



## SA+III Series

Two Stage Rotary  
Screw Air Compressor



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Pursuing Excellence,  
Enriching Life





# Fusheng EMS



Smart integrated control system



Analyze key data

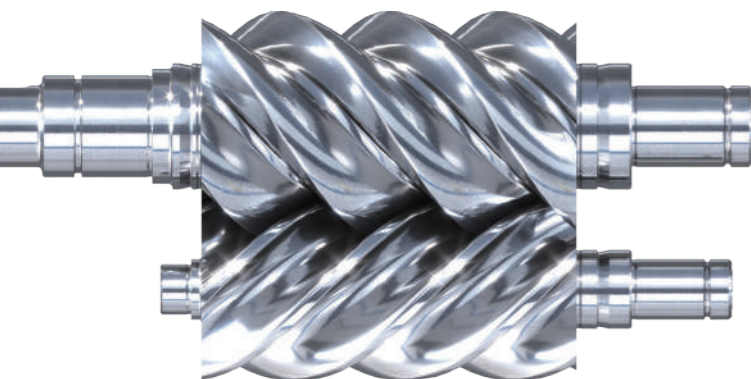


Compliant with ISO 50001 requirements



Enables precise management decisions

## Applications



More energy-saving.

More reliable.

More efficient.

### A key management tool for

## Fusheng EMS Air Compressors, HVAC, and Energy-Consuming Equipment

We take pride not only in our technologies and systems that have achieved higher energy efficiency certifications, but also in our proven expertise as an energy-saving specialist for air compressors, HVAC, and cold chain systems.

With over 70 years of experience in software and hardware integration, Fusheng leverages its extensive industry knowledge and technical strength to bring innovation into every product and service we offer.

### Born for Corporate Energy Efficiency

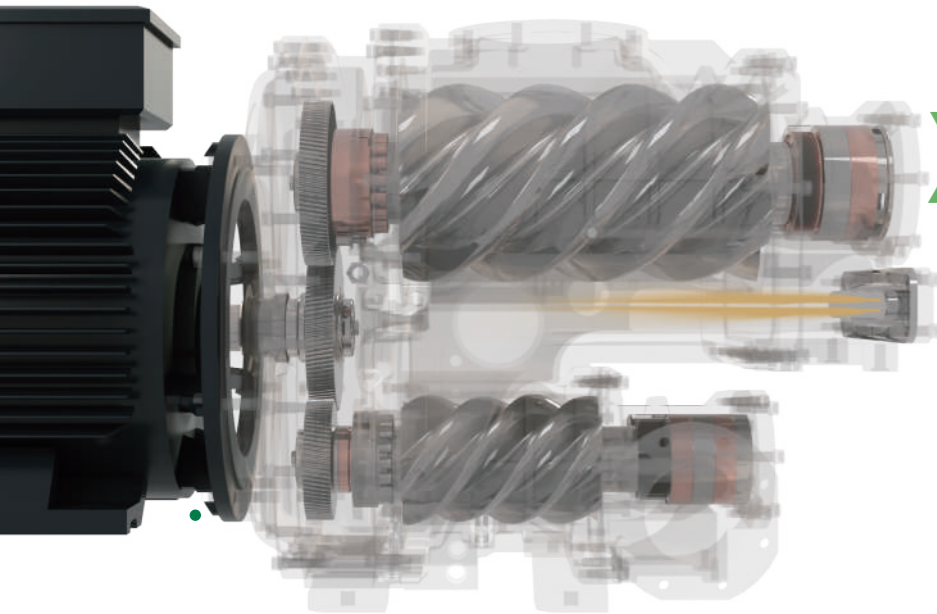
### A Comprehensive Equipment Management Solution

- Abnormal Alarm / Real-Time Maintenance Notifications
- Intelligent Control Mechanism
- Historical Trend Analysis
- Power Consumption Overview for Equipment Groups
- Smart Demand Management
- Automated Periodic Reports
- Intuitive HMI Interface

Real-time monitoring across all plant equipment simplifies complex data into smart, visual insights—unlocking hidden energy savings and cutting both operational and management costs.

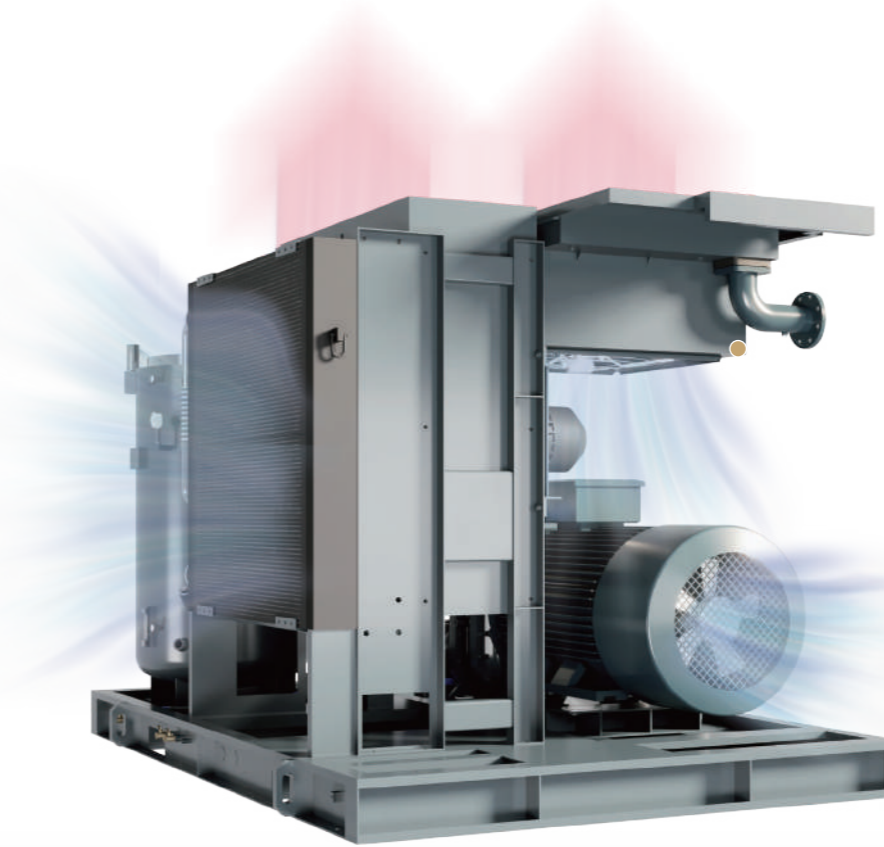


## Pursuing Excellence · Upgraded for Energy Savings



### Airend Interstage Lubrication Certified Patent No. CN 216842129 U

- The optimized interstage lubrication design creates a smoother cooling flow field, achieving superior compression efficiency.
- The coaxial design of the motor and gear ensures higher transmission efficiency while significantly reducing the footprint.



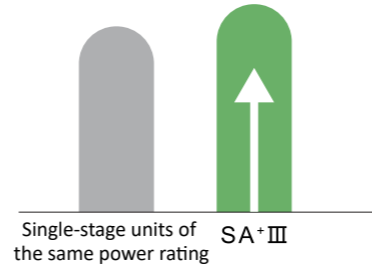
### Separated Cooler Certified Patent No. CN 219605535 U

- Breaking the limitations of single coolers, this design optimizes oil temperature while achieving lower compressed air outlet temperatures.
- The air-cooled model uses a centrifugal fan to directly draw in cooler external air and forcibly expel hot air inside the unit, maintaining a lower internal temperature.
- The water-cooled model features a robust shell-and-tube cooler with a straight-through tube design, resulting in lower pressure drop and easier cleaning.

## Significantly Enhanced Performance

- With upgrades focused on every design detail of the airend, the SA+ series achieves outstanding energy efficiency. This next-generation airend serves as the powerful heart of the system, delivering a remarkable boost in overall performance.

Performance improvement of over 15%



## Upgrade for Higher Energy Efficiency

- The optimized oil injection design reduces fluid resistance while enhancing the cooling effectiveness of the lubricant. Combined with a high-efficiency motor, the entire compressor unit delivers improved specific power performance.

## Up to 20% Smaller Footprint

- With a smarter and more efficient layout, the footprint is significantly reduced compared to previous models—while still allowing sample space for maintenance and service access.



## Independent Bearing Lubrication Circuit



- The bearings are lubricated through a dedicated oil circuit, ensuring more efficient lubrication and cooling.
- An individual oil filter is equipped to maintain the cleanliness of the lubrication oil.

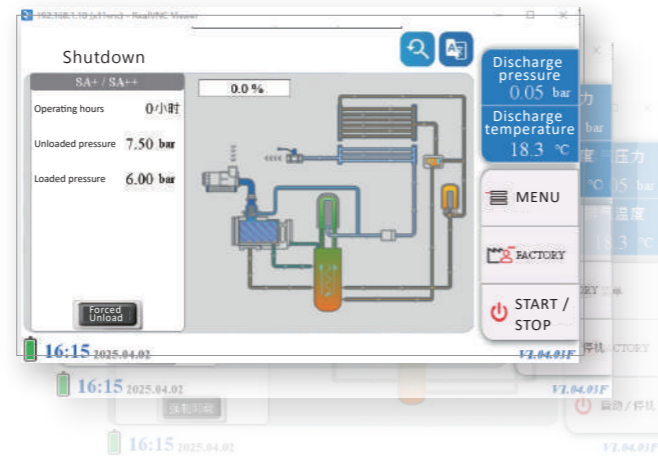
### Multi-layer Temperature Protection Certified Patent No. CN 212615255 U

- Multi-layer temperature protection ensures greater reliability, reduces maintenance costs, and speeds up repair times.
- Fusheng's specially designed shaft barrel cover allows quick replacement of the oil fine separator element.



## Intelligent Controller

- Intuitive and multilingual user interface for effortless operation
- Enhanced anti-interference performance ensures stable control
- Remote start/stop capability for flexible system management
- Built-in CAN bus communication interface for seamless integration



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

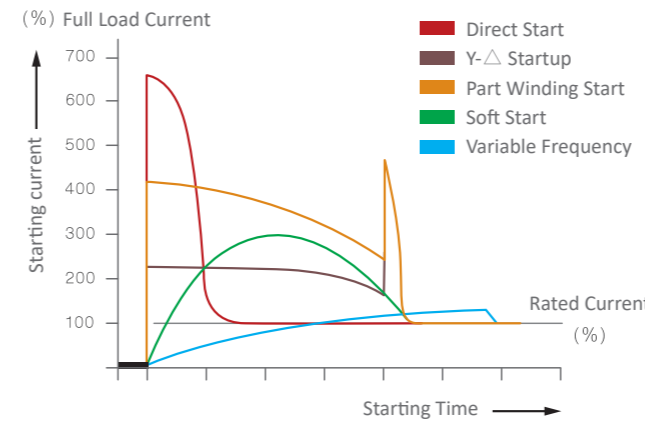
Large color touchscreen design with a user-friendly HMI interface

Intelligent monitoring of key components (motor/inverter)

Standard RS485 communication interface enables sequential control of multiple compressors

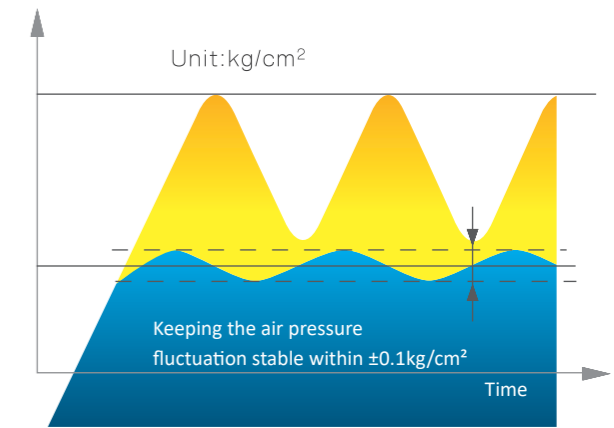
### Variable frequency startup

Soft startup with variable frequency, smooth linear operation without the high current of traditional direct startup or star-delta startup. Reduces impact on electrical circuits, significantly extending the service life of electromagnetic contactors, motors, and compressor aircend.



### Constant pressure air supply

Variable frequency control responds instantly to changes in air demand, maintaining stable discharge pressure. Unlike traditional compressors that require a 1–2 kg/cm<sup>2</sup> pressure differential for load/unload operation, this significantly reduces energy consumption.



## SA+ Series two-stage screw air compressor (Air-cooled model)

Model	Delivery m <sup>3</sup> /min	Working pressure MPa	Motor power kW	Length mm	Width mm	Height mm	Weight kg	Air outlet size
SA+55AIII	10.5	0.8	55	2200	1480	1800	2400	DN50
SA+75AIII	14.0	0.8	75	2200	1480	1800	2450	DN50
SA+90AIII	17.5	0.8	90	2400	1800	2000	3700	DN80
SA+110AIII	20.8	0.8	110	2400	1800	2000	3800	DN80
SA+132AIII	25.5	0.8	132	2800	2000	2000	4300	DN100
SA+160AIII	31.0	0.8	160	2800	2000	2000	4500	DN100
SA+200AIII	41.0	0.8	200	3200	2100	2100	6800	DN100
SA+250AIII	52.5	0.8	250	3200	2100	2100	7000	DN100

## SA+ Series two-stage screw air compressor (Water-cooled model)

Model	Delivery m <sup>3</sup> /min	Working pressure MPa	Motor power kW	Cooling water flow rate m <sup>3</sup> /h	Length mm	Width mm	Height mm	Weight kg	Air outlet size
SA+55WIII	10.5	0.8	55	12.0	2200	1480	1800	2350	DN50
SA+75WIII	14.0	0.8	75	14.0	2200	1480	1800	2400	DN50
SA+90WIII	17.5	0.8	90	20.0	2400	1800	2000	3600	DN80
SA+110WIII	20.8	0.8	110	20.5	2400	1800	2000	3700	DN80
SA+132WIII	25.5	0.8	132	21.0	2800	2000	2000	4100	DN100
SA+160WIII	31.0	0.8	160	21.5	2800	2000	2000	4300	DN100
SA+200WIII	41.0	0.8	200	23.0	3200	2100	2100	6400	DN100
SA+250WIII	52.5	0.8	250	27.0	3200	2100	2100	6600	DN100

## SAV+ Series permanent magnet variable frequency two-stage screw air compressor (Air-cooled model)

Model	Delivery m <sup>3</sup> /min	Working pressure MPa	Motor power kW	Length mm	Width mm	Height mm	Weight kg	Air outlet size
SAV+55AIII	4.20~10.5	0.8	55	2200	1480	1800	2500	DN50
SAV+75AIII	5.60~14.0	0.8	75	2200	1480	1800	2600	DN50
SAV+90AIII	7.00~17.5	0.8	90	2400	1800	2000	3800	DN80
SAV+110AIII	8.30~20.8	0.8	110	2400	1800	2000	3900	DN80
SAV+132AIII	10.2~25.5	0.8	132	2800	2000	2000	4400	DN100
SAV+160AIII	12.4~31.0	0.8	160	2800	2000	2000	4600	DN100
SAV+200AIII	16.4~41.0	0.8	200	3200	2100	2100	7250	DN100
SAV+250AIII	21.0~52.5	0.8	250	3200	2100	2100	7550	DN100

## SAV+ Series permanent magnet variable frequency two-stage screw air compressor (Water-cooled model)

Model	Delivery m <sup>3</sup> /min	Working pressure MPa	Motor power kW	Cooling water flow rate m <sup>3</sup> /h	Length mm	Width mm	Height mm	Weight kg	Air outlet size
SAV+55WIII	4.20~10.5	0.8	55	12.0	2200	1480	1800	2450	DN50
SAV+75WIII	5.60~14.0	0.8	75	14.0	2200	1480	1800	2500	DN50
SAV+90WIII	7.00~17.5	0.8	90	20.0	2400	1800	2000	3700	DN80
SAV+110WIII	8.30~20.8	0.8	110	20.5	2400	1800	2000	3800	DN80
SAV+132WIII	10.2~25.5	0.8	132	21.0	2800	2000	2000	4200	DN100
SAV+160WIII	12.4~31.0	0.8	160	21.5	2800	2000	2000	4400	DN100
SAV+200WIII	16.4~41.0	0.8	200	23.0	3200	2100	2100	6850	DN100
SAV+250WIII	21.0~52.5	0.8	250	27.0	3200	2100	2100	7150	DN100