Lubricated Rotary Screw Air Compressors

Constant Speed Drives and Variable Speed Drives

18–30 kW ▪ 25–40 hp

* Model Variations: V = Variable Speed Drive; ** Capacity per CAGI / PNEUROP PN2CPTC2 (Annex C to ISO 1217)

Moisture Drain Connection at 1/4” NPT

† dBA at 1 meter

Information and data are subject to change without notice.
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 ISO9001, 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 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.

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.
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 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

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.

Sullair S-energy compressors significantly reduce operating and energy costs over the entire compressor life cycle. Contributing to the energy savings are:
- Proven Sullair air end with a 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, S-energy compressors are factory-filled with biodegradable Genuine Sullube® 10,000-hour fluid.

- Protects and cleans (no varnish)
- Controls operating temperatures
- Optimal viscosity
- Environmentally friendly
- Reduces fluid loss
- High flash point (505°F/263°C)
SULLAIR® SERIES COMPRESSORS ARE EASY TO MAINTAIN

Before we designed these compressors, we reviewed every aspect of product development with the customer and the maintenance staff in mind. The result is Sullair reliability in one of the most compact, robust, maintenance-friendly and quietest compressor package available on the market.

Multiple features of the S-energy series revolutionize the compressor’s serviceability and provide for a cleaner, safer work environment and cost effective compressor. Standard maintenance can all be performed from this side.

Features and Benefits

**Standard Features**
- Low restriction inlet valve for better cfm performance
- Low life cycle costs including long-life bearings, rotors, and consumable parts
- Less than 1 ppm fluid carryover
- Excellent motor cooling design characteristics for longer motor life
- Wye Delta Starter
- Sequencing standard
- NEMA 4 standard
- TEFC Motor
- WS Controller™ standard
- Easy access oil sampling valve
- Small footprint
- Quietest in its class, as low as 67 dBA
- 12 unique serviceability features
- Environmental, health, and safety design features
- Genuine Sullube®—10,000 hour, non-varnishing, biodegradable compressor fluid
- Optimalair® air filter provides 10 times better filtration than other filters

**Quiet Design**
- Air end, motor, and receiver tank are mounted on rubber isolators
- Insulated intake and exhaust louvers
- Low-noise fan

**Small Footprint**
- More compact than similar compressors on the market
- All maintenance is performed from one side, reducing the amount of clearance and floor space typically required

**Options**
- Variable Speed Drive
- Cold weather package
- Weather hood
- Total package filtration
- Other motors and starters

**WS Controller™**
With the simplified WS microprocessor, there are no complicated menus to manage.
- The graphic display is clear and concise
- Get the critical operations information more easily, including status, temperature, pressure, and load/unload set points
- Use a Windows PC to remotely monitor, upgrade the software, and set up changes
- Built-in sequencing of up to 16 machines

**Sullair Motor Features**
- Slow speed—1800 rpm
- Cast iron construction
- NEMA design
- Direct coupled/flange mounted
- Most comprehensive warranty in the industry

**Environmental Protection Pan**
S-energy units feature a fully sealed environmental protection pan to capture spills that may occur during servicing.

**Sullair Optimizer™ Air-Fluid Separator**
- High-efficiency media
- Lower pressure drop reduces power consumption
- Less than 1 ppm carryover reduces cost of make-up fluid

**Fiberglass Fluid Filter**
- Coreless, non-metallic design means easy disposal
- 20% more efficient than common cellulose media
- Better filtration lengthens the life of the compressor unit

**Sullair Optimalair® Air Filter**
- Provides the finest inlet filtration in the industry (.4 micron)
- Keeps fluid clean and extends life of internal components
- Reduces pressure drop during operating life, resulting in energy savings
1. **Drive Coupling Element**
   Easy access through a large opening and a wrap-flex element allows change without disturbing the hubs.

2. **Quick Thermostat Change**
   To change the thermostat, simply thread the old thermostat out, and the new one in.

3. **Improved Separator Maintenance**
   Simply unbol the lid and lift it off using the handle. No tubing to disconnect, prevents leaking and saves service time.

4+5. **Simplified Filter Change**
   The fluid filter is in an inverted position to minimize lubricant loss during filter changes. Plus, easy access to the fluid sampling valve.

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**10-year Diamond Warranty**

Confirming our rugged design and commitment to customer satisfaction, all new Sullair S-energy® stationary air compressors plus select other models (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 main motor, fan motor, VSD, air/fluid receiver, oil cooler and aftercooler
Sullair compressors with VSD provide:
- Excellent energy savings
- Relief from potential peak demand charges
- Possible utility company rebate
- DC link choke with 3% line reactor included (model/voltage specific)
- Stable system pressure
- Consistent product quality
- Reduced system air leaks
- Reduced storage requirements
- Flexibility for future growth
- Low five-year life cycle cost

Your Compressed Air System Can Improve Your Bottom Line
In just ten years, the electrical power cost to operate a standard compressor can be more than six times greater than its purchase price.

Total Compressor Flexibility
Sullair VSD compressors provide the flexibility to vary both capacity and pressure. This flexibility makes it possible to “grow” your air system without adding more compressors.

Variable Speed Drive is the Superior Alternative
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.
Stable System Pressure Improves the Consistency of Your Process to Reduce Product Rejects
- Lowers air system leaks
- Reduces system storage requirements
- Provides increased energy savings to increase profits

Soft Start is Standard with Unlimited Starts and Stops
- No need for Wye Delta and other soft starters
- No need to control the number of hot or cold starts
- Unlimited starts and stops save electrical costs
- Avoids high electrical current at start-up

VSD Avoids Potential Peak Demand Charges
VSD compressors provide the highest power factor over the entire frequency range, often avoiding utility company penalties.
## TECHNICAL SPECIFICATIONS

### 50Hz Motor Frequency

<table>
<thead>
<tr>
<th>Model*</th>
<th>hp</th>
<th>kW</th>
<th>100 PSI acfm</th>
<th>7 bar m³/min</th>
<th>125 PSI acfm</th>
<th>9 bar m³/min</th>
<th>150 PSI acfm</th>
<th>10 bar m³/min</th>
<th>175 PSI acfm</th>
<th>12 bar m³/min</th>
<th>Weight lbs</th>
<th>Weight kg</th>
<th>Discharge Connect</th>
<th>dBA†</th>
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<tbody>
<tr>
<td>1800</td>
<td>25</td>
<td>18</td>
<td>109</td>
<td>3.09</td>
<td>101</td>
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<td>90</td>
<td>2.55</td>
<td>84</td>
<td>2.38</td>
<td>1420</td>
<td>644</td>
<td>1½ NPT</td>
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</tr>
<tr>
<td>1800V</td>
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<td>750</td>
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### Dimensions

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<th>Width</th>
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<tr>
<td>1800, 1800V, 2200, 2200V, 3000, 3000V</td>
<td>53.2 in</td>
<td>31.5 in</td>
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* Model Variations: V = Variable Speed Drive;
** Capacity per CAGI / PNEUROP PN2CPTC2 (Annex C to ISO 1217)
Moisture Drain Connection at 1/4” NPT
† dBA at 1 meter

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