SULLAIR TWO-STAGE

Rotary Screw Air Compressors
Constant Speed and Variable Speed Drives (VSD)
112–450 kW  |  150–600 hp

Always air. Always there.
ABOUT SULLAIR

For more than 50 years, Sullair has been on the leading edge of compressed air solutions. We were one of the first to execute rotary screw technology in our air compressors. And our machines are famous all over the world for their legendary durability. As the industry moves forward, Sullair will always be at the forefront with quality people, innovative solutions, and air compressors that are built to last.

Sullair was founded in Michigan City, Indiana in 1965, and has since expanded with a broad international network to serve customers in every corner of the globe. Sullair has offices in Chicago and manufacturing facilities in the United States and China — all ISO 9001 certified to assure the highest quality standards in manufacturing. In addition, Sullair Suzhou and Shenzhen facilities are ISO14001 and OHSAS 18001 certified.

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 50 years, Sullair has designed and manufactured its own rotors and air end assemblies in Michigan City, Indiana.

The legendary 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.

STATISTICAL PROCESS CONTROL
The Sullair Statistical Process Control (SPC) system monitors rotor quality standards to assure consistent compressor and vacuum performance.

COMMITMENT TO INNOVATION
Underlying leadership at Sullair is a dedication to excellence and a commitment to innovation. Sullair constantly explores new ideas and seeks new ways to meet the industry’s need for increasingly energy efficient compressed air and vacuum solutions.
TWO-STAGE COMPRESSION ADVANTAGES
AT FULL-LOAD

Up to 15% power savings
Compared to equally sized single-stage compressors, two-stage compressors offer a 12–15%* power advantage.

Why?
- Compression is divided between two stages resulting in power savings
- Reduced differential pressure across each stage minimizes internal leakage losses

Example: A single-stage compressor located at sea level and operating at 100 psig has a 7.9 to 1 compression ratio (in absolute terms).

A two-stage compressor operating at the same altitude and pressure has a 2.1 to 1 compression ratio per stage.

Setting the industry standard since 1984 with a superior end-to-end design
- Unique rotor arrangement engineered for maximum efficiency compared to other two-stage configurations
- Unmatched full-load efficiency—energy savings investment payback in a quickly as two years compared to single-stage compressors

Capacity Control Options
Match compressed air supply with demand.
- Spiral Valve
- Variable Speed Drive (VSD)

Rotary Screw Reliability
Two-Stage Series tandem compressors use a two-stage rotary screw air end, featuring the Sullair rugged bearing design:
- Tapered roller bearings on the discharge end
- Cylindrical roller bearings on the inlet for high load carrying capacity

Dividing compression across two stages also extends bearing life.

Broad Operating Range
Power: 150–600 hp (112–450 kW)
Delivery: 590–3000 acfm (16.7–84.9 m³/min)
Pressure: 100–175 psi (6.8–12 bar)

Two-Stage Extreme Pressure models available
Power: 200–500 hp (149–373 kW)
Delivery: 500–1350 acfm (14.2–37.8 m³/min)
Pressure: 225–500 psi (15.5–34.5 bar)

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*S Compressed Air and Gas Handbook [Sixth Edition]
POWER SAVINGS
PER 1000 CFM ON TS-32

Two-Stage Tandem vs Single-Stage Rotary Screw
At Full-Load

At a power cost of $.08/kW/hr, the black dotted line illustrates a tandem two-stage compressor will save $14,373 per 1000 cfm over a single-stage compressor operating for 8000 hours at 100 psig.

At a power cost of $.12/kW/hr, the green dotted line shows a $21,560 savings per 1000 cfm over a single-stage compressor operating for 8000 hours at 100 psig.

The savings will be significantly greater for higher capacity compressors.

LEGENDARY 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 continually improves materials, engineering and design of its air ends and compressor packages.

Longer Air End Life
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.

No Loss of Capacity or Efficiency
Controlled pressure lubrication and Bearing Fluid Reservoirs (BFR) 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.
1. **Multi-Stage Air-Fluid Separation**
   - Dual nested Optimizer™ separator elements, reduce fluid carryover to a maximum of 1 ppm
   - Reduced carryover lowers make-up fluid costs
   - Pleated Optimizer elements lower initial pressure drop for greater efficiency and extends element life
   - Easy to change with built-in lid lifting device

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

3. **Optimalair® Heavy-Duty Air Intake Filter**
   - Includes remote air intake connection
   - Provides finest inlet filtration in the industry (0.4 microns using Fine Fiber Technology)
   - Keeps fluid clean and extends life of other internal components
   - Reduces pressure drop throughout the operating life, resulting in energy savings

4. **Two-Stage Compressor Air End**
   - Delivers more air
   - Reduces power consumption
   - Extends air end bearing life

5. **Enhanced Serviceability for Air-Cooled Oil Cooler and Aftercoolers**
   - Easy to remove panels provide access for cleaning coolers

6. **Motor Coupled to Air End Through Non-Lubricated, Flexible Coupling**
   - Allows use of standard NEMA frame motor
   - Simplifies installation and start-up

7. **Variable Capacity Control System Featuring Spiral Valve Technology**
   - Lowers part-load operating costs
   - Reduces cycling duty on package
   - Maintains consistent plant pressure
   - Simple control
   - Reduces bearing load

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**SULLAIR**

**TWO-STAGE COMPRESSORS**

**TS-20, TS-32 AND TS-32S**
**Sullair Supervisor™ Controller**
- Computer-compatible microprocessor controller has simple graphic illustration of monitored functions and an easy-to-read keypad
- Constant readout of pressure and temperature
- On-demand readout of all operating and maintenance conditions
- Monitors key functions and safety shutdowns
- Power failure auto restart
- Dual control, provides automatic start-stop operation
- Lead-lag and sequencing with multiple compressors
- Service and preventive maintenance schedule
- Hours are recorded for “Run,” “Loaded” and “Consumable Parts”
- Fault history with sensor readings
- “Help” key provides built-in troubleshooting

**Easy Maintenance**
- Access to all critical components even with a sound enclosure installed

**Time Proven End-to-End Design**
- Reduces pressure drop through stages
- Easy serviceability

**NEMA 4**
- Wye Delta starter for softer start

**Bearing Fluid Reservoirs**
- Ensure that fluid is available at start-up
- Extend air end life

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**SELECT A LONG-LIFE FLUID**

**Genuine Sullube® Factory Fill**
- A 10,000-hour extended-life synthetic fluid powered by Dow technology, Sullube has been used in more than 50,000 compressors worldwide

**Optional PristineFG™**
- Food Grade Designed specifically for compressors used in food, beverage and pharmaceutical applications and meets FDA and USDA H-1 requirements

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**Sullair 10-Year Diamond Warranty**
Confirming our rugged design and commitment to customer satisfaction, Sullair Two-Stage air compressors with discharge pressures up to 150 psig include the exclusive 10-year Diamond Warranty. The comprehensive warranty covers:
- 10 years on the air end
- 5 years on the motor, VSD, air/fluid receiver, oil cooler and aftercooler

Maintaining the Sullair 10-Year Diamond Warranty requires using Genuine Sullair parts and fluids, as well as the oil sampling program.
PART-LOAD SAVINGS WITH SULLAIR SPIRAL VALVE

Fact: Electric power costs to run an air compressor continuously for one year is often two to three times greater than the compressor purchase price itself.

Sullair Two-Stage Series with Spiral Valve
By combining two-stage compression and a spiral valve, the TS performs with unmatched full-load and part-load efficiency — often providing a two-year energy savings payback compared to a single-stage compressor.

Spiral Valve Saves You Power
Compressor displacement is matched to the output need. Spiral Valve technology assures precision operation for virtually any part load point. Thus providing significant power savings at part load conditions compared to compressors using suction throttling, or load/no load control.

Part-load capacity and efficiency can produce energy savings up to 17%.

Built-in Energy Savings
- 13% more efficient at full-load operation compared to single-stage screw compressors
- 30% savings at 60% load compared to single stage screw compressors

How It Works
Compression volume varies to suit the air demand by progressively opening or closing internal bypass ports on the air end.

Capacity is matched to system demand — reducing cycling time and extending component life.

Match Supply with Demand
By activating automatically when the unit is operating under partial load. This allows compression of only the required quantity of air — allowing greater compression efficiency and reduced power consumption.
SULLAIR VARIABLE SPEED DRIVE (VSD) COMPRESSORS WITH SMART TECHNOLOGY

Compressors with Sullair Smart Technology
Simplicity. Reliability. System Protection.

- Excellent energy savings
- Helps prevent potential peak demand charges
- Sullair Two-Stage Series provides highest power factor over the frequency range — helping avoid utility company penalties
- Potential utility company rebate
- DC link choke or 3% line reactor included (model/voltage specific)
- Stable system pressure
- Consistent product quality
- Reduced storage requirements
- Flexibility for future growth
- Lowest five-year life cycle cost

Reliability
- Complete package designed from the frame up — not built with a variety of off-the-shelf components
- Serial communication between the Supervisor™ Controller and VSD eliminates need for hard wired relays

VSD — SUPERIOR CAPACITY CONTROL
- Stabilizes system pressure — improving process consistency and reducing product rejects
- Increased margins from energy savings

Maximum Energy Efficiency with Sullair Two-Stage Series
- Legendary air end with low restriction inlet valve
- Optimized fluid system — reducing fluid temperatures
- Premium efficient motors
- Low pressure drop air-fluid separation system
- High-efficiency fan

Considering energy costs represent 82% of the total cost of owning compressors, these savings significantly reduce total life cycle costs.

Total Compressor Flexibility
Sullair Variable Speed Drive compressors provide flexibility to vary both capacity and pressure — allowing you to grow your air system without adding another compressor.

The chart above is a representation of nominal control systems for generic comparative purposes. A detailed and accurate comparison of specific compressor models is available from your Sullair representative or authorized distributor.

SULLAIR STATIONARY
AIR POWER SYSTEMS

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

Sullair 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.

The system includes:
- Rotary screw compressor
- Wet storage
- Refrigerated dryer or desiccant dryer
- Filters to meet your requirement
- Dry storage
- Flow controller
- Drains
- Oil/water separator

Sullair Reduces Your Life Cycle Costs

Air Compressor Life Cycle Costs

Sullair compressors help significantly reduce operating and energy costs over the entire compressor life cycle. How?
- Legendary Sullair air end with a low restriction inlet valve
- High-efficiency fan
- Low pressure drop air-fluid separation system to prevent energy loss

Extend component life with improved air filtration
- Extended separator life
- Improved fluid filter life
- Less lubricant contamination

Fluid matters
Genuine Sullube® 10,000-hour fluid helps reduce fluid disposal costs.
TWO-STAGE EXTREME PRESSURE
HIGH PRESSURE PERFORMANCE. SULLAIR DURABILITY.

200–500 hp  |  225–500 psi

- Dependable, high-performance two-stage air end for maximum power savings
- 460v motor coupled to air end via non-lubricated, flexible coupling
  - Allows use of Standard NEMA frame motor
  - Flange-mounted for positive alignment
- Sullair Supervisor Controller
  - Easy pressure adjustment
  - Capacity modulation range 100 to 40%
- Heavy-duty inlet air filter
  - Two-stage, dry type
    - Inside safety element
    - Differential pressure indicator
- Air-fluid separation
  - ASME psi rated tank
  - ASME pressure relief valve
  - Pleated air-fluid separator element for lower initial pressure drop
- Cooling
  - Air-cooled units use mounted and piped aftercooler with quiet fan
  - Water-cooled units feature an air-in-shell, water-in-tube aftercooler design
- Options
  - Magnetic starter
  - Solid state starter
  - Sound attenuating enclosure with removable panels
  - 575v
# TECHNICAL SPECIFICATIONS

## 60Hz Motor Two-Stage

### MOTOR

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## 50Hz Motor Two-Stage

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* Capacity per CAGI / PNEUROP PN2CPT2 (Annex C to ISO 1217) Information and data are subject to change without notice.
## TECHNICAL SPECIFICATIONS
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For more information, contact your local authorized Sullair distributor.