



Sabroe[®] product overview 2027

125 years of new ideas and better technology

We've proved we can repeatedly and consistently meet our customers' needs – regardless of size and complexity, quirkiness or challenge. We listen to where your real difficulties lie and what you really want to achieve. And then, we focus 125 years of specialist experience and know-how on how best to help you achieve it all.



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Sabroe SMC

Reciprocating compressor units

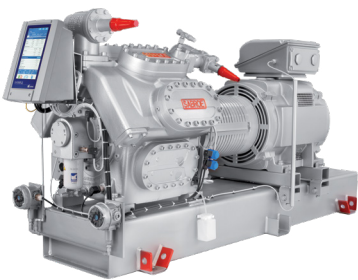


Range
 There are 15 different large, single-stage compressor models available to provide swept volumes of between 200 m³/h and 1,350 m³/h.

Features	Benefits
High coefficient of performance (COP), with excellent performance under part-load conditions	Low power consumption, which greatly reduces operating costs
Variable-speed drive (VSD) provides stepless capacity control over the entire operating range	Power consumption and operating costs kept to a minimum
Condition-based service intervals embedded in the controls equipment	Minimum downtime and low service costs due to extremely long service intervals

Sabroe HPO/HPC/HPX

High-pressure reciprocating compressor units

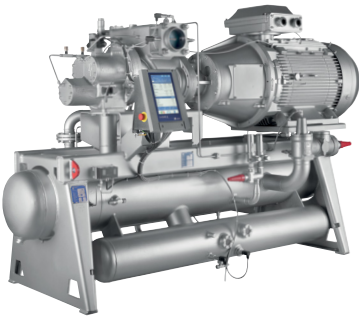


Range
 There are 13 different models available to provide swept volumes of between 100 m³/h and 1,100 m³/h.

Features	Benefits
High coefficient of performance (COP), with excellent performance under part-load conditions	Low power consumption, especially under part-load conditions, greatly reducing operating costs
Variable-speed drive (optional) provides stepless capacity control over the entire operating range	Power consumption and operating costs kept to a minimum
Provides exceptionally high condensing temperatures – up to 90°C	Matches radiator temperature in most domestic/commercial heating systems, making HPO/HPC/HPX units ideal in district heating, for example

Sabroe SAB

Screw compressor units



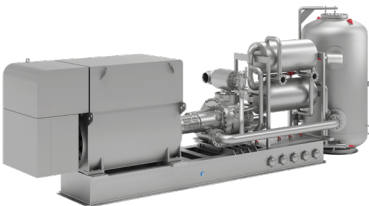
Range

There are 21 different models available to provide swept volumes between 200 m³/h and 11,000 m³/h.

Features	Benefits
Variable-speed drive and stepless capacity control ensures that capacity is always adjusted to suit requirements	Maximum part-load efficiency and lowest possible operating costs
SAB screw compressor units are all equipped with a UniSAB systems controller	More efficient operating profile, less downtime and longer service life
Cold-start valve lubricates the compressor with no oil pump needed	Lower operating costs and less maintenance

Sabroe SAB

High-pressure screw compressor units

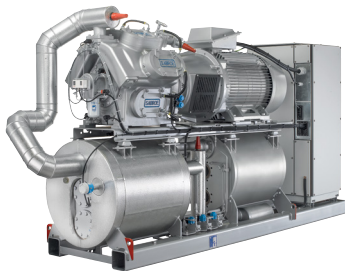


Range

There are six different models available in 40 or 63 bar designs with swept volumes of between 1,200 m³/h and 7,250 m³/h.

Features	Benefits
Newly developed, short and robust rotor profile, specifically for heat pump operation	Large operating area and increased service intervals, minimising total lifecycle cost
Condition-based service schedules, which help improve safety and ensure maximum reliability	Optimised service/ maintenance intervals, minimal unscheduled downtime
Variable-speed drive provides stepless capacity control over the entire operating range	Consistently high performance at both full and part load

Sabroe ChillPAC Chillers

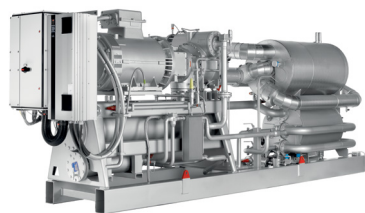


Range

Extremely compact packaged ammonia chillers based on reciprocating compressors. There are 21 different models in the standard ChillPAC range, with capacities ranging from 60 kW to 1,400 kW. Choose between a water-cooled and an air-cooled option. Suitable for outdoor installation.

Features	Benefits
Factory-assembled, pre-tested packaged units based on Sabroe reciprocating compressors, world-renowned for their reliability	Easy pre-commissioning makes installation and running-in both faster and cheaper; factory acceptance test (FAT) available
Exceptionally compact design and fully integrated configuration result in less than half the footprint of bespoke chillers	Major savings on both weight and space, resulting in lower installation costs; much less need for expensive separate machinery rooms
Indirect cooling and uncomplicated flooded evaporating system, using natural ammonia (R-717) only	Greater safety and outstanding reliability

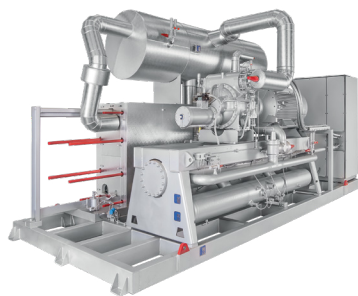
Sabroe ComPAC Chillers



Range
 Packaged ammonia chillers based on screw compressors. There are 13 different standard models with capacities from 300 kW to 2,300 kW – both high- and low-temperature versions.

Features	Benefits
Factory-assembled, pre-tested packaged units based on renowned Sabroe screw compressors	Easy pre-commissioning makes installation and running-in both faster and cheaper; factory acceptance test (FAT) available
Compact design with a very small footprint compared with bespoke chiller designs	Lower unit cost and lower installation costs
Indirect cooling and uncomplicated flooded evaporating system, using natural ammonia (R-717) only	Major savings on both weight and space; much less need for expensive separate machinery rooms

Sabroe PAC Chillers



Range
 Packaged ammonia chillers based on screw or reciprocating compressors. There are 21 different standard models with capacities ranging from 100 kW to 7,200 kW.

Features	Benefits
Factory-assembled, pre-tested packaged units	Easy pre-commissioning makes installation and running-in both faster and cheaper; factory acceptance test (FAT) available
Comprehensive selection of compressor capacities, making it easier to match particular requirements	Avoid paying for greater capacity than needed
Very easy access for service	Improves safety, ensures maximum reliability and global sourcing of parts

Sabroe HeatPAC

Heat pumps



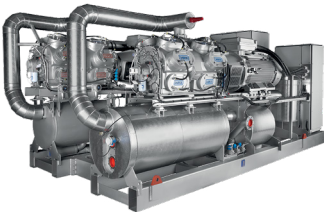
Range

Single-stage, high-pressure, ammonia-based heat pumps with capacities ranging from 300 kW to 2,500 kW. Available with either a cascade or liquid evaporator.

Features	Benefits
Factory-assembled, pre-tested packaged units based on Sabroe reciprocating compressors, world-renowned for their reliability	Easy pre-commissioning makes installation and running-in both faster and cheaper
Integrated configuration weighs less and has less than half the footprint of bespoke heat pump designs	Low installation costs Easy to mount, even in confined spaces or unconventional locations
Exceptional COP and outstanding part-load performance	High energy efficiency and low operating costs

Sabroe DualPAC

Heat pumps



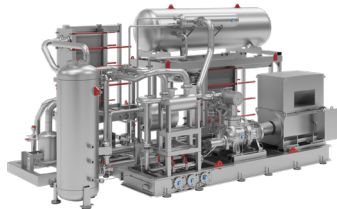
Range

Two-stage ammonia-based heat pumps, combining HeatPAC and ChillPAC units into one single heat pump, with capacities of up to 2,700 kW.

Features	Benefits
Stepless, skip-free capacity control ensures that output always matches requirements	Lowest possible operating costs and maximum return on investment
Consistently high performance at both full and part load	Maximum part-load efficiency and low lifecycle costs
Unique two-stage solution featuring patented, purpose-designed, open inter-stage cooler	Ultra-low refrigerant charge and small footprint

Sabroe HicaHP

Heat pumps



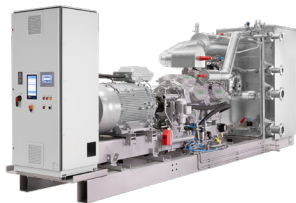
Range

Ammonia-based heat pumps using screw compressors with capacities ranging from 2 MW to 25 MW, delivering up to 95°C. Six different models available.

Features	Benefits
Factory-assembled, pre-tested packaged units, including capacity test	Easy pre-commissioning makes installation and running-in both faster and cheaper
Newly developed, short and robust rotor profile, specifically for heat pump operation	Increased lifetime and service intervals, minimising total lifecycle cost
Condition-based service schedules	Optimised service/ maintenance intervals, minimal unscheduled downtime

Sabroe HitemHP

Heat pumps



Range

Single-stage, low-pressure, hydrocarbon-based heat pumps with capacity range of 100 kW to 1,000 kW and temperatures up to 122°C.

Features	Benefits
Factory-assembled, pre-tested packaged units based on Sabroe reciprocating compressors, world renowned for their reliability	Easy pre-commissioning makes installation and running-in both faster and more cost-efficient.
Compact single-stage configuration weighs less and takes up less space than bespoke and/or two-stage heat pump design	Easy to mount even in confined spaces
Exceptional COP and outstanding part-load performance	High energy efficiency, low operating costs





Digital transformation with OpenBlue

OpenBlue is a complete suite of connected solutions that serves a wide range of spaces from workplaces to schools, hospitals to campuses, warehouses to industrial facilities and beyond. This platform includes tailored, AI-infused service solutions, such as remote diagnostics, predictive maintenance, compliance monitoring, advanced risk assessments and more.

A dynamic new space from Johnson Controls, OpenBlue is how facilities come alive.

The OpenBlue suite now comprises solutions specifically tailored to industrial refrigeration and heating facilities, connecting assets securely and providing a smart new way to manage them.

And Sabroe UniSAB 4 is designed to integrate with OpenBlue – on demand by you.

Sabroe UniSAB 4 Control system



The new generation of the Sabroe integrated systems controller for refrigeration compressors, chillers and heat pumps.

Features	Benefits
UniSAB 4's monitoring, control and diagnostic capabilities combined into one compact unit	Reduces cost of controls and system integration
10.1 in. colour touch screen as user interface	Minimises service time and cost
Footprint and connector system as with UniSAB III	Quick and easy retrofit from UniSAB III to UniSAB 4
Powerful hardware with more inputs and outputs	Providing the flexibility required to meet the increasing demand for sensors and system integration
Secure IoT connectivity	Allows cyber-secure connections with LAN and internet
Mobile-friendly, responsive web pages as user screens	Allows remote monitoring from handheld devices
Supports any industrial refrigeration and industrial heat pump application	Efficiently and cost effectively, UniSAB 4 gives equipment a secure, long life with the highest possible uptime and lowest possible cost of operation



Sabroe CHPPC

Chiller and heat pump plant controller



The shortcut to obtaining full control of uptime, efficiency and lifecycle cost.

Features	Benefits
Advanced and intuitive on-screen configuration	Instant customisation to fit the actual plant design
Pre-engineered, pre-programmed, pre-tested and fully documented electrical control panel with all inputs and outputs internally wired and connected to user terminals	Provides significant savings in time and costs related to designing, programming, documenting, installing and commissioning customised plants

Sabroe

Package Panels

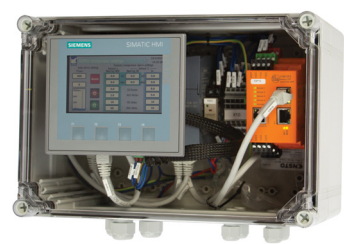


Electrical panel solutions for refrigeration compressor units with variable- or fixed-speed drive.

Features	Benefits
Competitively priced electrical panels	Shaves off a major part of the hours normally allocated to electrical engineering, design, documentation, installation and commissioning
Contains everything needed for easy, compliant integration into the overall power supply and control system	Brings down the lifecycle cost of the compressor unit as a whole

Sabroe SVM

Vibration monitoring system



Automatic vibration monitoring system for Sabroe screw compressors.

Features	Benefits
SVM receives motor speed data from the variable-speed drive, enabling SVM to ignore normal lobe passing frequencies and only look for damaging frequencies	Suppresses misleading signals, avoiding false alarms and shutdowns
Constant monitoring of bearing vibration development ensures the best possible preventive monitoring of bearing conditions	The standard recommended six-month vibration analysis, using the Sabroe VibraGuard tool, is no longer required

Sabroe

Customised solutions



We partner with our customers to design solutions that meet their specific operating requirements.

Features	Benefits
Multiple configurations, many options, maximum capabilities	Easy pre-commissioning makes installation and running-in both faster and cheaper
Factory-assembled and pre-tested packaged units based on Sabroe reciprocating and screw compressors	Great flexibility throughout ensures product quality and appropriate technical compliance, as well as on-time, on-spec delivery
Compliance with special design codes and national technical requirements	Easy access for service improves safety, ensures maximum reliability and global sourcing of parts

Sabroe heat exchangers

Condensers, evaporators, oil coolers and desuperheaters



Range

Nine different models for the common functions in a refrigeration and heat pump system with capacities ranging from 50 kW to 10,000 kW.

Features	Benefits
Optional integrated liquid separator for evaporators	An external liquid separator is not needed, and the overall footprint of the installation is reduced
Different tube patterns	Various configurations of tube patterns accommodate different system designs
Configurable with multiple passes on the brine side	Various configurations of tube patterns accommodate different flow and capacity ratios

Sabroe ECSQ Cascade Heat Exchanger

Heat exchangers



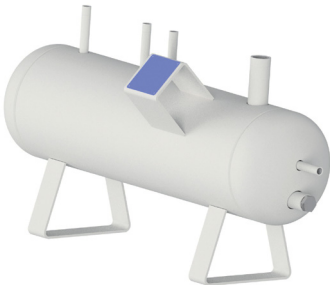
Range

The ECSQ Cascade Heat Exchanger is available in more than 100 different configurations.

Features	Benefits
Integrated liquid separator on the evaporating shell side	Eliminates the need for a conventional liquid separator and reduces the overall footprint of the installation
Optional double-tube-plate	Leakage protection and leakage detection
Calculation and product selection via Sabroe sales tools	Simplified product selection and evaluation of thermal performance in part-load condition

Sabroe vessels

Receivers, separators, economisers and general pressure vessels

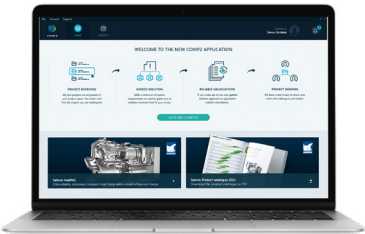


Dedicated heat exchanger and vessel production facility.

Features	Benefits
In-house design department	We can approve and produce vessels based on customer designs
Dedicated heat exchanger and vessel factory	We can produce units with shell diameters up to 2,400 mm

Sabroe sales tools – COMP2

for configuration of Sabroe products



More than 40 years of experience in designing and developing best-in-class thermodynamic configuration tools.

Features	Benefits
Overview of Sabroe products	Easy configuration of Sabroe products
Focus on energy efficiency	Performance evaluation in multiple conditions
Continuously updated based on data from our R&D and End-of-Line test centres	Trustworthy calculations aligned with real-world performance

AfterMarket Solutions

The AfterMarket Solutions (AMS) facility is the overhaul, repair, re-manufacturing and stock centre for the industrial refrigeration companies of Johnson Controls throughout the world.

AMS makes it easy to significantly extend your Sabroe equipment's service life, minimise downtime and reduce the operating costs of refrigeration installations. It does this by replacing worn compressor blocks or getting existing blocks overhauled or repaired – causing minimum inconvenience and service interruption.

Attractive retrofit options are also available.

www.sabroe.com/services-and-support/aftermarket-solutions



Industrial Refrigeration Parts Centre

The Industrial Refrigeration Parts Centre provides round-the-clock aftermarket support services that enable both owners and providers of Sabroe equipment all over the world to maximise their return on investment and ensure the long-term efficiency and stability of their operations.

Making the most of an effective worldwide logistics infrastructure and rapid response inventory management, the centre dispatches any part, anywhere in the world, within just 24 hours (if the part is in stock).



<https://www.sabroe.com/services-and-support/parts>



Sabroe End-of-Line Test Centre

Complete satisfaction – no surprises

Not only are Sabroe systems at the forefront of industrial refrigeration technology, but state-of-the-art facilities also back them for pre-delivery and pre-commissioning testing.

We rigorously test the performance of every chiller and heat pump before it leaves the factory, so you can be 100% sure it lives up to your expectations when it arrives. You're entitled to expect complete transparency and we ensure Sabroe systems deliver.

Testing in the factory, not on site

The unique Sabroe End-of-Line (EOL) Test Centre, located in Denmark, is a purpose-built facility comprehensively equipped with state-of-the-art monitoring and testing equipment.

We can conduct a comprehensive range of tests, ranging from a full-blown factory acceptance test (FAT) to any specific test package you may prefer. You and your staff are welcome to witness every stage of testing and trial runs to make certain everything performs as intended, with no unwelcome surprises.

Customer confidence is always our priority

Our customers are our community. We work every day to keep their trust and support their environments, so they succeed. Our rigorous engineering and testing enable consistently safe, reliable and high-performing solutions. When our customers are confident, we are successful.

With a long history of product innovation, we always move forward with a focus on leading our customers to greener, safer and more profitable solutions. We deliver the heart of our customers' processes and take our role seriously – from supporting the world's healthy food supply to the energy that fuels our world.

We drive positive changes in the industries we serve as the world champions green cooling and heating solutions, offering supreme flexibility and relentless quality.



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Download the Sabroe
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About Johnson Controls

Johnson Controls, a global leader in thermal management, mission-critical building systems, energy efficiency, and decarbonization, helps customers use energy more productively, reduce carbon emissions, and operate with the precision and resilience required in rapidly expanding industries such as data centers, healthcare, pharmaceuticals, advanced manufacturing, and higher education.

For more than 140 years, Johnson Controls has delivered performance where it really matters. Backed by advanced technology, lifecycle services and an industry-leading field organization, we elevate customer performance, turn goals into real-world results and help move society forward.

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The power behind **your mission**