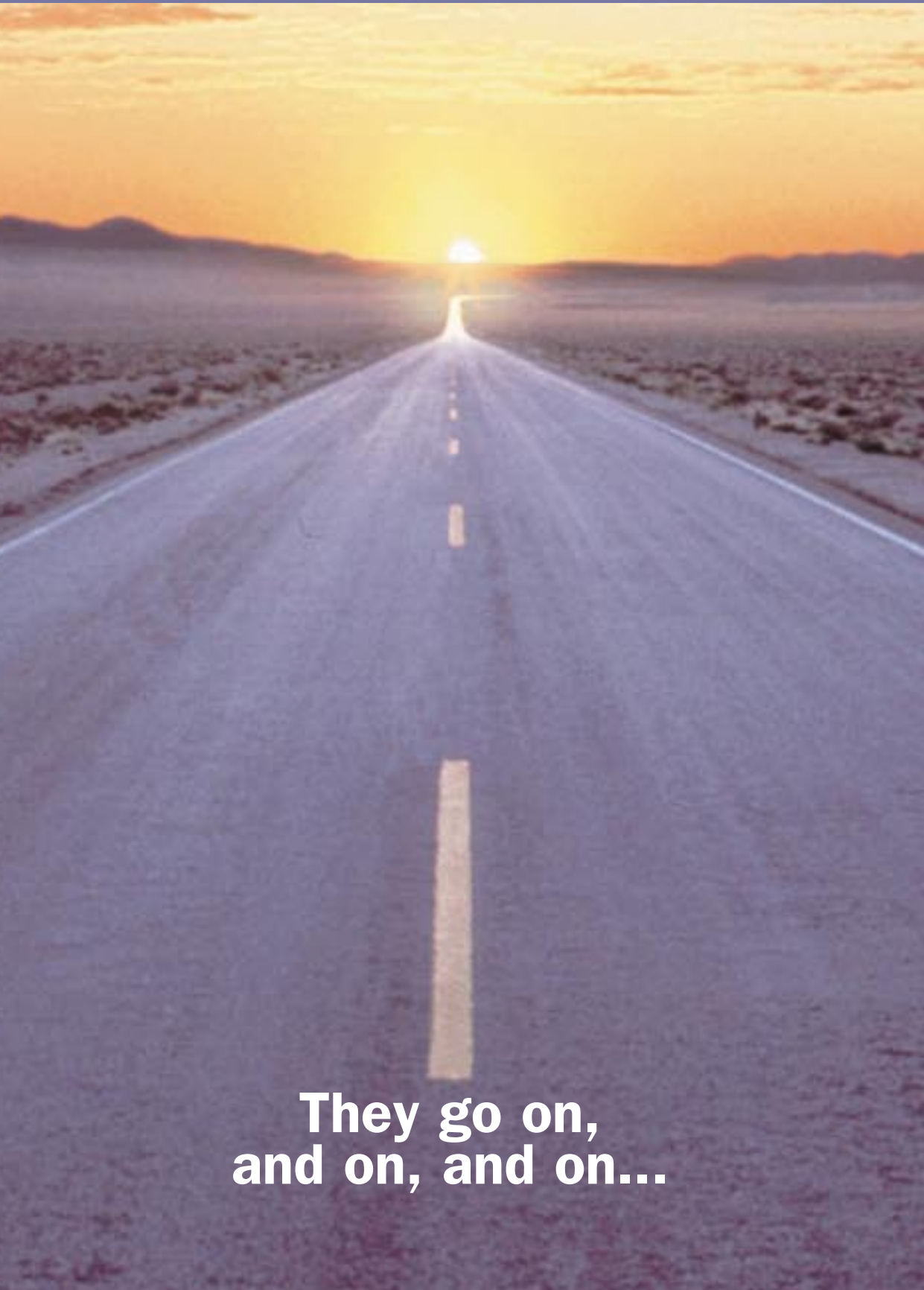


**LS Series
Rotary Screw Air Compressors
250 HP to 350 HP**



**LS-25S
250-350 HP**

A photograph of a long, straight asphalt road stretching towards the horizon. The sun is low on the horizon, creating a bright, hazy glow. The road has a dashed white line down the center and solid white lines on the sides. The landscape is flat and appears to be a desert or coastal plain.

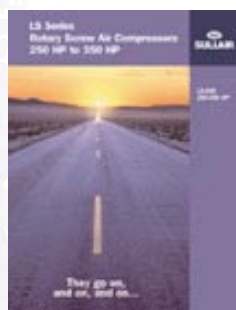
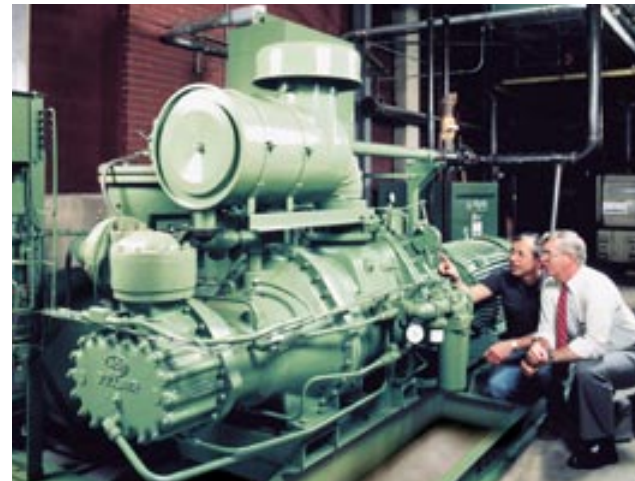
**They go on,
and on, and on...**

SULLAIR

SULLAIR: A COMPANY WITH A FOCUS

Unchallenged leadership

For decades, Sullair has been a leader in rotary screw technology. Our ability to respond to our customers' needs, with new, cutting-edge advancements is solid evidence of our leadership. Sullair compressor innovations include our encapsulated compressors, our energy efficient two-stage tandem compressors and our unprecedented 24KT™ 10-year air end warranty. Building on a solid base of experience and innovation, Sullair's leadership in rotary screw technology is unparalleled in the world today.



About the cover...

The Sullair LS-25S Series compressors are designed and built with lasting durability. Like this highway at dawn, they go on, and on, and on...

RESSOR COMPANY USED VISION.

Focus on rotary screw technology

Sullair Corporation is one of the world's leading authorities on rotary screw compression technology. Since it began manufacturing rotary screw compressors in 1965, Sullair has focused on this area of specialization. Sullair uses its extensive resources in Michigan City, Indiana to further develop and advance rotary screw technology. The company continues to compile a body of research and expertise that is unparalleled in the field.



Sullair's global reach

Sullair serves the world marketplace. In addition to its manufacturing complex in the U.S., Sullair has manufacturing facilities in China, Australia and France. From these centers, Sullair coordinates a sales and service network that provides comprehensive product support to customers around the world.



ISO 9001



Member



COMPRESSORS

THE SULLAIR RELIABILITY, PERFORMANCE

Continuous duty

Sullair Series LS compressors have established themselves as outstanding in the 250 to 350 horsepower range. These compressors offer the inherent reliability of Sullair's rotary screw design and also provide continuous-duty performance. Components of every Sullair compressor have been carefully selected to assure complete reliability.

Rotary screw dependability

These LS models use a single-stage rotary screw air end, featuring Sullair's rugged bearing design: tapered roller bearings on the discharge end and cylindrical roller bearings on the inlet, for high load-carrying capacity. On standard models, the air end is warranted for a period of **5 years⁽¹⁾**. On 24KT™ models, the air end is warranted for **10 years⁽²⁾**.

⁽¹⁾ Sullair's 5-year warranty includes motor, air/fluid receiver and cooler(s). "L" and "H" models only.

⁽²⁾ Sullair's 24KT warranty includes 5-years on the motor, air/fluid receiver and cooler(s).



LS-25S SERIES. E, AND TIME PROVEN DESIGN.

Lower maintenance costs

As a result of Sullair's rugged, time-proven design, the LS Series requires only minimum maintenance for optimum performance. There are no troublesome belts or expensive bull gear arrangements to wear out or replace.

Broad operating range

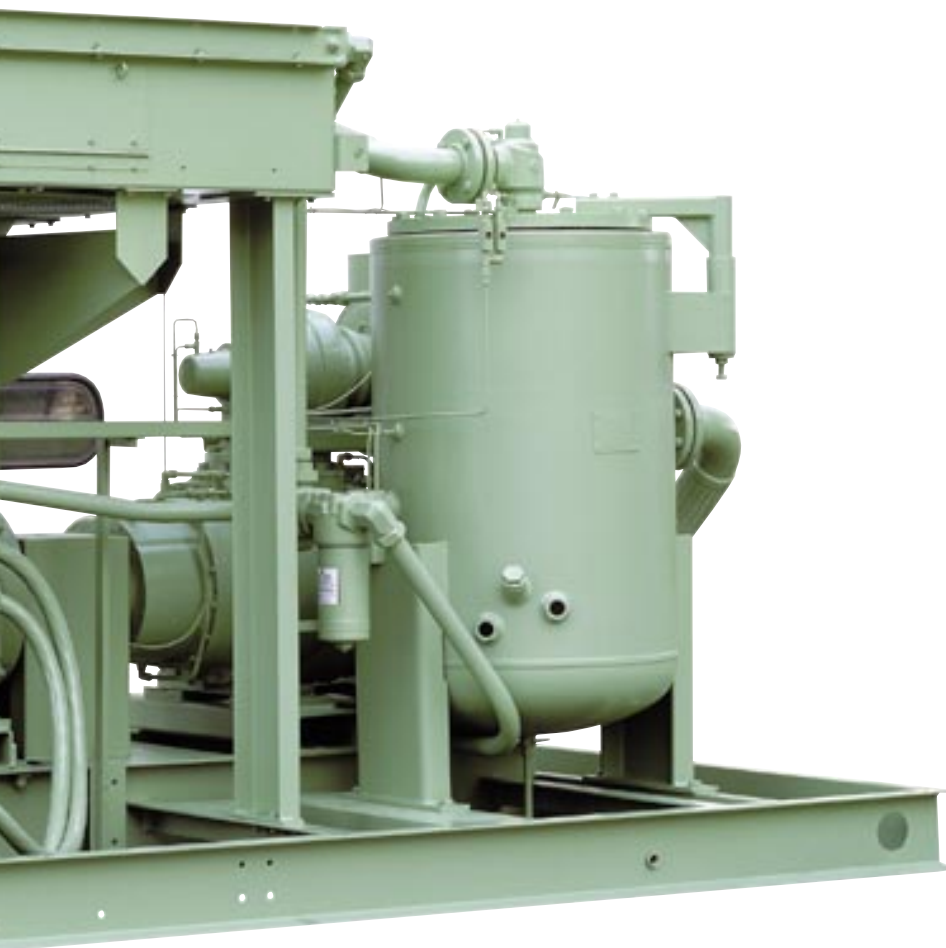
LS-25S compressors, which are fluid lubricated and cooled, are available in 250 to 350 horsepower, with capacities from 1075 to 1675 acfm and pressure ratings of 100 to 125 psig.



**COMPRESSOR
HEALTH
ASSURANCE**



**TEN YEAR
AIR END
WARRANTY**



THE SULLAIR LS-2 THE CORE OF YOUR COM

Superior package design

Designed for continuous duty.
Aftercooler, moisture separator and trap.
Air-cooled or water-cooled models are available.

1 *Sullair Supervisor Controller™*

State-of-the-art technology.
Four-line, full text display.
Accurately monitors and controls the compressor.
Computer-based controller allows sequencing of multiple compressors and communication capability.
Service and preventative maintenance information built into the controller.

2 *Multi-stage air/fluid separation*



Dual nested Optimizer™ separator elements, reduce fluid carry-over to less than 1 ppm.
Reduced carryover lowers make-up fluid costs.
Pleated Optimizer elements lower initial pressure drop for greater efficiency and extend life of the elements.

3 *Fiberglass fluid filter*

Aircraft-quality media provides better filtration.
Up to 20% more efficient than conventional paper elements.
Lengthens life of the compressor.

4 *Heavy-duty air filter*

Includes remote air intake connection.
Protects premature failure of key components.
Extends separator, fluid filter and fluid life.

5 *The reliable Sullair air end*

Longer average bearing life, designed for up to 100,000 hours of service.



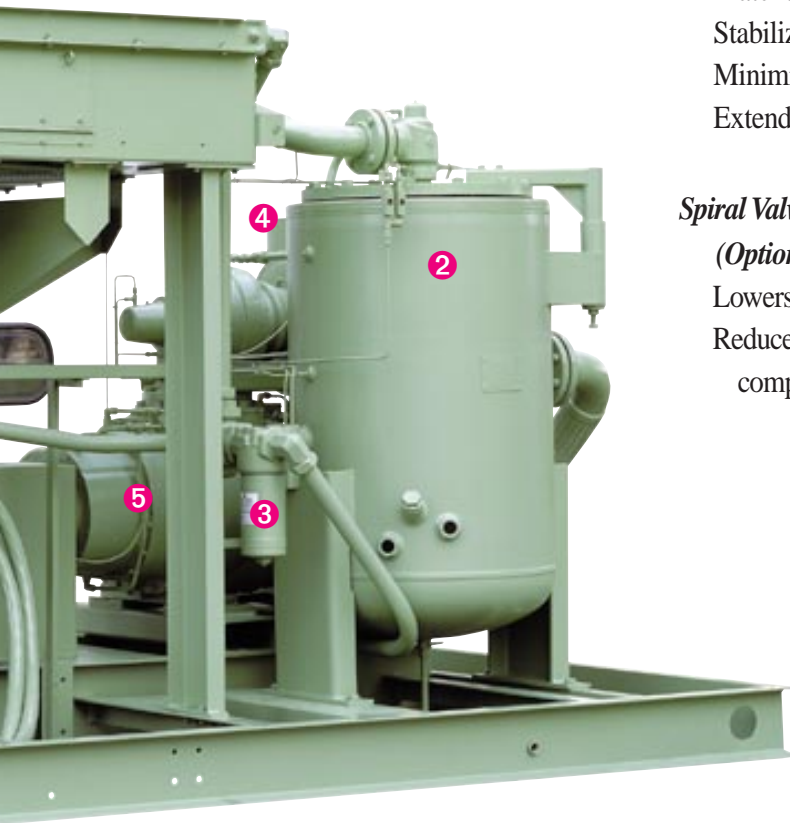
5S COMPRESSORS. COMPRESSED AIR SYSTEM.

Bearing Fluid Reservoirs

Ensure fluid is available at startup.
Extends air end life.

Premium efficient motor (Optional)

Improved energy conservation.
5-year warranty.
Direct coupled design for extended bearing life.
250,000-hour insulation life.
NEMA frame design.
Premium efficient motor optional.



Select one of these long-life fluids...

Sullube™ is standard factory fill.

5-year air end warranty.
Biodegradable.
One year or 8000 hour service life.
Reduces fluid disposal costs.

24KT™ is optional.

Exclusive 10-year air end warranty.
Eliminates annual fluid changes.
Eliminates annual fluid disposal costs.

Free fluid sampling and analysis program with either fluid.

Sullair's Versatile Control System

Matches output to demand.
Stabilizes system pressure.
Minimizes need for an air receiver.
Extends package life.

Spiral Valve Capacity Control (Optional)

Lowers part-load operating costs.
Reduces cycling duty on package components.



Reduces fluid carryover.



Allows the compressor to run in modulation or load/no load operation. Dual control operation includes automatic start/stop. Spiral Valve (optional).



Extends bearing life.

FEATURES

The reliable Sullair air end

Decades of proven reliability are testimony to the quality of the Sullair air end.

Although the principle of rotary screw compression remains the same, Sullair is continually improving materials, engineering and design of its air ends and compressor packages.

No loss of capacity or efficiency

Sullair air ends have only two moving parts: the asymmetrical profile rotors. Contact occurs only on a lubricated pitchline, so wear is virtually eliminated. As a result, Sullair compressors do not lose capacity or efficiency.

Longer air end life

Controlled pressure lubrication and BFR (Bearing Fluid Reservoirs) assure a reliable supply of fluid to rotating elements.



Lower operating costs

Discharge port matches ratios of volume and operating pressure for maximum efficiency. Axial air inlet avoids preheating inlet air for further savings.

Sullair's air end exchange program

If your Sullair compressor requires a replacement air end, Sullair will provide one with updated components featuring the latest technology. The replacement air end is factory warranted and is easy to install. If the replacement occurs during the warranty period, labor is also included.



Sullube™ Sullair's standard long-life compressor fluid

Environmentally compatible

Sullube™ is a biodegradable fluid that is recyclable. Low levels of Sullube carried over in condensate may be accepted for direct sewer disposal without additional separation/equipment. Contact local authorities for approval.

8,000-hour fluid

Because Sullube can operate for three full shifts for one year, labor related to fluid change-out and associated downtime costs during this time are virtually eliminated.

Non-varnishing

Because of its unique chemical formulation, Sullube will not varnish.

Longer fluid life

Unique additive package maintains desired characteristics over a wide range of operating conditions for extended periods.



Air quality is one of the best in the industry

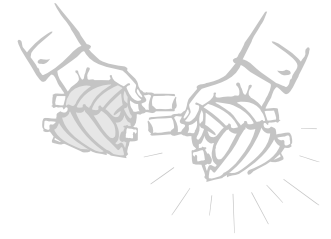
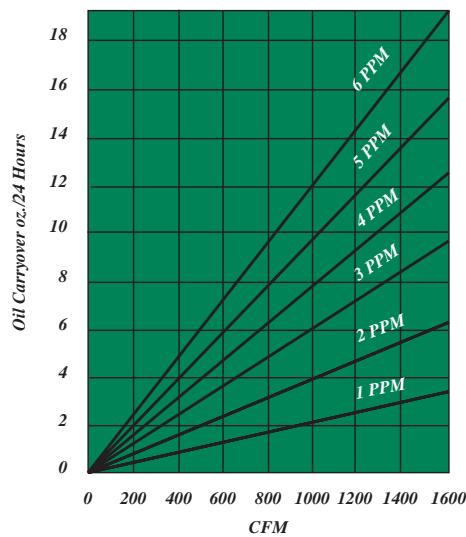
While others can claim a low carryover of 5 ppm, Sullair's LS compressors offer a carryover rate less than 1 ppm—the lowest in the industry. Sullair's MSS design uses a sump design, which allows use of oversized dual nested separators.

Sullair Optimizer Air/Fluid Separator

A high-efficiency separator that will pay for itself (during the life of the separator) in reduced compressor fluid carryover and electrical power consumption.



Oil carryover ounces per 24 hours Conversion



Fact: Factory replacement air ends are built to the latest technology.

GENUINE
SULLUBE™
BY SULLAIR

Fact: Thousands of municipalities worldwide approve Sullube in condensate form to be acceptable for sewage disposal.

FEATURES & OPTIONS

Sullair Supervisor Controller™ microprocessor controller

Compatible and user- friendly

This state-of-the-art, computer-compatible microprocessor controller has a four-line, full text display and an easy-to-read keypad.



Featuring:

- Constant readout of pressure and temperature.
- On-demand readout of all operating and maintenance conditions.
- Monitors key functions and safety shutdowns.
- Power failure auto re-start.
- Dual control, provides automatic start-stop operation.
- Lead-lag and sequencing with multiple compressors.
- Service and preventative maintenance schedule.
- “Run,” “Loaded” and “Consumable Parts” hours.
- Fault history with sensor readings.
- “Help” key provides built-in trouble shooting.

Two-way communications

RS 485 communications port allows remote input of operating parameters and output of actual readings.

24KT™ compressor fluid and the 10-year warranty

10-year compressor air-end warranty
24KT fluid formulation is so revolutionary, Sullair is the only compressor manufacturer to offer this unprecedented warranty.

Sullair's 24KT warranty includes 5-years on the motor, air/fluid receiver and cooler(s).

Routine fluid disposal costs are eliminated

There is no foreseeable end to the useful life of 24KT fluid, when used according to Sullair recommendations. Fluid-related maintenance costs are drastically reduced.

24KT Fluid extends compressor component life

24KT is chemically inert and does not break down or varnish. It works clean. Filters, separators and coolers will not plug. Bearings last longer. Associated labor costs are also reduced.

Compressor operates at peak performance

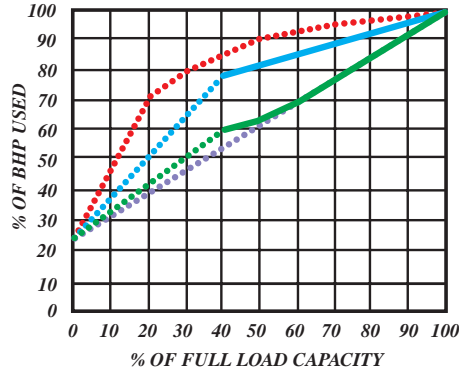
Constant viscosity insures excellent lubrication to all rotating parts.



Spiral Valve cuts energy costs dramatically

An outstanding optional feature of LS compressors is Sullair's unique capacity control system, which consists of a spiral valve and an inlet butterfly valve. This system delivers greatly improved part-load performance, especially when compared with compressors having suction throttling or load/no load controls.

Compressed air volume is varied by rotating the spiral valve, which opens and closes by-pass ports in the stator, and returns air to suction rather than compressing it. By matching compressor displacement with output need, this energy-saving system uses up to 17% less power.



Part-load Capacity Control Comparisons

A rotary screw compressor with spiral control valve reduces power consumption as the compressor load drops. More importantly, it illustrates the substantial power savings at part load when compared to other capacity control systems.

- Actual Load/No Load *
- Suction Throttling
- Theoretical Load/No Load
- Variable Displacement (Spiral Valve)

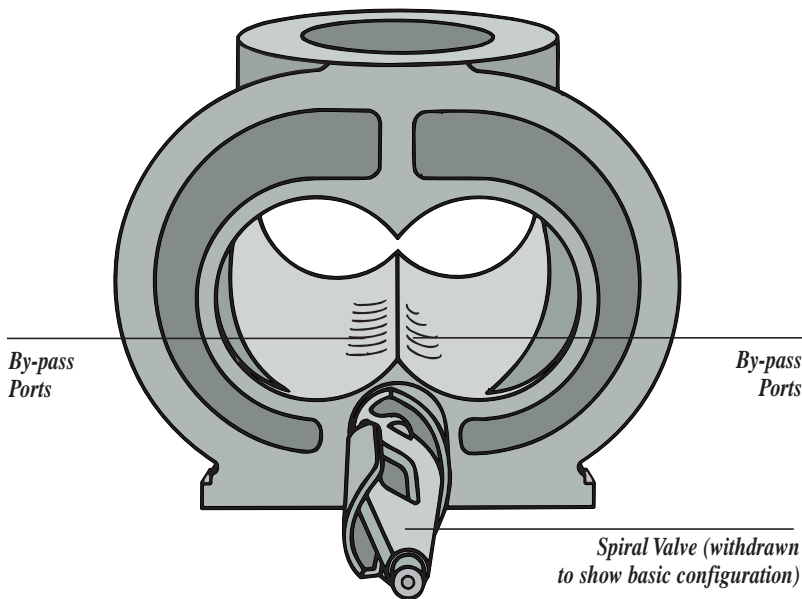
* Based on 1 gallon per cfm air storage.



In the past 25 years, Sullair has supplied over one and a half million gallons of 24KT fluid as a factory fill for its compressors. That's the equivalent of 300 tanker trucks.



24KT is based on silicone fluid (polydimethylsiloxane-PDMS), which poses no known hazard to the environment. PDMS is not classified as a hazardous waste and has demonstrated no adverse effects on animal or plant life.



OPTIONS

Additional options

Various other options are available for customizing the LS compressor to meet individual needs. They include:

Acoustical enclosures with hinged doors and lift-out panels

reduce noise levels and enhance appearance. Lift-out panels save valuable floor space.

EES—Heat Recovery System

Offers additional benefits and maximum return on investment. Heat can be recovered and converted into recirculating air for comfort heating in plants or pre-heated process air

High static fans

for ducting away heat or for use on EES heat recovery.

Outdoor modifications

including sub-freezing installations.

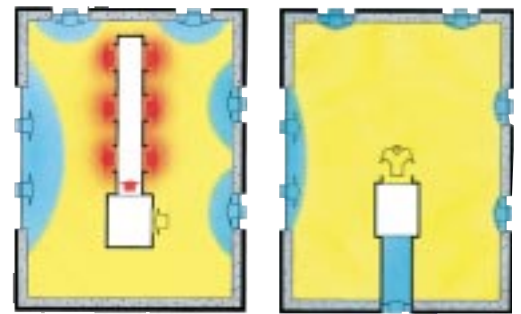
Sullair will provide motors and starters to fit your applications

Consult factory.

EES

heat recovery system converts wasted energy

This option offers big benefits and maximum return on investment. Heat can be recovered and converted into recirculating air for comfort heating in plants or pre-heated process air. When not required, heat is rejected to the outdoors.



Provides savings on heating bills

A 100 horsepower compressor can deliver 4662 Btu/minute. That represents usable heat worth \$1,400 per 1,000 hours of compressor operation, at \$0.50/therm.

Pay-back in less than two years

on the resulting saving. The EES can be installed for an initial investment equal to or less than nearly any heat recovery system.

Control temperature

with thermostatic monitoring and the capability to mix outdoor air with recirculating air. Temperature range can be adjusted from 50°F to 90°F (10°C to 32°C).

Negative pressure problem solved

By bringing in a continuous flow of outside air, the EES System will provide positive make-up air to virtually eliminate negative pressure in the plant.

Standard and optional equipment

LS-25S—250-350 HP

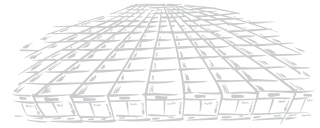
Sullair Supervisor Controller	●
Direct Coupled	●
Highly Efficient Air/Fluid Separation—MSS	●
Spin-On Fiberglass Fluid Filter	●
Spiral Valve	●
Heavy Duty Intake Filter	●
Sullube 8000 Hour Compressor Fluid	●
Food Grade Compressor Fluid	●
Optimizer Separator	●
Bearing Fluid Reservoir—BFR	●
Wye Delta Starter	●
Solid State Starter	●
Full Voltage Starter	●
ODP Premium Efficiency Motor	●
TEFC Premium Efficiency Motor	●
TEAO Premium Efficiency Fan Motor	●
Emerald 5-year Health Assurance ⁽¹⁾	●
24KT (10-Year Air End Warranty) ⁽²⁾	●
Sound Attenuating Enclosure	●
Sullair's Versatile Control System—VCS	●
Cold Weather Package	●
Water-cooled	●
Energy Efficiency System—EES	●

● = Standard ● = Option

⁽¹⁾ Sullair's 5-year warranty includes motor, air/fluid receiver and cooler(s). "L" and "H" models only.

⁽²⁾ Sullair's 24KT warranty includes 5-years on the motor, air/fluid receiver and cooler(s).

Sullair is committed to a program of continuous improvement.
Features and specifications may change without notice.



*Fact: Today, more than
150,000 Sullair com-
pressors are in use
around the world.*



AIR QUALITY

Sullair's Air Quality Guarantee. A guarantee that's as good as gold.

The Sullair System.

The Sullair System matches a Sullair compressor, a Sullair dryer and Sullair filters. Dry air is filtered to remove atmospheric particulate, aerosols and other pollutants to provide compressed air for general purposes to the most critical application.

Two levels of air quality.

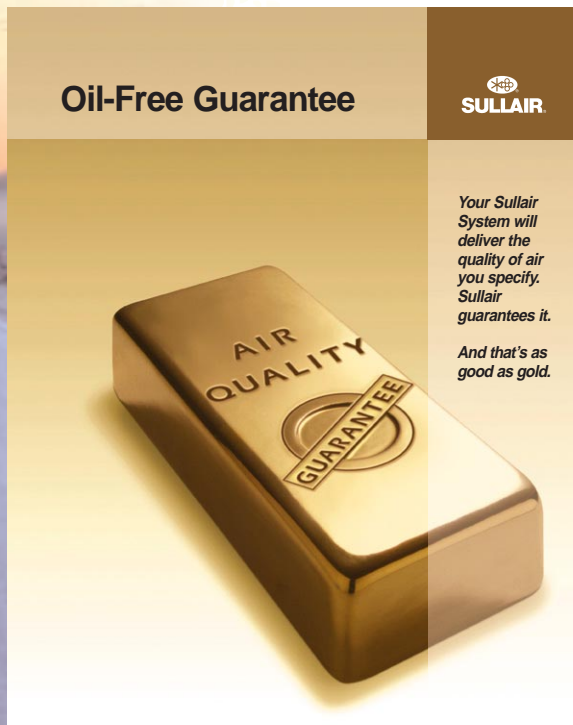
Sullair recognizes that the requirements for air quality vary according to each compressed air application. For this reason, we provide Systems that achieve two distinct levels of air quality.

Level 1.

This System consists of a Sullair compressor and Sullair MPF and MPH or PF/PH filters. The compressed air from this system contains particulates no larger than .01 micron, including coalesced liquid water and lubricants. Maximum remaining oil aerosol content is 0.01 parts per million by weight (ppm/w) @ 70°F, including oil vapor. The air from this Sullair System meets the most stringent ISO standard (ISO 8573.1, Class 1) for air quality.

Level 2.

Level 2 offers the highest quality compressed air for critical applications. The air from this Sullair System exceeds the ISO standard (ISO 8573.1, Class 1) for air quality with the use of the MPC or PC filter. The System includes a Sullair compressor and Sullair MPF, MPH and MPC or PF, PH and PC filters. The odor-free compressed air from this system contains particulates no larger than 0.01 micron, including water and oil aerosol content of 0.01 ppm/w @ 70°F. The remaining oil vapor content is less than 0.003 ppm/w.



Oil-Free Guarantee

SULLAIR

Your Sullair System will deliver the quality of air you specify. Sullair guarantees it.

And that's as good as gold.

Select the System.

Select the air quality level to meet your plant air or process requirements. You can be assured that the quality of air from the Sullair System you specify will remain consistent for the life of the equipment. Sullair guarantees it. And that's as good as gold.

SERVICE & SUPPORT

Global service support and worldwide parts availability



Your investment is supported by an experienced team of compressed air system experts. Our global network of authorized Sullair distributors and field service representatives provides 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 LS-25S 60Hz

	250L	250H	300L	300H	350L	350H
Compressor Performance						
Capacity (acfm)	1218	1075	1480	1330	1615	1460
Full Load Pressure (psig)	100	125	100	125	100	125
Motor (hp)	250	250	300	300	350	350
Dimensions and Weight, Enclosure, Air-Cooled						
Length (in)	154	154	154	154	154	154
Width (in)	78	78	78	78	78	78
Height (in)	86	86	86	86	86	86
Weight (lb)	10760	10760	10760	10760	11110	11110

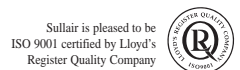
Specifications for LS-25SKT 60Hz

	250L	250H	300L	300H	350L	350H
Compressor Performance						
Capacity (acfm)	1218	1075	1480	1330	1615	1460
Full Load Pressure (psig)	100	125	100	125	100	125
Motor (hp)	250	250	300	300	350	350
Dimensions and Weight, Enclosure, Air-Cooled						
Length (in)	154	154	154	154	154	154
Width (in)	78	78	78	78	78	78
Height (in)	86	86	86	86	86	86
Weight (lb)	10760	10760	10760	10760	11110	11110

Sullair is committed to a program of continuous improvement. Features and specifications may change without notice.



This is one of several compressed air products that comprise the Sullair System. The System includes oil-free and lubricated air compressors, dryers, filters and related accessories, designed to deliver peak performance and energy efficiency.



www.sullair.com

SULLAIR CORPORATION, 3700 E. Michigan Blvd., Michigan City, IN 46360 Telephone: 1-800-367-6737 or 219-879-5451

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