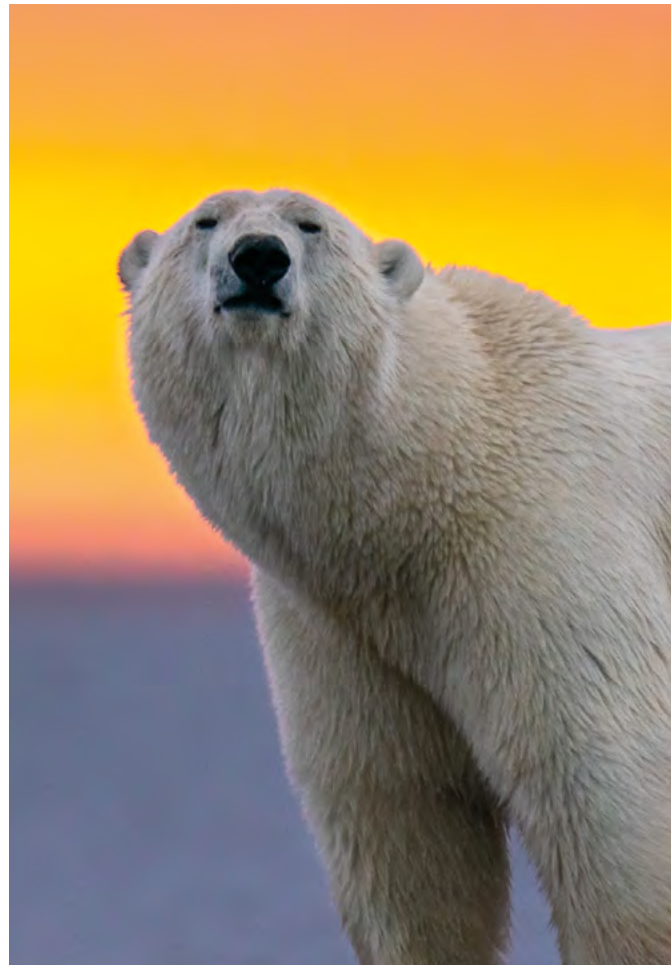




Sabroe® products 2024/25

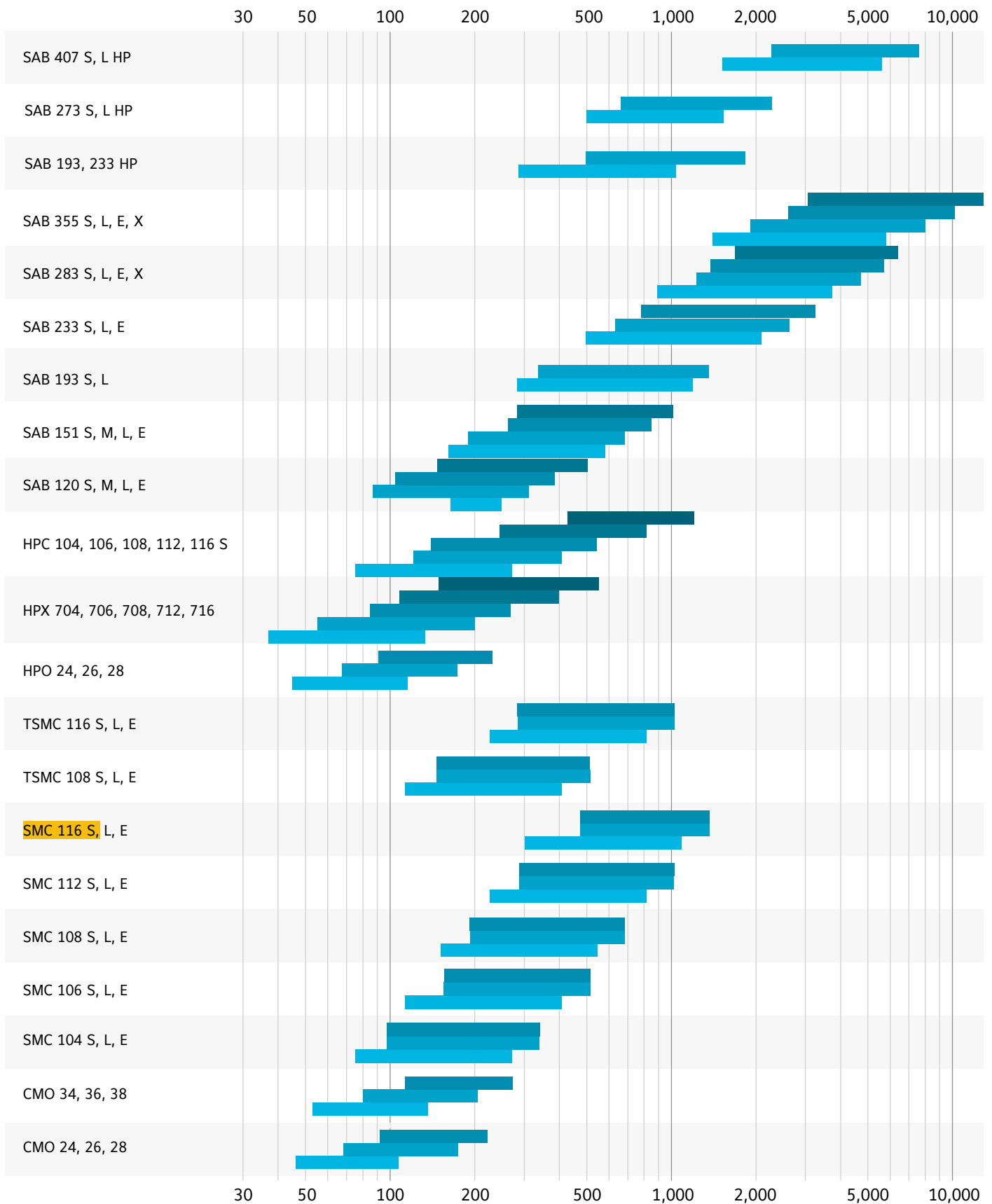


Sabroe® - creating customer confidence

The power behind **your mission**



Sabroe's compressor programme



Swept volume m³/h at maximum speed
(reciprocating compressors at 50/60 Hz; screw compressors at 50/60/70/100 Hz).



SMC 116 single-beam reciprocating compressor unit with UniSAB systems controller

Sabroe SMC Reciprocating Compressor Units

Large single-stage compressors with swept volumes of 200–1,350 m³/h

SMC compressor units are ideal for use in medium-sized refrigeration installations where reliable service is a major priority. They are particularly effective under part-load conditions.

Sabroe SMC compressors are world-renowned for their exceptional reliability, making them an economical, low-maintenance solution for heavy-duty refrigeration, using all common refrigerants. Our three-year warranty covers the complete unit, including compressor block, UniSAB, motor and coupling – for all refrigerants.

Range

Fifteen different models are available to provide swept volumes of between 200 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 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
Easy to access for service, with limited spare parts requirements	Easy, inexpensive maintenance, which helps limit downtime and reduce operating costs
Optional special oil separator design based on coalescer technology	Low oil carry-over, which cuts back on oil costs
Configured without oil system	Small footprint and easy service access

Technical data

Model	Number of cylinders	Swept volume		Nominal capacities * in kW at 1,500 rpm			Nominal capacities * in kW at 1,800 rpm			Unit dimensions in mm			Weight, excluding motor	Sound pressure level	
		1,500 rpm	1,800 rpm	Single/high-stage		Booster	Single/high-stage		Booster					1,500 rpm	1,800 rpm
		m³/h	m³/h	-10/+35°C	0/+40°C	-40/-10°C	-10/+35°C	0/+40°C	-40/-10°C	L	W	H	kg	db(A)	db(A)
SMC 104 S	4	226	271	127	195	35	153	235	42	2,261-2,865	1,213	1,229	1,195	79	82
SMC 104 L	4	283	339	165	250	47	198	300	57	2,261-2,865	1,213	1,229	1,215	80	83
SMC 104 E	4	339	N/A	203	306	58	N/A	N/A	N/A	2,261-2,865	1,213	1,229	1,220	80	83
SMC 106 S	6	339	407	191	293	53	229	352	64	2,286-2,890	1,267	1,247	1,380	81	83
SMC 106 L	6	424	509	247	375	71	297	450	85	2,286-2,890	1,267	1,247	1,400	82	84
SMC 106 E	6	509	N/A	304	459	87	N/A	N/A	N/A	2,286-2,890	1,267	1,247	1,410	82	84
SMC 108 S	8	452	543	255	391	71	306	469	85	2,311-2,915	1,361	1,247	1,595	82	84
SMC 108 L	8	566	679	330	500	94	396	600	113	2,311-2,915	1,361	1,247	1,630	83	85
SMC 108 E	8	679	N/A	406	612	116	N/A	N/A	N/A	2,311-2,915	1,361	1,247	1,650	83	85
SMC 112 S	12	679	814	382	586	106	459	703	127	3,279-3,687	1,475	1,448	2,255	83	85
SMC 112 L	12	848	1,018	495	750	141	593	900	169	3,279-3,687	1,475	1,448	2,280	83	86
SMC 112 E	12	1,018	N/A	609	918	173	N/A	N/A	N/A	3,279-3,687	1,475	1,448	2,330	83	86
SMC 116 S	16	905	1,086	510	782	141	611	938	170	3,329-3,737	1,536	1,445	2,505	84	86
SMC 116 L	16	1,131	1,357	659	1,000	188	791	1200	226	3,329-3,737	1,536	1,445	2,535	84	87
SMC 116 E	16	1,357	N/A	812	1,224	231	N/A	N/A	N/A	3,329-3,737	1,536	1,445	2,590	84	87

* Nominal capacities are based on:
1,500 rpm at 50 Hz.
1,800 rpm at 60 Hz or VSD.

Dimensions, weight and sound pressure levels are guidelines only.
Sound pressure levels measured in free field, over reflecting plane and one metre distance from the compressor block.

Refrigerant: R717

Other refrigerants available on request.

Min./max. speed	R717
SMC S	500-1,800 rpm
SMC L	500-1,800 rpm
SMC E	500-1,500 rpm

For R717

2K liquid subcooling and 0.5K non-usable suction superheat.

Design pressure, HP side: 28 bar

Design pressure, LP side: 18 bar

Differential pressure: 21 bar

Options

- UniSAB systems controller
- Variable-speed drive line (UniSAB always included)
- Oil separator for low oil carry-over
- Gauges, thermometers and temperature/pressure control switches
- Extended cylinder capacity control
- Oil level regulator (for use in parallel systems)
- ATEX-compliant configuration
- Special vibration dampening



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About Johnson Controls

At Johnson Controls (NYSE:JCI), we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

Building on a proud history of nearly 140 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, with a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.

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