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ROTARY SCREW AIR COMPRESSORS

90~250kW



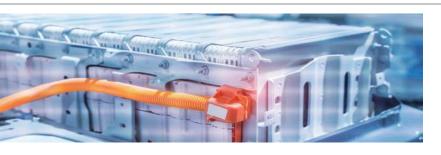




Solar photovoltaic industry

Pressure: 0.85MPa Dew point: ≤-40°C

Dust particles: ≤ 4.5 microns



Li-ion battery industry

Pressure: 0.4 ~ 0.7MPa Dew point: ≤-40°C ~ -70°C Dust particles: ≤ 4.5 microns



Electronic Manufacturing

Pressure: 0.4 ~ 0.7MPa Dew point: ≤-40°C

Dust particles: ≤ 4.5 microns Oil content: < 0.01ppm



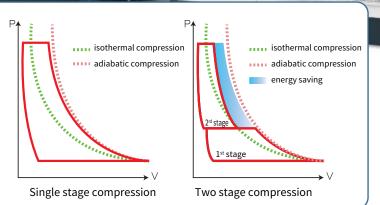
Car manufacturing

Pressure: 0.4 ~ 0.7MPa

Dew point: ≤ -2~10°C ≤ -40°C (Spray painting)

Dust particles: ≤ 4.5 microns Oil content: < 0.01ppm

perature air compressed at first stage of two stage compressor is cooled down by oil and air being constant compressed to reduce second stage inlet temperature. Entire compression process is close to isothermal compression which reduces energy loss. Pressure ratio for each stage of two stage compression is decreased and leakage between rotor seal is reduced significantly. Outstanding increased airend volumetric efficiency optimized cost-efficiency ratio when operated in continuous full load.



SA++series More outstanding two-stage compression



Efficiency upgrade

The design of the new rotor profile comprehensively improves efficiency.

The coaxial design of the body motor ensures higher transmission efficiency.

Air cooled oil cooled separation design for higher exhaust efficiency.





■ The upgraded design of the rotor profile has improved compression efficiency and optimized the spray design, reducing the resistance of the spray while better utilizing the effectiveness of the coolant, making the compression process closer to isothermal compression. The entire air compressor unit has a lower specific power

More energy-efficient

Cancel the traditional coupling design and adopt a coaxial design for the body motor, eliminating transmission losses and making the motor and host seamlessly integrated, making it more sturdy and reliable.

More efficient motor drive

■ A more efficient oil cooled motor with higher energy efficiency performance, higher energy efficiency, higher protection level, and more reliable operation.



value.

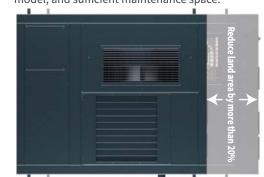
Motor Oil cooled induction motor

Power frequency model

Variable frequency machine Oil cooled permanent **Motor** magnet variable frequency

Smaller footprint

Clever and more reasonable layout, with significantly reduced footprint compared to the old model, and sufficient maintenance space.



Independent design of air aftercooling and oil cooler

- Both air-cooled and water-cooled models have independent air coolers and oil coolers.
- The temperature of the finished compressed air can be reduced as much as possible, without considering the emulsification caused by low oil temperature.
- More reasonable utilization of space, with built-in heat recovery and other devices.



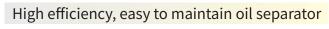
Variable frequency fan

■ Variable frequency fan design, fans are activated depending on the ambient temperature and running temperature. This design can adapt the temperature difference between different regions and is more efficiency.



Super Level 1 **Energy Efficiency**

The SA++full series of two-stage compression screw air compressors all have product performance that exceeds the national standard of Level 1 energy efficiency.





- The supersized oil separator design features a larger separation area that reduce the pressure drop during the air/oil separation while providing better filtration, thus making the compressed air system more efficient.
- A patented rotating shaft design is adopted on the separator cover. The replacement of oil separator is made much easier.

Intelligent IoT control system

- Built in Goservice function to achieve intelligent Internet of Things control and real-time understanding of the operation of air compressors
- Large color screen touch design, comfortable human-computer interaction interface
- ntelligent monitoring of key components (motor/frequency converter)
- Optional RS485 communication, capable of sequentially controlling multiple units
- Remote on / off function
- Modular design, optional for better scalability



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

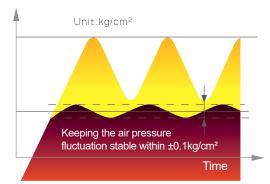
Model	Delivery		Main mctor power kW	Air outlet size	Indicative dimensions			Weight
	m³/min				Length mm	Width mm	Height mm	kg
	19.9	0.7						
SA++90AT	18.6	0.8	90	DN80	2400	1800	2000	3700
	15.7	1.0						
	13.8	1.25						
	23.9	0.7		DN80	2400	1800	2000	3800
SA++110AT	22.3	0.8	110					
3/11/10/11	19.3	1.0	110					
	16.8	1.25						
	29.0	0.7	132	DN100	2800	2000	1998	4300
SA++132AT	27.1	0.8						
	23.4	1.0						
	20.5	1.25						
	36.0	0.7	160	DN100	2800	2000	1998	4500
SA++160AT	33.6	0.8						
3/11/100/11	29.6	1.0						
	26.0	1.25						
	45.0	0.7	200	DN100	3200	2100	2100	6800
SA++200AT	42.0	0.8						
37111200711	37.8	1.0						
	33.0	1.25						
	57.0	0.7	250	DN100	3200	2100	2100	7000
SA++250AT	53.0	0.8						
3/11/200/11	47.0	1.0						
	42.0	1.25						

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

Model	Delivery Working	Main mctor	Air outlet	Indicative dimensions			Weight	
Model	m³/min	pressure MPa	power kW	size	Length mm	Width mm	Height mm	kg
	19.9	0.7						
SA++90WT	18.6	0.8	90	DN80	2400	1800	2000	3600
SATT /OW I	15.7	1.0] 90	DINOU	2400	1000	2000	3000
	13.8	1.25						
	23.9	0.7						
SA++110WT	22.3	0.8	110	DN80	2400	1800	2000	3700
3/(11110W1	19.3	1.0	110	DINOU	2400	1000	2000	3100
	16.8	1.25						
	30.0	0.7						
SA++132WT	28.0	0.8	132	DN100	2800	2000	1998	4100
	24.5	1.0	152	DIVIOO	2000	2000	1556	4100
	21.8	1.25						
	37.5	0.7						
SA++160WT	34.3	0.8	160	DN100	2800	2000	1998	4300
	31.0	1.0						
	27.6	1.25						
	47.0	0.7	200	DN100	3200	2100	2100	6400
SA++200WT	43.0	0.8						
	38.8	1.0	200	DIVIOO	3200	2100	2100	0-100
	35.0	1.25						
	59.0	0.7	250	DN100	3200	2100	2100	6600
SA++250WT	55.0	0.8						
	49.8	1.0						
	44.8	1.25						

Constant pressure air supply

Variable frequency control can instantly respond to changes in customer's airflow demand, keeping the air pressure fluctuation stable within ±0.1kg/cm², eliminating the need for the traditional air compressor's set value of 1-2kg/cm² for empty load and full load difference.



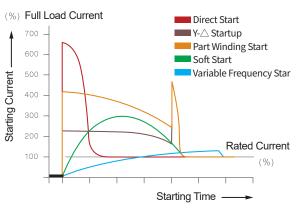
More efficient and energy-saving frequency conversion

The dual permanent magnet motor is directly driven, more sensitive in capturing subtle load changes in the compressor. The first and second speed ratio regulation is more flexible, convenient, and precise, ensuring stable and efficient exhaust pressure in the entire system.

Integrated structure, oil cooled permanent magnet motor and screw host are fully matched to form a closed whole permanent magnet motor that directly drives the rotor, reducing mechanical failure rate and vulnerable parts, and reducing mechanical noise; Not only does it achieve higher transmission efficiency, but it also has a compact structure.

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 units.



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

Model	Delivery m³/min		Main mctor power kW	Air outlet size	Indicative dimensions			Weight
					Length mm	Width mm	Height mm	kg
SAV++90AT	4.14~19.9	0.7-1.25	90	DN80	2400	1800	2000	3800
SAV++110AT	5.04~23.9	0.7-1.25	110	DN80	2400	1800	2000	3900
SAV++132AT	6.15~29.0	0.7-1.25	132	DN100	2800	2000	2000	4400
SAV++160AT	7.80~36.0	0.7-1.25	160	DN100	2800	2000	2000	4600
SAV++200AT	9.90~45.0	0.7-1.25	200	DN100	3200	2100	2100	7250
SAV++250AT	12.60~57.0	0.7-1.25	250	DN100	3200	2100	2100	7550

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

Model	Delivery m³/min		Main mctor power kW	Air outlet size	Indicative dimensions			Weight
					Length mm	Width mm	Height mm	kg
SAV++90WT	4.14~19.9	0.7-1.25	90	DN80	2400	1800	2000	3700
SAV++110WT	5.04~23.9	0.7-1.25	110	DN80	2400	1800	2000	3800
SAV++132WT	6.54~30.0	0.7-1.25	132	DN100	2800	2000	2000	4200
SAV++160WT	8.28~37.5	0.7-1.25	160	DN100	2800	2000	2000	4400
SAV++200WT	10.50~47.0	0.7-1.25	200	DN100	3200	2100	2100	6850
SAV++250WT	13.44~59.0	0.7-1.25	250	DN100	3200	2100	2100	7150