Sabroe CMO reciprocating compressor units

Small single-stage compressors with swept volumes of 100-270 m³/h

CMO compressor units are small units specially designed for use in smaller-scale refrigeration installations where reliability is a particular concern, and uninterrupted service a big priority.

They are an economical, low-maintenance solution for smaller-scale, heavy-duty refrigeration installations, and are most commonly used as stand-alone units operating at full load, or as small back-up compressors.

Range

Six different models are available to provide swept volumes of between 100 and 270 m³/h.



A	dvantages	Benefits
exi	• • • • • • • • • • • • • • • • • • • •	Low power consumption, which greatly reduces operating costs
•	pecial design ensures low noise and vibration	Wider range of possible mounting locations, and minimal expenditure on noise attenuation systems
ste	ariable-speed drive (optional) provides epless capacity control over the entire erating range	Power consumption and operating costs kept to a minimum
	epairs can be undertaken in situ, without moving the compressor	Lower repair costs and less downtime
	asy to access for service, with limited spare arts requirements	Easy, inexpensive maintenance, which helps limit downtime and reduce operating costs



Options

- UniSAB systems controller
- Variable-speed drive line (UniSAB always included)
- Gauges, thermometers and temperature/pressure control switches
- Extended cylinder capacity control
- Oil level regulator (for use in parallel systems)
- ATEX-compliant configuration
- Oil separators with coalescing element
- Special vibration dampening.

Model	Number	Swept	Swept	R717 *			Unit dimensions in mm		Weight	Sound	Sound		
	of	volume at	volume at	Nominal capa	cities in kW	Nominal capacities in kW				excluding	pressure	pressure	
	cylinders	1500 rpm	1800 rpm	at 1500) rpm	at 1800) rpm				motor	level at	level at
				Single/hig	jh-stage	Single/hig	h-stage					1500 rpm	1800 rpm
		m3/h	m3/h	-10/+35°C	0/+40°C	-10/+35°C	0/+40°C	L	W	Н	kg	db(A)	db(A)
CMO 24	4	97	116	52	80	62	96	2150-2400	1050	1100	680	69	72
CMO 26	6	146	175	78	120	93	144	2200-2400	1150	1100	780	71	73
CMO 28	8	194	233	104	160	125	192	2250-2400	1200	1100	960	72	74
CMO 34	4	114	136	61	94	73	113	2150-2400	1050	1100	680	70	73
CMO 36	6	170	204	91	141	109	169	2200-2400	1150	1100	780	72	74
CMO 38	8	227	273	122	187	146	225	2250-2400	1200	1100	960	73	75

^{*} Other refrigerants available on request

Nominal capacities are based on: 1500 rpm at 50 Hz.

1800 rpm at 60 Hz or VSD.

For R717

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

Design pressure, HP side: 28 bar Design pressure, LP side: 21 bar Differential pressure: 21 bar.

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

Min./max. speed	R717				
CMO 20	700-1800 rpm				
CMO 30	700-1800 rpm				

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