

SABROE SABflex screw compressor units

Small screw compressor units with swept volumes of 160–950 m³/h

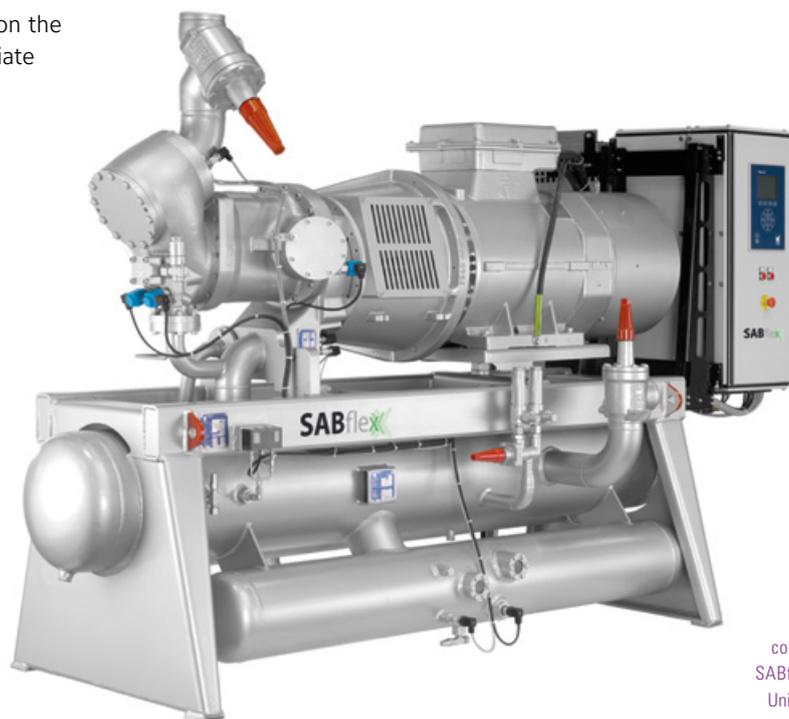
SABROE SABflex screw compressors are specially designed for installations where the requirements for refrigeration capacity vary over time. These smaller-size units are optimised to ensure exceptional part-load performance as well as the best possible energy efficiency.

Everything about these units is configured for use with variable-speed drive (VSD), doing away with the traditional capacity slide and ensuring skip-free performance across the entire 1,000–6,000 rpm capacity range.

The VSD drive can be mounted on the unit, or separately in an appropriate switchboard room.

Range

SABflex units are available to provide swept volumes of 160–950 m³/h at 6000 rpm using a high-speed motor, or 160–570 m³/h at 3600 rpm using a standard motor.



SABflex screw compressor unit with SABflex VSD panel and Unisab III as standard

Advantages

Benefits

Stepless, skip-free capacity control ensures that output always matches requirements

Lowest possible operating costs and rapid return on investment

Consistently high performance at both full and part load

Maximum part-load efficiency and low life cycle costs

Uncomplicated design with fewer moving parts and very low vibration

Exceptional reliability and low maintenance costs

Supports Condition Based Service (CBS) schedules and the SABROE Block Swap Concept

Optimised service/maintenance intervals, and unscheduled downtime minimised

Standardised electrical panel and drive line, factory tested prior to delivery

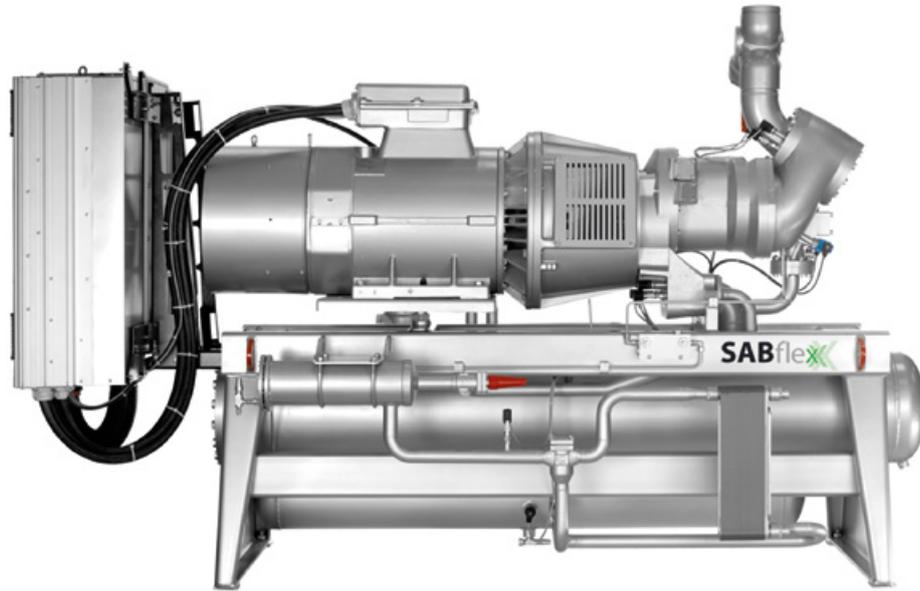
Rapid commissioning and maximum in-service reliability



Options

- Thermosyphon and water-cooled oil coolers, with 3-way oil temperature control valve
- Demand oil pump – controlled by Unisab III systems controller
- Dual Super-filter oil filters
- Complete economiser system.

Only for use with ammonia (R717) as refrigerant.



SABflex screw
compressor unit

Model	Swept volume at 3600 rpm m ³ /h	Swept volume at 6000 rpm m ³ /h	Nominal capacities in kW for R717			Unit dimensions in mm L x W x H	Weight excluding motor/oil kg	Sound pressure level at 3600 rpm dB(A)	Sound pressure level at 6000 rpm dB(A)
			High stage -10/+35°C	Booster -40/-10°C	With economiser -40/+35°C				
SABflex	570	950	592	187	173	3250 x 1450 x 2100	2200	83	89

Sound pressure levels in free field, over reflecting plane and one metre distance from the unit.