

# To Provide Compressed Air System is Our Core Business

For the lowest purchasing cost for customers, Sullair provides an entire air system designed to lower operating cost, increase reliability and maximize return on investment.



Sullair offers compressed air system to help users reduce their operating costs and improve productivity by analyzing, managing and controlling all compressed air devices. To satisfy your special requirement on the compressed air system, please contact the local Sullair distributors to seek more help. To acquire local Sullair distributors' contact information, see the below website or make a phone call.



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# Sullair VSD Screw Vacuum Pump VS900 ~ VS6500 ■ 15 ~ 110KW



## The Only Air Compressor Manufacturer to Concentrate Exclusively on Screw Technology

Since 1965, Sullair has been leading the innovation in the field of screw compression and vacuum technology. With over 50-year experiences, Sullair has been making a new round of innovation in this field. Utilizing advanced technologies, equipment and manufacturing technique, Sullair provides customers the best air compressor and vacuum equipment in order to meet the customers' strictest requirements. Sullair has taken the lead in the field by virtue of its first-class screw rotor design.

Sullair products are universally known around the world for its practical design, outstanding craftsmanship and superior quality. Sullair professionals provide you VS series 15-110kW Vacuum Pumps (air suction range: 14.8-108.5m<sup>3</sup>/min) with simple structure, easily operation and great performance by optimal design while to ensure the amazing reliability, stability and related performance specifications of Sullair products. In fact, its design has made the new standard for this industry in every aspect.



This company has been certified by ISO9001:2000 international quality management system.

## Sullair Vacuum System: Reliable and Outstanding Performance of the System

Sullair screw vacuum pump series of products are widely used in: electronic vacuum, vacuum smelting aluminum, vacuum thermoforming, furniture vacuum clamp and holding, sealing bags/ printing/publishing vacuum adsorption, hospital central vacuum system, vacuum chemical and pharmaceutical manufacturing processes, vacuum can filling, vacuum food packaging, aerospace vacuum test and many other fields.

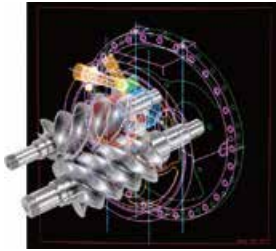


Sullair vacuum pump system has very high operating efficiency: VS series vacuum pump can reduce energy consumption by at least 20% compared to other types of vacuum pumps. In the working process, liquid ring vacuum pump has instability due to coolant temperature, while vanes of sliding vane vacuum pumps tend to wear off in operation. Both cannot match the stability and reliability offered by VS series vacuum pump.

Sullair VS series of vacuum pumps can offer users with smooth and stable operation and reliable and cost-effective performance. The structure is rigid and of low noise. The VS series is vacuum pump of great attention in the industry. It is manufactured with the best quality components, and offers the inherent reliability of screw mechanism, maximum reliability and very low maintenance costs.



# Sulliar Vacuum System: The Complete Solution



## Vacuum Air End

- The screw rotors are manufactured by matching with excellent compress efficiency
- The design of slot line and pitch line reduces the inner leakage
- Patented design, low noise and excellent bearing ensure the air end stability and longer life
- BFR (Bearing Fluid Reservoirs) ensure the vacuum pump with excellent function for startup and on load performance

## High Efficiency Fluid/Air Separator

- Replaceable cartridge-type component, easy to operate
- Two-stage separation reduces fluid run-off

## Flexible Coupling

- Saving more than 5% energy than belt drive
- Eliminates maintenance expense associated with V-belts
- Provides accurate axis positioning
- Optimizes life of air end (pump), bearing and motor

## Air Suction Automatic Regulating Device

- Match output with demand exactly
- Smooth system vacuum
- Free of air storage drum
- Reduces impact and abrasion caused by downtime

## Air Inlet Filter

- Protects vacuum pump from contamination and easy maintenance access
- Vacuum pressure difference alarm and NPT screw or flange connection



## Key Features of Sullstar Controller:

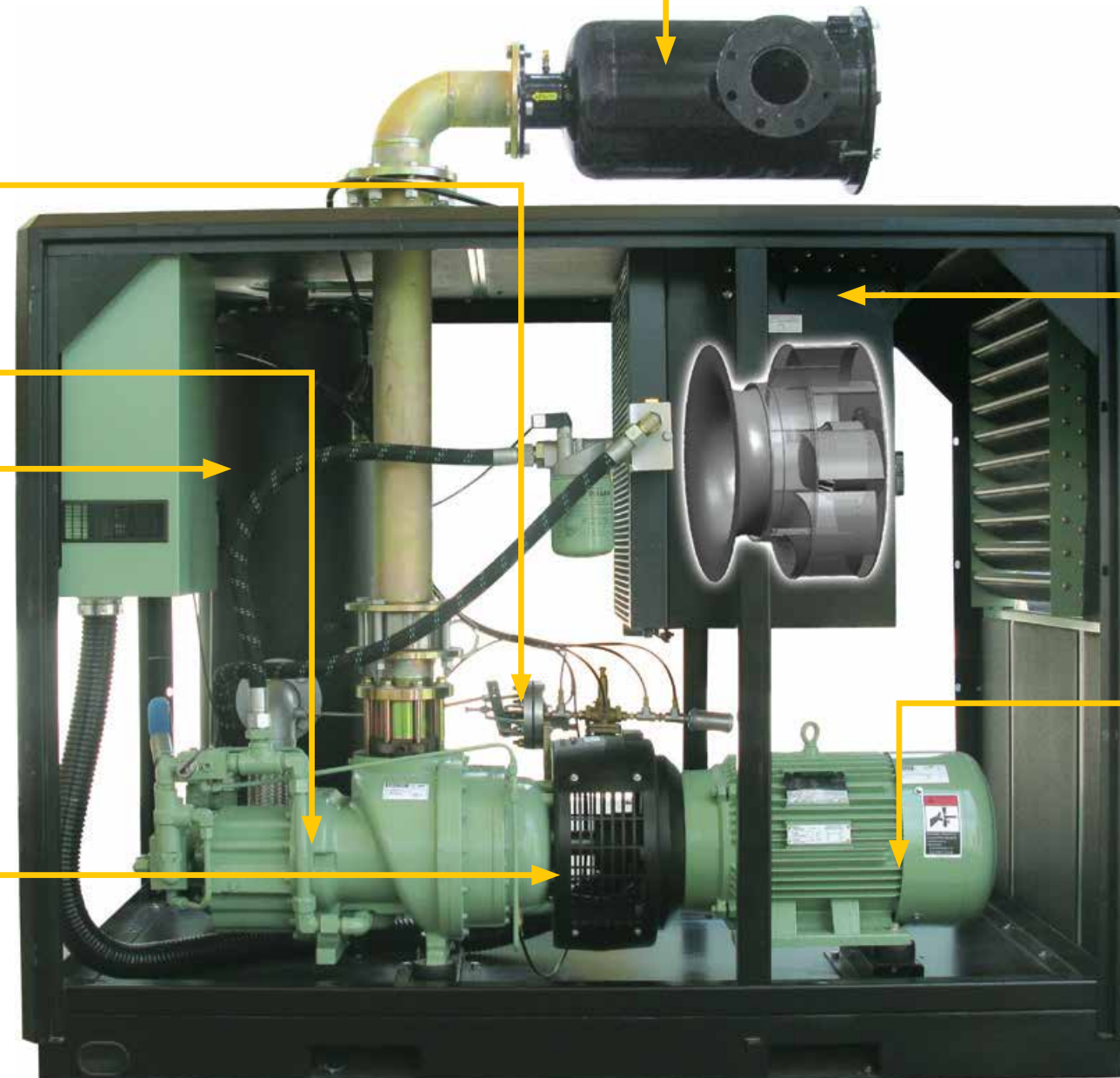
- 32-bit ARM7 CPU core, powerful and industrial leading
- Oversized LCD capable of displaying 120 Chinese characters, is clear at a glance
- Multiple communication ports, such as Online, VSD, MODBUS, CAN, etc.
- Online group control can be realized

## Cooling Fan

- Light, well balanced and low noise centrifugal fan with outer rotor motor
- Unique anti-vibration, noise deduction design results in a noise level lower than 72 dB (A) when the machine is running under the rated condition

## High Efficiency Motor

- IP55 fully enclosed motor
- US NEMA energy efficient standards for high efficiency motor
- Ultra high starting torque design
- Low noise design. No-load noise LPA <75dB (A)
- Insulation class: F (Grade B test)



Notes: the above figures are for reference only, subject to the real machine.

# Sullair VSD Vacuum Pump

## VSD Vacuum Pump Saves More Energy

Energy saving is the greatest advantage for the VSD vacuum pump, especially when the air consumption fluctuates greatly. Its flexibility and reliability make the advantage of energy saving more obvious, particularly for fluid-injected screw vacuum pumps with loading/unloading regulation. Sullair screw vacuum pumps can keep the highest power factor during the whole range of work frequency, which effectively prevents various problems caused by lower power factors.

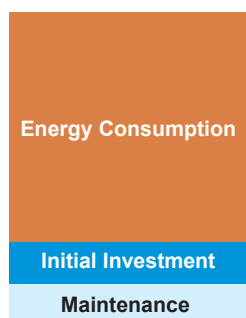
Standard Power Frequency Vacuum Pump



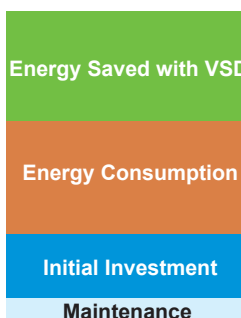
Sullair VSD Vacuum Pump



Standard Power Frequency Vacuum Pump



Sullair VSD Vacuum Pump



## VSD Controller

- Integrated design with best performance for vacuum pump
- Modular design makes application and maintenance extremely convenient and friendly
- PID regulation function realizes the optimization of controller specifications
- An innovative cooling method and coated electronic modules significantly increase the stability and service life of the VSD controller
- Provide strong communication function with Rs485/USS, PROFIBUS, PROF/NET, DP, etc.
- Provide USB interface making local debugging and troubleshooting easier
- Integration of safety protection to satisfy the customer's higher safety requirements
- With EMC filter in compliance with national electromagnetic standard



## VSD Soft Start, Unlimited Starts and Stops

- No need start-delta start or other start methods, and no need to control the number of cold and hot starts
- Reduce the electrical characteristics requirement and save the cost
- Avoid impulse current at direct start and extend service life of the equipment

## Sullair Special High Efficiency VSD Motor

- Adopt special electromagnetic design to effectively restrain the harm of higher harmonics and improve low-frequency output torque of motor
- Adopt special enameled wire for VSD motors to enhance the insulating strength of ground and interturn, especially the insulation shock resistance voltage capability
- Adopt special cooling method to ensure that the motor has good self-cooling ability at low frequency
- Effectively avoid low frequency resonance



## VS 900~VS2500 VSD Screw Vacuum Pumps

Model	Power kW	Max. Air Suction Capacity m³/h	Max. Vacuum Degree In.Hgv	Weight (kg)	Inlet/Outlet connection size Rf (inch)
VS900	15	890	29.9	1580	4/4*
VS1300	22	1306	29.9	1580	4/4*
VS1600	30	1610	29.9	1580	4/4*
VS2000	37	1955	29.9	2205	5/6*
VS2500	45	2450	29.9	2205	5/6*

## VS3000~VS6500 VSD Screw Vacuum Pumps

Model	Power kW	Max. Air Suction Capacity m³/h	Max. Vacuum Degree In.Hgv	Weight (kg)	Inlet/Outlet connection size Rf (inch)
VS3000	45	3055	29.9	3550	5/8*
VS3600	55	3610	29.9	3550	5/8*
VS4500	75	4508	29.9	5500	8/8*
VS5500	90	5510	29.9	5600	8/8*
VS6500	110	6512	29.9	5600	8/8*

## Equipment Dimensions (mm)

Model	Length	Width	Height	Model	Length	Width	Height
VS900-1600	2189	1280	1709	VS3000-3600	2920	1850	2142
VS2000-2500	2350	1320	1815	VS4000-6500	3855	1850	2450

Notes:

1. \*are flange connection.