

firstAIR

Air Compressors Screw

PURSUING EXCELLENCE
ENRICHING LIFE
ENTERPRISING AND PRAGMATIC ATTITUDE



firstAIR

Dealer/Sales specialist





ABOUT US

Shanghai Essence Compressor, Ltd (hereinafter referred to as "Essence ") is a wholly-acquired subsidiary of Fusheng Group focusing on the research and development and manufacturing of screw air compressors. Since its establishment in 2005, relying on the group's strong technical support and advanced compression technology from Europe and the United States, the company is committed to providing safe, reliable and efficient compressed air system solutions for global customers.

Essence strict implementation of ISO9001, ISO14001 and ISO45001 and other international management system standards, products have been CE, UL and other international certification, to ensure its excellent quality and global versatility. Our products are exported to Europe, America, Asia-Pacific, Australia and other countries and regions around the world, and through ODM/OEM cooperation, we have established a solid cooperative relationship with many international brands.

Adhering to the business philosophy of "Pursuing Excellence and Enriching Life", Essence is steadily moving towards the top competition in the global air compressor field, and Continuously create value for our global customers.

EU COMP® Airend - International Famous Brand

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.

Electrical Motor

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

In-take Air Filter Heavy Duty Version

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

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.

High Efficiency Cooling

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

Air Inlet Regulation

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.

FAS 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 airend 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 $\geq 80\%$ rough filtration efficiency. Thereby, it can prolong the service life of oil fine separators, oil filters, bearings, and lubricants.

FAS MODEL			FAS03A -B/P/F	FAS04A -B/P/F	FAS06A -B/P/F	FAS08A -B/P/F	FAS11A -B/P/F	FAS15A -B/P/F	FAS18A -B/P/F	FAS22A -B/P/F	FAS30A -B/F	FAS37A -B/F	
Delivery	0.5MPa	m ³ /min	/	/	/	/	/	3.05	3.70	4.10	6'00	7'45	
	0.7MPa	m ³ /min	0.37	0.55	0.80	1.10	1.75	2.55	3.15	3.65	5.40	6.70	
	0.8MPa	m ³ /min	0.35	0.50	0.75	1.02	1.65	2.40	2.95	3.60	5.20	6.30	
	1.0MPa	m ³ /min	0.30	0.40	0.65	1.00	1.50	2.05	2.55	3.40	4.60	5.75	
	1.25MPa	m ³ /min	0.26	0.35	0.50	0.83	1.40	1.85	2.30	3.00	4.05	5.05	
	1.6MPa	m ³ /min	/	/	/	0.60	1.00	1.45	1.70	2.20	2.90	3.80	
Main Motor Power		kW	3	4	5.5	7.5	11	15	18.5	22	30	37	
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	G1 1/2	G1 1/2	
Parameter	Standard Model	Length	mm	660	660	660	900	900	950	1050	1050	1000	1000
		Width	mm	600	600	600	800	800	850	880	880	1250	1250
		Height	mm	890	890	890	1150	1150	1150	1260	1260	1310	1310
		Weight	kg	220	230	240	280	300	400	500	570	850	880
	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	1510	1510	1510	1740	1740	1740	1810	1810	/	/
	All In One Model	Weight	kg	335	345	355	460	480	580	650	720	/	/
		Pressure Dew Point	°C	2~10									
		Tank Capacity	L	200	200	200	270	270	270	500	500	1000	1000
		Length	mm	1370	1370	1370	1690	1690	1800	2060	2060	2900	2900
Width	mm	600	600	600	820	820	850	925	925	1000	1000		
Height	mm	1510	1510	1510	1820	1820	1820	1810	1810	2120	2120		
Weight	kg	425	435	445	560	580	680	800	870	1290	1320		

FAS MODEL			FAS45A -B	FAS55A/W -D/G	FAS75A/W -D/G	FAS90A/W -G	FAS110A/W -D/G	FAS132A/W -D/G	FAS160A/W -D/G	FAS185A/W -D/G	FAS200A/W -G	FAS220A/W -G	FAS250A/W -D/G	FAS280A/W -G	FAS300A/W -G	
Delivery	0.5MPa	m ³ /min	8.60	11.75	15.30	17.60	23.00	27.60	31.80	35.50	39.00	40.50	47.00	58.80	61.00	
	0.7MPa	m ³ /min	7.80	10.70	13.80	16.00	21.00	25.20	28.70	32.00	35.10	36.50	42.50	52.90	55.00	
	0.8MPa	m ³ /min	7.60	9.60	13.00	15.20	19.80	24.00	27.60	30.40	33.50	34.50	42.00	52.60	54.00	
	1.0MPa	m ³ /min	6.90	8.80	11.70	13.60	17.00	21.00	24.60	27.40	30.20	32.00	40.60	45.90	47.50	
	1.25MPa	m ³ /min	6.30	8.10	10.25	12.30	15.30	18.30	21.50	24.80	26.50	29.50	36.20	42.70	44.50	
	1.6MPa	m ³ /min	4.85	5.85	7.90	9.90	/	/	/	/	/	/	/	/	/	
Main Motor Power		kW	45	55	75	90	110	132	160	185	200	220	250	280	300	
Voltage / Frequency		V/Hz	220/380/415/440V、50/60Hz													
Transmission Method			Belt			Direct										
Discharge Pipe Diameter		in.	G2	G2	G2	G2	Square Flange DN80	Flange DN80			Flange DN100					
Parameter	Standard Model	Length	mm	1400	2250	2250	2250	2300	2300	2900	2900	2900	3750	3750	4000	4000
		Width	mm	1100	1344	1344	1344	1450	1450	1600	1600	1600	2150	2150	2150	2150
		Height	mm	1600	1694	1694	1694	1750	1750	1800	1800	1800	2100	2100	2100	2100
		Weight	kg	1080	2150	2250	2450	3050	3200	4050	4300	4450	5000	5200	5500	5700

Remark:

- The symbol "*" in the model means different discharge pressure, such as 0.7/0.8/1.0/1.25MPa showed 7/8/10/12.
- Different voltage (220V/415V/440V/660V) & (3kV/6kV/10kV for 220—300kW) and different frequency 60Hz are available.
- The special pressure (0.5~1.6MPa) can be customized.

FASM Permanent Magnetic Variable Speed Screw Air Compressors

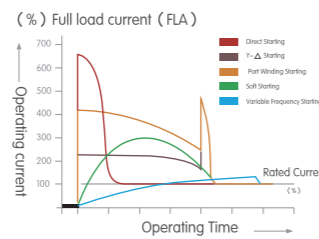
Features :

- ▶ New generation of efficient airend, better performance.
- ▶ IE4 high efficiency permanent magnet synchronous motor is the guarantee of energy saving, higher efficiency than ordinary motors.
- ▶ Customized integrated energy-saving inverter, accurate pressure control, fast response.
- ▶ 7-inch color touch screen, intelligent microcomputer control, visible energy saving, automatic adjustment for variable speed control of the air.
- ▶ Remote-controlled function.



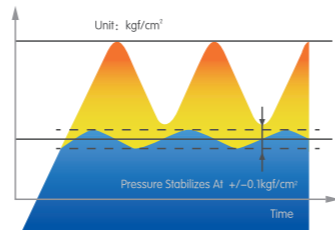
Intelligent Color Screen Control System

Intelligent color screen design, including the current monitoring data display of the main motor and fan motor, and other multi-point control mode, easy to control, with a good human-computer interaction interface experience.



Variable Frequency Starting

Variable frequency starting, smooth linear operation, no high current of traditional direct start or star triangle start. Reduce the impact on the line and electrical, greatly extend the service life of the electromagnetic contactor, motor and airend.



Constant Pressure Air Supply

Frequency converting control can instantly reflect the change of air volume, the fluctuation of air supply pressure is stable below 0.1kgf/cm², and there is no required setting of 1-2kgf/cm² pressure difference between empty and load, can greatly save electricity.

FASM MODEL		FASM08A-*	FASM11A-*	FASM15A-*	FASM18A-*	FASM22A-*	FASM30A-*	FASM37A-*	
Discharge Pressure	0.7MPa	m ³ /min	0.44~1.10	0.70~1.75	1.02~2.55	1.32~3.30	1.60~4.00	2.16~5.40	2.68~6.70
	0.8MPa	m ³ /min	0.41~1.02	0.66~1.65	0.96~2.40	1.20~3.00	1.52~3.80	2.08~5.20	2.52~6.30
	1.0MPa	m ³ /min	0.38~0.95	0.60~1.50	0.82~2.05	1.02~2.55	1.36~3.40	1.84~4.60	2.30~5.75
	1.25MPa	m ³ /min	0.33~0.83	0.56~1.40	0.74~1.85	0.92~2.30	1.20~3.00	1.62~4.05	2.02~5.05
Power	kW	7.5	11	15	18.5	22	30	37	
Starting Method	Type	PM Motor +Inverter							
Voltage/Frequency	V/Hz	220/380/415/440V、50/60Hz							
Rear cooler outlet temperature	°C	≤ Ambient temperature+15°C							
Transmission Method		Coaxial Direct Transmission							
Discharge Pipe Diameter	in.	G3/4	G3/4	G3/4	G1	G1	G1-1/4	G1-1/4	
Length	mm	680	680	680	780	780	920	920	
Width	mm	680	680	680	780	780	840	840	
Height	mm	1220	1240	1240	1300	1300	1422	1422	
Weight	kg	245	260	270	300	320	425	450	

Remarks :

1. The symbol "*" in the model means different discharge pressure, such as 0.7/0.8/1.0/1.25MPa show as 7/8/10/12.
2. Specific voltage(220V/415V/440V). Specific frequency(60Hz) can be customized.
3. Specific pressure(0.5~1.6MPa) can be customized.

FASV-M magnetic Variable Speed Screw Air Compressors

Features

- ▶ The efficient PMSM vector motor guarantee the energy saving and the efficiency is higher than ordinary motor.
- ▶ The exclusive integrated energy-saving inverter makes the product more compact and efficient.
- ▶ Colorful & touch screen microcomputer control panel shows the saved energy and adjust the air flow automatically.



FASV-M MODEL		FASV45A-*M	FASV55A-*M	FASV75A-*M	FASV90A-*M	FASV110A-*M	FASV132A-*M	
Delivery	0.7MPa	m ³ /min	3.12~7.80	4.28~10.70	5.52~13.80	6.40~16.00	8.40~21.00	10.08~25.20
	0.8MPa	m ³ /min	3.04~7.60	3.84~9.60	5.20~13.00	6.08~15.20	7.92~19.80	9.60~24.00
	1.0MPa	m ³ /min	2.76~6.90	3.52~8.80	4.68~11.70	5.44~13.60	6.80~17.00	8.40~21.00
	1.25MPa	m ³ /min	2.52~6.30	3.24~8.10	4.10~10.25	4.92~12.30	6.12~15.30	7.32~18.30
Main Motor Power	kW	45	55	75	90	110	132	
Starting Method	Type	PM Motor + Inverter						
Voltage / Frequency	V/Hz	220/380/415/440V、50/60Hz						
Discharge Temperature	°C	≤ Ambient +15°C						
Transmission Method		Coupling Driven						
Discharge Pipe Diameter	in.	G2	G2	G2	G2	Square Flange DN80		
Length	mm	1600	2250	2250	2250	2600	2600	
Width	mm	1160	1344	1344	1344	1750	1750	
Height	mm	1600	1694	1694	1694	1850	1850	
Weight	kg	1150	2220	2350	2480	3100	3300	

FASV-M MODEL		FASV160A-*M	FASV185A-*M	FASV200A-*M	FASV220A-*M	FASV250A-*M	FASV280A-*M	FASV300A-*M	
Delivery	0.7MPa	m ³ /min	11.48~28.70	12.80~32.00	14.04~35.10	14.60~36.50	17.00~42.50	21.20~52.90	22.00~55.00
	0.8MPa	m ³ /min	11.04~27.60	12.16~30.40	13.40~33.50	13.80~34.50	16.80~42.00	21.00~52.60	21.60~54.00
	1.0MPa	m ³ /min	9.84~24.60	10.96~27.40	12.08~30.20	12.80~32.00	16.24~40.60	18.40~45.90	19.00~47.50
	1.25MPa	m ³ /min	8.60~21.50	9.92~24.80	10.60~26.50	11.80~29.50	14.48~36.20	17.10~42.70	17.80~44.50
Main Motor Power	kW	160	185	200	220	250	280	300	
Starting Method	Type	PM Motor + Inverter							
Voltage / Frequency	V/Hz	220/380/415/440V、50/60Hz							
Discharge Temperature	°C	≤ Ambient +15°C							
Transmission Method		Coupling Driven							
Discharge Pipe Diameter	in.	Flange DN80, JB/T81-1994				Flange DN100, JB/T81-1994			
Length	mm	2900	2900	2900	3750	3750	4000	4000	
Width	mm	1600	1600	1600	2150	2150	2150	2150	
Height	mm	2050	2050	2050	2100	2100	2100	2100	
Weight	kg	4150	4400	4550	5200	5400	5700	5900	

Remark:

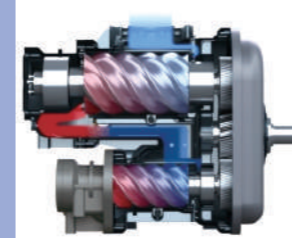
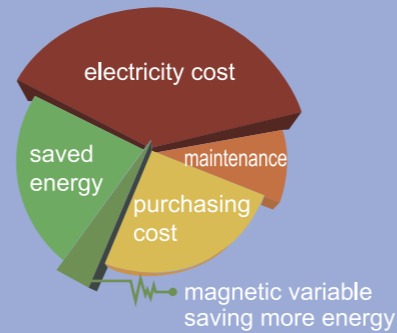
1. The symbol "*" in the model means different discharge pressure, such as 0.7/0.8/1.0/1.25MPa showed 7/8/10/12.
2. Different voltage (220V/415V/440V/660V) and different frequency 60Hz are available.
3. The special pressure (0.5~1.25MPa) can be customized.



FASV⁺-TMA Two-Stage Magnetic Variable Speed Screw Air Compressors

Features

- ▶ High efficiency permanent magnet synchronous vector motor is a guarantee of energy saving, higher efficiency than ordinary motors.
- ▶ Two-stage compressor airend is adopted to effectively improve the overall machine performance.
- ▶ Color touch screen microcomputer intelligent controller makes energy saving is visible, variable speed control air volume is automatically adjusted.



Two stage Airend

The new generation of two-stage Airend (firstAir) minimizes the backflow of the compressed air and optimizes the rotor profile to make the packaging machine more efficient. Large rotor 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, and long life, and ensure no leakage. The bearing lifetime can be up to 60000 hours.



High-efficiency permanent magnet motors

It is driven by a super IE4 high-efficiency permanent magnet motor, made of neodymium magnet, which makes the frequency adjustment more precise and does not demagnetize at the extreme temperature of the air compressor operation, and has a long service life to ensure reliable energy-saving.

FASV ⁺ -TMA MODEL		FASV ⁺ 22A -TMA	FASV ⁺ 37A -TMA	FASV ⁺ 45A -TMA	FASV ⁺ 55A/W -TMA	FASV ⁺ 75A/W -TMA	FASV ⁺ 90A/W -TMA	FASV ⁺ 110A/W -TMA	FASV ⁺ 132A/W -TMA	
Delivery	0.7MPa	m ³ /min	1.80~4.50	2.96~7.40	4.16~10.40	5.12~12.80	7.00~17.50	8.32~20.80	9.80~24.50	12.00~30.00
	0.8MPa	m ³ /min	1.72~4.30	2.88~7.20	3.92~9.80	4.80~12.00	6.60~16.50	7.88~19.70	9.00~22.50	11.20~28.00
	1.0MPa	m ³ /min	1.36~3.40	2.40~6.00	3.50~8.75	4.28~10.70	5.84~14.60	6.76~16.90	7.84~19.60	9.36~23.40
	1.25MPa	m ³ /min	1.16~2.90	2.24~5.60	3.08~7.70	3.76~9.40	5.16~12.90	5.84~14.60	7.12~17.80	8.60~21.50
Main Motor Power	kW	22	37	45	55	75	90	110	132	
Starting Method	Type	PM Motor + Inverter								
Voltage / Frequency	V/Hz	220/380/415/440V、50/60Hz								
Discharge Temperature	°C	≤ Ambient +15°C								
Transmission Method		Coupling								
Discharge Pipe Diameter	in.	G1 1/4	G2	G2	G2	G2	Square Flange DN80		Flange DN80, JB/T81-1994	
Length	mm	1500	1600	2250	2250	2250	2600	2600	2900	
Width	mm	1060	1160	1344	1344	1344	1750	1750	1750	
Height	mm	1450	1600	1694	1694	1694	1850	1850	2100	
Weight	kg	920	1150	2220	2350	2520	3050	3200	3950	

FASV ⁺ -TMA MODEL		FASV ⁺ 160A/W -TMA	FASV ⁺ 185A/W -TMA	FASV ⁺ 200A/W -TMA	FASV ⁺ 220A/W -TMA	FASV ⁺ 250A/W -TMA	FASV ⁺ 280A/W -TMA	FASV ⁺ 315W -TMA	FASV ⁺ 355W -TMA	
Delivery	0.7MPa	m ³ /min	13.96~34.90	16.40~41.00	17.56~43.90	19.80~49.50	22.00~55.00	24.20~60.50	25.60~64.00	29.20~73.00
	0.8MPa	m ³ /min	13.20~33.00	15.36~38.40	17.00~42.50	18.40~46.00	21.20~53.00	22.80~57.00	24.80~62.00	28.40~71.00
	1.0MPa	m ³ /min	11.60~29.00	13.16~32.90	15.40~38.50	16.20~40.50	18.60~46.50	20.40~51.00	21.60~54.00	24.00~60.00
	1.25MPa	m ³ /min	10.60~26.50	11.64~29.10	13.20~33.00	15.20~38.00	16.20~40.50	18.60~46.50	19.20~48.00	21.40~53.50
Main Motor Power	kW	160	185	200	220	250	280	315	355	
Starting Method	Type	PM Motor + Inverter								
Voltage / Frequency	V/Hz	220/380/415/440V、50/60Hz								
Discharge Temperature	°C	≤ Ambient +15°C								
Transmission Method		Coupling								
Discharge Pipe Diameter	in.	Flange DN80, JB/T81-1994		Flange DN100, JB/T81-1994			Flange DN100, JB/T81-1994			
Length	mm	2900	3750	3750	3750	3750	4200	4200	4200	
Width	mm	1750	2150	2150	2150	2150	2780	2780	2780	
Height	mm	2100	2250	2250	2250	2250	2350	2350	2350	
Weight	kg	4250	4800	5000	5400	5600	6850	8150	8850	

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) and different frequency 60Hz are available.
- 3.The special pressure (0.5~1.25MPa) can be customized.
- 4.-*TMA models are two-stage compression (fixed or variable speed two-stage compressors are available).

FPM Oil-cooled Permanent Magnetic Variable Speed Screw Air Compressors



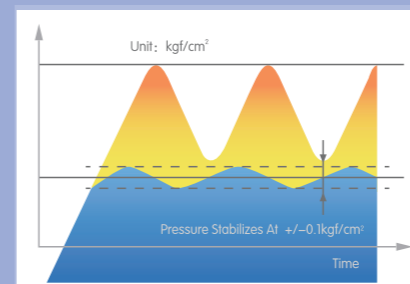
Features :

- ▶ New generation of efficient airend, better performance.
- ▶ IE5 high efficiency oil-cooled permanent magnet synchronous motor is the guarantee of energy saving, higher efficiency than ordinary motors.
- ▶ Customized integrated energy-saving inverter, accurate pressure control, fast response.
- ▶ 7-inch color touch screen, intelligent microcomputer control, visible energy saving, automatic adjustment for variable speed control of the air.
- ▶ Remote-controlled function.



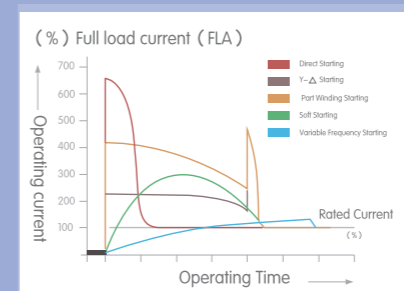
Intelligent Color Screen Control System

Intelligent color screen design, including the current monitoring data display of the main motor and fan motor, and other multi-point control mode, easy to control, with a good human-computer interaction interface experience.



Constant Pressure Air Supply

Frequency converting control can instantly reflect the change of air volume, the fluctuation of air supply pressure is stable below 0.1kgf/cm², and there is no required setting of 1-2kgf/cm² pressure difference between empty and load, can greatly save electricity.



Variable Frequency Starting

Variable frequency starting, smooth linear operation, no high current of traditional direct start or star triangle start. Reduce the impact on the line and electrical, greatly extend the service life of the electromagnetic contactor, motor and airend.



New Generation Airend

Airend(EU-COMP) minimizes the backflow of the compressed air, and optimizes the rotor molded lines to realize higher overall efficiency. Large rotor and low speed design, less vibration, less noise and longer service life. High precision bearings and high quality shaft seals, reliable use, long service life, ensure no leakage, the service life of the bearing can be up to 60,000 hours.



Oil-cooled Permanent Magnet Synchronous Motor

Driven by IE5/IP65 high efficient oil-cooled permanent magnet synchronous motor, the frequency conversion adjustment is more accurate, the magnetic steel grade is 48SHT/48UH, the spiral cooling oil channel makes cooling uniform, no degaussing phenomenon under the ultimate temperature operating condition, long service life and reliable energy-saving effect.

FPM MODEL		FPM08A-*	FPM11A-*	FPM15A-*	FPM18A-*	FPM22A-*	FPM30A-*	FPM37A-*	FPM55A-*	FPM75A-*
Discharge Pressure	0.7MPa	m ³ /min 0.44~1.10	0.73~1.82	1.02~2.55	1.32~3.30	1.60~4.00	2.16~5.40	2.68~6.70	4.28~10.70	5.52~13.80
	0.8MPa	m ³ /min 0.41~1.02	0.69~1.72	0.96~2.40	1.20~3.00	1.52~3.80	2.08~5.20	2.52~6.30	3.84~9.60	5.20~13.00
	1.0MPa	m ³ /min 0.38~0.95	0.60~1.50	0.82~2.05	1.02~2.55	1.36~3.40	1.84~4.60	2.30~5.75	3.52~8.80	4.68~11.70
	1.25MPa	m ³ /min 0.33~0.83	0.56~1.40	0.74~1.85	0.92~2.30	1.20~3.00	1.62~4.05	2.02~5.05	3.24~8.10	4.10~10.25
Power	kW	7.5	11	15	18.5	22	30	37	55	75
Starting Method	Type	IP65/IE5 PM Motor + Inverter								
Voltage/Frequency	V/Hz	380/415/440V、50/60Hz								
Rear cooler outlet temperature	°C	≤ Ambient temperature+15°C								
Transmission Method		Coaxial Direct Transmission								
Discharge Pipe Diameter	in.	G3/4	G3/4	G3/4	G1	G1	G1-1/4	G1-1/4	G2	G2
Length	mm	680	680	680	780	780	920	920	1160	1160
Width	mm	680	680	680	780	780	840	840	1440	1440
Height	mm	1220	1240	1240	1300	1300	1422	1422	2050	2050
Weight	kg	245	260	270	300	320	425	450	1870	2000

Remarks:

1. The symbol "*" in the model means different discharge pressure, such as 0.7/0.8/1.0/1.25MPa show as 7/8/10/12.
2. Specific voltage(220V)、Specific frequency(60Hz) can be customized.
3. Specific pressure(0.5~1.6MPa) can be customized.

FAS-16F All-In-One Air Compressor For Laser Cutting Application



Features

- Integrated all the components in the unit, No installation required, Plug-and-Play.
- Ensure the compressor air with low dew point, dry, oil free and clean condition when it supplies to the laser cutting machine.
- Small footprint. Easily to reach the maintenance points and provide enough maintenance space.
- Equipped with 4 grades precision filters to make sure the compressed air quality.



Machine Model		FAS08A-16F	FAS11A-16F	FAS15A-16F	FAS18A-16F	FAS22A-16F	FAS30A-16F Skid Mounted Design	FAS37A-16F Skid Mounted Design	
Delivery	1.6MPa m ³ /min	0.60	1.00	1.45	1.70	2.20	2.90	3.80	
Main Motor Power	kW	7.5	11	15	18.5	22	30	37	
Starting Method	Type	Y-Δ							
Voltage / Frequency	V/Hz	220/380/415/440V、50/60Hz							
Transmission Method		Belt							
Discharge Pipe Diameter	in.	G1	G1	G1	G1-1/2	G1-1/2	G1-1/2	G1-1/2	
All-In-One Model	Pressure Dew Point	°C 2~10							
	Tank Capacity	L	270	270	270	500	500	1000	1000
	Length	mm	1690	1690	1800	2060	2060	2900	2900
	Width	mm	820	820	850	925	925	1000	1000
	Height	mm	1750	1750	1750	1810	1810	2120	2120
Weight	kg	560	580	680	800	870	1290	1320	

Remark:

- Different voltage (220V/415V/440V/660V) and different frequency 60Hz are available.
- Variable frequency/permanent magnet variable frequency models are available.
- Optional adsorption dryer assembly.

FASM-16、 FASM-16F Permanent Magnetic Variable Speed Screw of Special for Laser Cutting Air Compressors

Special for Laser cutting integrated air compressor product features:

- Integrated, no need to install, start anytime with power.
- Ensuring low air dew point temperature to make the compressed air entering the laser cutting machine dry and oil-free, the air quality can be more dry and pure.
- Small floor space, all maintenance points within reach. Provide adequate maintenance space.
- Equipped with four-stage precision filter to ensure the compressed air more pure.
- New generation of efficient airoend, better performance.
- IE4 high efficiency permanent magnet synchronous motor is the guarantee of energy saving, higher efficiency than ordinary motors.
- Customized integrated energy-saving inverter, accurate pressure control, fast response.



FASM-16 Series Compressor

FASM-16 Model		FASM08A-16	FASM11A-16	FASM15A-16	FASM18A-16	FASM22A-16	FASM30A-16	FASM37A-16
Discharge Pressure	1.6MPa m ³ /min	0.30~0.60	0.50~1.00	0.73~1.45	0.85~1.70	1.10~2.20	1.50~3.00	1.90~3.80
Power	kW	7.5	11	15	18.5	22	30	37
Starting Method	Type	PM Motor +Inverter						
Voltage/Frequency	V/Hz	220/380/415/440V、50/60Hz						
Rear cooler outlet temperature	°C	≤ Ambient temperature+15°C						
Transmission Method		Coaxial direct transmission						
Discharge Pipe Diameter	in.	G3/4	G3/4	G3/4	G1	G1	G1-1/4	G1-1/4
Length	mm	680	680	680	780	780	920	920
Width	mm	680	680	680	780	780	840	840
Height	mm	1220	1240	1240	1300	1300	1422	1422
Weight	kg	245	260	270	300	320	425	450

FASM-16F Series provide integrated: Compressor Gas Receiver Pre-filter Dryer Post-filter Ultra-high efficiency filter High precision filter

FASM-16F Model		FASM08A-16F	FASM11A-16F	FASM15A-16F	FASM18A-16F	FASM22A-16F	FASM30A-16F Packaging Compressor	FASM37A-16F Packaging Compressor	
Discharge Pressure	1.6MPa m ³ /min	0.30~0.60	0.50~1.00	0.73~1.45	0.85~1.70	1.10~2.20	1.50~3.00	1.90~3.80	
Power	kW	7.5	11	15	18.5	22	30	37	
Starting Method	Type	PM Motor +Inverter							
Voltage/Frequency	V/Hz	220/380/415/440V、50/60Hz							
Transmission Method		Coaxial direct transmission							
Discharge Pipe Diameter	in.	G1	G1	G1	G1-1/2	G1-1/2	G1-1/2	G1-1/2	
Full performance type	Pressure Dew Point	°C 2~10							
	Gas Received Capacity	L	270	270	270	250x2	250x2	1000	1000
	Length	mm	1600	1600	1600	2060	2060	2620	2620
	Width	mm	800	800	800	935	935	940	940
	Height	mm	1900	1920	1920	1860	1860	2475	2475
Weight	kg	525	540	550	600	620	970	1000	

Remarks :

- Specific voltage(220V/415V/440V)、 Specific frequency(60Hz) can be customized.
- Optional adsorption dryer assembly.

FSD REFRIGERATED AIR DRYER

FSD SERIES OF STANDARD AIR-COOLED /HIGH TEMPERATURE AIR-COOLED

Working Conditions

- ▶ Incoming air pressure: 0.2-1.0MPa
- ▶ Pressure loss: ≤0.025MPa
- ▶ Pressure dewpoint: 2-10°C
- ▶ Incoming air temperature:
Standard temperature ≤45°C , High temperature: ≤ 80 °C
- ▶ Ambient temperature: ≤ 40°C
- ▶ Environment of installation: well-ventilated and dust-free place
- ▶ Assembling lieu: space is neat , don't need foundation ,
80 centimeters of distance wall surface
- ▶ Special specification can be requested



FSF COMPRESSED AIR FILTER

THE GRADE OF FSF SERIES OF COMPRESSED AIR FILTER

- ▶ C Type, Main Pipeline Filter
- ▶ T Type, Air Pipeline Filter
- ▶ A Type, High Efficiency Eliminates Oil Filter
- ▶ F Type, Super High Efficiency Eliminates Oil Filter
- ▶ H Type, Activated Carbon-oil Mist Filter



THE SPECIFICATION OF FSD SERIES OF STANDARD AIR-COOLED

FSD MODEL	Flow (Nm³/min)	Power	Compressor power(kW)	Fan Motor (w)	Refrigerant	Pipe Diameter	External Dimension L*W*H(mm)	Weight (kg)
FSD-15A	1.6	1 Ph\220V\50Hz	0.39	80	R410A	G1	760X430X720	79
FSD-20A	2.4	1 Ph\220V\50Hz	0.915	90	R410A	G1	760X430X720	81.5
FSD-30A	3.8	1 Ph\220V\50Hz	0.915	90	R410A	G1-1/2	760X430X720	84
FSD-40A	5.2	1 Ph\220V\50Hz	1.32	120	R410A	G1-1/2	940X550X830	170
FSD-50A	6.5	1 Ph\220V\50Hz	1.57	120	R410A	G1-1/2	940X550X830	173.5
FSD-60A	8.5	1 Ph\220V\50Hz	1.77	120	R410A	G2	940X550X930	240
FSD-75A	11.7	1 Ph\220V\50Hz	1.94	180	R410A	G2	1100X600X950	260
FSD-100A	13	1 Ph\220V\50Hz	2.57	240	R410A	G2	1300X620X950	275
FSD-125A	17	3Ph\380V\50Hz	2.94	360	R410A	PN1.0DN80 Flange	1400X650X1150	380

THE SPECIFICATION OF FSD SERIES OF HIGH TEMPERATURE AIR-COOLED

FSD MODEL	Flow (Nm³/min)	Power	Compressor power(kW)	Fan Motor (w)	Refrigerant	Pipe Diameter	External Dimension L*W*H(mm)	Weight (kg)
FSD-15AH	1.6	1 Ph\220V\50Hz	0.39	160	R410A	G1	760X430X970	94.5
FSD-20AH	2.4	1 Ph\220V\50Hz	0.39	170	R410A	G1	760X430X970	99
FSD-30AH	3.8	1 Ph\220V\50Hz	0.915	170	R410A	G1-1/2	760X430X970	103
FSD-40AH	5.2	1 Ph\220V\50Hz	1.32	210	R410A	G1-1/2	900X550X1090	170
FSD-50AH	6.5	1 Ph\220V\50Hz	1.57	210	R410A	G1-1/2	900X550X1090	197
FSD-60AH	8.5	1 Ph\220V\50Hz	1.77	240	R410A	G2	940X550X1210	290
FSD-75AH	11.7	1 Ph\220V\50Hz	1.94	300	R410A	G2	1100X610X1350	380
FSD-100AH	13	1 Ph\220V\50Hz	2.57	420	R410A	G2	1300X620X1290	380
FSD-125AH	17	3Ph\380V\50Hz	2.94	600	R410A	PN1.0DN80 Flange	1550X650X1320	470

THE SPECIFICATION OF FSF SERIES OF COMPRESSED AIR FILTER

FSF MODEL	Flow (Nm³/min)	Pipe Diameter	L*W (mm)	Filter Element	Element (kg)	External Dimensions (mm)
FSF-018(Grade)	1.6	ZG 1" Female	290x105	1	4.5	
FSF-024(Grade)	2.4	ZG 1" Female	290x105	1	5	
FSF-038(Grade)	3.8	ZG 1 1/2" Female	365x125	1	6	
FSF-052(Grade)	5.2	ZG 1 1/2" Female	490x125	1	7	
FSF-065(Grade)	6.5	ZG 1 1/2" Female	490x125	1	8	
FSF-085(Grade)	8.5	ZG 2" Female	620x135	1	8	
FSF-117(Grade)	11	ZG 2" Female	620x135	1	8	
FSF-130(Grade)	13	ZG 2" Female	700x140	1	15	
FSF-170(Grade)	17	DN80FL	1030x320	1	47	

Filter working pressure 0.2-1.0MPa, more than 1.0MPa, when ordering please annotated to indicate. Automatic drainer (-D) , pressure difference monitors(-G) is purchase accessories.