

An
ISO 9001:2015
Certified Co.



SASG
UV SOLUTIONS PVT. LTD.

Industrial Chillers

For Plastic Industry, Rubber Industry, Food Processing,
Dairy Breweries & Beverages, Hospitals,
Printing & Packaging House, Hotels, Pharma Companies etc.

Cooling Unleashed

www.sasguv.com



Introduction

In 2014, SASG UV Solution Pvt. Ltd. group formed of highly skilled & experienced professionals in Chillers, Refrigeration Plant and UV Coating & Curing applications. The capabilities of the group includes top class designing, product/ application as per customer individual requirement, well laid out manufacturing process & delivering world class products backed by a proactive sales & service team. With time company developed more and more products for industrial use. These are manufactured as per temperature range applications, capacity & as well as environment conditions. Different types of Chillers are Reciprocating Chiller, Screw Chiller, Scroll Chiller, Ammonia Chiller, Skid Mounted Chiller, Special Application, Plastics / Rubber, Textiles , Food Processing, Dairy, Breweries / Beverages, Pharmaceuticals, Automobiles, Printing/ Packaging, HVAC, Roads/ Construction, Chemicals, Soap/ Toiletries, Oil/ Machine tools, Gas Liquefying and many more

Why SASG Chillers

- Energy efficient
- Low maintenance cost
- Anti freeze protection at low temperature
- Micro processors based control system
- Eco friendly refrigerant R-22, R-407A, R-407C, R-410 and R-134A
- Suitable for different industrial Applications in extreme tropical environment conditions
- More reliable and highly durable multi circuit is available in one package
- Electronics Expansion valves for regulating the flow of refrigerant as per the load



Scroll Chiller

Air Cooled & Water Cooled

SASG is pioneer in manufacturing of scroll chiller. The industrial scroll chiller system operates through three interrelated system: Refrigerant circulation system, water circulation system & electrical control system.

While designing the scroll chillers, we follow the design principles as per the international standards and manufacture with the latest modern techniques to have robust machines.

We promote a large range of scroll type of chiller. SASG scroll chiller, which are equipped with multiple Hermetic scroll compressor, are idea for various load Application like Industrial and commercial.

These chillers are manufactures at SASG's own ISO certified factory.

Our Unique Feature

- Multiple scroll compressor
- Fully factory charged and pre-wired
- Microprocessor control panel
- Temperature range (+40) to (-35°C)
- Refrigerant: R-22/R-407A/R-407C/R-410
- Highly energy efficient with scroll-based compression system.
- Energy efficient air cooled / water cooled type compact chillers.
- Compact design gives the advantage of space requirement.
- Cooling capacity 2 TR to 120 TR
- Compressor ON/OFF cycle control
- User friendly screen for user.
- Use of multiple proportional integral Derivative (PID) Temperature control loops ensure consistent reliability, stability and efficient operation.
- Process Supply water above high temperature alarm set point.
- Low noise and highly durable system due to fewer moving parts in the compressor.
- Packaged design makes it extremely plug and play to install.
- 15% power saving by scroll technology.



Brine/Glycol Chiller

Owing to our capability in this space, we are occupied in offering our customer efficient Brine Chiller. We just utilize High review crude material and the most recent technology while producing this chiller.

We use glycol at low temperature to bring up to operating temperature at (-50°C).

These are available in both Air cooled and water-cooled system.

Our Brine chiller are furnished with a special managing component permitting continuous smooth operation.

Our Unique Features

- * Energy efficient
- * Incorporated with modern technology
- * Compact
- * Long lasting
- * Rugged Design
- * Available with different refrigerants
- * Microprocessor based controller.



Screw Chiller

The screw compressor is almost exactly as it sounds. There are two screw (male & female) in a screw compressor that are fitted together in a stationary housing. SASG Screw chillers are the world's most energy efficient chiller. SASG Screw chillers are world's most efficient with the reliable European Screw compressor which are tested as per ARI standards. The condenser and evaporator designed and fabricated in-house -are uniquely designed for high fluid flow. The SASG Screw chiller are equipped with effective capacity control, provide excellent efficiency under part load making them for various load application such as Industrial & commercial.

SASG offer a wide range of water cooled, flooded & DX-screw chiller with an environment friendly R134a refrigerant.

Silent Feature

- Temperature range (+40 to -40°C)
- Wide range 30 TR to 1000 TR
- Advance microprocessor control panels.
- Environment-friendly R-134a refrigerant
- Electronic expansion valve for precise capacity control.
- Step less capacity control (25 to 100%)
- Air cooled / Water Cooled type
- The capacity of screw chiller varies exactly as per the fluctuating load condition.
- Data logging, Remote operator and controlling.
- Synchronizing with the centralized system to have easy to operation.
- Refrigerant R134A/ R-22/R407C/R404A.
- Helical Screw Design for part load performance.
- Small unit size factory wired, easy lifting, easy startup logic.
- Stainless steel Brazed PHE with option of shell & tube type evaporator designed for High surface area.
- Flow switch is used to detect flow loss for safety of evaporator when return water flow is low.
- Shell & tube type water cooled condenser for Indian ambient condition with externally finned copper tube
- Only four moving part when compared to reciprocating compressor.
- Latest Heat transfer technology result in increased Heat exchanger efficiency.
- Step-less capacity control as per load.
- Anti freeze protection for safe operation at low temperature.
- Use of multiple proportional Integral Derivative (PID) Temperature control loop ensure consistent reliability stability and efficient operation.
- Full screen display a simplified view of chiller
- Controls and maintain stable and reliable operation of the chiller through use of extensive array of sensors, actuators, relays switches.
- * User friendly screen for users
- * Sight glass indicates the status of dry or moisture system.
- * Pressure switches protects the compressor against low & high pressure
- * Removable cartridge type filter dryers to ensure moisture free system.



Variable Speed Chiller

SASG offer a wide range of variable speed chiller with highly efficient semi Hermetic compressor and environment friendly R-410 Refrigerant. These chiller are most Reliable and highly energy efficient which provide fastest ROI.

Using chiller with variable speed system is a proven way to optimize energy utilization at full level and part level as well as under design and after design condition at varying ambient temperatures.

Skilled and specially trained engineers are employed for proper and timely service support of these chillers.

Variable speed scroll chiller capacity range

- Air cooled – 4TR to 60 TR
- Water cooled – 5TR to 90TR
- Temperature range (+25oC) to 0oC

Variable speed screw chiller capacity range

- Air-cooled – 25 TR to 300 TR
- Water cooled – 30 TR to 375 TR
- Temperature range +30oC to (-35oC)

Our unique features:

- Compact screw / scroll compressor for superior efficiency and part load performance.
- Fastest ROI
- Efficient evaporator & condenser with extra transfer surface area.
- Low noise , compact foot print for ease of installation and maintenance.
- Highly efficient.



Ammonia Chiller

SASG offers Ammonia chiller in compact design and skid mounted chiller for wide range of temperature. SASG ammonia chiller used in different industry, like in Milk, Beverages, Cold storage, Dairy, Chemical, Food processing, Pharmaceuticals, HVAC, Plastic and Gases based plant.

Ammonia is opted for this operation because it reduce the environment impact this is detailed with precision to offer low running cost and widest possibility of choice. Customer can avail the machine as per their specification.

Our unique features:

- Temperature range up to -35oC
- Factory manufactured & tested flooded evaporators
- High efficiency
- Low running cost
- Eco friendly refrigerant NH3 with zero ODP and zero GWP



Reciprocating Chiller

As an exporter, supplier and manufacturer of Reciprocating chiller, we are offering high quality water cooled and Air cooled Recip chiller to various applications. We make all the equipment using good quality insulated liquid cooler, condenser and all that. Each compressor equipment is of international quality standard, ensuring long functional life, strong wear resistance, low maintenance cost. Our chillers are used in various industries such as plastic, Pharma, Printing, Foaming etc.

Our unique features:

- Strong design
- Corrosion free
- Leakage proof
- Outstanding reliability
- High efficiency
- Water cooled Recip chiller – 5TR to 500 TR
- Air cooled Recip chiller – 2TR to 300TR
- Temp. range 5°C to -40°C
- Refrigerant R-22/ R-404A/R-410/R-407
- Suitable for any Industrial application



Customized Chiller

Customized chiller is intelligently designed for making it to work as per the requirement. These chillers are manufactured using high grade material and all safety equipment. These chillers are developed under strict observation of quality management department. These are different -different application & industry where a standard chilling plant may not solve the purpose. These such type of application demand chiller as per their requirement.

We are serving milk chiller, Beverage chiller, Medical equipment chiller, Gas liquefaction chiller, Fuel Temp. Chiller, Oil Chiller, Batching chiller, energy efficient chiller etc. which needs to be customized as per process requirement.

Unique Feature:

- | | |
|---|---|
| <ul style="list-style-type: none"> • Capacity 2TR to 1200TR • Temperature Range: +30 to (-35°C) • Gas – R-22/404A/134A/407C/NH3 • Highly efficient • Wide range of capacity • Eco friendly • Available in multiple circuit | <ul style="list-style-type: none"> • Eco friendly • Available in multiple circuit • Customized solution • Best Automation • Compact in design • Reliable • Suitable for negative application temperature |
|---|---|



Air Chiller

SASG offer Air chiller for such type of industry where chilled Air required as per process requirement. It has been manufacturing a wide range of scroll and screw Air Chillers.

Bases on its continued thrust for research and product development SASG has launched a new 5 star model for saving power. These chiller provide application versatility, energy efficiency, control precision, reliability, Ease of installation and operational cost effective. Air chiller are used for flow of chilled air for specific application like plastic blown film plant.

Our unique feature:

- Refrigerant R-22/407C/134A/410A
- Temperature Rang +30°C to 4°C
- Compact in design
- High energy efficient
- No need of chilled water to chilled air
- DX type system
- Available with 5 Star model
- Heating & cooling option are available
- Low maintenance
- Upgraded safety feature
- Screw/ Scroll/ Semi Hermetic/Open type Available
- Air cooled / Water cooled are available
- Multiple circuit- 100 independent circuits



Offset Fountain Chilling and Circulating Unit

Our unique features:

- Compact in design.
- Constant stability of foundation solution during the printing.
- Constant temperature as per requirement of the job.
- SASG fountain chillers are suitable for new offset press and retro fit-too.
- SASG chillers are need less alcohol consumption
- The tank capacity of chillers 30 ltrs to 100 ltrs.
- SASG fountain chillers contains Re circulating unit.
- Premixing and flow control unit.
- Special filters with easy to replace membrane, digital temperature indicator.
- SS fountain tank and removable tank covers for easy cleaning.
- Drain valve for discharge through pipe.
- Self lock type S S covers.



Batching Plant Chiller

Batching Plant chiller are customized for concrete mixing and cooling applications with 5°C and 1°C chilled water temperatures, as per the process requirement. The chillers are designed to operate at highly dusty batching sites, within extreme weather conditions, working directly under sun and shower. The major components in the refrigeration circuits are chosen or designed as per the available site conditions and utilities

Silent Feature

- Environment friendly, energy efficient and operation friendly refrigerant R-404A / R-134a/R-22 available
- 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 55°C
- Monocoque skid design for extra ruggedness and reliability for mobile operation
- Customized design for the lowest possible temperatures of water, with or without energy reservoir
- 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
- Highly reliable reciprocating and screw compressors of European origin
- Stepped and steeples capacity control from 25% to 100%
- Complete turnkey solutions providing ice-water upto the mixing area



Pharmaceutical Chiller

Chemical / pharmaceutical chillers are customized chiller using for chemical cooling purpose with the temperature of -45°C to 10°C chilled water / glycol temperature as per process requirement. These chillers are designed to operate at high duty load and extreme environment condition.

It can work directly under sun and shower the major components in the refrigeration circuit are chosen or designed as per the available site conditions

Our unique features:

- Environment friendly, energy efficient and operation friendly refrigerant R-404A / R-134a/R-410a/R-407C, available
- Designed to produce ice-water within extreme weather conditions of up to 55°C
- Monocoque skid design for extra ruggedness and reliability for mobile operation
- Customized design for the lowest possible temperatures of water, with or without energy reservoir
- 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
- Highly reliable reciprocating and screw compressors of European origin
- Stepped and stepless capacity control from 25% to 100%
- SS fin & tube type & Shell & tube type Evaporators are also used as per customer Requirement.
- SS Shell & Tube type Condenser are also available.



Milk Chiller

Our unique features:

SASG make air cooled scroll chiller is more efficient and easier to operate and maintain.

These chillers comprise of DX cooler, air cooled condenser with fan and multiple scroll compressor.

- Pre-coated condenser coil with low noise fans.
- Efficient DX type evaporator.
- Advance scroll compressor technology for longer compressor life.
- Suitable for high ambient condition and thermal storage application.
- Less maintenance, compact foot print for easy of installation.
- Cooling Capacity = 2 TR to 100 TR
- Temperature range = +40 to (-30°C)
- Robust design for minimum down time for maintenance.
- Blue coated fin in condenser to avoid corrosion.
- The air cooled condenser are designed and tested as per the extreme weather condition of the areas.



Food Processing Chiller

Our unique features:

SASG make water cooled scroll chiller have itself 20% more cooling capacity. Wherever water can be provided, SASG water cooled scroll chiller offer higher efficiency than air cooled system as water is a superior cooling medium component to air. These chiller comprise of cooler, multiple hermetic, Scroll compressor and shell & tube type condenser, water cooled system consume lower power as compared to air cooled system.

- Cooling capacity 5TR to 120TR
- Temperature range - +40 to [-35°C]
- Advance scroll compressor technology for longer compressor life.
- Flexibility in operation.
- Multiple scroll compressor
- Large surface area in condenser
- Compact in design
- Less space required, suitable anywhere
- Higher efficiency
- Less Noisy, longer operating life
- Water cooled condenser are designed on higher fouling factor to compensate for high TDS cooling water



Cold Room

SASG units are manufactured at the state-of-the-art manufacturing facilities using the modern techniques and tools for uncompromised and consistent performance.

We manufactured world class indoor and outdoor units those are used in many applications like milk, Curd, Ice Cream, Banana, Apple, Potato, Peas, Butter, Chemical storage and many more other applications with suitable temperature requirement. The cooling units are designed using the European software assuring energy efficient design. The units are available in stainless steel and mild steel options.

Our unique features:

- Refrigerants: R-22, 407c, 134a, 404a, Ammonia etc.
- Capacity: 3 KW to 90 KW
- Air Volume: 4000CFM to 68000CFM
- Rust proof units with the stainless-steel coils
- European Design coils for Best-in-class performance
- High testing pressure of 320 psig
- Easy maintenance with removable panels
- Easy to work in cold room.
- Internal wired units with terminal boxes for easy & fast connections
- Protection from dust & moisture with totally enclosed axial fan motors
- Defrosting System comprising of water spray header with nozzles option available
- Evaporating Temperature: +5 to -40oC
- Fin Spacing: 4 Fins per inch
- Less space occupancy.



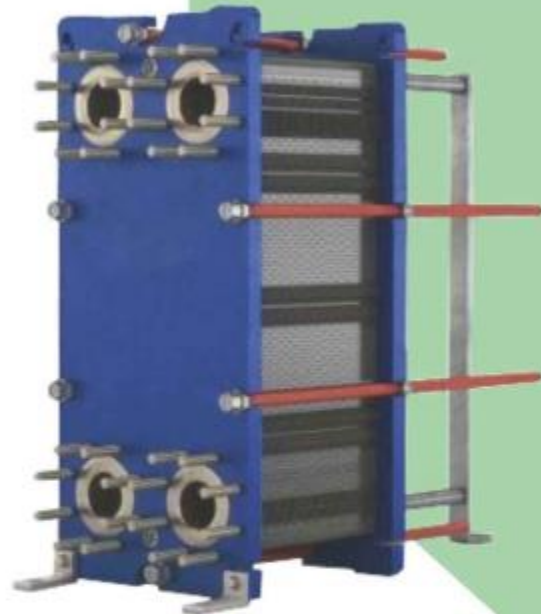
Plate Heat Exchanger

SASG Manufacture world class heat exchangers for various applications like: - Foaming chemical Cooling, Milk chilling, Chemical cooling Etc.

In the same we Use Italian Plates of Reputed Make.

Our unique features:

- Highly compact design
- Maximum Test Temperature with specified gaskets: 80°C
- Better Performance
- Easy maintenance with openable frame
- Testing Pressure of Heat Exchangers 7.8 kg/cm²
- Design Pressure of Heat Exchanger 6 kg/cm²
- Design temperature is 50°C



Some of our Valued Clients...



Other Sales & Service Offices in India

1. AHMEDABAD
2. KOLKATA
3. HYDERDABAD
4. BANGLORE
5. MUMBAI
6. LUDHIANA
7. CHANDIGARH
8. INDORE
9. JAIPUR
10. DELHI

Offices in Abroad

1. BANGLADESH
2. KENYA
3. CHINA
4. DUBAI
5. SINGAPORE
6. SHRILANKA



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