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OIL FREE AIR SCROLL COMPRESSOR



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VACPAC Company profile

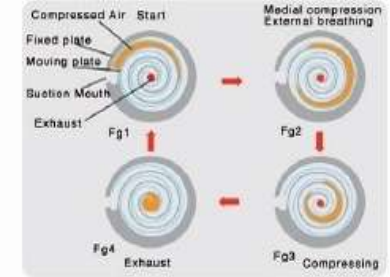
VACPAC is specializing in producing OIL FREE SCROLL AIR COMPRESSOR. We possess the most advanced production equipment which from Germany, Italy, Switzerland, Japan and so on.

DR series OIL FREE SCROLL AIR COMPRESSOR integrate all the features as the fourth dynasty air compressor : 100% oil free, Silent, Clean, Safe, Energy saving. Free maintenance, Easy to use. It is extensively used in Food, Medical, Dental, Laboratory, Chemical, Election, Automobile, Paper making, Textile mill and other places where need dean air and environment protecting.

VACPAC provides customer with quality service, we are hoping to cooperate with vast customers for a brilliant future.

Working Principle

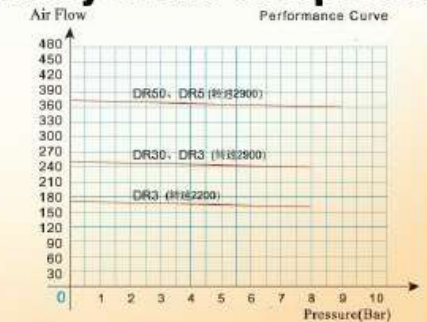
The air is sucked in from the suction mouth at the outside of the fixed scroll. The air enclosed in the compressed space towards to the center when the compression chamber is becoming smaller due to the rotation movement. The compressed space becomes smallest in the center, and the air compressed to the highest limit is squeezed out from the central exhaust port.

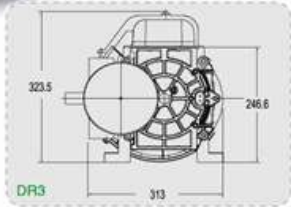


Technical Features

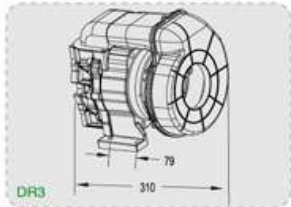
- **High Reliability.** It is an internationally-known air compressor with the least parts, in addition to bearings, there is no metal contact during running and the air compressor modules and the motor are integrated, so that there is little vibration but higher reliability.
- **Lowest Noise.** There is no valve hit sound and air blasting noise, the suction and discharge is continuous and stable, the air flow features quite slight pulse, and the whole machine only produces the noise of 60dBA only, which is fairly in line with environment protection requirements.
- **Lowest energy consumption.** Features high volumetric efficiency, and the adjacent working chambers are slightly different in pressure, so it naturally has very little leakage : there is no suction or discharge valve, so the Intake and exhaust pressure loss is almost zero ; the air compressor modules and the motor are integrated ; so there is no transmission loss ; in addition to bearings, there is no metal contact, featuring no friction or wears of movement mechanism, so the mechanical efficiency is higher ; this is the major reason why the scroll compressors can be more significantly economic in energy consumption than other air compressors.
- **Low maintenance cost.** Due to fewer primary parts and even fewer wearing parts, it almost can be regarded as maintenance free air compressor. And the drive part has no gear box, with no compressor oil used, so it can reduce oil consumption eliminate frequent maintenance, save money and facilitate worry-free use.

The note when select the capacity of the compressor

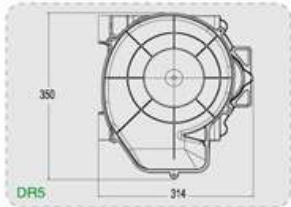




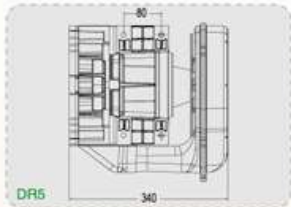
DR3



DR3



DR5



DR5



DR3



DR5

Standard Features

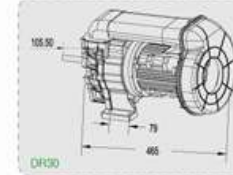
- 100% Duty Cycle Operation
- Continuous Suction, Compressor Discharge Process
- Belt driven Or Direct Driven Mode
- Aluminum Material Body
- Low Noise
- Oil free Design
- Compact in Size
- 0-10bar Operation(10bar should custom made)
- Low Maintenance

Model	Max Pressure (bar)	Horsepower (kw)	Capacity (L/MIN @ 8BAR)	RPM	Noise @ 1.5m db(A)	Outlet Size	Dimensions (mm)	weight (Kg)
DR3	8	1.5	160	2200	63	3/8"	310x315x325	15.5
DR3	8	2.2	240	2900	75	3/8"	340x315x350	15.5
DR5	8	2.2	240	2200	65	3/8"	340x315x350	23
DR5	8	3.7	360	2900	78	3/8"	340x315x350	23

*10bar should custom made



DR30



DR30



DR50



DR50



DR30



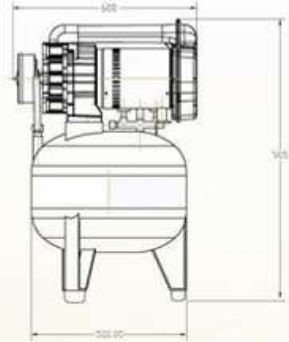
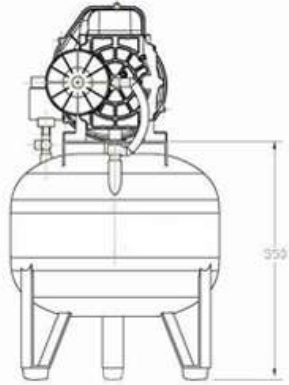
DR50

Standard Features

- 100% Duty Cycle
- Oil Free Design
- Isolation Valve
- 0-10bar Operation(10bar should custom made)
- Low Maintenance
- Inlet Filters
- Adjustable Pressure Switch

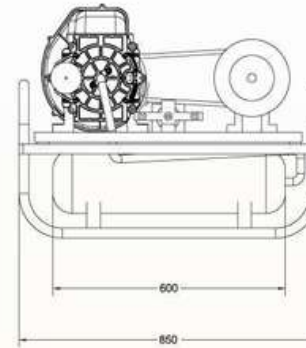
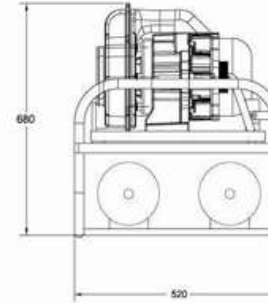
Model	Max Pressure (bar)	Horsepower (kw)	Capacity (L/MIN @ 8BAR)	RPM	Noise @ 1.5m db(A)	Outlet Size	Dimensions (mm)	weight (Kg)
DR30	8	380V/2.2kw/Three phase	240	2900	75	3/8"	465x315x325	31
DR30	10	380V/2.2kw/Three phase	210	2900	75	3/8"	465x315x325	31
DR33	8	220V/2.2kw/Single phase	240	2900	75	3/8"	465x315x325	31
DR33	10	220V/2.2kw/Single phase	210	2900	75	3/8"	465x315x325	31
DR50	8	380V/3kw/Three phase	360	2900	78	3/8"	545x315x350	61
DR50	10	380V/3kw/Three phase	310	2800	78	3/8"	545x315x350	61

*10bar should custom made



Standard Features

- 100% Duty Cycle
- Oil Free Design
- Isolation Valve
- 0-10bar Operation
- Low Maintenance
- Inlet Filters
- Adjustable Pressure Switch



Standard Features

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Model	Max Pressure (bar)	Horsepower (kw)	Capacity (L/MIN @ 8BAR)	RPM	Noise @ 1.5m db(A)	Outlet Size	Dimensions (mm)	weight (Kg)
DR3012-65	8	380V/2.2kw/Three phase	240	2900	75	3/8"	600x500x905	63
DR3012-65	10	380V/2.2kw/Three phase	210	2900	75	3/8"	600x500x905	63
DR3312-65	8	220V/2.2kw/Single phase	240	2900	75	3/8"	600x500x905	63
DR3312-65	10	220V/2.2kw/Single phase	210	2900	75	3/8"	600x500x905	63

Model	Max Pressure (bar)	Horsepower (kw)	Capacity (L/MIN @ 8BAR)	RPM	Noise @ 1.5m db(A)	Outlet Size	Dimensions (mm)	weight (Kg)
DR3211-60	8	220V/1.5kw/Single phase	160	2200	65	3/8"	850x520x680	130
DR3212-60	8	220V/2.2kw/Single phase	240	2900	75	3/8"	850x520x680	130
DR5211-60	8	220V/2.2kw/Single phase	240	2200	68	3/8"	850x520x680	130
DR5112-60	8	380V/3.7kw/Three phase	360	2900	78	3/8"	850x520x680	130

Three-phase frequency-converted oil free scroll air compressor is equipped with three-phase 380V AC motor and features good starting performance and high motor efficiency. It adopts internationally-advanced oil free scroll air compressor advantage. The compressor set features great stability, extremely low energy consumption, low noise and high performance price ratio.



Three Phase Motor	Model	DR3012-100	DR3012-100P
	Horsepower	2.2 KW	2.2 KW With Inverter
	Frequency	50HZ /60HZ	50HZ /60HZ
Single Phase Motor	Voltage	380 V	Inlet power 220V Three phase motor 220V
	Model	DR3312-100	
	Horsepower	2.2 KW	
Compressor	Frequency	50HZ /60HZ	
	Voltage	220 V	
	Max Pressure	8 bar /10 bar	
Complete machine	Capacity (L/MIN @ 8BAR)	0.24 m ³ /min@8 bar 0.21 m ³ /min@10bar	
	Control Mode	Pressure switch	
	Adjust range	5-8bar /10 bar	
	Drive Mode	Electrical and motor together	
	Outlet Size	G 1/2"	
	Noise	65 db(A)@1.5m	
	Dimensions	1180X408X900mm	
Air tank	100 L		
weight	110 KG		



This model cabinet could equipped one piece DR30 or DR50 or DR3 or DR5 compressor. In cabinet equipped 2 piece 30L air tank, or one 50L air tank. Compact in size. The control circuit using from Danfoss pressure switch, electric relay using from LS KOREA. Mechanical control, easy and reliable.

Three Phase Motor	Model	DR3012-60	DR5012-60
	Horsepower	2.2 KW	3 KW
	Frequency	50HZ /60HZ	50HZ /60HZ
Single Phase Motor	Voltage	380 V	380 V
	Max Pressure	8bar /10 bar	
	Capacity(L/MN @ 8BAR)	0.24 m ³ /min @ 8 bar 0.21 m ³ /min@10bar	0.36 m ³ /min@8bar 0.31 m ³ /min@10bar
Compressor	Model	DR3312-60	
	Horsepower	2.2 KW	
	Frequency	50HZ /60HZ	
Complete machine	Voltage	220 V	
	Max Pressure	8bar /10 bar	
	Capacity(L/MN @ 8BAR)	0.24 m ³ /min @ 8 bar 0.21 m ³ /min@10bar	
	Control Mode	Pressure switch	
	Adjust range	5-8 bar	
	Drive Mode	Electrical and motor together	
	Outlet Size	G 1/2"	
Noise	73 db(A)@1.5m		
Dimensions	870X520X1025mm		
Air tank size	60 L		
weight	160 KG		



Three Phase Motor	Model	DR5012	DR5012P
	Horsepower	3 KW	3KW With Inverter
	Frequency	50HZ /60HZ	50HZ /60HZ
Compressor	Voltage	380 V	Inlet power 220V Three phase motor 220V
	Max Pressure	8 bar /10 bar	
	Capacity (L/MN @ 8BAR)	0.36 m ³ /min@8bar 0.31 m ³ /min@10bar	
Complete machine	Control Mode	Pressure switch	
	Adjust range	5-8bar /10 bar	
	Drive Mode	Electrical and motor together	
	Outlet Size	G 1"	
	Noise	73 db(A)@1.5m	
	Dimensions	825x520x720mm	
	Air tank	Without	
weight	130 KG		



This model has two floor, the first floor and second floor, severally equipped DR30 or DR50 air head, and two air heads use one outlet together, compact in size. The control circuit using from Danfoss pressure switch, electric relay using from LS KOREA. Mechanical control, easy and reliable. The control circuit could be divided into two, and separately control two air head.

Three Phase Motor	Model	DR3022	DR5022
	Horsepower	4.5 KW	6 KW
	Frequency	50HZ /60HZ	50HZ /60HZ
Compressor	Voltage	380 V	380 V
	Max Pressure	8bar	
	Capacity(L/MN @ 8BAR)	0.48m ³ /min	0.72m ³ /min
Complete machine	Control Mode	Two separate pressure switch	
	Adjust range	5-8bar	
	Drive Mode	Electrical and motor together	
	Outlet Size	G 1"	
	Noise	75 db(A)@ 1.5m	
	Dimensions	885x520x1220mm	
	Air tank	Without	
weight	220 KG		



PLC CONTROL SYSTEM

1. Using a dedicated high-speed PLC control. Fast, Stable, Reliable, and expansion easier.
2. Equipped with 7 inch true color Industrial touch-screen display. Show the rich content and a Friendly user interface.
3. The simulation diagram shows the operational status made the work be clear at a glance.
4. Have function control of Pressure/temperature/current and Historical data record.
5. With the unique PID control mode achieved precision control of pressure, and reduced system power consumption effectively.
6. Intelligent and continuous control to over-temperature and over-pressure Provide full protection for the unit.
7. The unit start-up interval control. Reduce the impact of the grid start.
8. The Unit restart interval control, prevent the frequent movement of motor.
9. With comprehensive fault detection and recording functions.
10. With Password protection, Parameters are free to change.
11. Limited set of operating and forecasting can prevent malicious arrears.
12. Beautiful and delicate advertising welcome screen.



This cabinet could equipped three pieces DR50 air head, and the three air heads use one outlet together, compact in size, the control circuit adopt computer touch screen, PLC, electrical pressure transducer, Real-time monitoring and draw on the screen output pressure. Output temperature, input current curve, all could adopt PLC control. Computer control pressure stop one by one, start the compressor one by one, maximization increase efficiency, decrease the energy consume.

Three Phase Motor	Model	DR5032
	Horsepower	9 KW
	Frequency	50HZ /60HZ
Compressor	Voltage	380 V
	Max Pressure	8bar
Complete machine	Capacity(L/MIN @ 8BAR)	1.1 m ³ /min
	Control Mode	Computer screen PLC control
	Adjust range	5-8bar
	Drive Mode	Electrical and motor together
	Outlet Size	G 1"
	Noise	77 db(A)@1.5m
	Dimensions	1000x750x1700mm
	Air tank	Without
weight	360 KG	



This cabinet could equipped four pieces DR50 air head, and the three air heads use one outlet together, compact in size, the control circuit adopt computer touch screen, PLC, electrical pressure transducer, Real-time monitoring and draw on the screen output pressure. Output temperature, input current curve, all could adopt PLC control. Computer control pressure stop one by one, start the compressor one by one, maximization increase efficiency, decrease the energy consume.

Three Phase Motor	Model	DR5042
	Horsepower	12 KW
	Frequency	50HZ /60HZ
Compressor	Voltage	380 V
	Max Pressure	8bar
Complete machine	Capacity(L/MIN @ 8BAR)	1.45 m ³ /min
	Control Mode	Computer screen PLC control
	Adjust range	5-8bar
	Drive Mode	Electrical and motor together
	Outlet Size	G 1.2"
	Noise	83 db(A)@1.5m
	Dimensions	1105x1000x1200mm
	Air tank	Without
weight	420 KG	



This cabinet could equipped six pieces DR50 air head, and the three air heads use one outlet together, compact in size, the control circuit adopt computer touch screen, PLC, electrical pressure transducer, Real-time monitoring and draw on the screen output pressure. Output temperature, input current curve, all could adopt PLC control. Computer control pressure stop one by one, start the compressor one by one, maximization increase efficiency, decrease the energy consume.

Three Phase Motor	Model	DR5062
	Horsepower	18 KW
	Frequency	50HZ /60HZ
Compressor	Voltage	380 V
	Max Pressure	8bar
Complete machine	Capacity(L/MIN @ 8BAR)	2.2 m ³ /min
	Control Mode	Computer screen PLC control
	Adjust range	5-8bar
	Drive Mode	Electrical and motor together
	Outlet Size	G 1.5"
	Noise	85 db(A)@1.5m
	Dimensions	1105x1000x1700mm
	Air tank	Without
weight	600 KG	