LUBRICATED ROTARY SCREW AIR COMPRESSORS

100 to 200 HP
When reliability is a prime concern.
SULLAIR: A COMPRESSOR COMPANY WITH A FOCUSED VISION.

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.

Focus on rotary screw technology

Sullair Corporation, a subsidiary of Sundstrand 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 and France. From these centers, Sullair coordinates a sales and service network that provides comprehensive product support to customers around the world.
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Member of:

ISO 9001

CAGI

pneurop
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THE SULLAIR LS-20 (100), LS-20S & LS-25 SERIES.
RELIABILITY, PERFORMANCE, AND A PROVEN DESIGN.

Continuous duty
Sullair Series LS compressors have established themselves as outstanding in the 100 to 200 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).
(2) Sullair’s 24KT warranty includes 5-years on the motor, air/fluid receiver and cooler(s).

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-20 (100), LS-20S and LS-25 compressors, which are fluid lubricated and cooled, are available in 100 to 200 horsepower, with capacities from 344 to 1000 acfm and pressure ratings of 100 to 175 psig.
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THE SULLAIR LS-20 (100), LS-20S AND LS-25 COMPRESSORS.
THE CORE OF YOUR COMPRESSED AIR SYSTEM.

Superior package design
SAE O-ring fittings are standard. (LS-20-100)
Number of fittings are reduced. Designed for continuous duty.
Aftercooler, moisture separator and trap.
Air-cooled or water-cooled models are available.

1 Sullair Supervisor II Deluxe microprocessor
   Constantly displays essential functions.
   Accurately monitors and controls the compressor.
   Computer-based controller allows sequencing of multiple compressors.
   Electro-mechanical controls optional.

Cooling
Air-cooled units have updraft coolers for ease of installation and heat recovery capabilities.
Water-cooled units use shell and tube heat exchanger and water regulating valve.

3 Multi-stage air/fluid separation
   Dual nested Optimizer™ separator elements, reduce fluid carry-over to less than 2 ppm.
   Reduced carryover lowers make-up fluid costs.
   Pleated Optimizer elements lower initial pressure drop for greater efficiency and extend life of the elements.

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

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

The reliable Sullair air end
   Longer average bearing life, designed for up to 100,000 hours of service.

Flange-mounted motor and air end (LS-20S)
   Up to 3% energy savings over belt drive.
   Eliminates maintenance expense associated with V-belts.
   NEMA frame design.
   Provides positive alignment.
   Optimizes bearing life of air end and motor.

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.

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

Bearing Fluid Reservoirs
Ensure fluid is available at startup.
Extends air end life.
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Flange-mounted motor and air end (LS-20S)
   Up to 3% energy savings over belt drive. Eliminates maintenance expense associated with V-belts. NEMA frame design. Provides positive alignment. Optimizes bearing life of air end and motor.

Sullair’s Versatile Control System

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

Bearing Fluid Reservoirs
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THE SULLAIR LS-20 (100), LS-20S AND LS-25 COMPRESSORS.
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Fiberglass fluid filter
Aircraft-quality media provides better filtration. Up to 20% more efficient than conventional paper elements. Lengthens life of the compressor.

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

FREE FLUID SAMPLING AND ANALYSIS PROGRAM WITH EITHER FLUID.

MULTI-STAGE SEPARATION
Reduces fluid carryover.

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

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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.

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.

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.

5-year warranty
The EQP III motor is warranted for 5 years.

Improved energy conservation
These premium efficiency motors are designed and manufactured in the U.S.A. to meet North America’s ever increasing need for improved energy conservation and product reliability. Toshiba EQP III motors are standard on the LS-20 (100), LS-20S and LS-25. Motors are direct-coupled to eliminate the problems of belt maintenance and energy loss.

Inverter grade insulation system
This new insulation system, designed to meet NEMA MG1 Part 31.40.4.2 standards, provides even more energy savings.

Rugged construction
Motor has a cast iron frame and bearing brackets, stainless steel nameplate with bearing data, and lip seal/slinger bearing protection. NEMA frame is standard.

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

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

Sullair Supervisor II Deluxe microprocessor controller

24KT™ compressor fluid and the 10-year warranty

Compatible and user-friendly
This state-of-the-art, computer-compatible microprocessor controller has a simple graphical illustration of the monitored functions 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.

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

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 coolers.

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.

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.

Optional Remote Cooler
The remote cooler package gives you the flexibility of locating the cooler away from the compressor. Since it is a separate module, it is easier to clean than if it were machine mounted. (LS-20S and LS-25)
Sullair Supervisor II Deluxe microprocessor controller

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<table>
<thead>
<tr>
<th>% Of Full Load Capacity</th>
<th>% Of BHP Used</th>
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<tr>
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Optional Remote Cooler
The remote cooler package gives you the flexibility of locating the cooler away from the compressor. Since it is a separate module, it is easier to clean than if it were machine mounted. (LS-20S and LS-25)
Compatible and user-friendly
This state-of-the-art, computer-compatible microprocessor controller has a simple graphical illustration of the monitored functions 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.

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

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.

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.

Optional Remote Cooler
The remote cooler package gives you the flexibility of locating the cooler away from the compressor. Since it is a separate module, it is easier to clean than if it were machine mounted. (LS-20S and LS-25)
Various other options are available for customizing the LS compressor to meet individual needs. They include:

**Acoustical enclosures with 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.

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**OPTIONS**

**Additional options**

<table>
<thead>
<tr>
<th>Options</th>
<th>LS-20 (100)</th>
<th>LS-20S</th>
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● = Standard  ● = Option

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Footnotes:

(1) Sullair’s 5-year warranty includes motor, air/fluid receiver and cooler(s).

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

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Fact: Today, more than 150,000 Sullair compressors are in use around the world.
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**Additional options**

**Oil-Free Guarantee**

**Standard and optional equipment**

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<thead>
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