

Product Processing Equipment



① | ②
③

- ① World Advanced Large Torque Rotor Machining Center
- ② World Advanced Micron Grinding Machining Center
- ③ World Top Coordinate Boring Machine Body Casting Precision Center

Testing Equipment



① | ②
③

- ① International Top Three-coordinate Testing Center
- ② Rotor Meshing Center of Micron Compressor
- ③ Dynamic Balance Testing Center for Rotor of Aviation Compressor

Testing Equipment



① | ②
③

- ① Compressor Performance Test Center
- ② International Cloud Compressor Performance Test Center
- ③ O exposure, high pressure helium Precision Testing Center

Quality Control



First class processing equipment and advanced manufacturing technology
Strict manufacturing management standards and professional Staff Training

At the same time, SRM's technical experience of more than 100 years has been fully applied in the production of snowman. It provides the best compressor of the world.



Product Line



Snowkey Brand & Story

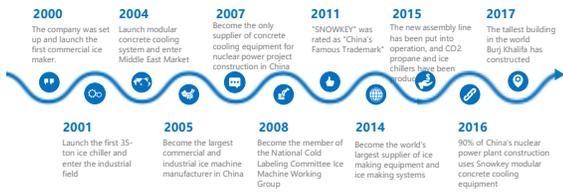
02

PART TWO

Development of Snowkey Brand



Leader of International Ice Making Industry
Committed to provide high-quality products and advanced solutions to customers. Helping customers to save energy and reduce emission and promote sustainable development.



Product Display

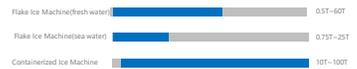
Snowkey Flake Ice Machine

capacity: 0.5T~60T per day

Designed and manufactured under the pressure vessel standard thus making this product durable, safe and reliable.
CE(PED) ASME certified, high quality level
Optimized system design ensures the machine work stably with a low failure rate;
Complete product series to meet different application
High supercooling, dry ice, even thickness and ultra-high output
Environment friendly refrigerant achieves environment protection and energy efficiency;
Unattended operation;
Optimized layout to make perfect;
Complete product series to meet different application.



Capacity



Product Display

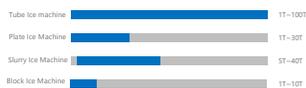
Snowkey Tube Ice Machine

Capacity: 1T~100T per day

Efficient heat transfer tubes are adopted to optimize the design of the refrigeration system, contributing to stable operation and few failures;
Environment friendly refrigerant achieves environment protection and energy efficiency;
Complete product series to meet different application;
Designed and manufactured under the pressure vessel standard, thus making this product durable, safe and reliable;
CE(PED) ASME certified, high quality level;
All components contact with ice are made of high-quality stainless steel to meet safety and hygiene standards.



Capacity



Product Display

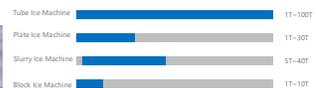
Snowkey Plate Ice Machine

Capacity: 1T~30T per day

The ice thickness is adjustable from3-20mm to meet different application occasions
Special flow channel design, compared with similar products, higher ice making efficiency, more energy saving.
Hot gas ice peeling, faster ice harvest, a secondary pollution
Unattended operation;
All components contact with ice are made of high-quality stainless steel to meet safety and hygiene standards;
Special water system design;
Simplified structure, less moving parts and convenient maintenance;
Operable evaporator design and ice making plate.



Production Chart



Product Display

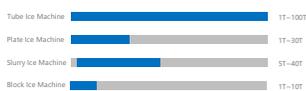
Snowkey Block Ice Machine

Capacity: 1T~10T per day

ISO standard container, easy to move;
Special evaporator coil structure, efficient heat exchange;
No need plant construction, small footprint;
Two-track ice-carrying crane with large load capacity is more stable and reliable. The ice-making brine tank is made of imported special galvanized plate, resistant to corrosion, long life;
Thick epoxy paint at the bottom of the working face, waterproof and corrosion resistant;
Large-size ice machine can be customized.



Capacity



Product Display

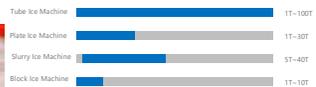
Snowkey Slurry Ice Machine

Capacity: 5T~40T per day

Semi-closed ice maker with good visibility, easy to adjust, clean and maintain;
Designed and manufactured under the pressure vessel standard thus making this product durable, safe and reliable;
The ice maker is not easy to freeze stuck by adopting unique operating technology with high reliability;
Compared with similar products of other companies, the evaporation temperature is higher, the efficiency is higher, and the energy-saving is big;
The whole machine is designed with corrosion-resistant components, longer service life;
Automatic control, and unattended operation.



Capacity



Product Display



Snowkey Water Chiller

Types: CW, ICW



Falling-film Type Water Chiller (-1°C)
Shell and Tube Type Water Chiller (-1°C)

Falling-film Type Water Chiller Features:
Special refrigeration system and electric system design, ensure stable running in atrocious working condition;
Using world famous brand fittings, ensure the equipment in high quality and easy to do the maintenance;
The products specification model is complete to fulfill the defereent application fields;
Modular Design, ensure the water chiller working high effectively and lower energy consumption.
Shell and Tube Type Water Chiller
Evaporative Condenser with double speed fan;
Evaporator using immersion type heat exchange pipe, with air aglation system, having high freeze- proof property.

Capacity



Product Display



Snowkey Containerized Ice Plant

Capacity: 5T-100T per day



Snowkey containerized plant uses a container as a carrier, which is easy to install and transport to adapt to various harsh working environments. The product can maintain good operation and normal ice production at an ambient temperature of 5 ° C ~ 40 ° C. Specially designed models operate under the toughest conditions (-30°C to 60°C).

Snowkey container is ice making plant. The temperature in the container is constant and is not affected by the outside. Each component used is tested before use.

Snowkey container is ice making plant with an optimized design, which ensures the continuous operation without energy waste.



Product Display



Snowkey Complete Ice System



Over the years, Snowkey has provided numerous solutions around the world, continuously improving energy utilization and environmental protection, and providing users with higher value-added services, which has always been our goal.



Product Display

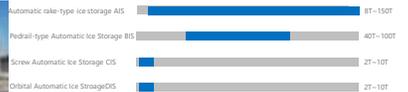


Snowkey Automatic Ice Storage

Type: AIS, BIS, CIS, DIS



Capacity



Store the ice produced from ice machine. If large amount of ice required for the ice destination in short time, the ice storage can deliver ice automatically. During ice storing, the ice raking mechanism will level up the ice from the ice machine. When the ice gets to the storage upper limit, the electrical control system will stop the ice machine automatically. Only when the ice level is lower, can the ice machine start again automatically. storage capacity from 18 ton to 200ton. 20' and 40' containerized ice storage and factory preassembled combined type ice storage is easy to transport by truck, railway or ship, suitable for remote area or moving frequently required situation.

Product Display



Snowkey Aggregate Air Cooling System



Modular design for easy on-site installation and revitalization
Standard ISO 40 container with built-in reliable cooling and control system for extreme conditions;
Using the world famous Refcomp compressor which equipped with stepless regulation And the system equipped with efficient heat exchanger for the best energy efficiency during operation;
The air-cooled fan adopts frequency conversion control for energy-saving, which can adjust the speed according to working conditions;
Fully automatic control system with complete protection and convenient one-button operation;
Multiple sets can be equipped with adjustment system, which can automatically adjust the equipment use according to output and temperature requirements, intelligent, flexible and energy saving.
The system passes the test before leaving the factory to reduce on-site commissioning time.



Product Display



Product Display



Snowkey evaporative condenser



SEC series evaporative condenser

The SEC series evaporative condenser employs top installation of axial fan and secondary PVC heat transfer filler. It is the most efficient heat transfer equipment in all series.

The whole evaporative cooling equipment is relatively large in size, and is generally used in chemical industry, steel, coal, medicine, food processing, beer, etc.



SLC series evaporative condenser

The centrifugal fan driven by belt is used to blast from the side of the equipment, which has the characteristics of low noise, low height and transportation.

The side drive part can be easily maintained from the outside, and there are repair holes on the side of the box body, which makes internal maintenance easy. This series is the most convenient to maintain in several series.



SVC series evaporative condenser

The centrifugal fan is installed at the bottom of the equipment and integrated with the water pan. With the belt drive system, the noise is very small.

The centrifugal fan is suitable for indoor installation. The series of evaporative cooling can and convenient maintenance.

Product Display



SRMTEC OPEN TYPE



SRM Open-type Single-stage screw compressor

SRM Open-type Single-stage Screw Compressors include 6 series totaling 19 models. Displacement 265-1080cm³/h(2600RPM). Discharge temperature -45°C +25°C, applicable for natural and environmental-friendly refrigerants such as R17, R404A, R507A, etc. Stepped (70%-100%) capacity control, intelligent controller with accurate selection and rapid response to ensure to operate in high-LEE under different working conditions. The design obliquity > 30°, which is also applicable to the refrigeration systems on the marine units.

SRH Open-type High-pressure screw compressor

SRH Series Open-type High-pressure Screw Compressors include 7 series totaling 14 models, displacement 25-277cm³/h(290RPM), designed pressure 6.3Mpa. The high pressure design of the compressor can be applied to high-temp heat pump with NH₃, also applicable for CO₂/NH₃ cascade refrigeration system for the low-temp refrigeration.

SRM Open-type Two-stage Screw Compressor

SRM Open-type Two-stage Screw Compact Compressors include 4 series totaling 12 models. Displacement 544-5084cm³/h(260RPM), designed pressure 2.8 Mpa, the designed obliquity of the compressor > 30°, applicable for marine refrigeration. Applicable for the natural and environment-friendly refrigerants such as R171, R404A, R507A, etc.

Product Display



SEMI-HERMATIC



SRS Semi-hermetic Single-stage Screw Compressor

SRS Semi hermetic Single-stage Screw Compressors include 20 models, displacement 85-850cm³/h, designed pressure 2.8Mpa, applicable for R171 Compact structure, easy maintenance, low vibration and noise, zero leak of refrigerant. The compressor is packaged with the permanent magnet synchronous variable frequency motor, which regulates the rotor speed to improve the operation efficiency of the compressor.

SRS Semi-hermetic Two-stage Screw Compressor

SRS Semi hermetic Two-stage Screw Compact Compressors include 5 models, displacement 141-632m³/h(50Hz). Compact structure, easy maintenance, low vibration and noise, zero leak of refrigerant. The compressor is applicable for R171-VI can be controlled to ensure high-efficiency operation under different working conditions.

Product Display



SRMTEC Open Type Screw Compressor Unit



Open-type Single-stage Screw Compressor Unit

SRM Open-type Single-stage Screw Compressor Units include 5 series totaling 16 models. These series are developed on the standards of high reliability and high energy efficiency. They could be packaged with variable frequency motor, applicable for R171, R404A, and R507A.

The standard scope of supply: compressor, open-type motor, control center, oil separator, economizer, high-capacity filter, pre-lubricating oil pump, automation components, valves, etc.

Open-type Two-stage Screw Compressor Unit

SRM Open-type Two-stage Screw Compact Compressor Unit include 4 series totaling 12 models. Two consecutive compressions are achieved through the two-stage compressor, which is especially applicable for the large compression ratio working condition. The unit can be packaged with the variable frequency motor to improve the operation efficiency when the load changes. Applicable for R171, R404A, and R507A.

The standard scope of supply: Compressor, open-type motor, control center, oil separator, intercooler, oil cooler, high-capacity filter, pre-lubricating oil pump, automation components, etc.

Product Display



SRS Semi-hermetic Single-stage Screw Compressor Unit



SRS Semi-hermetic Single-stage Screw Compressor Unit

SRS Semi-hermetic Single-stage Screw Compressor Units include 14 series. Semi-hermetic Single-stage Screw Compressor is used, applicable for R171, R404A, R507A, R407R, wide application scenarios.

The standard scope of supply: compressor, variable frequency converter for R171, converters for other refrigerants are available, control center, oil separator, economizer (based on working conditions), oil cooler, oil filter, suction filter, automation components, etc.

SRS Semi-hermetic Two-stage Compact Screw Compressor Unit



SRS Semi-hermetic Two-stage Compact Screw Compressor Unit

SRS Semi-hermetic Two-stage Screw Compact Compressor Units include 5 models. Semi-hermetic two-stage screw compressor is used, free of loss and wide application. The unit can be packaged with the variable frequency motor to improve the operation efficiency when the load changes. Applicable for multiple natural refrigerants such as R171, R22, and R507A.

The standard scope of supply: semi-hermetic screw compressor, control center, oil separator, intercooler, oil cooler, high-capacity filter, automation components, etc.

Product Display



Open Type Screw Water Chiller



CW Series Open Type Screw Water Chiller

On the basis of SRMTEC open-type screw compressor, Snowman optimized its design, introducing open-type water chiller series. The refrigeration solutions under high-temp, med-temp and low-temp working conditions are thus provided. With its easy operation and safe and reliable running, the series can be applied in various scenarios such as industries in petroleum, chemical engineering, coal, medicine, fishery, commerce, food, scientific research, etc.

The standard scope of supply: SRM open-type screw compressor, oil separator, oil cooler, evaporator, condenser, metering device, oil pump, oil filter, dry filter, valves, etc.

Process gas unit



Process gas unit

With rich design experience, the snowman has optimized the compressor shaft seal structure and system design to create a compressor unit suitable for process gas compression such as propane, propylene, natural gas and mixed gas. It is widely used in petroleum, chemical and natural gas fields, which provides customers the safest, most efficient and efficient process gas compressor unit.

The standard scope of supply: SRM open-type screw compressor, oil separator, oil cooler, evaporator, condenser, metering device, oil pump, oil filter, dry filter, valves, etc.

Product Display



NATURE NH3/CO2 Secondary Unit



NATURE NH3/CO2 Secondary Unit

Snowman has developed high performance and environmental-friendly NH₃/CO₂ to meet the application requirements of high-temp refrigeration, low-temp refrigeration and quick freezing. NH₃/CO₂ unit take CO₂ as the secondary refrigerant and NH₃ as the primary, forming the composite refrigeration system. This combination not only ensures the environmental safeguarding but also solves the issue of high-charging amount of NH₃ in the traditional systems, which is a safety hazard.

The series includes the design of the automatic control, excellent energy efficiency, high integration, and reliable safety.

Open-type Single-Stage Screw Compressor Unit



The snowman adopts its advanced SRMTEC brand open screw compressor, and introduces a full range of marine open screw compressor units, which can provide refrigeration solutions under various working conditions of high temperature, medium temperature and low temperature. The snowman marine compressor unit operates smoothly in various scenarios such as pre-cooling, freezing, refrigerating and rough processing of fishing vessels, which require artificial refrigeration to provide customers with the most economical, energy-saving, safe and efficient marine compression for it is reliable and stable.

The standard scope of supply: compressor, oil separator, oil cooler, economizer, oil pump, oil filter, dry filter, etc.



Advantage of SRMTec

04

PART FOUR




Special Process of Products



Nodular cast iron of high strength is adopted
It arrives at the highest international standard of ammonia and freon, the design pressure is 2.8MPa.

Forged Steel for Rotors



SRM™ i™ profile
Optimal teeth ratio: 5+7
High efficiency, high strength, low noise, low vibration.



Special Process of Products



The world's original
Energy regulation cylinder explosion-proof equipment



10%~100% step-less capacity control
Independent V1 adjustment of one another,
Accurate positioning,
It is always at the best efficiency point when operating.



Special Process of Products



High accuracy shaft seal
Super wear-resistant seal
Applicable speed arrives at 10000rpm



100,000 hours designed lifetime of bearings
100,000 hours designed lifetime of bearings
The world's most advanced profile



Reference list of SRMTec

05

PART FIVE




Reference list In Europe



1. Spain Dairy project

Project Description
Compressor Package
SRMTec: Model SRM26M, Single stage Screw
Refrigerant: Ammonia

Technical Data
Total Capacity Q1: 1500kw
Tc: -9.5 °C
Energy consp: 299kw
COP: 4.99

Juliusz Federowicz
DICOSTOCK SL
Avenida Valgrande 25, Nave 11
28108 Alcobendas

Reference list In Europe



2. Cold Room

First project in Braunlage, Germany



Reference list In Europe

3.Salmon Industry:
The recent extension of the current piston compressor cooling facility of Salmon company VEGA in Northern Germany



Project Description	
Compressor Package	
Capacity	200000 single stage
Refrigerant	200000 single stage
Refrigerant	200000 2011
Performance Data (kW)	
Capacity 1/10	100 kW
Capacity 1/15	100 kW
Capacity 1/20	100 kW
Capacity 1/25	100 kW
Capacity 1/30	100 kW
Capacity 1/35	100 kW
Capacity 1/40	100 kW
Capacity 1/45	100 kW
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Capacity 1/965	100 kW
Capacity 1/970	100 kW
Capacity 1/975	100 kW
Capacity 1/980	100 kW
Capacity 1/985	100 kW
Capacity 1/990	100 kW
Capacity 1/995	100 kW
Capacity 1/1000	100 kW

Reference list Asia



1.Bushire, Iran, 2017

Meat Cold Room
75.2KW -40/40 °C SRM SAA16S-HALA*2
229.6KW -40/40 °C SRM SAA20L-HALA*3
80.2KW -13/38 °C REFCOMP
NSWH050A*1
10T/D Ice machine SNOWKEY F100S*1



Reference list In Asia



2. Yangon, Myanmar, 2018

Sea Food Processing and Cold Room
193.7KW -45/38 °C SAA2016LS-HALA*1
-SRM two stage compressor
249.6KW -25/38 °C SAA16L-HALA*1
-Single stage compressor



Reference list In India

1. Nasik, India, 2019

IQF System for Corns

Cooling capacity(set) : 344.6KW -47/38 °C SAA2620LS-HALA*3 SRM two stage compressor
Evaporative Condenser: 2940kw +1795kw



Reference list In India

2. Brine chiller system, Hyderabad India



SAA1612LS-VALA x2
Two stage compressor, one working, one standby.
Evaporating temp: -45°C
Cooling capacity: 50TR
Brine water outlet Temp: -40



SAA20S-VALA x13
Single stage compressor.
Evaporating temp: -30°C
Cooling capacity: 100TR
Brine water outlet Temp: -25



Reference list India



3. Flake Ice machine, Vapi

SAA16S-VALA x 1
 Single stage compressor.
 Evaporating temp: - 25°C
 Cooling capacity: 165kw

Reference list In China



1. Sunner Group China

Beef/Pork Processing and Storage, 30000m2 construction area: freezing room, cold storage, and processing workshops.
 15 units of open type compound two stages SRMtec compressor packages;
 10 units of open type single stage compressor packages,
 18 units of low pressure circulation pump;
 Snowkey air cooler, freezer and ice machine.

Reference list In China



NH3/CO2 Brine system

Project Description:

Semi hermetic Compressor packs: SRS1612LS 4 Nos
 Evaporative condenser: SEC-158SC
 Cold Room area: 22,000m2, 18 cold rooms (-18,-25°C)
 Refrigerant: R717
 Secondary: CO2 and Glycol
 Total Cooling capacity: 1.25MW



Site construction pictures



06

PART ONE

Certifications

Certificate



☰ Certificate



☰ Certificate



☰ Snowman Localization



☰ Snowman Localization

