

Rotary Screw Vacuum Systems

4-150 kW ■ 5-200 Horsepower



- Reliable
- Quiet
- Smooth, pulse-free operation
- Energy efficient

Sullair Capabilities

Sullair Leadership

Since 1965, Sullair has been recognized around the world as an innovator and a leader in rotary screw compression and vacuum technology. For more than 40 years, Sullair has designed and manufactured its own rotors and air end assemblies at the corporate headquarters in Michigan City, Indiana.

The award-winning rotary screw design sets the industry standards and delivers the quality and reliability one expects from a leader.

Sullair Technology

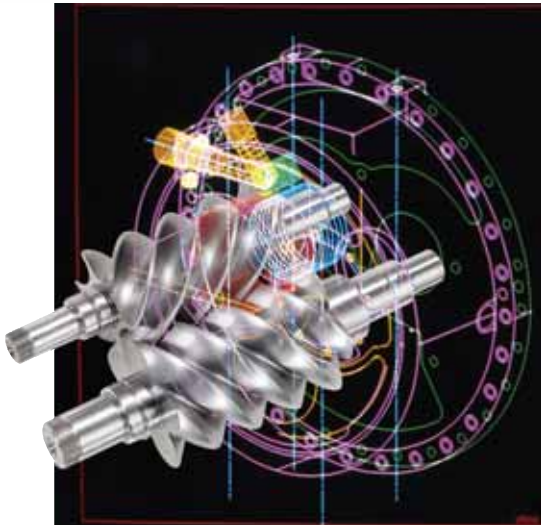
Utilizing the most modern technologies, equipment and advanced manufacturing techniques, Sullair designs, manufactures, assembles, and tests the most advanced compressed air and vacuum products in the industry. Sullair products are known around the world for their universally applicable design, outstanding craftsmanship and superior quality.

Sullair's Statistical Process Control

Our Statistical Process Control (SPC) system monitors rotor quality standards to assure consistent compressor and vacuum performance.

Sullair's Commitment to Innovation

Underlying Sullair's leadership is a dedication to excellence and a commitment to innovation. We are constantly exploring new ideas and seeking new ways to meet industry's need for increasingly energy efficient compressed air and vacuum solutions.



Sullair's Vacuum System

Industry Leading Technology

Sullair's state-of-the-art vacuum packages deliver smooth, pulse-free operation and long term reliability. The vacuum systems are constructed with high-quality components to ensure optimal performance and dependability. In addition to being engineered to deliver reduced noise levels, the packages are designed for

simple maintenance. The systems can be customized to fit nearly any customer need.

Superior Operating Efficiency

Sullair vacuum systems incorporate proven rotary screw technology to deliver stable vacuum at unrivaled efficiencies. The package's constant control system ensures optimal

performance throughout the operating range. In addition, Sullair systems do not require water to operate – all acquisition, treatment and disposal costs are eliminated. Comparisons with competitive technology demonstrate a 50% operating cost advantage for the Sullair Vacuum Systems – a fact that's tough to ignore.

Hospital Suction Packages (HSP)

A Vacuum System You Can Count On

Sullair's Hospital Suction Packages (HSP) are specifically designed to provide continuous vacuum for hospital applications. Manufactured from Sullair's proven rotary screw vacuum system, these pumps meet or exceed the requirements for packaged vacuum pumps per NFPA 99, Health Care Facilities recommendations. Simplex packages have a capacity range from 78 to 1000 acfm; duplex packages are available from 78 to 300 acfm per pump. HSP systems are so dependable, they are warranted for two years.

Cost Effective

Requiring less power than conventional pumps, HSP systems offer low operating costs. The inherent high efficiency of the rotary screw mechanism, combined with 0 to 100% capacity control which matches throughput to demand, provides significant energy savings.

Duplex Hospital Suction Package

VS-10 and VS-12 models are designed for hospital applications (HSP) that meet or exceed NFPA 99 standard for Health Care Facilities.



The Sullair Vacuum System is a Complete Package

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

Instrumentation and Monitoring

- Simplified and reliable electro mechanical panel
- Takes the guesswork out of maintenance
- Inlet filter ΔP
- Sump separator ΔP
- Discharge temperature
- Injection pressure gauge*

Capacity Modulation

- Matches capacity to demand
- Stabilizes system vacuum
- Reduces wear caused by start/stop

High Pressure Shutdown Switch

- Eliminates activating pressure relief device
- Prevents loss of fluid

Air End (“The Pump”)

- Longer average bearing life, designed for 100,000+ hours of service

Select One of Two Long-Life Fluids for Factory Fill

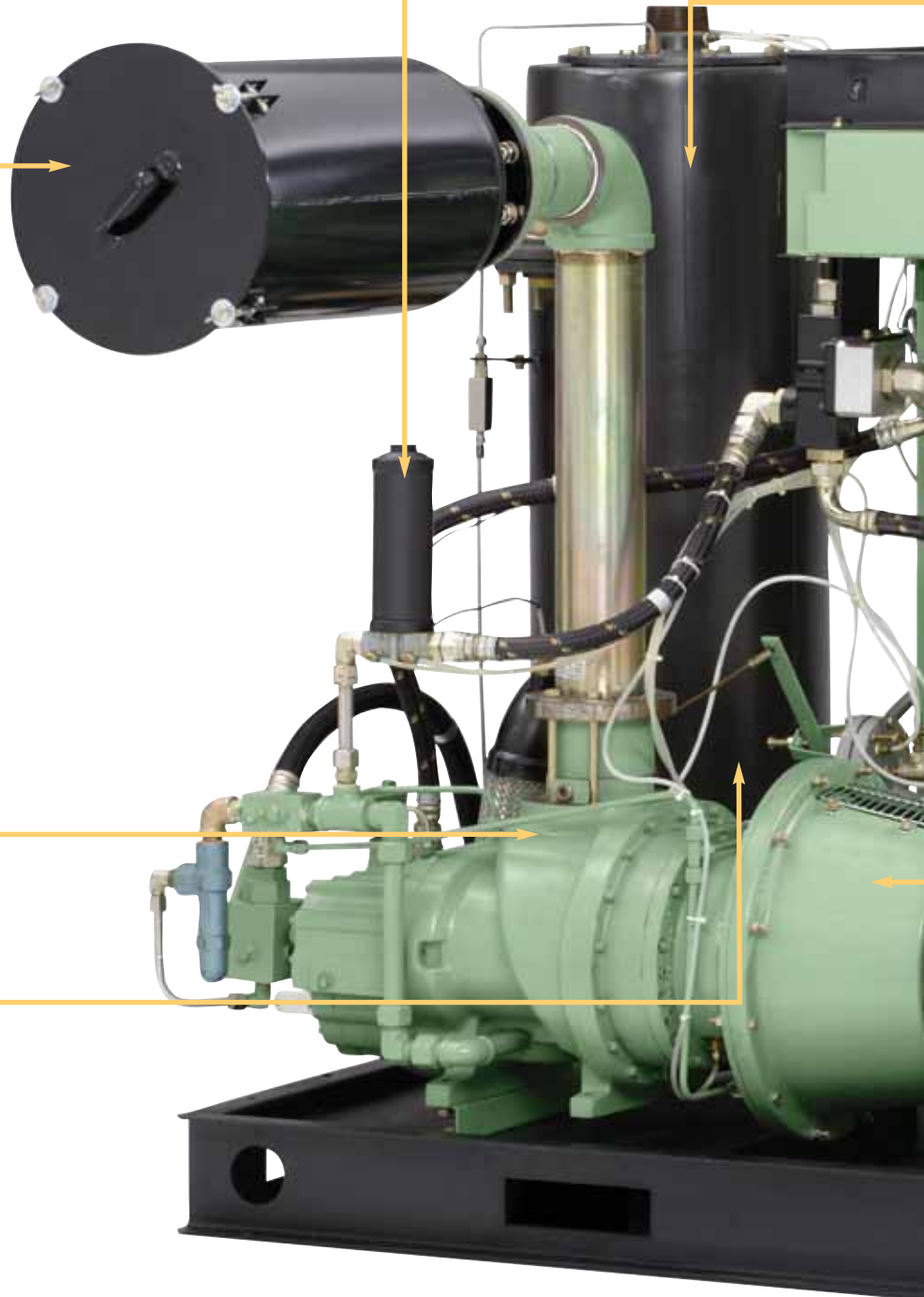
- SRF—one-year or 4000-hours
- Sullube—one-year or 8000-hours
- Both result in fewer fluid changes
- Both reduce fluid disposal costs, downtime and associated labor costs

Air Inlet Filter

- Protects pump from contamination
- Horizontally mounted
- Includes NPT or flanged suction pipe connections

Spin-On Fiberglass Fluid Filter

- Aircraft-quality media provides better filtration
- Up to 20% more efficient
- Lengthens life of the vacuum pump



*On models VS-16, VS-20, VS-25 and VS-32.

Highly Efficient Air-Fluid Separation

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

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 on air-cooled models

Protective Shutdown System

- Shuts down machine before major damage occurs:
 - High temperature shutdown
 - Low oil pressure shutdown*
- Increases productivity and equipment life

Options

- Enclosure
- Dual control
- NEMA 4
- Power failure auto restart
- TEFC or ODP premium efficiency motors

Consult factory for additional options.

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

*On models VS-16, VS-20, VS-25 and VS-32.



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.



Technical Specifications: 60 Hz

VS-10: 5 hp to 15 hp

Models	Motor hp	Capacity* (acfm)	Inlet in	Discharge Connection (in)
VS-10-5	5	78	2.5	3
VS-10-7.5	7.5	120	2.5	3
VS-10-10	10	145	2.5	3
VS-10-15	15	195	2.5	3

VS-20: 60 hp to 75 hp

Models	Motor hp	Capacity* (acfm)	Inlet in	Discharge Connection (in)
VS-20-60	60	810	5	5
VS-20-75	75	1035	5	5

VS-12: 15 hp to 20 hp

Models	Motor hp	Capacity* (acfm)	Inlet in	Discharge Connection (in)
VS-12-15	15	245	2.5	3
VS-12-20	20	310	2.5	3

VS-25: 75 hp to 100 hp

Models	Motor hp	Capacity* (acfm)	Inlet in	Discharge Connection (in)
VS-25-75	75	1350	6**	6**
VS-25-100	100	1695	8**	8**

VS-16: 30 hp to 50 hp

Models	Motor hp	Capacity* (acfm)	Inlet in	Discharge Connection (in)
VS-16-30	30	430	4	3
VS-16-40	40	540	4	3
VS-16-50	50	630	4	5

VS-32: 125 hp to 200 hp

Models	Motor hp	Capacity* (acfm)	Inlet in	Discharge Connection (in)
VS-32-125	125	2060	8**	8**
VS-32-150	150	2500	8**	2 x 8**
VS-32-200	200	3095	8**	2 x 8**

*To 28 inches Hg, based on standard sea level conditions.

**Flange mount

Dimensions and Weights

Models (With Enclosure)	Length in	Width in	Height in	Weight lbs
VS-10, 5 hp-15 hp				
VS-10-5	60	36	53.7	890
VS-10-7.5	60	36	53.7	940
VS-10-10	60	36	53.7	970
VS-10-15	60	36	53.7	970
VS-12, 15 hp-20 hp				
VS-12-15	65.8	36	53.6	1480
VS-12-20	65.8	36	53.6	1480
VS-16, 30 hp-50 hp				
VS-16-30	78	48.0	62.3	2495
VS-16-40	78	48.0	62.3	2625
VS-16-50	82.8	48.0	63.8	3135
VS-20, 60 hp-75 hp				
VS-20-60	82.8	48.0	63.8	3820
VS-20-75	82.8	48.0	63.8	3820
VS-25, 75hp-100 hp				
VS-25-75	115.4	71.7	83.6	6560
VS-25-100	115.4	71.7	83.6	7050
VS-32, 125 hp-200 hp				
VS-32-125	115.4	71.7	84.6	9450
VS-32-150	150	71.7	84.1	9900
VS-32-200	150	71.7	84.1	10200

Data subject to change without notice.

Sullair Supplies Compressed Air Systems

For the lowest total cost of ownership, Sullair provides an air system designed to lower operating cost, improve reliability and maximize return on investment.



Sullair offers air systems to help compressed air users reduce their energy costs and improve their productivity by analyzing, managing and controlling total compressed air systems. Information on the compressed air system tailored to your specific needs can be obtained by contacting your local Sullair Distributor. To acquire local distributor contact information visit us online at www.sullair.com or call 219-879-5451.



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