

Sabroe SAB screw compressor units

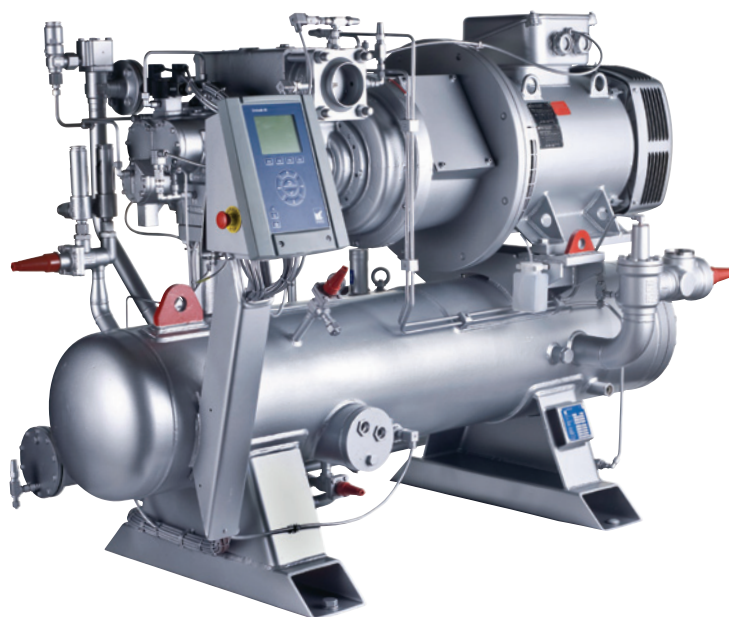
Small single-stage compressors with swept volumes of 200–850 m³/h

Sabroe SAB screw compressors are designed and configured to tackle smaller-scale industrial refrigeration requirements where a combination of exceptional reliability, high performance and low operating costs is essential.

These small units can be used with all the most common refrigerants and process gases, and all the components are selected for good accessibility and ease of service, ensuring cost-effective maintenance.

Range

Eight different models are available to provide swept volumes of 204–847 m³/h at 3000 rpm.



SAB 120 screw compressor unit with Unisab III systems controller

Advantages

Benefits

Variable-speed drive and stepless capacity control ensure 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 III 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

SuperFilter II™ oil filter captures 99% of all particles larger than 5 microns

Longer bearing life, providing maximum reliability and savings on both maintenance and replacement

Space-saving design with small footprint

Significant reductions in space requirements

Optional equipment

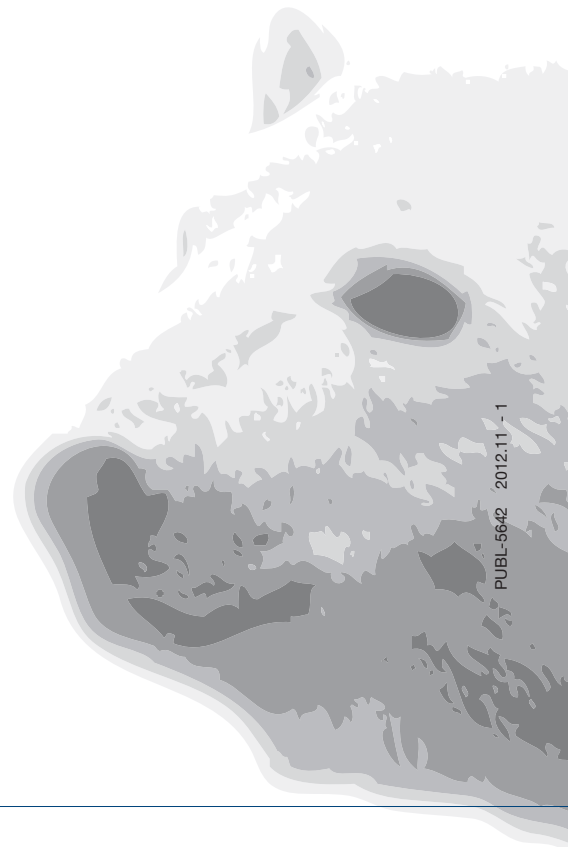
- Variable-speed drive
- Thermosyphon and water-cooled oil coolers, with 3-way oil temperature control valve
- Liquid injection oil cooling (EZ Cool™)
- Dual SuperFilter II™ oil filters (on SAB 151 models only)
- Complete economiser systems
- Demand oil pump – controlled by Unisab III systems controller
- Sensors and transmitters for control by external PLC systems

Model	Swept volume at 3000 rpm m ³ /h	Nominal capacities in kW						Dimensions in mm L x W x H	Weight excluding motor/oil kg	Sound pressure level dB(A)
		R717		R404A		With economiser				
		High stage -10/+35°C	Booster -40/-10°C	High stage		R717 -40/+35°C	R404A			
SAB 120 S	204	121	36	-10/35°C	157	36	47	2200 x 1300 x 1500	1171	85
SAB 120 M	255	156	48	-10/35°C	207	47	63	2200 x 1300 x 1500	1171	86
SAB 120 L	316	200	61	-10/35°C	265	61	80	2200 x 1300 x 1500	1273	88
SAB 120 E	413	270	83	-10/35°C	355	82	107	2200 x 1300 x 1500	1273	89
SAB 151 S	484	305	97	0/+40°C	416	87	126	2800 x 1300 x 1700	2279	90
SAB 151 M	571	369	117	0/+40°C	500	105	151	2800 x 1300 x 1700	2279	91
SAB 151 L	708	469	149	0/+40°C	635	133	192	2800 x 1300 x 1800	2339	91
SAB 151 E	847	568	180	0/+40°C	763	161	231	2800 x 1300 x 1800	2339	92

Nominal capacities are based on 3000 rpm.

New oil separator frame design available for SAB 151

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



PUBL-5642 2012.11 - 1

All information is subject to change without notice.

Johnson Controls Denmark ApS · Sabroe Factory
Christian X's Vej 201 · 8270 Højbjerg · Denmark
Phone +45 87 36 70 00 · Fax +45 87 36 70 05
www.sabroe.com

