

LG 系列单机双级螺杆制冷压缩机组

LG Series Compound Two-stage Screw Refrigeration Compressor Units



Technical features

■ Both the high pressure stage and the low pressure stage of LG2016MS, LG2520MS and LG3225LS compressors are provided with a capacity control device, which can thus ensure that compressor units always run highly effectively and economically under various low temperature working conditions.



■ Reliable and durable imported mechanical seal

■ High precision suction and oil filter elements



■ Three-stage oil separation systems, high-efficiency molecular sieves, separation efficiency 3~5ppm

■ The oil cooling system can use thermal siphon cooling mode or water cooling mode.

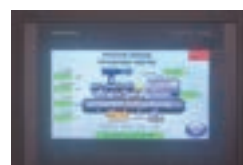
■ Adoption of high-efficiency national patent rotor profiles with proprietary intellectual property rights

LG Automatic Series Microcomputer control more convenient and more flexible

■ 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 Compound Two-stage Screw Refrigeration Compressor Units

Item		Unit	LG1612MMZ(Y)	LG2016MSZ(Y)	LG2520MSZ(Y)	LG3225LSZ(Y)
Compressor	Model		LG1612MM	LG2016MS	LG2520MS	LG3225LS
	Theoretical displacement of low pressure stage	m³/h	598	1120	2289	5182
	Theoretical displacement of high pressure stage	m³/h	213	385	806	1825
	Energy range		15 ~ 100%			
Nominal working conditions		℃	+40/-35			
Cooling capacity under nominal working conditions		kW	139.1/154.3	270.4/298.8	561.6/621.6	1262.7/1404.7
Rated power of the main motor		kW	110	185	355	800
Electrical system			3N 50HZ 380V		3N 50HZ 10kV	
Rated speed		r/min	2960			
Main motor rotation direction			Clockwise(Looking from motor shaft side)			
Refrigerant	Varieties		R717 / R22 / R507			
	Standard		GB536 Liquid Anhydrous Ammonia / GB7373			
Diameter of suction pipe		mm	DN125	DN150	DN200	DN350
Diameter of exhaust pipe		mm	DN65	DN80	DN100	DN150
Diameter of the liquid inlet/outlet of intermediate cooler		mm	DN50	DN65	DN80	DN125
Diameter of safety valve		mm	DN25	DN25	DN32*2	DN50*2
Item		Unit	LG1612MMZ(Y)	LG2016MSZ(Y)	LG2520MSZ(Y)	LG3225LSZ(Y)
Water-cooled oil cooler	Type		Shell-tube			
	Diameter of water	mm	DN40	DN65	DN65	DN100
	Volume of cooling water	m³/h	~ 20	~ 25	~ 45	~ 75
	Water-side design pressure	MPa	0.6			
	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-cooled and oil-cooled cooler	Type		Shell-tube			
	Diameter of liquid inlet pipe	mm	DN32	DN40	DN50	DN65
	Diameter of air discharge pipe	mm	DN50	DN65	DN80	DN125
Oil pump	Model		ZH125P4	ZH220P4	ZZB300P8	ZZB600P4
	Motor power	kW	2.2	4	5.5	7.5
Dimensions	(L * W * H)	mm	3094 x 1384 x 2030	3456 x1651 x 2226	5068 x 2374 x 3145	8890 x 2842 x 3895
Unit weight		kg	~ 3300	~ 4500	~ 11000	~ 22285
Operating weight		kg	~ 3450	~ 4900	~ 12000	~ 23300

Note: 1. The main motor of the unit is equipped according to the nominal working conditions; based on this configuration, the unit can be put into operation with full load at the vaporization temperature lower than -25°C.
2. Due to the difference in the operating conditions of the unit, the power and protection level of the main motor may be different somewhat, the appearance and foundation dimensions will also vary with the variation of the main motor, and they are not listed in the table one by one.

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* The specifications are subject to change without notice.