

CO₂螺杆制冷压缩机组 CO₂ Screw Refrigeration Compressor Unit



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 CO2 Screw Refrigeration Compressor Unit

Item		Unit	LG12RZ	LG16RZ	LG20RZ	LG25RZ	LG32R	
Refrigerant			R744					
Theoretical displacement of compressor		m³/h	152	303	604	803	1676	
Energy regulating range			15 ~ 100					
Nominal working conditions		℃	-40/-12					
Refrigerating effect of the unit		kW	240	476	958	1273	2560	
Rated power of motor		kW	90	185	315	400	800	
Oil pump motor power		kW	2.2	2.2	3	4	7.5	
Electrical system			3N 50HZ 380V		3N 50HZ 10kV			
Rated rotation speed		r/min	2960					
Refrigerator oil	Charging volume	kg	~ 120	~ 190	~ 300	~ 390	~750	
Diameter of suction pipe		mm	DN65	DN100	DN125	DN150	DN200	
Diameter of exhaust pipe		mm	DN50	DN65	DN100	DN125	DN150	
Oil Cooler	Water cooling	Type		Shell-tube				
		Diameter of water inlet and exhaust pipe	mm	DN32	DN50	DN65	DN80	DN100
		Volume of cooling water	m³/h	4	8	16	20	40
		Water-side design pressure	Mpa	0.6				
		Scaling factor of cooling water	m²·k/kW	0.086				
		Water path resistance	Mpa	≤0.1				
		Water quality standard		GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment				
	Refrigerant	Diameter of liquid inlet pipe	mm	DN25	DN32	DN40	DN50	DN65
		Diameter of air discharge pipe	mm	DN40	DN50	DN65	DN80	DN100
Exterior dimension (L* W* H)		mm	2675*920*1765	3050*1150*2070	3250*1350*2340	3560*1500*2550	7986*2748*3645	
Unit weight		Kg	~ 2200	~ 3000	~ 4000	~ 6000	~16000	

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* The specifications are subject to change without notice.