

**VS Series—  
Rotary Screw  
Vacuum Systems  
5 to 200 HP**



**SULLAIR**

**VS-10  
5-15 HP**

**VS-12  
15 & 20 HP**

**VS-16  
30-50 HP**

**VS-20  
60 & 75 HP**

**VS-25  
75 & 100 HP**

**VS-32  
125-200 HP**



**FOR NEARLY PERFECT VACUUM  
AT UNRIVALED EFFICIENCIES.**

# SULLAIR VACUUM SYSTEMS PERFORMANCE AND ROTARY SCREW

## **Technologically advanced**

Sullair's state-of-the-art VS vacuum pumps deliver the ultimate in smooth, pulse-free operation and dependable, cost-effective performance. They are compact and quiet. Series VS vacuum pumps are built of the highest quality components, to assure the utmost reliability and minimum maintenance expense. Sullair offers more features and options than most vacuum pumps in this size range.

## **Superior operating efficiency**

Sullair vacuum systems use proven rotary screw technology to produce vacuum at unrivaled efficiencies. Because they are air cooled and require no seal water, there are no water acquisition, treatment or disposal costs. As a result, these systems offer lower power costs and up to 50% lower operating costs than other types. The system's capacity control maintains constant vacuum, which also contributes to lower operating costs.



# STEMS. OUTSTANDING RY SCREW DEPENDABILITY.

## Two-year warranty

Series VS pumps use a single-stage, rotary screw vacuum pump, backed by Sullair's limited 2-year warranty and feature Sullair's rugged bearing design: tapered roller or angular contact ball bearings on the discharge end, cylindrical roller or ball bearings on the inlet for high load-carrying capability.

## Duplex Hospital Suction Package

Designed for hospital applications (HSP) that meets or exceeds (NFP99) Health Care Facilities)—VS-10 design.



# SULLAIR VACUUM THE COMPLETE

## Complete packaged system

- No additional components to purchase.
- Reduces start-up time and costs.
- Entire package is tested.
- Simplifies installation.
- Built-in full voltage starter.

## 1 Instrumentation and monitoring

Simplified and reliable electro-mechanical panel.  
Takes the guesswork out of maintenance.

## 2 Highly efficient air/fluid separation

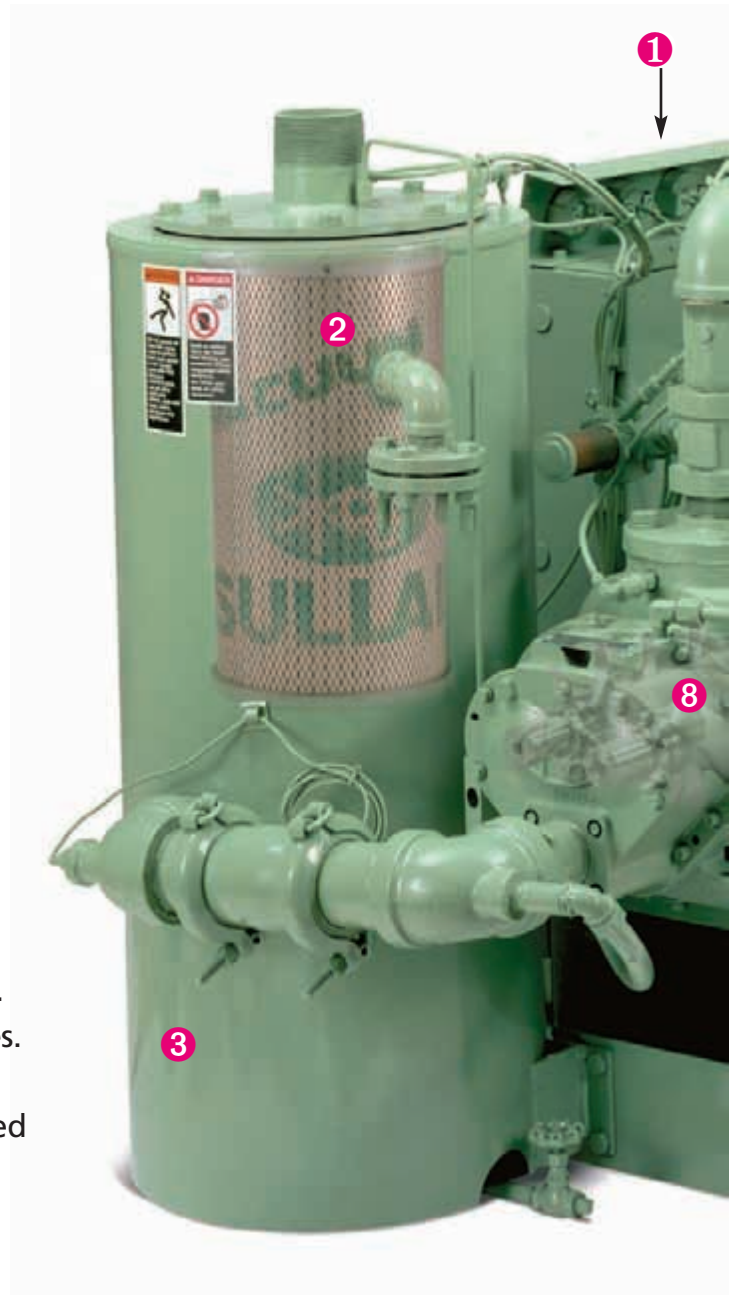
Replaceable cartridge-type element.  
Reduces fluid carry-over.  
Lowers make-up fluid cost.  
Reduces labor costs and downtime.  
Two-stage separation on 50 hp to 200 hp.

## 3 Select one of two long-life fluids for factory fill

SRF—One year or 4000 hours.  
Sullube—One year or 8000 hours.  
Both result in fewer fluid changes.  
Both reduce fluid disposal costs, downtime and associated labor costs.

## 4 Cooling alternatives

Air- or water-cooled models, excluding VS-10 (air-cooled only).  
Choose most cost-effective method for your environment.  
Eliminates need for costly seal water treatment and disposal.





# VACUUM SYSTEMS. THE PACKAGE.

- 5 **Spin-on fiberglass fluid filter**  
Aircraft-quality media provides better filtration.  
Up to 20% more efficient.  
Lengthens life of the vacuum pump.

- 6 **Motor and vacuum pump are flange mounted (VS-10 through VS-20)**  
5% energy savings over belt drive.  
Eliminates maintenance expense associated with V-belts.  
Provides positive alignment.  
Optimizes bearing life of air end (pump) and motor.

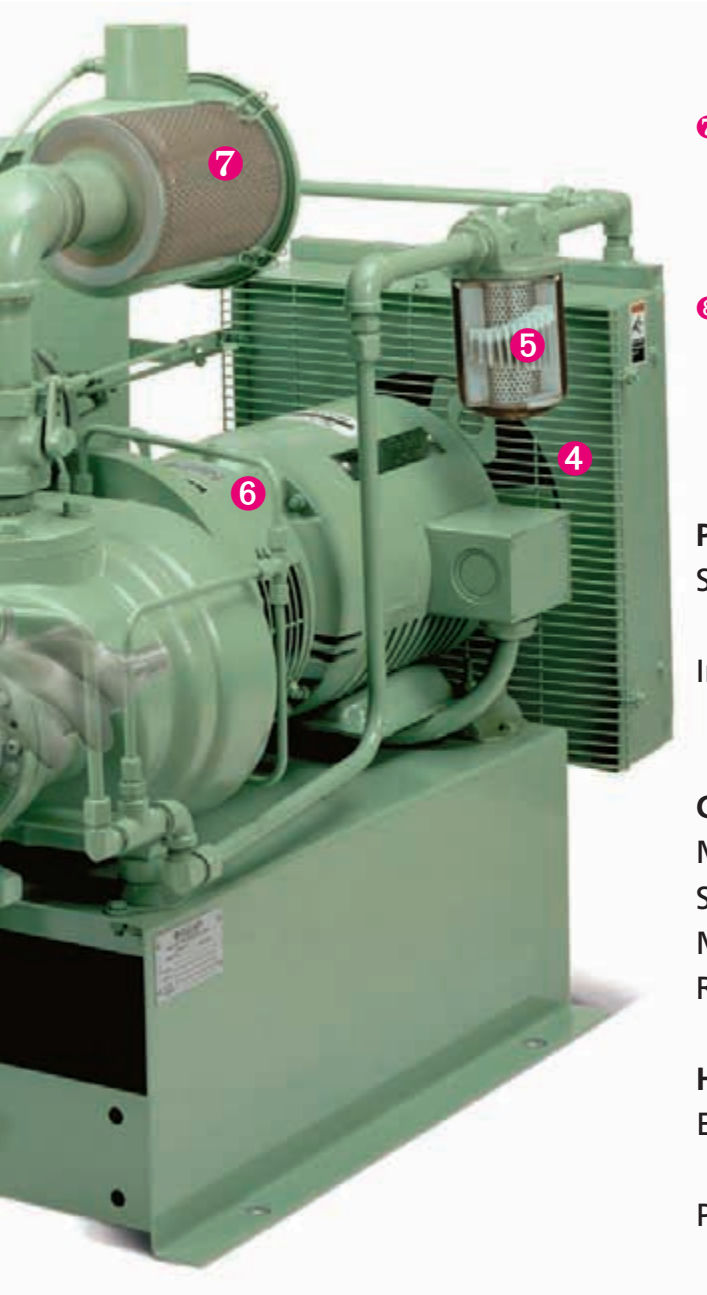
- 7 **Air inlet filter**  
Protects pump from contamination.  
Horizontally mounted.

- 8 **(Air End) "The Pump"**  
Longer average bearing life, designed for 100,000+ hours of service.

**Protective shutdown system**  
Shuts down machine before major damage occurs.  
Increases productivity and equipment life.

**Capacity modulation**  
Matches capacity to demand.  
Stabilizes system vacuum.  
Minimizes the need for air receiver.  
Reduces wear caused by start/stop.

**High pressure shutdown switch**  
Eliminates activating pressure relief device.  
Prevents loss of fluid.



# SULLAIR ROTARY SCREWS

## SULLAIR FLUIDS: THE LI

### The Sullair Vacuum Pump

#### Time-proven reliability

in rotary screw design from a manufacturer who has specialized technology since 1965. Sullair has the widest range of rotary screw vacuum pumps in the market.

#### Vacuum pump life is extended.

Controlled pressure lubrication to bearings assures reliable supply to rotating elements.

#### Proven dependability

can be seen in the more than 150,000 Sullair vacuum pumps and compressors in use around the world.

#### Lower operating costs

Optimized discharge port matches volume ratio to operating pressure ratio for maximum efficiency and lower operating costs. Axial air inlet lessens pressure drop and avoids preheating inlet air to further reduce operating costs.



#### The highest level of quality

Vacuum pumps are manufactured in an ISO 9001 certified facility.

#### Peace of mind

The Sullair vacuum pump is warranted for 2 years. This limited warranty protects you from defects in materials and workmanship. Contact Sullair Corporation or an authorized Sullair distributor for complete warranty information.

#### Sullair's air end exchange program

24-hour delivery minimizes downtime and costly repairs. Older models can be upgraded to current design technology.



# THE HEART OF THE PUMP. BLOOD OF THE PUMP.

## Sullair Vacuum Pump Fluids

### SRF 1/4000... the 4000 hour fluid

The exceptional properties and characteristics of Sullair's SRF 1/4000 provide these benefits:

- SRF 1/4000 is less volatile than solvent refined fluids, so fluid make-up is reduced.
- Enhanced lubrication properties of SRF 1/4000 provide an excellent environment for rolling element bearings.
- High oxidative stability contributes to SRF 1/4000's long life.
- High viscosity index for shear stability.
- High temperature stability.
- Low temperature fluidity for cold ambient start-ups means (for most applications) one fluid for year-round operation.



### Add these beneficial qualities:

- Excellent anti-wear properties and corrosion protection.
- Excellent demulsifiability.
- Good resistance to foaming.
- Improved cleanliness.

### Sullube™... the 8000 hour fluid.

The highest performance fluid, Sullube has proven to be superior to both hydrocarbon oils and other synthetic fluids. It exhibits a number of unique characteristics which provide measurable benefits for end-users:

- High oxidative stability for long life.
- Higher flash point than hydrocarbon fluids.
- The ability to dissolve residual hydrocarbon varnish to clean up old machines.
- Inherently high viscosity index for shear stability.
- Excellent elastomeric seal compatibility.
- Low volatility for low makeup rates.
- High resistance to sludge and varnish formation.
- Higher thermal conductivity than other synthetics.
- Very high hydrolytic stability.



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# APPLICATIONS THROUGHOUT INDUSTRY

*(Left) Operators at an aluminum casting manufacturer inspect molding while vacuum is applied.*



*(Right) A machine operator at a plastics manufacturer removes a thermoformed shipping container for automobile headlights from a rotary vacuum press.*



*(Left) A plastics manufacturer uses vacuum during the extrusion process to rid PVS pipe of process contaminants.*



*(Right) This envelope converter at an envelope plant, uses vacuum from the centralized RSVS system for spacing, folding & delivering.*



*(Left) Furniture manufacturers use vacuum in place of traditional clamping methods to avoid damage.*



*(Right) A room in the Intensive Care Unit at a Hospital, where vacuum is used for patient care.*



# GLOBAL PARTS AND SERVICE SUPPORT



Your investment is supported by an experienced team of compressed air system experts. Our global network of authorized Sullair distributors and field service representatives provide responsive, knowledgeable service, including on-site and factory-based technical assistance, to Sullair customers around the world.

Because Sullair believes that using Genuine Sullair Replacement Parts is critical for optimum compressor system performance, we make them available on a global basis. Through Sullinet, our on-line network, distributors can procure Genuine Sullair Replacement Parts for any piece of Sullair equipment in any part of the world, quickly and efficiently.



# Specifications

Specifications for VS-10 60Hz	10-5	10-7.5	10-10	10-15
Capacity (acfm)	78	120	145	195
Motor (hp)	5	7.5	10	15

Dimensions and Weights with Enclosure				
Length (in)	66	66	66	66
Width (in)	36	36	36	36
Height (in)	54	54	54	54
Weight (lb)	640	690	720	720

Specifications for VS-12 60Hz	12-15	12-20
Capacity (acfm)	245	310
Motor (hp)	15	20

Dimensions and Weights with Enclosure		
Length (in)	66	66
Width (in)	36	36
Height (in)	54	54
Weight (lb)	1400	1400

Specifications for VS-16 60Hz	16-30	16-40	16-50
Capacity (acfm)	430	540	650
Motor (hp)	30	40	50

Dimensions and Weights with Enclosure			
Length (in)	72	72	72
Width (in)	48	48	48
Height (in)	62	62	63
Weight (lb)	2495	2625	3135

Specifications for VS-20 60Hz	20-60	20-75
Capacity (acfm)	810	1035
Motor (hp)	60	75

Dimensions and Weights with Enclosure		
Length (in)	84	84
Width (in)	48	48
Height (in)	63	63
Weight (lb)	3820	3820

Specifications for VS-25 60Hz	25-75	25-100
Capacity (acfm)	1350	1695
Motor (hp)	75	100

Dimensions and Weights with Enclosure		
Length (in)	110	110
Width (in)	72	72
Height (in)	84	84
Weight (lb)	5760	6250

Specifications for VS-32 60Hz	32-125	32-150	32-200
Capacity (acfm)	2060	2500	3095
Motor (hp)	125	150	200

Dimensions and Weights with Enclosure			
Length (in)	110	151	151
Width (in)	72	72	72
Height (in)	96	96	96
Weight (lb)	9450	9900	10200



Sullair is pleased to be ISO 9001 certified by Lloyd's Register Quality Company



[www.sullair.com](http://www.sullair.com)

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