

*Energy Saving And Environmental
Protection Screw Air Compressors*

ESSENCE

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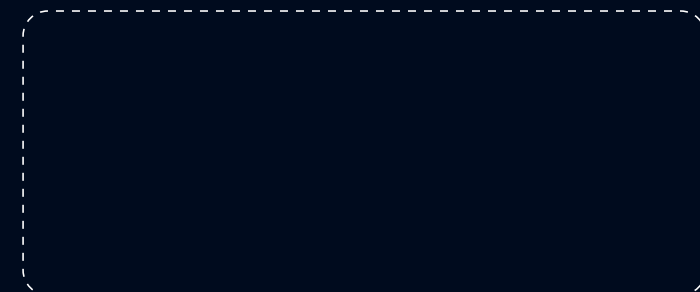
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ABOUT US

Shanghai Essence Compressor Ltd
Welcome to Essence

ESSENCE

Shanghai Essence Compressor., Ltd. is a professional air compressor manufacturer since acquisition in 2007 by Fusheng group. Together with Shanghai Fusheng and Beijing Fusheng, Essence is committed to research, develop and manufacture the screw air compressor to fill up the full range of Fusheng air compressor products. Derived from Europe, Essence screw air compressors have unified the Western and Asian characteristics and equipped with high-efficiency airends, more compact structure designs, and less oil consumption. The intelligent control module system and friendly panel are provided the breakdown self-diagnostics and easy operation.

Furthermore, Essence has been developing, planning and producing a range of air compressors with performance superiors to average in the market. The main components connected to airend as thermostatic valve, inlet valve, and air/oil separator make Essence products reliable and durable. The high efficiency airend with connected high efficiency motor makes the performance and air flow reaching the high technological standard.



ESSENCE

Screw Air Compressors



Superior Quality

EU COMP with German technology provides perfect rotor profile (5: 6) and makes the rotor rotating friction lower which significantly reduces the energy consumption and vibration. The smaller gap between rotor and housing greatly improves the discharge efficiency.

Intelligent Control

The friendly HMI and faults self-diagnosis are not only beneficially making the maintenance schedule, but also assist saving energy from the first day of using.

Electrical Motor

Asynchronous three-phase high efficiency motor with class F insulation, is specially designed for the high load operation.

High Efficiency Cooling

The forced air cooling design and size can perfectly operate under 45°C ambient temperature.

In-take Air Filter Heavy Duty Version

Air filters are installed in all models to remove the particles through high-efficiency filter elements.

Air Inlet Modulation

The bigger filtration area on air filter system can minimize the pressure drop and ensure filtration accuracy. The intake valve has a high sensitivity, low pressure drop design and preventing backflow function which can optimize the suction efficiency.

ES Fixed Speed Screw Air Compressors



Features

- ▶ Small capacity products use up and down structure to make the machine lighter and reduce the footprint.
- ▶ The efficient motors and new-generation machines have lower energy consumption.
- ▶ Reasonable layout, optimized the intake and discharge design and reduced the noise. Double plates at the frame bottom to lower the machine noise.
- ▶ Using modular design, such as intake valve, combined valves, etc., to make the internal pipeline simpler and minimize the connection points to prevent leakage.



New Generation Airend

Airend (EU-COMP) minimizes the backflow of the compressed air, and optimizes the rotor profile to make the package machine more efficient. Large rotor and low speed design makes the vibration smaller and noise lower. Longer life SKF high-precision bearings and high-quality shaft seals make the machine reliable, long life and ensure no leakage. The bearing life time can up to 60,000 hours.



Intake Valve Set

The intake valve uses piston structure to control the loading and unloading. When the machine stopped, the piston can quickly close to prevent oil spraying out. The unloading solenoid valve and the vent valve are integrated into one piece, and the structure is simple without wearing parts. Low pressure drop intake design with bypass valve can effectively reduce the noise.



Cooling Fan

Use axial fan with high air volume, high efficiency, low current, and low noise features.



Air Filter

The dry-type paper filter function is filtering the atmosphere impurities and the filtration accuracy is 10u with big filtering area and small air pressure drop. The cyclone separation method is with ≥80% rough filtration efficiency. Thereby, it can prolong the service life of oil fine separators, oil filters, bearings, and lubricants.

ES MODEL		ES03A-*B/P/F	ES04A-*B/P/F	ES06A-*B/P/F	ES08A-*B/P/F	ES11A-*B/P/F	ES15A-*B/P/F	ES18A-*B/P/F	ES22A-*B/P/F		
Delivery	0.5MPa	m ³ /min	/	/	/	/	3.05	3.70	4.10		
	0.7MPa	m ³ /min	0.37	0.55	0.80	1.10	1.75	2.55	3.15		
	0.8MPa	m ³ /min	0.35	0.50	0.75	1.02	1.65	2.40	2.95		
	1.0MPa	m ³ /min	0.30	0.40	0.65	0.95	1.50	2.05	2.55		
	1.25MPa	m ³ /min	0.26	0.35	0.50	0.83	1.40	1.85	2.30		
Main Motor Power		kW/HP	3/4	4/5	5.5/7	7.5/10	11/15	15/20	18.5/25	22/30	
Voltage / Frequency		V / Hz	220/380/415/440V · 50/60Hz								
Transmission Method			Belt								
Discharge Pipe Diameter		in.	G1/2	G1/2	G1/2	G3/4	G3/4	G3/4	G1 1/4	G1 1/4	
Parameter	Standard Model	Length	mm	660	660	660	900	900	950	1050	1050
		Width	mm	600	600	600	800	800	850	880	880
		Height	mm	890	890	890	1150	1150	1150	1260	1260
		Weight	kg	220	230	240	280	300	400	500	570
	Tank Model	Tank Capacity	L	200	200	200	270	270	270	300	300
		Length	mm	1370	1370	1370	1500	1500	1600	1165	1165
		Width	mm	600	600	600	800	800	850	925	925
		Height	mm	1440	1440	1440	1750	1750	1750	1810	1810
	All In One Model	Weight	kg	335	345	355	460	480	580	650	720
		Dew Point	°C	2~10							
		Tank Capacity	L	200	200	200	270	270	270	500	600
		Length	mm	1370	1370	1370	1500	1500	1600	2060	2060
		Width	mm	600	600	600	800	800	850	925	925
Height	mm	1440	1440	1440	1750	1750	1750	1810	1810		
Weight	kg	425	435	445	560	580	680	800	870		

ES MODEL		ES30A-*B	ES37A-*B	ES45A-*B	ES55A/W -*D/G	ES75A/W -*D/G	ES90A/W -*G	ES110A/W -*D/G	ES132A/W -*D/G	ES160A/W -*D/G	ES185A/W -*D/G	ES200A/W -*G	ES220A/W -*G	ES250A/W -*D/G		
Delivery	0.5MPa	m ³ /min	6.00	7.45	8.60	11.75	15.30	17.60	23.00	27.60	31.80	35.50	39.00	40.50	47.00	
	0.7MPa	m ³ /min	5.40	6.70	7.80	10.70	13.80	16.00	21.00	25.20	28.70	32.00	35.10	36.50	42.50	
	0.8MPa	m ³ /min	5.20	6.30	7.60	9.60	13.00	15.20	19.80	24.00	27.60	30.40	33.50	34.50	42.00	
	1.0MPa	m ³ /min	4.60	5.75	6.90	8.80	11.70	13.60	17.00	21.00	24.60	27.40	30.20	32.00	40.60	
	1.25MPa	m ³ /min	4.05	5.05	6.30	8.10	10.25	12.30	15.30	18.30	21.50	24.80	26.50	29.50	36.20	
Main Motor Power		kW/HP	30/40	37/50	45/60	55/75	75/100	90/125	110/150	132/180	160/220	185/250	200/270	220/300	250/335	
Voltage / Frequency		V / Hz	220/380/415/440V · 50/60Hz													
Transmission Method			Belt				Direct									
Discharge Pipe Diameter		in.	G1 1/2	G1 1/2	G2	G2	G2	G2	Square Flange DN80			Flange DN80		Flange DN100		
Parameter	Standard Model	Length	mm	1000	1000	1400	2250	2250	2250	2300	2300	2900	2900	2900	3750	3750
		Width	mm	1250	1250	1100	1344	1344	1344	1450	1450	1600	1600	1600	2150	2150
		Height	mm	1310	1310	1600	1694	1694	1694	1750	1750	1800	1800	1800	2100	2100
		Weight	kg	850	880	1080	2150	2250	2450	3050	3200	4050	4300	4450	5000	5200

Remark:

- 1.The symbol "*" in the model means different discharge pressure, such as 0.7/0.8/1.0/1.25MPa showed 7/8/10/12;
- 2.Different voltage (220V/415V/440V/660V) & (3kV/6kV/10kV for 220/250kW) and different frequency 60HZ are available.
- 3.The special pressure (0.5Mpa & >1.25Mpa) can be customized.