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SA+ SERIES TWO STAGE ROTARY SCREW AIR COMPRESSORS

55~400kW

Pursuing Excellence, Enriching Life

Since 1953, 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.

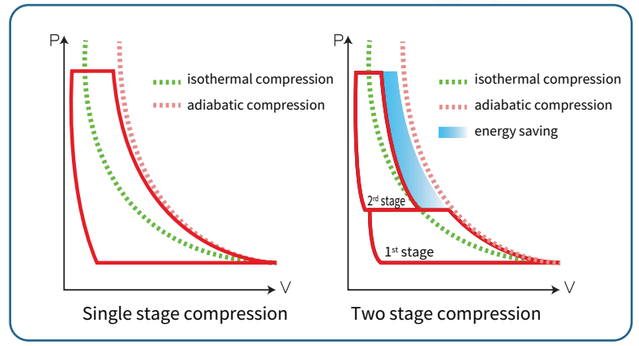
To internationalize our marketing coverage, we have established production facilities in Taiwan, China (Beijing, Shanghai, Zhongshan), Vietnam, The U.S.(Pittsburg, St. Louis), Germany, Spain and India, as well as branch offices in Thailand, Malaysia and Indonesia. Our well-established distribution channels 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.

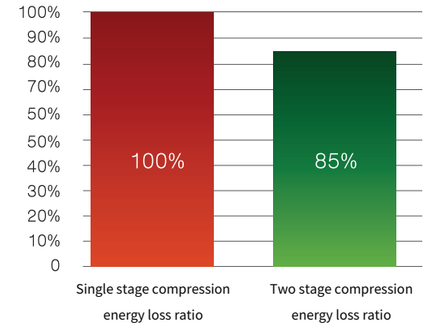
FUSHENG

Why choose two stage compressors?

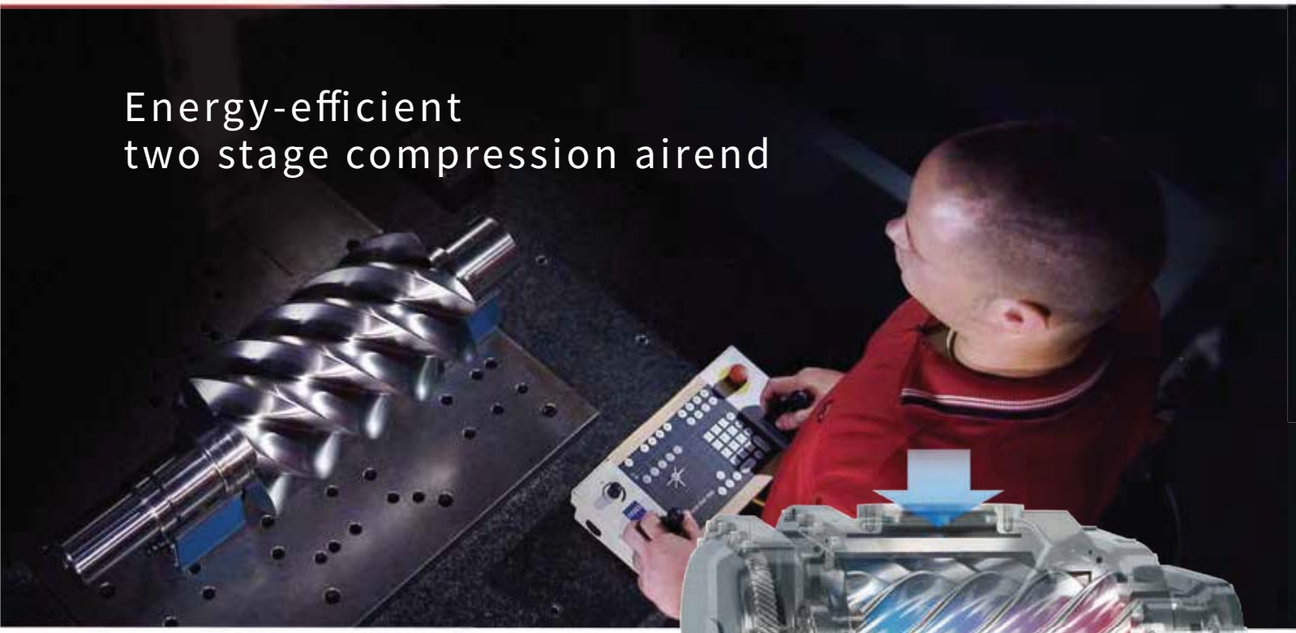
Compare to single stage compression, high temperature air compressed at first stage of two stage compressor is cooled down by oil and air being constant compressed to reduce second stage inlet temperature. Entire compression process is close to isothermal compression which reduces energy loss. Pressure 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.



Compare two stage and single stage compression with the same power, efficiency gains is up to about 15%, energy loss can be saved around 15% accordingly.



Energy-efficient two stage compression airend



- Precision gear drive and best rotator design get the outstanding energy saving performance
- Cold oil is injected in between the first and second stage airend for cooling which realize the optimum cooling effect between stages. Through oil quantity control, efficiency is improved significantly and also maintains compressed air is above pressure dew point to eliminate formation of water and avoid the second stage airend corrosion and system oil emulsification issue at the same time.
- Upgrade optimized runner design mostly reduced the pressure loss and get the outstanding performance.

Unique cooling flow field

- Air-cooled models use centrifugal fan which direct cooler air from external to cool cooler. Hot air is exhausted from top of assembly directly. Meanwhile suction hole of centrifugal air blower located inside machine exhausts hot air directly to keep lower temperature within compressor and reduce operation noise. Only cover removal is needed for cleaning air cooling cooler instead of removing/installing air duct cover.
- Water cooling model features heavy duty cooler with excellent cooling result and is suitable for high temperature environments. Compressed air passed at a time without pressure drop. Water goes inside of tube while air goes outside. Straight tube design is easy to clean.

Independent bearing lubrication (≥75kW models)

- Bearing lubrication does not rely on oil vapor from second-ary return pipe but by using independent lubrication piping.
- Equipped with separated oil filter which ensures cleanness of lubricating oil.

Efficient and environmentally friendly system design

- The system and structure layout follow the principle of high reliability, high efficiency and low noise.
- Adopt joint material that used trivalent blue and white environmental protection Zinc to prevent corrosion and seal the end face to prevent leakage.
- Motor, air filter and electric cabinet have the independent air inlet flow and air inlet duct also have low noise design.
- Non-asbestos gasket with high temperature and pressure resistance to protect operators.

VSD Control fan

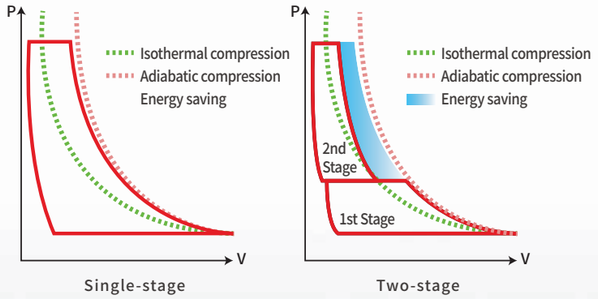
- VSD control fan design, fans are activated depending on the ambient temperature and running temperature. This design can adapt the temperature difference between different regions and is more efficiency.

High efficiency, easy to maintain oil separator

- 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.

Super Level 1 Energy Efficiency

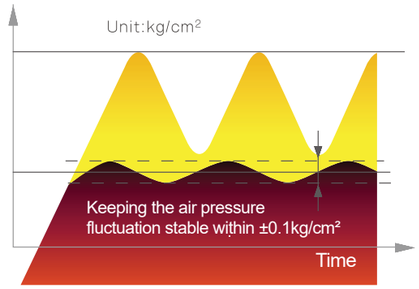
FUSHENG two stage compressors have the high efficient performance. And from 55kW to 250kW models have the super high efficient performance which are high than Grade 1 efficiency standard.



More Efficient And Energy-Saving

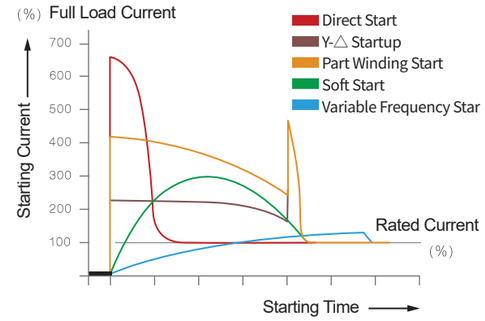
Constant pressure air supply

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.



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.



SA+55-400 Series Parameters

Model	Delivery m³/min	Working Pressure MPa	Rated Power kW	Compressed air outlet size	Indicative dimension (L×W×H) mm		Weight kg	
					Air Cooling	Water Cooling	Air Cooling	Water Cooling
SA+55*T	13.0	0.7	55	2"	2400×1380×1850	2400×1380×1850	2355	2345
	12.0	0.8						
	10.5	1.0						
	9.40	1.25						
SA+75*T	15.2	0.7	75	2"	2400×1380×1850	2400×1380×1850	2475	2465
	14.2	0.8						
	12.7	1.0						
	11.2	1.25						
SA+90*T	19.9	0.7	90	DN80	2980×1800×1805	2980×1800×1805	3970	3870
	18.0	0.8						
	15.7	1.0						
	13.8	1.25						
SA+110*T	23.9	0.7	110	DN80	2980×1800×1805	2980×1800×1805	4070	3970
	22.3	0.8						
	19.3	1.0						
	16.8	1.25						

Remarks:"⋆"means air compressor cooling method; When "⋆" is "A"means air cooling model. When "⋆"means water cooling model.

Model	Delivery m³/min		Working Pressure MPa	Rated Power kW	Compressed air outlet size	Indicative dimension (L×W×H) mm		Weight kg	
	Air Cooling	Water Cooling				Air Cooling	Water Cooling	Air Cooling	Water Cooling
SA+132*T	29.0	30.0	0.7	132	DN100	3300×2120×1998	3300×2120×1998	5050	4650
	26.5	27.5	0.8						
	23.4	24.5	1.0						
	20.5	21.8	1.25						
SA+160*T	36.0	37.5	0.7	160	DN100	3300×2120×1998	3300×2120×1998	5100	4700
	33.6	34.3	0.8						
	29.6	31.0	1.0						
	26.0	27.6	1.25						
SA+200*T	45.0	47.0	0.7	200	DN100	3700×2100×2100	3700×2100×2100	7000	6500
	42.0	43.0	0.8						
	37.8	38.8	1.0						
	33.0	35.0	1.25						
SA+250*T	57.0	59.0	0.7	250	DN100	3700×2100×2100	3700×2100×2100	7200	6700
	53.0	55.0	0.8						
	47.0	49.8	1.0						
	42.0	44.8	1.25						

Remarks:"⋆"means air compressor cooling method; When "⋆" is "A"means air cooling model. When "⋆"means water cooling model.

Model	Delivery m³/min	Working Pressure MPa	Rated Power kW	Compressed air outlet size	Indicative dimension (L×W×H) mm	Weight kg
SA+315WT	66.0	0.7	315	DN100	4500×2370×2250	8900
	62.0	0.8				
	56.0	1.0				
	50.0	1.25				
SA+355WT	70.0	0.7	355	DN100	4500×2370×2250	9100
	66.0	0.8				
	60.0	1.0				
	53.0	1.25				
SA+400WT	78.5	0.7	400	DN100	4500×2370×2250	9250
	74.5	0.8				
	66.0	1.0				
	59.0	1.25				

SAV+55-315 Variable Frequency Series Parameters

Model	Delivery m³/min	Working Pressure MPa	Rated Power kW	Compressed air outlet size	Indicative dimension (L×W×H) mm		Weight kg	
					Air Cooling	Water Cooling	Air Cooling	Water Cooling
SAV+55*T	3.45~11.5	0.7	55	2"	2400×1380×1850	2400×1380×1850	2410	2400
	3.21~10.7	0.8						
	2.88~9.60	1.0						
	2.55~8.50	1.25						
SAV+75*T	4.35~14.5	0.7	75	2"	2400×1380×1850	2400×1380×1850	2490	2480
	4.08~13.6	0.8						
	3.63~12.1	1.0						
	3.15~10.5	1.25						
SAV+90*T	5.55~18.5	0.7	90	DN80	3250×1800×1805	3250×1800×1805	4070	3970
	5.10~17.0	0.8						
	4.38~14.6	1.0						
	3.87~12.9	1.25						
SAV+110*T	6.75~22.5	0.7	110	DN80	3250×1800×1805	3250×1800×1805	4170	4070
	6.30~21.0	0.8						
	5.40~18.0	1.0						
	4.68~15.6	1.25						

Model	Delivery m³/min		Working Pressure MPa	Rated Power kW	Compressed air outlet size	Indicative dimension (L×W×H) mm		Weight kg	
	Air Cooling	Water Cooling				Air Cooling	Water Cooling	Air Cooling	Water Cooling
SAV+132*T	8.10~27.0	8.55~28.5	0.7	132	DN100	3500×2120×1998	3500×2120×1998	4976	4800
	7.50~25.0	7.80~26.0	0.8						
	6.60~22.0	6.90~23.0	1.0						
	5.85~19.5	6.30~21.0	1.25						
SAV+160*T	10.35~34.5	10.65~35.5	0.7	160	DN100	3500×2120×1998	3500×2120×1998	5150	4850
	9.60~32.0	9.90~33.0	0.8						
	8.40~28.0	8.70~29.0	1.0						
	7.35~24.5	7.80~26.0	1.25						
SAV+200*T	12.90~43.0	13.35~44.5	0.7	200	DN100	3900×2100×2100	3900×2100×2100	7800	7300
	12.00~40.0	12.45~41.5	0.8						
	10.65~35.5	10.95~36.5	1.0						
	9.45~31.5	9.90~33.0	1.25						
SAV+250*T	16.29~54.3	16.80~56.0	0.7	250	DN100	3900×2100×2100	3900×2100×2100	8100	7600
	15.15~50.5	15.60~52.0	0.8						
	13.35~44.5	14.10~47.0	1.0						
	12.00~40.0	12.75~42.5	1.25						

Remarks:"⋆"means air compressor cooling method; When "⋆" is "A"means air cooling model. When "⋆"means water cooling model.

Model	Delivery m³/min	Working Pressure MPa	Rated Power kW	Compressed air outlet size	Indicative dimension (L×W×H) mm	Weight kg
SAV+315WT	18.90~63.0	0.7	315	DN100	4200×2300×2300	8000
	17.70~59.0	0.8				
	16.05~53.5	1				
	14.34~47.8	1.25				

Remarks: Split frequency conversion model, also needs to consider the size of the external frequency conversion cabinet: 800 * 1000 * 2300mm (L * W* H) , with an external frequency conversion cabinet weighing 1000kg