



SL+ Series

Low Pressure Screw Air Compressor

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Pursuing Excellence,
Enriching Life

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FS-AIoT



Implementation of an intelligent interconnected control system



Analysis of critical data

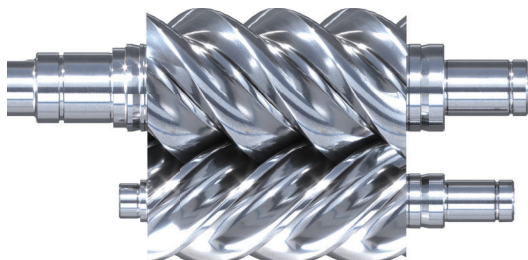


ISO 50001 and 800 kW Energy-Reporting Requirements



Formulate precise management decisions

Application Fields



Significant Energy Savings

Better Suited to Industry Requirements
Direct Output of 3-5 bar Compressed Air

Infused with FS-AIoT A key management tool for air-compression, air-conditioning, and energy-consumption equipment

We are proud not only of the technologies and systems that have earned higher energy-efficiency certifications, but also of our proven expertise as energy-saving specialists for air compressors, air-conditioning systems, and cold-chain systems. Fusheng has more than 70 years of hardware-software integration experience and applies innovation to every product and service through extensive industrial expertise and technical strength.

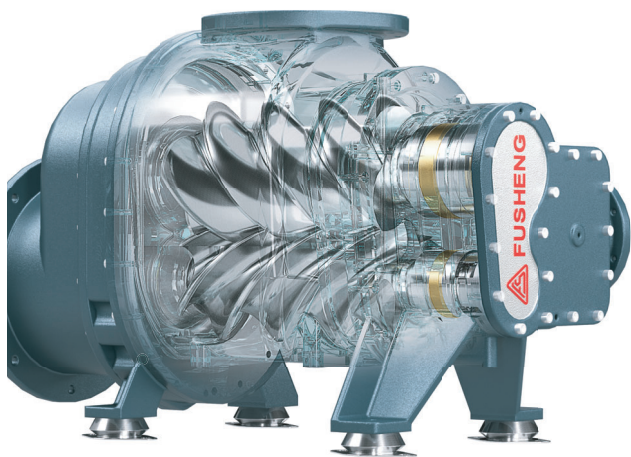
Born for Enterprise Energy Efficiency Comprehensive Equipment Management Solutions

Real-time monitoring integrates all plant equipment, transforming complex data into visualized and intelligent information, uncovering hidden energy-saving potential to reduce not only operating costs but also management costs.

- Abnormal alarm / maintenance notification in real time
- Intelligent control mechanism
- Historical trend analysis
- Power-consumption overview of equipment groups
- Intelligent demand management
- Automated periodic reports
- Intuitive HMI operating interface



Energy-Efficient Because It's the Right Fit



Developed Specifically for Low-Pressure Applications

- Screw main unit designed specifically for low-pressure conditions, directly outputting low-pressure compressed air at the appropriate pressure to achieve the required delivery with lower energy consumption.
- Rotor clearances and main unit casing are precisely designed. It's not just about modifying the discharge port—all design elements meet the requirements for high flow rate and low pressure, such as the enlarged bearing housing.



High-Efficiency Cooling Flow Field

- The cooling system uses a heavy-duty centrifugal fan that directly draws in cooler air for cooling; the cooler itself also has an extremely large heat-exchange area, delivering optimal cooling performance. The centrifugal fan, positioned inside the unit, directly expels hot air through the suction openings, maintaining a consistently lower internal temperature in the compressor while significantly reducing operating noise.

When cleaning the air-cooled cooler, there is no need to remove the air guide cover—simply removing the cover plate is sufficient.



Thoughtful and efficient overall design

- System and structural layout all adhere to principles of high reliability, high efficiency, and low noise.
- The motor, air filter, and electrical control box all have independent air intake channels, with the intake ports featuring noise-reduction design.
- All pipelines and connections are designed with larger dimensions to reduce pressure drop.

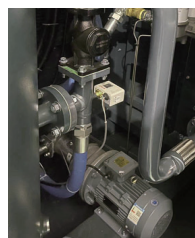
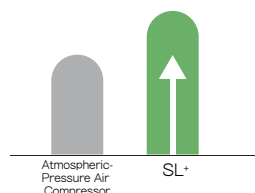
Direct Output at Appropriate Pressure

- The Fusheng SL+ Series low-pressure screw compressor directly outputs compressed air at a discharge pressure of 3–5 bar, providing greater delivery while meeting low-pressure requirements and eliminating waste caused by pressure-reduction devices. Saves over 30% energy compared with using conventional compressors.

Safe and Efficient Independent Oil Pump Design

- In the design of 0.3 MPa models, we have incorporated an independent oil pump design to ensure the oil pressure required for air compressor system operation, providing safe and reliable performance.
- Intermittent operation automatically senses oil pressure requirements and starts accordingly, avoiding unnecessary energy waste.

Energy Savings of Over 30%



Independent Bearing Lubrication Circuit



- Bearing lubrication uses independent lubrication lines, providing more thorough lubrication and cooling for the bearings.
- Equipped with a separate oil filter to ensure lubricating oil cleanliness and extend bearing service life.

Masterfully Designed Oil—Air Separation System

- Multiple layers of temperature protection provide higher reliability, lower maintenance costs, and faster servicing.
- Fusheng's proprietary shaft-barrel cover design enables rapid replacement of the oil-separator element.



Intelligent Controller

- Clear and intuitive interface, supporting multiple languages
- Superior anti-interference performance
- Remote start/stop function
- Equipped with CAN network communication interface



Enables intelligent IoT control for real-time monitoring of compressor operation

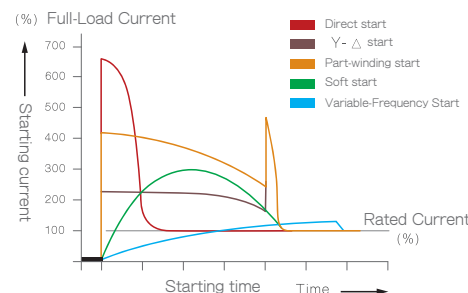
Color touchscreen design with a comfortable human-machine interface

Intelligent monitoring of key components (motor / inverter)

Standard RS485 communication allows sequential control of multiple units

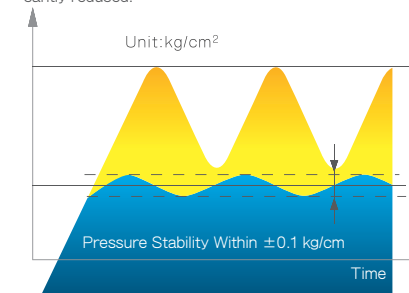
Variable-Frequency Start

Variable-frequency starting provides smooth linear operation without the high inrush current of traditional direct start or star-delta start. Reduces electrical impact on circuits and significantly extends the service life of contactors, motors, and compressor assemblies.



Constant-Pressure Air Supply

Variable-frequency control responds immediately to fluctuations in customer air demand, maintaining stable supply-pressure variation. Without the 1–2 kg/cm² pressure differential required by traditional compressors, electricity consumption can be significantly reduced.



SL+ Series (0.5 MPa Model)

Model	Unit	SL+55A-3	SL+75A-3	SL+90A-3	SL+110A-3	SL+132A-3	SL+160A-3	
Delivery	m³/min	18.2	23.6	27.5	33.8	41.0	50	
Working Pressure	MPa	0.3						
Cooling Method	—	Air-Cooled						
Motor Power	kW	55	75	90	110	132	160	
Voltage/Frequency	V/Hz	380/50						
Starting Method	—	Y-△						
Overall Dimensions	Length	mm	2980	3300	3300	3700	3700	4500
	Width	mm	1800	2120	2120	2100	2100	2370
	Height	mm	1805	1998	1998	2100	2100	2250
Weight	kg	3450	4400	4500	5000	5200	7000	

SL+ Series (0.5 MPa Model)

Model	Unit	SL+55A-5	SL+75A-5	SL+90A-5	SL+110A-5	SL+132A-5	SL+160A-5	SL+200A-5
Delivery	m ³ /min	13.5	17.0	21.0	25.7	31.5	39.5	49.4
Working Pressure	MPa	0.5						
Cooling Method	—	Air-Cooled						
Motor Power	kW	55	75	90	110	132	160	200
Voltage/Frequency	V/Hz	380/50						
Starting Method	—	Y-Δ						
Overall Dimensions	Length	mm	2980	2980	3300	3300	3700	3700
	Width	mm	1800	1800	2120	2120	2100	2100
	Height	mm	1805	1805	1998	1998	2100	2100
Weight	kg	3400	3600	4500	4650	5200	5800	6500

SLV+ Series Permanent-Magnet Variable Frequency (0.3 MPa Model)

Model	Unit	SLV+55A-3	SLV+75A-3	SLV+90A-3	SLV+110A-3	SLV+132A-3	SLV+160A-3	
Delivery	m³/min	5.46~18.2	7.08~23.6	8.25~27.5	10.14~33.8	12.3~41.0	20.0~50.0	
Working Pressure	MPa	0.3						
Cooling Method	—	Air-Cooled						
Motor Power	kW	55	75	90	110	132	160	
Voltage/Frequency	V/Hz	380/50						
Starting Method	—	Variable-Frequency Start						
Overall Dimensions	Length	mm	3250	3500	3500	3900	3900	4500
	Width	mm	1800	2120	2120	2100	2100	2370
	Height	mm	1805	1998	1998	2100	2100	2250
Weight	kg	3600	4550	4650	5200	5500	7500	

SLV+ Series Permanent-Magnet Variable Frequency (0.5 MPa Model)

Model	Unit	SLV+55A-5	SLV+75A-5	SLV+90A-5	SLV+110A-5	SLV+132A-5	SLV+160A-5	SLV+200A-5
Delivery	m ³ /min	4.05-13.5	5.10-17.0	6.30-21.0	7.71-25.7	9.45-31.5	11.85-39.5	14.82-49.4
Working Pressure	MPa	0.5						
Cooling Method	—	Air-Cooled						
Motor Power	kW	55	75	90	110	132	160	200
Voltage/Frequency	V/Hz	380/50						
Starting Method	—	Variable-Frequency Start						
Overall Dimensions	Length	mm	3250	3250	3500	3500	3900	3900
	Width	mm	1800	1800	2120	2120	2100	2100
	Height	mm	1805	1805	1998	1998	2100	2100
Weight	kg	3550	3800	4650	4850	5600	6500	7300