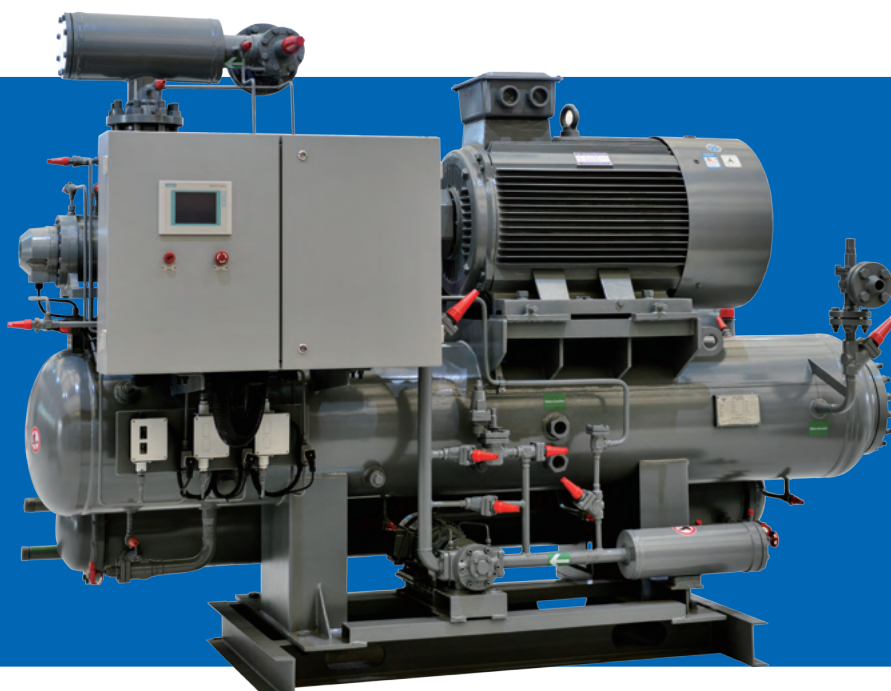


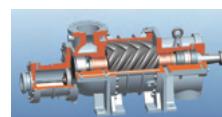
LG系列螺杆制冷压缩机组

LG Series Screw Refrigeration Compressor Units



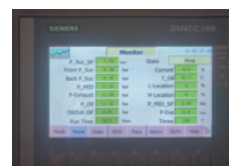
Technical features

- The brand new screw rotor profile design (bilateral asymmetric full-arc envelope profile) with band sealing and no need to use sealing ribs to make up for work clearance.
- The air intake and discharge ports are treated for irregular bellows mechanical noise reduction, thus remarkably reducing noise.
- More complete spectra and more extensive scope of application.
- The oil circulation system uses an unique combination mode of forced oil feeding and differential pressure oil feeding to keep the optimized cycle oil of compressor. The COP value of the compressor is 5% higher than the oil-free pump type.
- Oil and gas separator with patented technology, high-efficiency heat exchange tubes, dedicated oil pump.



LG Automatic Series Microcomputer control more convenient and more flexible

- The standard configuration includes three sorts of control modes such as manual control, semi-automatic control and automatic control.
- Alarming data recorded and stored by PLC monitors interface
- Automatic stepless capacity control, automatic startup/shutdown
- Convenient communication
- Free switching between remote and local operating modes and between manual and automatic operating modes



Main specifications and parameters of LG Series Screw Refrigeration Compressor Units

Item			Unit	LG12M Series	LG16M Series	LG20M Series	LG25M Series
Refrigerant	Varieties			R717 / R22 / R507			
	Standard			GB536 Liquid Anhydrous Ammonia / GB7373			
Compressor	Theoretical displacement		m³/h	285	598	1120	2289
	Energy range			15 ~ 100%			
Refrigeration capacity	High temperature working conditions		kW	316	692	1339	2731
	Medium temperature working conditions		kW	175	384	743	1518
	Low temperature working conditions	With economizer	kW	62	138	269	557
		Without economizer	kW	52	115	225	466
Rated power of motor	High temperature working conditions		kW	65	132	250	500
	Medium temperature working conditions		kW	65	132	250	500
	Low temperature working conditions		kW	55	110	200	400
Rated speed			r/min	2960			
Lubrication oil	charging volume		kg	~ 150(~ 110)	~ 200(~ 160)	~ 370	~ 760
Diameter of suction pipe			mm	DN80	DN125	DN150	DN200
Diameter of exhaust pipe			mm	DN65	DN80	DN100	DN150
Oil Cooler	Type			Shell-tube			
	Water cooling	Diameter of water pipe	mm	DN32	DN40	DN65	DN65
		Volume of cooling water	m³/h	~ 10	~ 15	~ 25	~ 25
		Water-side design pressure	Mpa	0.4			
		Fouling factor of cooling water	m².k/kW	0.086			
		Resistance on water path	Mpa	≤0.1			
		Water quality standard		GB50050 Design Code on Industrial Circulation Cooling Water Processing			
	Refrigerant	Diameter of liquid inlet pipe	mm	DN25	DN32	DN40	DN50
		Diameter of air discharge pipe	mm	DN40	DN50	DN65	DN80
Oil pump	Model			ZHB80P6	ZHB125P4	ZHB125P4 & ZHB150P6*	ZHB220P4
	Motor Power		kW	1.5	2.2	2.2 & 3*	4
Dimensions (L * W * H)		With economizer	mm	2614X1365X1778	3057X1464X2030	3177X1638X2251	4601x2136x3149
		Without economizer		2614X1273X1778	3057X1362X2030	3177X1567X2251	4601x2136x3149
Unit weight			kg	~ 2000	~ 2750	~ 4660	11000 ~ 12000
Operating weight of the unit			kg	~ 2200	~ 3050	~ 5140	13000 ~ 14000

Note: 1. The above mentioned models are basic. In order to meet different refrigeration requirements, we also developed compressors such as LG16S, LG20S, LG20L, LG25S, and LG25L. For detailed parameters, please consult Moon.

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* The specifications are subject to change without notice.