



SA Series Rotary Screw Air Compressor

15-400kW





PURSuing EXCELLENCE ENRICHING LIFE

Fusheng has always adhered to the philosophy of “providing excellent products and services through innovation” in the optimization of product design, manufacturing processes, and customer service with the ISO9001 quality management system. We believe our “visible quality process,” is the key. Our products are sold in more than 60 countries around the world and have earned a notable reputation for providing extraordinary added value to our customers.

Our business strategy is diversification, globalization, and customer-oriented service across our entire business spectrum, which includes: air compressors, refrigerant compressors, golf club heads, semiconductors, automotive precision products, medical, aerospace and commercial industries, information technology, international trade and environmental protection.

To internationalize our marketing coverage, we have established production facilities in Taiwan, China (Beijing, Shanghai, Zhongshan), Vietnam, the U.S. (Pittsburg, St. Louis), Germany and Spain, as well as branch offices in Thailand, Malaysia and Indonesia. Our well-established distribution channels ensure the highest quality service to our valued customers – worldwide.

Our continued pursuit of precision and perfection, the drive for optimum quality, and exceedingly high expectations for personable and enthusiastic customer service, will always be our ultimate goals and measures of success. We believe our sincere commitment to these principles will benefit and enrich people’s lives and bring a higher standard of excellence to the industry.



Efficiency and Productivity

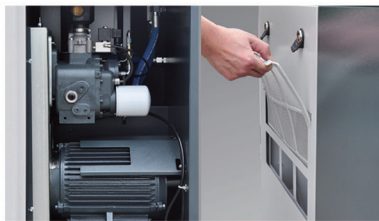
Since 1953, Fusheng Air Compressor has empowered generations with the air power needed to turn visions into reality. Today, Fusheng SA Series compressors honor that heritage by combining creative ingenuity with advanced engineering to deliver world-class innovation and outstanding value.

Efficient and Effective

Fusheng's legendary reliability is crafted into every SA Series rotary screw air compressor. Through the most advanced rotor - crafting techniques in the industry, precision - cast rotor blanks are machined in clean, climate - controlled environments to ensure consistent tolerances that maximize compression efficiency. Each quiet space savings package incorporates eCOOL™ Technology through compartmentalized thermal zones that increase efficiency and improve performance under pressure.



User-Friendly



Maintenance Friendly – SA series' compact design provides ample surrounding floor space for easy maintenance and service. The washable cabinet pre-filter cleans incoming air, lowering operating costs and ensuring greater compressor reliability and higher air quality.



Available with optional GoService™ IOT controller .

- Status Overview
- Real Time Service
- Predictive Maintenance
- Energy Diagnosis
- Data Analysis
- Historic Information



With optional VSD that allows you to match your energy usage to current system demand, our SAV series air compressors help you maximize energy efficiency. Matches supply capacity to fluctuating demand.

Soft starting allows unlimited starts and stops.

Lower motor speed reduce noise level, extends motor life and saves energy.

Environmentally-Conscious Design

- **Environmentally - friendly Components** – We fervently consider our environmental impact during the earliest stages of design, choosing eco-friendly components to create products that minimize environmental effects while also prolonging product life. Examples include, eco-friendly coating for pipes and fittings and R134a for dryers.
- **IE3 premium efficiency motor** – IE3 motor represents a contribution to a comprehensive package of measures intended to reduce CO₂ emissions and increase energy efficiency.
- **Low Noise Level** – Provides high-quality compressed air and a quite working environment.
- **O-ring Sealing** – Helps avoid leakage and makes for easier service.
- **Small Footprint** – Free up your workshop space while minimizing pressure drop.



Precision Build Airend



Every Fusheng air compressor incorporates components of the highest quality. From the smallest airend to the largest, each features the latest in rotor profile architecture, combined with multiple roller and angular bearings. Our confidence in the durability and integrity of our design to withstand the radial and thrust forces generated by the compression process, is reflected by our industry-leading airend warranty.

SA series unique design optimizes volumetric efficiency and rotor profile to improve compression efficiency. The innovational airend design introduces axial and radial air suction flow to bring following advantages:

- Fully utilize rotor length to maximize the compression efficiency
- Reduce radial unbalance force to improve airend service span
- Lower operational noise level

High Efficient Design

Inlet Air System

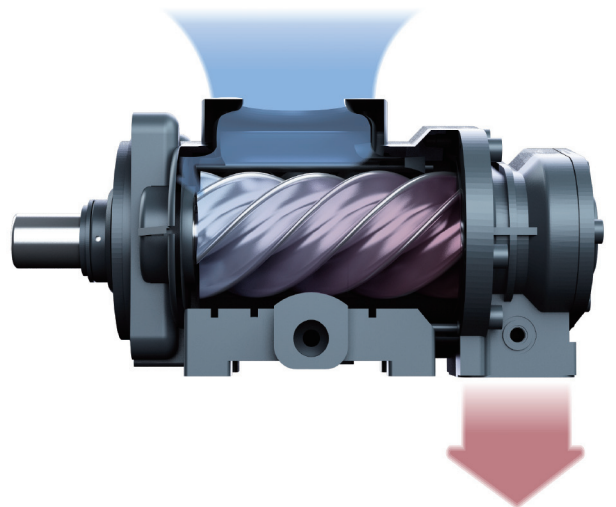


- Feature deep pleating and heavy-duty construction with integral dirt-purge.
- Strategic air inlet port positioning receives the coolest air as it enters the cabinet to ensure superior volumetric efficiency

Inlet Valve



- Fusheng patent inlet valve with streamline flow design optimizes suction efficiency, minimizes pressure drop, turbulent and noise level.
- Optimize air flow by automatically adjust suction air according to actual air demand.
- Heavy-duty design ideally suited for industrial applications.



Air/Oil Separator



- Provides excellent oil coalescence, resulting in low 1-3 ppm w/w oil carryover and low pressure drop. This lowers make-up oil costs while you enjoy higher quality compressed air.
- Fusheng patent rotating shaft design to make oil separator element replacement much easier. (SA75-SA280)

AIMS Plus Intelligent Control System

Standard Features Include:

- User-friendly interface with informative menu structure.
- Remote Start/Stop.
- Frost protection as low as -10°C .
- Service timers for optimized maintenance.
- Automatic or manual lead/lag control.
- Up to 8 units can be sequentially controlled.
- RS485 communication port.
- Main motor and fan motor Ampere monitor.
- Supports multiple languages:
English, German, Italian, Spanish, Portuguese and Chinese.
- Emergency stop.
- IP54 electrics.



e-COOL™ Technology

e-COOL™ is environmentally-friendly technology combining smart compressor layout, strategic component selection and location, and cooling airflow and operation to minimize the impact of temperature on compressor efficiency and reliability.

- Maximum Reliability – Less thermal stress extends life of components.
- High Efficiency – Centrifugal cooling fan maximizes heat exchange efficiency.
- Lower Operating Costs – Lower internal compressor temperatures results in better volumetric and electrical efficiency.
- Better Air Quality – Cooler operation means less residual oil in the compressed air



eCOOL™
TECHNOLOGY

Technical data SA15-400 (Fix Speed)

Model	Working Pressure(MPa)	FAD (m ³ /min)	Power (kW)	Dimension (L×W×H mm)		Weight (kg)	
				Air-cooling	Water-cooling	Air-cooling	Water-cooling
SA15	0.75	2.5	15	1250×880×1515		610	--
	0.85	2.3					
	1.05	2.1					
	1.25	1.8					
SA18	0.75	3.2	18.5			653	--
	0.85	3.0					
	1.05	2.7					
	1.25	2.4					
SA22	0.75	3.9	22			681	--
	0.85	3.7					
	1.05	3.2					
	1.25	2.8					
SA30	0.75	5.4	30	1350×940×1680		857	--
	0.85	5.1					
	1.05	4.5					
	1.25	3.8					
SA37	0.75	6.6	37			895	--
	0.85	6.3					
	1.05	5.6					
	1.25	4.9					
SA45	0.75	8.3	45	2000×1250×1750		1555	1595
	0.85	7.7					
	1.05	7.2					
	1.25	6.4					
SA55	0.75	10.3	55			1640	1690
	0.85	10.1					
	1.05	8.4					
	1.25	7.6					
SA75	0.75	14.0	75	2180×1330×1850		2025	2013
	0.85	12.8					
	1.05	11.8					
	1.25	10.6					
SA90	0.75	16.4	90			2120	2108
	0.85	15.3					
	1.05	13.8					
	1.25	12.4					
SA110	0.75	21.0	110	2740×1710×1725		3000	
	0.85	20.0					
	1.05	17.0					
	1.25	15.3					
SA132	0.75	25.2	132			3500	
	0.85	23.2					
	1.05	21.0					
	1.25	18.3					
SA160	0.75	29.2	160			3700	
	0.85	27.9					
	1.05	24.6					
	1.25	21.9					
SA185	0.75	32.6	185	2900×1860×1945		3750	
	0.85	30.4					
	1.05	27.6					
	1.25	25.3					
SA200	0.75	35.2	200			3750	
	0.85	33.7					
	1.05	30.3					
	1.25	27.7					
SA220	0.75	41.2	220	3520×2290×2030		6500	
	0.85	40.0					
	1.05	35.5					
	1.25	32.2					
SA250	0.75	46.5	250			6500	
	0.85	45.5					
	1.05	40.6					
	1.25	36.8					
SA280	0.75	52.9	280			6500	6650
	0.85	50.0					
	1.05	44.5					
	1.25	41.2					
SA315	0.75	62.0	315	5300×2300×2300	4200×2300×2300	8900	7900
	0.85	57.5					
	1.05	51.0					
	1.25	45.2					
SA350	0.75	67.0	350			8900	7900
	0.85	63.0					
	1.05	57.0					
	1.25	51.0					
SA400	0.75	75.0	400			9000	8000
	0.85	70.5					
	1.05	63.8					
	1.25	58.0					

* SA220-400 installation dimension and weight are marked for 6000v/50z motor models. The rest of the models are all standard 380v model.

** SA220-250 are also available in 380V/50Hz, 10000V/50Hz, SA280-400 are also available in 10000V/50Hz. Please inquire for installation dimension and weight.

Technical data SAV15-250 (VSD)

Model	Working Pressure(MPa)	FAD (m³/min)	Power (kW)	Dimension (L×W×H mm)	Weight (kg)			
					Air-cooling	Water-cooling		
SAV15	0.75	0.75 ~ 2.50	15	1250×880×1515	610	--		
	0.85	0.69 ~ 2.30						
	1.05	0.63 ~ 2.10						
	1.25	0.54 ~ 1.80						
SAV18	0.75	0.96 ~ 3.20	18.5		1250×880×1515	653	--	
	0.85	0.90 ~ 3.00						
	1.05	0.81 ~ 2.70						
	1.25	0.72 ~ 2.40						
SAV22	0.75	1.17 ~ 3.90	22	1350×940×1680		681	--	
	0.85	1.11 ~ 3.70						
	1.05	0.96 ~ 3.20						
	1.25	0.84 ~ 2.80						
SAV30	0.75	1.62 ~ 5.40	30		1350×940×1680	857	--	
	0.85	1.53 ~ 5.10						
	1.05	1.35 ~ 4.50						
	1.25	1.14 ~ 3.80						
SAV37	0.75	1.98 ~ 6.60	37			1350×940×1680	895	--
	0.85	1.89 ~ 6.30						
	1.05	1.68 ~ 5.60						
	1.25	1.47 ~ 4.90						
SAV45	0.75	2.49 ~ 8.30	45	2000×1250×1750			1590	1630
	0.85	2.31 ~ 7.70						
	1.05	2.16 ~ 7.20						
	1.25	1.92 ~ 6.40						
SAV55	0.75	3.09 ~ 10.3	55		2000×1250×1750		1660	1710
	0.85	3.03 ~ 10.1						
	1.05	2.52 ~ 8.40						
	1.25	2.28 ~ 7.60						
SAV75	0.75	4.20 ~ 14.0	75	2180×1330×1850		2010	1998	
	0.85	3.84 ~ 12.8						
	1.05	3.54 ~ 11.8						
	1.25	3.18 ~ 10.6						
SAV90	0.75	4.92 ~ 16.4	90		2180×1330×1850	2150	2138	
	0.85	4.59 ~ 15.3						
	1.05	4.14 ~ 13.8						
	1.25	3.72 ~ 12.4						
SAV110	0.75	8.40 ~ 21.0	110	2740×1710×1725		3100	3000	
	0.85	8.00 ~ 20.0						
	1.05	6.80 ~ 17.0						
	1.25	6.12 ~ 15.3						
SAV132	0.75	10.08 ~ 25.2	132		2740×1710×1725	3600	3500	
	0.85	9.28 ~ 23.2						
	1.05	8.40 ~ 21.0						
	1.25	7.32 ~ 18.3						
SAV160	0.75	11.68 ~ 29.2	160	2900×1860×1945		3800	3700	
	0.85	11.16 ~ 27.9						
	1.05	9.84 ~ 24.6						
	1.25	8.76 ~ 21.9						
SAV185	0.75	13.04 ~ 32.6	185		2900×1860×1945	3850	3750	
	0.85	12.16 ~ 30.4						
	1.05	11.04 ~ 27.6						
	1.25	10.12 ~ 25.3						
SAV200	0.75	14.08 ~ 35.2	200			2900×1860×1945	3850	3750
	0.85	13.48 ~ 33.7						
	1.05	12.12 ~ 30.3						
	1.25	11.08 ~ 27.7						
SAV220	0.75	16.48 ~ 41.2	220	3870×2290×2030			6500	
	0.85	16.00 ~ 40.0						
	1.05	14.20 ~ 35.5						
	1.25	12.88 ~ 32.2						
SAV250	0.75	18.60 ~ 46.5	250		3870×2290×2030		6500	
	0.85	18.20 ~ 45.5						
	1.05	16.24 ~ 40.6						
	1.25	14.72 ~ 36.8						



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