturing units. The compact design with tank and pumps within the system makes it easy to use and ideal for any industrial application. The system is designed with the consideration of its application in the particular industry with all the safety and maintenance equipment for least down time.

SALIENT FEATURES

Temperature Range: 12°C to -35°C

Refrigerant: R-22/R-404A/R-407C/R-410A

Highly energy efficiency with the scroll based compression system.

Compact design gives the advantage of minimum space requirement.

Packaged design makes it extremely rugged and easy to install.

Low Noise and highly durable system due to fewer moving parts in the compressor.

Suitable for any Industrial Application in **Extreme Tropical Conditions.**

Robust Design for minimal down time for maintenance.

Variable speed Inverter driven model available on demand.

Air-Cooled Scroll Chiller

Compressors with efficient scroll compression mechanism with internal mechanical & electrical safeties.

Aluminium Fin & Copper Tube type condenser with high speed axial fans for optimized gas condensation.

Ease of operation with automatic controllers & minimum operator routine checks requirement.

Low Condenser Coil fouling as compared to water-cooled counterpart.

Low Maintenance with less water contact parts.



Water-Cooled Scroll Chiller

Shell and Tube heat exchanger for trouble-free operation of system.

Compressors with efficient scroll compression mechanism with internal mechanical & electrical safeties.

Plate Heat Exchanger option available.

Highly Efficient system with meticulously selected & designed equipments.

Lower Capacity Fluctuations due to change in ambient conditions.

Lower running Cost due to lower power consumption.



AMMONIA CHILLER

Airtech Ammonia Chillers are aligned with Airtech Mission of manufacturing highly efficient as well as sustainable products. **Airtech Ammonia Chillers** are designed, manufactured and tested with meticulous quality control and checks at various levels giving a rugged ammonia system which needs minimal down time and gives a consistent performance for any application.

SALIENT FEATURES

Temperature Range up to -40°C

Flooded System, Provides higher efficiency as compared to DX systems

High Efficiency, Up to 15% more efficient as compared to other refrigerants

Eco-friendly Chiller with Zero ODP and GWP.

Low running Cost due to lower power consumption.

Low Refrigerant Cost adds to low maintenance cost.

Step and Step less Capacity Control options available.



SKID MOUNTED CHILLER

Airtech Skid Mounted Chillers are designed for extreme operating conditions, all manufactured and tested at the ISO 9001:2015 Certified Airtech Manufacturing Facility. Designed as per the customized needs of the application, the Skid Mounted Chillers are suited for any Industrial Application giving the advantage of low cost with same High performance.

SALIENT FEATURES

Temperature Range: 12°C to -40°C

Refrigerant: R-22/R-404A/R-407C/R-410/R-717/R-134a

Fast Return on Investment with low initial investment.

Digital Temperature Controller with Display for Outlet Temperature.

Quick and Easy Maintenance Removable cartridge type filter dryer.

Plate Heat Exchanger option available.

Microcontroller based decision control system available.

VFD compatible system also available.



INVERTER CHILLER

Airtech Inverter Chiller, the latest generation chiller developed as a result of continuous research and development at Airtech for energy efficient and sustainable chilling solutions. Airtech Inverter Chillers controls voltage, current and frequency inputs to the compressor through the electronic drives. This help achieve smooth start with low-starting current along with controlling the RPM of the compressor motor according to the varying load requirement, thus saving the annual power cost up to forty percent.

SALIENT FEATURES

Refrigerant: R-410A

Low Starting Current with variable frequency drive integrated with the system.

RPM control with drive helps control capacity according to the load.

High Performance with permanent magnet motors.

Energy Saving Up to **40%** on the annual power cost.

Low Sound and Vibration, as compared to their counterparts.

Packaged Design makes it extremely rugged and easy to install.

High Full and Part Load efficiency with precise control of the compressor according to the load.

Longer life due to low in-rush current and smoother control with electronic drive.

Variable Speed Water Pump option is available.

Digital Temperature Controller with Display for outlet temperature.

Eco-friendly Refrigerant with Zero ODP.



AIR CHILLER

With the wide spectrum of industrial needs the chilling processes at times require chilled air for their process efficiencies and production needs. Airtech Air Chillers customs designed as per the client needs are tailored for control of not only temperature but humidity as well. With the variable speed blower, the air flow control option is also available.

SALIENT FEATURES

Capacity: 2 TR to 250 TR

Temperature Range: 5°C to 20°C

Refrigerant: R-22 /R-134a/R-407c/R-410a

Reliable Compressor with patented European/American compression technologies.

Low FPI Copper tube and Aluminum Fin evaporator for lower downtime.

Pre-Filter option available for longer life of evaporator coil.

In-built Blower Fan option available.

100% Fresh Air and partial fresh air option available.

Air flow and static pressure control option available.

Suitable for various applications: Plastic multi-layer lines/Blow film lines, Sugar industry, Mushroom farming, Food processing, Petrochemical and many more.



OIL CHILLER

Oil Chillers are generally used with processes like Hydraulics, Spindle Cooling, Broaching Cutting, Lubrication, Honing, Quenching, Drilling, Grinding etc. for maintaining the required process temperatures as well as sustain the chemical & physical properties of the oil. With provision of direct refrigerant to oil and secondary refrigerant cooling media, the Airtech oil chiller are designed to withstand high oil temperature and extreme ambient conditions. The meticulous design & selection of chiller equipment is done in consideration of oil types & properties, oil pressures and heat exchanging media etc.

SALIENT FEATURES

- Capacity: 2 TR to 100 TR
- Temperature Range: 5°C to +25°C
- Refrigerant: R-22/R-410A/R-407C/R-134a
- Direct and Indirect Oil Cooling options available.
- Special Heat Exchanger Design for oil cooling.
- In-built Oil pump with Plug and Play system.
- In-built Oil Sump Reservoir (optional).
- Packaged Design makes it extremely rugged and easy to install.
- Microcontroller based decision control system available.
- Capacity control through variable frequency drives (VFDs) available.



GLYCOL / BRINE CHILLERS

Airtech low temperature Chillers are available in Air-cooled and Water-cooled design. The low temperature Chillers are carefully designed for industrial processes having temperature requirement below Zero Degree Celsius. The chiller uses Brine/Glycol mixed with Water as a secondary refrigerant. The low temperature chiller is precisely designed in consideration with the process requirements of the industry. With various parameters ranging from material of construction of heat exchanger to individual equipment design, these equipments and their selection is done in consideration of temperature requirements, type of refrigerant & other factors related to the low temperature process.

SALIENT FEATURES

- Capacity: 2 TR to 250 TR
- Temperature Range: -40°C to 0°C
- Refrigerant: R-22/R-717/R-404a/R-134a
- Reliable Compressor with patented European/American compression technologies.
- Special Heat Exchanger Design for uncompromised performance.
- DX and flooded evaporators, manufactured strictly as per ASME standards.
- Capacity control with EXV & VFD available.
- Improved Seasonal Efficiency as compared to its standard counterpart.



BATCHING CHILLER

Airtech Batching Chillers designed for withstanding the extreme ambient temperatures are manufactured and tested as per the international standards at the Airtech facility with modern techniques. Fitted with robust imported compressor and easy to maintain condenser coil, Airtech Batching Chiller are rugged and low maintenance system build to sustain in the dustiest of environments. The simple design of compressor gives dual advantage of low investment and maintenance cost.

SALIENT FEATURES

Temperature Range: 3°C to 15°C

Refrigerant: R-22/R-407C/R-410a/R-134a

Heavy Duty Outer Structure for uncompromised performance even in harsh conditions.

Long lasting Powder Coated Casing for handling toughest environmental conditions.

Low Maintenance cost with low FPI & Hydrophobic coating (optional) on condenser.

Microcontroller based decision control system.

Digital Temperature Controller with Display for outlet temperature.

Suitable for industrial application in **Extreme Tropical Conditions**.

Additional Insulated Reservoirs and turnkey solutions available on demand.

Weather proof system for outdoor applications.



TURNKEY REFRIGERATION SOLUTIONS

With a complete team of engineers, project executioners and ubiquitous service network, we provide turnkey solutions for refrigeration system that includes Refrigeration plants, cold storages, multi-chiller system, Liquification system etc.

We provide end-to-end services which includes:

Plant layout design

Estimation of piping required for refrigeration system

Production of refrigeration equipments

Supply of refrigeration accessories

Installation of plant and machinery with various accessories

Post installation Services, spare parts and maintenance



With our dedicated teams at different levels to address and implement every aspect of the project, we offer seamless delivery of projects with uncompromised quality. Our post sales service team network across India is equipped to support industries where perishable product life is less than few hours and every downtime hour counts.

PRESTIGIOUS CLIENTELE



Airtech[®]

ADVANTAGE



Quality Assured from ISO 9001:2015 certified Manufacturing facilities



One stop solution with varied range of product and services



Team of qualified engineers with 40+ years of industry experience



24x7 service support availability



Customized products & solutions as per industry demands



Ubiquitous Service Network

Airtech Cooling

Process (Pvt.) Ltd.

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