

ES-6 *S-energy*[®]

Encapsulated Rotary Screw Air Compressors

4-7 kW ■ 5-10 Horsepower



- Simple
- Compact
- Reliable
- Lower maintenance costs
- Quiet

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

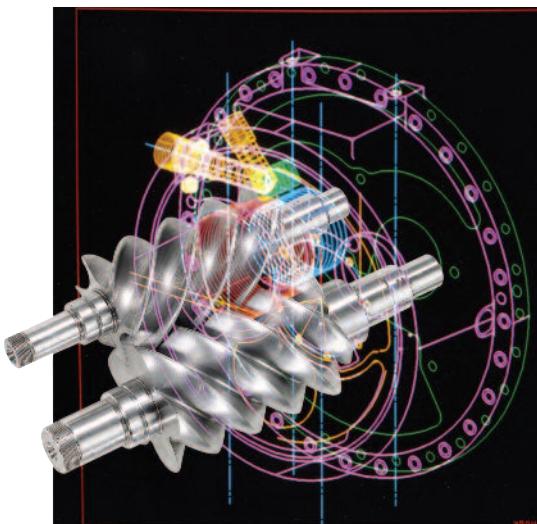
Utilizing the most modern technologies, equipment and advanced manufacturing techniques, Sullair designs, manufactures, assembles, and tests the most innovative compressed air and vacuum products in the industry. Sullair products are known around the world for their universally applicable design, outstanding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

Sullair's Statistical Process Control

Sullair's 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. Sullair is constantly exploring new ideas and seeking new ways to meet industry's need for increasingly energy efficient compressed air and vacuum solutions.



Sullair Stationary Air Power Systems

Sullair offers total compressed air systems to help compressed air users reduce energy costs and improve productivity by analyzing, managing and controlling their compressed air systems.

Sullair's air systems include: plant air audits, energy efficient products, compressed air system controls, equipment to monitor and manage systems, air distribution products, and after-purchase support.

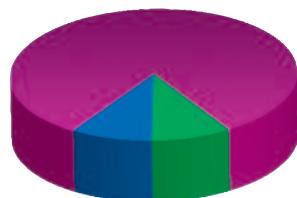
Each component of the system is carefully matched for capacity and pressure to provide maximum performance and energy efficiency. A total Sullair system provides the user with an air quality guarantee.

The Sullair ES-6 is a complete Performance Air System for small horsepower applications that includes a Sullair encapsulated compressor, Sullair dryer, Sullair filter, and 80 gallon or 120 gallon storage tank.

Note: The compressor enclosure, dryer, filter, and receiver are optional.



Sullair Reduces Your Life-Cycle Costs



- Equipment
- Maintenance
- Electricity

Air Compressor Life Cycle Costs

According to *Best Practices for Compressed Air Systems*, Compressed Air Challenge, Second Edition, 2007, energy costs now

represent 82% of the total operating expenses. Energy savings from Sullair **S-energy®** compressors can significantly reduce life cycle costs.

The Sullair **S-energy®** compressors significantly reduce operating and energy costs over the entire compressor life cycle. Contributing to the energy savings are:

- Sullair's proven air end with the low restriction inlet valve
- High efficiency fan
- Low pressure drop air-fluid separation system to prevent energy loss

Sullair designs deliver cost savings for the life of the product. Improved air filtration translates into:

- Extended separator life
- Improved fluid filter life
- Less lubricant contamination

To reduce fluid disposal costs, we offer our biodegradable Sullube® 8000-hour fluid, or 24KT™, a long-life fluid that never needs changing.

Superior Features and Benefits That Set Sullair Apart

Simple, Compact Design

Sullair encapsulated compressors utilize design simplicity to provide exceptional reliability and extremely low maintenance. Designed with a smaller footprint and 40% fewer parts than conventional models, these compact machines redefine industry standards for continuous duty compressors in the 5 to 10 horsepower range.

Rotary Screw Reliability

These **S-energy®** encapsulated compressors use a single-stage rotary screw air end, featuring Sullair's patented E-Profile rotors and rugged bearing design.

Lower Maintenance Costs

Thanks to a simplified design that uses fewer parts and connections, the **S-energy®** compressors require only minimum routine maintenance.

Broad Operating Range

ES-6 compressors are available in 5 to 10 horsepower, with capacities from 13 to 36 acfm and pressure ratings of 125 and 175 psig.

Superior Package Design

- 40% fewer parts improve reliability
- Small footprint
- Designed for continuous duty

Optional Sound Enclosure

- Reduces sound levels to 68 dBA
- Lift out doors

Reliable Sullair Air End

- Patented E-profile rotor design
- Longer bearing life

Helical Design Drive Gears

- Reduces thrust load
- Increases bearing life

Bearing Fluid Reservoirs

- Ensures fluid is available at start-up
- Extends air end life

Flange-Mounted Motor and Air End

- Provides positive alignment
- Optimizes bearing life of air end and motor
- Motor enclosure is Totally Enclosed Air Over (TEAO)
- Available voltages include 200V, 230V, 460V and 575V

Select a Long-Life Fluid...

Sullube® is Standard Factory Fill

- One-year or 8000-hour service life
- Biodegradable
- Reduces fluid disposal costs

PristineFG™ is Optional

- Custom-blended food grade fluid
- Up to 6,000 hours of lubricant life
- Reduced lubricant consumption

24KT™ is Optional

- Lifetime fluid
- Eliminates fluid disposal costs

Best Warranties in the Industry

Confirming Sullair's rugged design and commitment to customer satisfaction, all new lubricated stationary air compressors (with discharge pressures up to 150 psig) shipped from Sullair's US operations include comprehensive Extended Warranty coverage. This comprehensive warranty includes parts and labor covering:

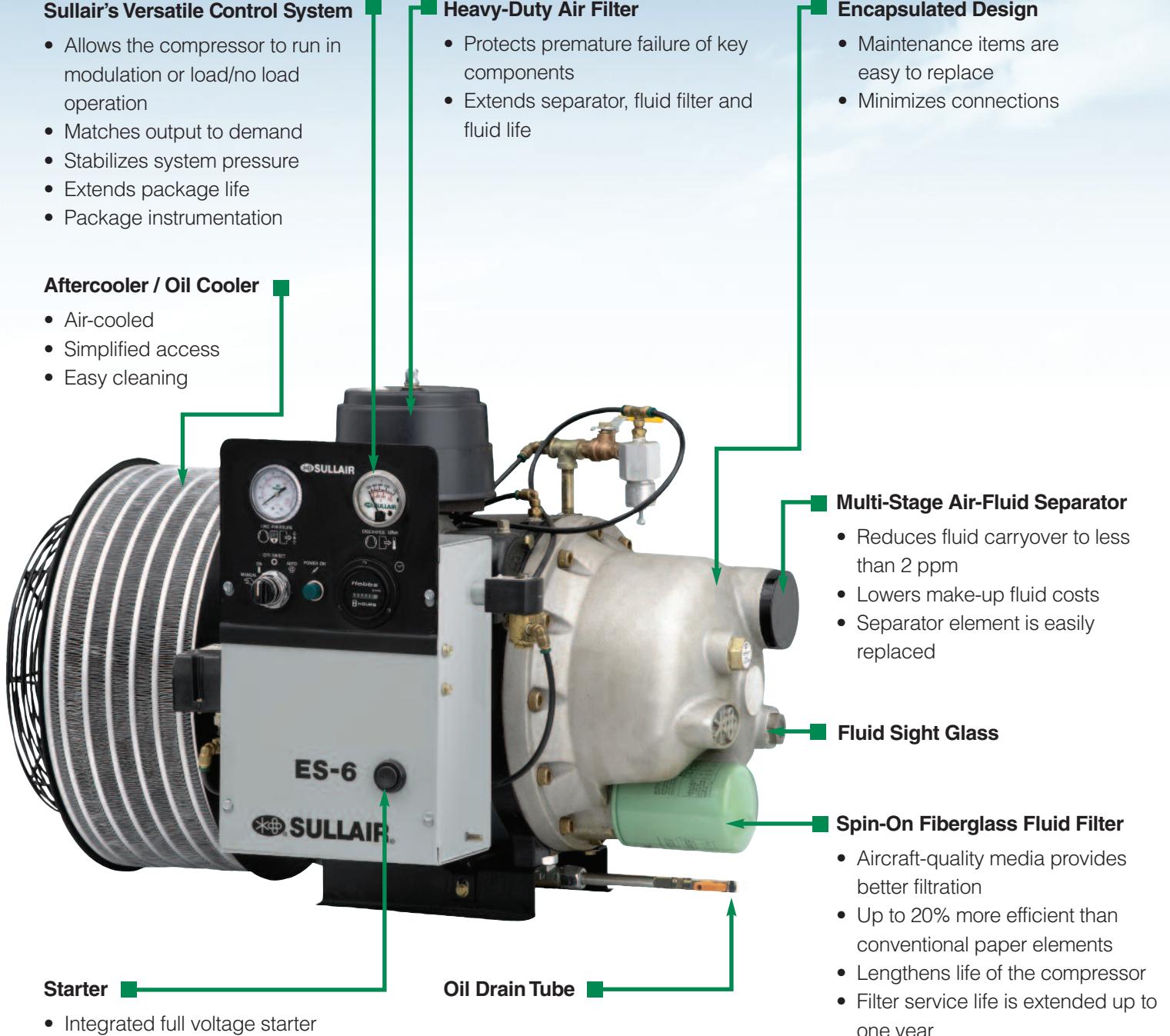
- 10 Years on the air end
- 5 Years on the motor, VSD, air/fluid receiver, oil cooler and aftercooler



Most standard compressors are eligible.



A unique design suitable for specific applications and environments.



ES-6 S-energy® Performance Air System

Compressed air is a vital source of energy for industry for applications such as manufacturing, instrumentation, and process equipment. To meet increasingly stringent air quality requirements, Sullair responds to your needs by developing a total compressed air package.

Clean, Dry Air is Essential

Quality air treatment — the removal of condensate and particulate — is essential. When cooled, vapor in compressed air will condense. The removal of condensate and particulate is essential for quality air. First, the air must be dry. Vapor in compressed air will condense when cooled. Without removing the condensate, moisture in the air stream can damage your total compressed air system, product, or process. To protect your plant air system and air-using equipment, particulate must be removed by filtration. Sullair filters will provide this protection and improve the quality of your product or process. Proper filtration will also reduce your compressed air energy costs.

The Sullair Solution

The solution is the Performance Air System. The System includes an ES-6 S-energy® compressor, optional enclosure, Sullair Dryer, Sullair Filter, and receiver tank. We've taken the guesswork out of putting your System together. All components of the System have been perfectly matched and sized to provide maximum performance, without paying for more than you need. Plus, the Performance Air System is simple to install and, because of its small footprint, requires a minimum amount of floor space.

The Sullair Dryer

Features:

- Oversized demister separator
- Low pressure drop
- Environmentally compatible refrigerant
- Dew point indicator
- Easy drain access
- Multi-panel maintenance access
- 5-year dryer warranty (compressor, condenser and heat exchanger)
- 115V voltage



The Sullair Filter

Features:

- High efficiency design using latest filter technology
- Removal of particles to 1.0 micron
- Removal of coalesced liquid water and lubricants
- Maximum remaining aerosol after filtration is 0.5 ppm @ 70°F



Features of the Receiver Tank

Include:

- ASME and CRN approval
- 80- and 120-gallon tank availability
- Pressure relief and ball valve as standard



ES-6 Air Compressor Technical Specifications

60Hz Motor Frequency		Performance Full-Load Capacities						Dryer Size	Filter Size
Model	Motor hp kW	125 psig acfm	9 bar m³/min	175 psig acfm	12 bar m³/min				
5H	5 3.7	17	.48	-	-	RN25	FXF25		
5XH*	5 3.7	-	-	13	.36	RN25	FXF25		
7.5H	7.5 5.5	28	.79	-	-	RN35	FXF45		
7.5XH*	7.5 5.5	-	-	20	.56	RN35	FXF45		
10H	10 7.4	36	1.01	-	-	RN50	FXF45		
10XH*	10 7.4	-	-	30	.84	RN50	FXF45		

*XH Models not available with 24KT.

Style	Customer Connection	Dimensions, all ES6 models					ES6 5H/XH		ES6 7.5H/XH		ES6 10H/XH	
		Length in mm	Width in mm	Height in mm	Weight lbs kg	dBA Rating†						
Open	1/2" NPT	29.5	749	25.5 648	22.8 579	230 104	80	270 122	82	280 127	85	
Enclosed	3/4" NPT	44.0	1117	28.0 711	28.0 711	400 181	68	440 199	69	450 204	70	
Open Tankmount 80 gal	1-1/4" NPT	64.5	1638	26.5 650	50.0 1270	560 254	80	600 272	82	610 276	85	
Open Tankmount 120 gal	1-1/4" NPT	67.0	1702	27.0 686	54.0 1371	650 294	80	690 312	82	700 317	85	
Enclosed Tankmount 80 gal	1-1/4" NPT	66.0	1676	28.0 711	52.5 1333	710 322	68	750 340	69	760 344	70	
Enclosed Tankmount 120 gal	1-1/4" NPT	68.0	1727	28.0 711	56.5 1435	800 362	68	840 381	69	850 385	70	
Open Tankmount 80 gal with Dryer/Filter	1/2" NPT	69.5	1765	26.5 673	50.0 1270	640 290	80	680 308	82	690 312	85	
Open Tankmount 120 gal with Dryer/Filter	1/2" NPT	71.0	1803	27.0 686	54.0 1371	730 331	80	770 349	82	780 353	85	
Enclosed Tankmount 80 gal with Dryer/Filter	1/2" NPT	71.0	1803	28.0 711	52.5 1333	810 367	68	850 385	69	860 390	70	
Enclosed Tankmount 120 gal with Dryer/Filter	1/2" NPT	72.0	1828	28.0 711	56.5 1435	900 408	68	930 421	69	940 426	70	

†At 1 meter.

Sullair's Compressed Air Products

www.sullair.com



Fundamental to Sullair's leadership is a dedication to reduce not only the amount of natural resources consumed to create energy, but to minimize environmental impact, in both the manufacture and use of all our products. We are constantly exploring new ideas and seeking new technologies to meet the ever-increasing need for high quality, energy-efficient compressed air products and environmental sustainability.



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