

# TS Series— Rotary Screw Air Compressors 100-600 HP



## Sullair's Tandem Compressors Extend Bearing Life

SULLAIR TANDEM COMPRESSOR IS KEY COMPONENT.

Electronics manufacturer saves \$206,911 annually with new energy system.

A company-wide energy efficient System that has yi

BUSINESS — April, 1984

## Sullair takes "sting" out of energy costs

*Sullair compressors offer 2-year payback in energy savings*

March 1, 2001 — Sullair introduces its newly designed line of two-stage tandem rotary screw air compressors which offer a two-year payback in energy savings. The

**Energy efficiency and two-stage durability.**

*Sullair compressor cuts Hyde's energy costs in half*

## SULLAIR TANDEM TRIMS POWER COSTS \$20,000 A YEAR FOR TOOL MANUFACTURER

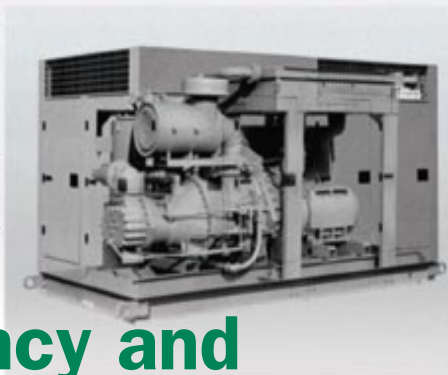
SOUTHBRIDGE, MA — Hyde Manufacturing Company sums up its mission as: "Day after day, in every cutting job, Hyde gives America the edge it needs." Helping to give Hyde the edge it needs in today's competitive marketplace is its state-of-the-art Sullair compressed air system. The highly efficient

**TS-20  
100-200 HP**

**TS-32  
200-350 HP**

**TS-32S  
400-600 HP**

## Sullair responds to energy-conscious market with new generation of tandem compressors.



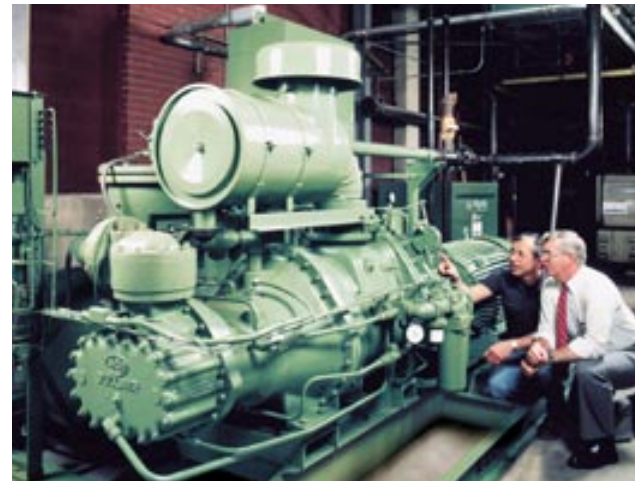
the TS-32. Among its features is the new Sullair Supervisor Controller™. This computer-based unit accurately monitors and controls the compressor. It provides

# 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...*

Since their introduction in 1984, the Sullair Two-Stage Tandems have been making headlines in trade journals, magazine articles and case histories -- each story highlighting the unmatched energy efficiency of these compressors.

# 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 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



## THE SULLAIR TS TWO-STAGE SINGLE-STAGE

### Why two-stage tandem compressors

Two-stage compressors have a power advantage over equivalent size single-stage compressors of 11 to 13 percent for two key reasons:

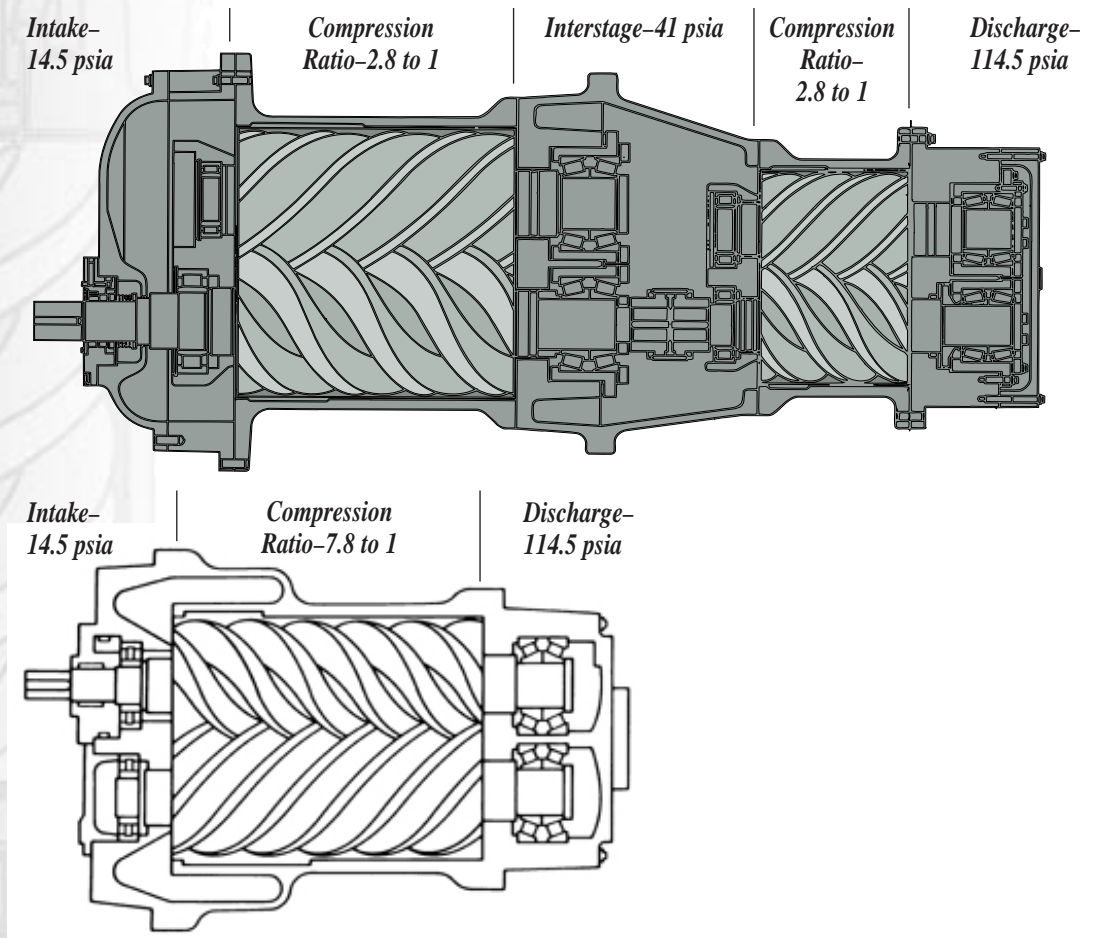
**1. Compression is divided between the two stages.**

In a single stage compressor operating at 100 psig at sea level, the compression ratio is 7.8 to 1 (in absolute terms). A two-stage

compressor operating at the same pressure will have a compression ratio of 2.8 to 1 in each stage (2.8 is the square root of 7.8) achieving the compressor's power savings.

**2. Internal leakage losses are reduced.**

Reduced pressure difference across each stage facilitates reduction in leakage losses.



# GE TANDEM COMPRESSOR VS. TWO-STAGE

## Sullair's superior end-to-end design

Sullair's TS two-stage tandem compressors use two sets of rotors arranged in a unique end-to-end design that achieve higher efficiencies than other two-stage rotor arrangements. This design is based on Sullair's proven technology used in its single-stage units, particularly the Sullair LS-25S and LS-32, which has set the standards for efficiency and reliability in single-stage compressors for 3 decades.

Introduced in 1984, the Series TS tandem compressors offer unmatched full-load

efficiency: often providing a two-year payback in energy savings compared with a single-stage compressor. With the tandem's spiral valve capacity control, further operating efficiencies can be achieved during part-load operation.

### Extended bearing life

By dividing the compression ratio across two stages, the two-stage tandem will significantly exceed the life of the average single-stage compressor.

### Interstage Cooling Process



*Incorporates interstage injection which atomizes the cool lubricating fluid into fine particles. This dynamic process rapidly absorbs the heat of compression from the first stage and precools the air entering the second stage prior to compression, dramatically reducing power costs.*

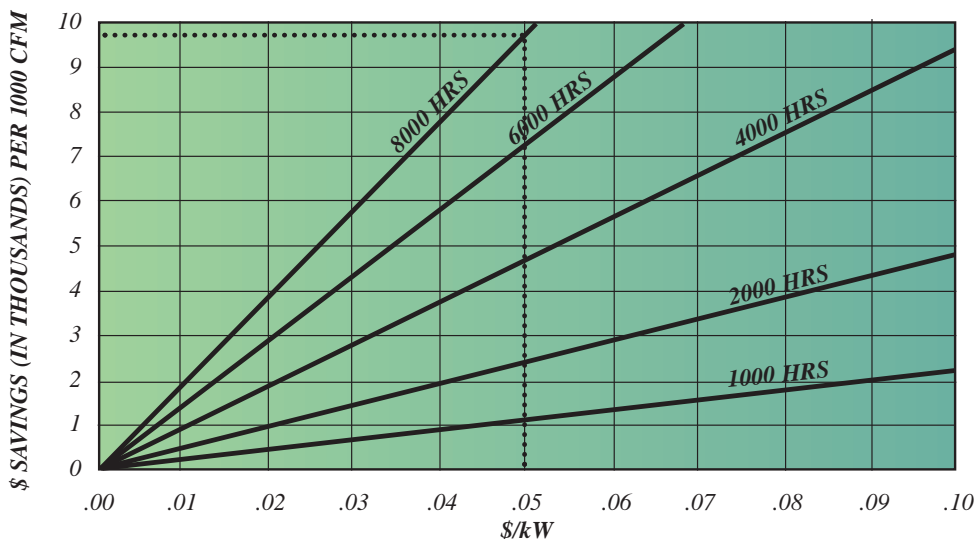
### Constant capacity

*With a pressure increase from 100 to 150 psig, the capacity in single-stage compressors decrease as much as three percent; however, the capacity of the two-stage tandem compressor remains virtually the same.*

### High pressure efficiency

*Designed for the most demanding applications, Sullair two-stage tandems actually gain efficiency, compared to single-stage compressors, as pressure increases. For instance, an increase of one psi in full load pressure will increase power consumption by 0.42 percent in the two-stage compressor; while the single-stage compressor will increase 0.5 percent. This represents a 16 percent advantage for the two-stage design as line pressure increases.*

POWER SAVINGS PER 1000 CFM



Power savings per 1000 cfm. Two-stage tandem vs single-stage rotary screw at full load—

At a power cost of \$.05/kW/hr, the fine dotted line shows that a tandem two-stage compressor will save \$9600 per 1000 cfm over a single-stage compressor operating for 8000 hours at 100 psig. For 1500 cfm, multiply by 1.5 for savings of \$14,400.

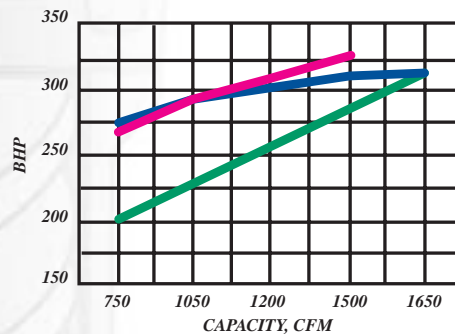
# MORE SAVINGS

## THE SULLAIR TS TWO-STAGE PART LOAD

### Facing up to power costs

It's a fact: the electric power cost to run an air compressor continuously for one year is often 2 to 3 times greater than the purchase price of the compressor itself.

That's why Sullair developed the TS Series two-stage tandem compressor. By combining two-stage compression and a spiral valve, the TS performs with unmatched full-load and part-load efficiency and often provides a two-year payback in energy savings compared to a single-stage compressor.



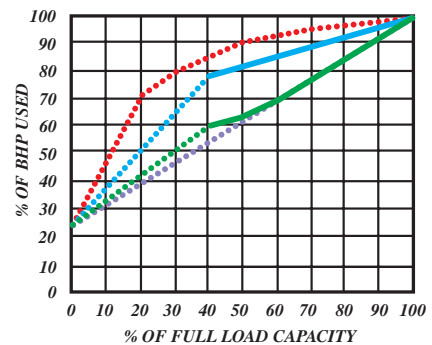
### Power Comparisons—300 hp

- Single-stage, 300 hp compressor with modulation control.
- Two-stage, 300 hp compressor with actual load/no load control.\*
- Sullair TS-32, 300 hp tandem two-stage compressor with standard spiral valve capacity control.

\* Based on 1 gallon per cfm air storage.

### Energy savings built in

Sullair two-stage tandem compressors have been proven to be 13 percent more efficient than single-stage screw compressors at full load operation. At 60 percent load, the Sullair two-stage tandems provide up to 30 percent savings over single-stage compressors.



### Part-load Capacity Control Comparisons

The curve shows how 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 \*
- Theoretical Load/No Load
- Suction Throttling
- Variable Displacement (Spiral Valve)

# GE TANDEM COMPRESSOR AND SAVINGS.

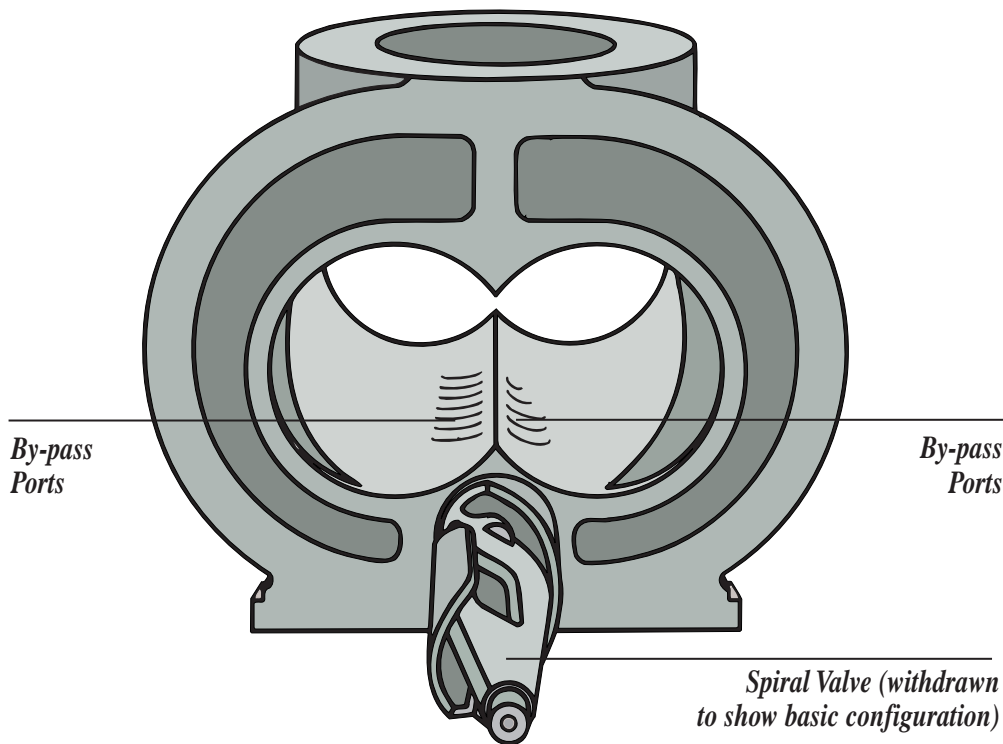
## Sullair's Spiral Valve cuts energy costs dramatically

Sullair's simple and reliable capacity control system consists of a proven spiral valve and an inlet butterfly valve. This system delivers greatly improved part-load performance, especially when compared with compressors having other capacity control systems.

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



*Fact: After the initial payback period, power savings continue to add up, day after day, year after year.*



# COMPRESSORS

## DURABILITY AND RELIABILITY THE SULLAIR TAND

### Rotary screw simplicity

Two asymmetrical lobe profile rotors in each compressor stage are the only major moving parts in the compressor air end.

#### *Proven dependability*

with more than 150,000 Sullair compressors in use around the world. Time-tested air ends have been running in compressors since 1965.

#### *Rotary screw reliability*

These TS models use a two-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 TS models, the air end is warranted for **5 years<sup>(1)</sup>**. On TS 24KT™ models, the air end is warranted for **10 years<sup>(2)</sup>**.

<sup>(1)</sup> Sullair's 5-year warranty also includes motor, air/fluid receiver and cooler(s).

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





# RELIABILITY ARE BUILT INTO SULLAIR COMPRESSOR.

## Continuous duty

The Sullair Series TS-20 and TS-32 have established themselves as highly efficient compressors in the 100 to 600 hp range. They offer the inherent reliability of Sullair's rotary screw design and provide continuous-duty performance. With spiral valve capacity control, additional energy savings can be achieved during part-load operation.

## Broad range of models

Series TS-20 and TS-32 compressors are available from 100 to 600 hp with capacities of 515 to 3100 acfm, and pressure ratings of 100 to 175 psig.

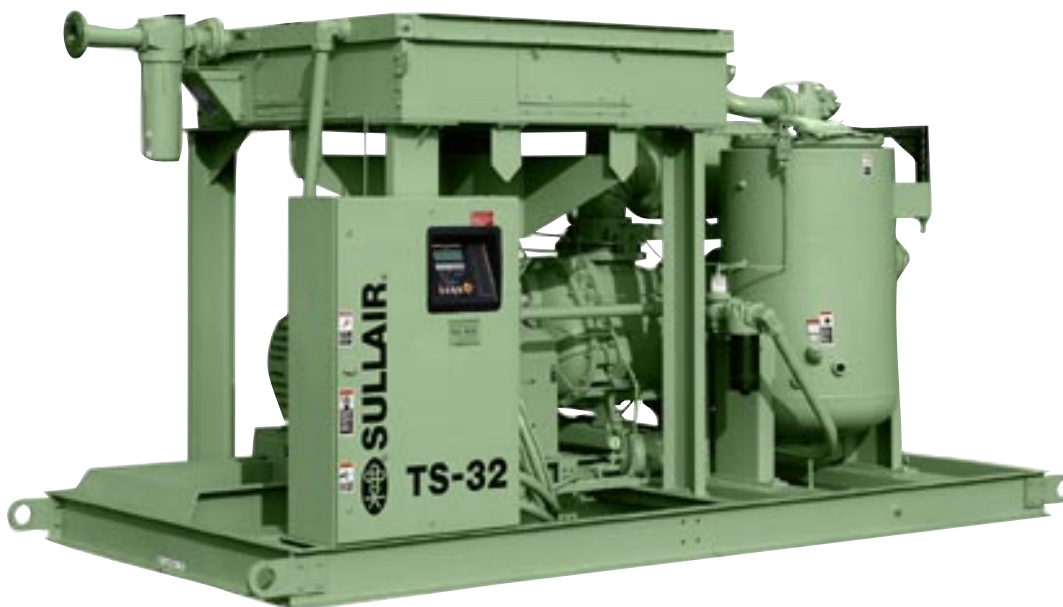
The TS Series offers more features and options than most compressors in this size range.



**COMPRESSOR  
HEALTH  
ASSURANCE**



**10-YEAR  
AIR END  
WARRANTY**



# SULLAIR TANDEM DESIGNED FOR EFFICI

## 1 *Two-stage compressor air end*

Reduces power consumption.  
Extends air end bearing life.

## *End-to-end design*

Reduces pressure drop through stages.  
Easier serviceability.

## 2 *Spiral valve capacity control*

Lowers part-load operating costs.  
Reduces cycling duty on package.  
Maintains consistent plant pressure.  
Simple control.  
Reduces bearing load.

## *Sullair Supervisor™*

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.

## 3 *Multi-stage air fluid separation*



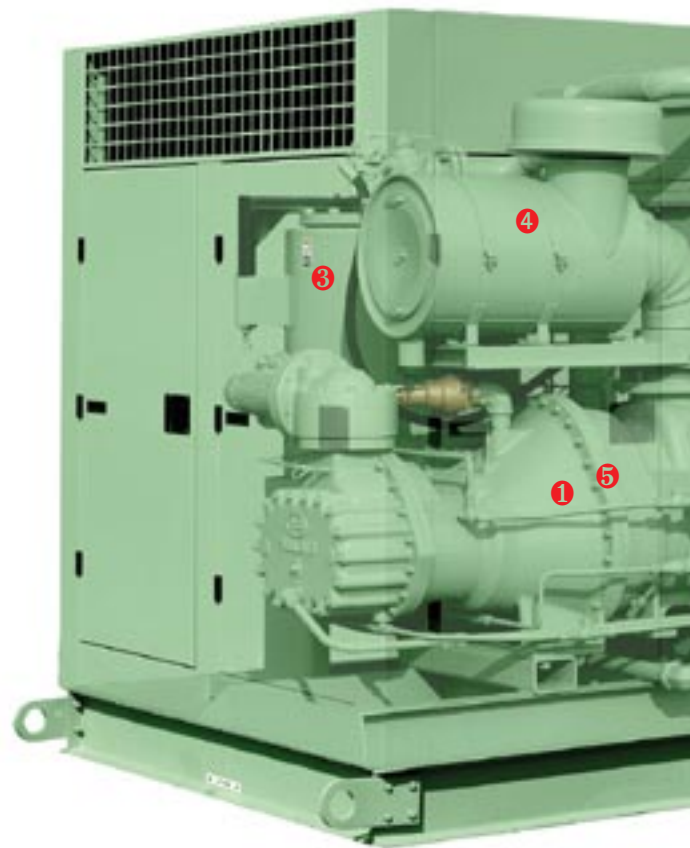
Dual nested Optimizer™ separator  
elements, reduce fluid carry-over to a  
maximum of 1 ppm.  
Reduced carryover lowers make-up  
fluid costs.  
Pleated Optimizer elements lower initial  
pressure drop for greater efficiency and  
extend life of the elements.  
Easy to change with built-in lid lifting  
device

## 4 *Heavy-duty air filter*

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

## *Fiberglass fluid filter*

Composite glass media, coreless element  
provides better filtration, and ease of  
disposal.  
Up to 20% more efficient than  
conventional paper elements.  
Lengthens life of the compressor.



# M COMPRESSORS ENCY AND DURABILITY.

## 5 *Interstage Cooling Process*

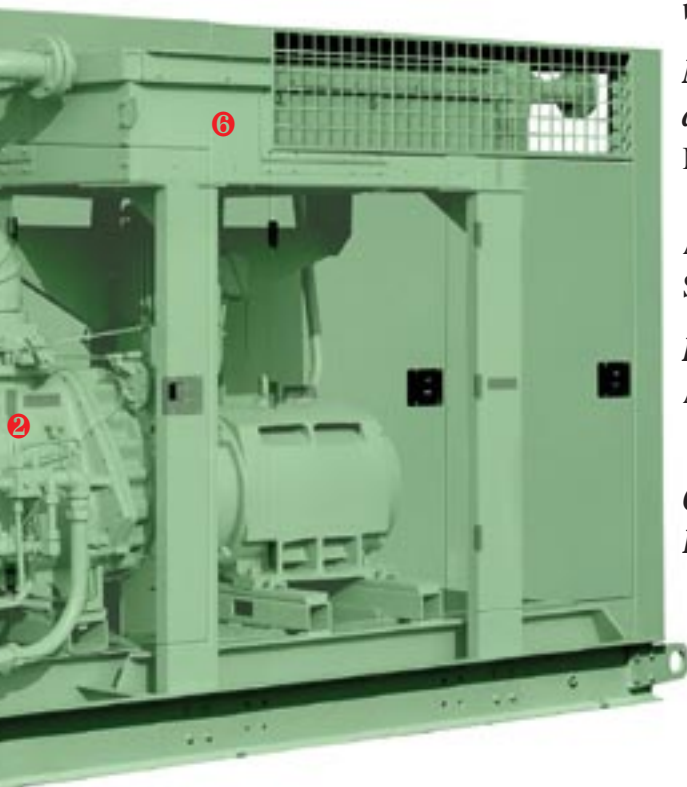
Absorbs heat of compression.  
Dramatically reduces power costs.

## 6 *Integral Air-Cooled Oil and Aftercoolers*

With large, hinged cooler clean-out ports (through 450 HP).

## *Versatile Control System*

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



## *Bearing Fluid Reservoirs*

Ensure that fluid is available at startup.  
Extend air end life.

## *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.*

## *Motor and compressor are direct coupled*

Motor coupled to air-end through non-lubricated, flexible coupling.  
Allows use of standard NEMA frame motor.  
Simplifies installation and start-up.

## *Easy Maintenance*

Access to all critical components even with a sound enclosure installed.

## *O-Ring Oil Connection, Discharge Flex, Flanges, Tube and Tube Fittings*



*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 is standard.*



*Extends bearing life.*



*Cools air from first stage of compression before it enters second stage.*

# FEATURES

## Sullair Supervisor™ 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 and RS 232 communications ports allow for several communication and remote monitoring/control options.

## 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.

# 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

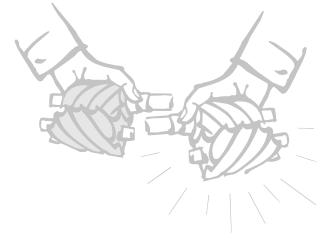
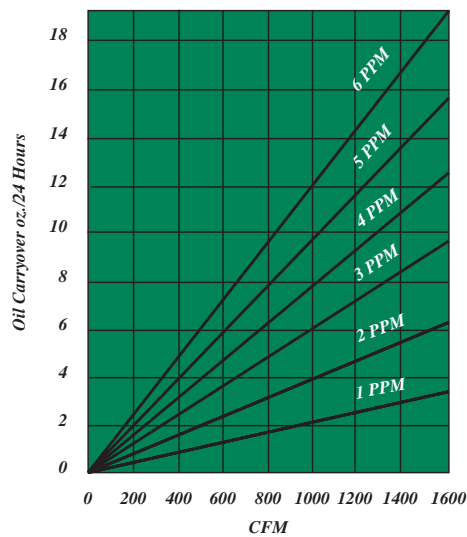
While others can claim a low carryover of 5 ppm, Sullair's TS compressors offer a carryover rate less than 1 ppm—the lowest in the industry. Sullair's MSS design uses a sump design, which allows use of oversized dual nested separators.

## *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*



## *Air End Exchange*

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



## *Remote Cooler*

The optional remote cooler package gives you the flexibility of locating the cooler away from the compressor.

# OPTIONS

## 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.



## Acoustical enclosures

### ***Acoustical enclosures minimize noise level.***

Optional sound-attenuating enclosures are attractive and functional. The enclosure's lift-out panels replace inconvenient swing-out doors to save valuable floor space and provides ease of maintenance.



***TS-20 model shown with optional clean air inlet.***



***TS-32 model shown with optional enclosure.***

## Other Options

### ***Starters***

Sullair offers a wide range of starters which include: wye-delta, solid state and other types of reduced voltage starters.

### ***Motors***

Sullair's motor policy also allows for the use of special motors for high voltage and special seals for mining applications.

### ***Cold Weather Packages***

Outdoor modifications for low ambient installations.

## 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*

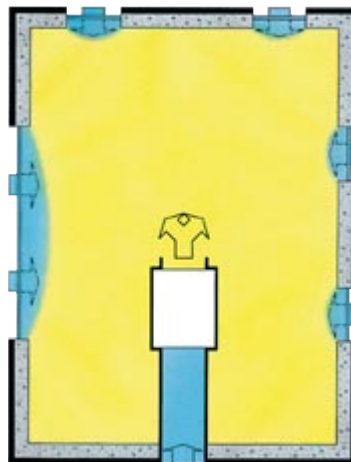
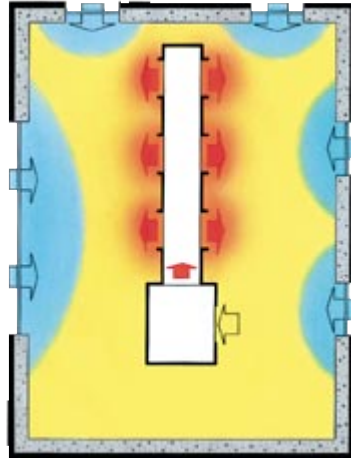
on the resulting saving. The EES can be installed for an initial investment equal to or less than nearly any heat recovery system.

### *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.



*In the past 25 years, Sul-lair 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.*

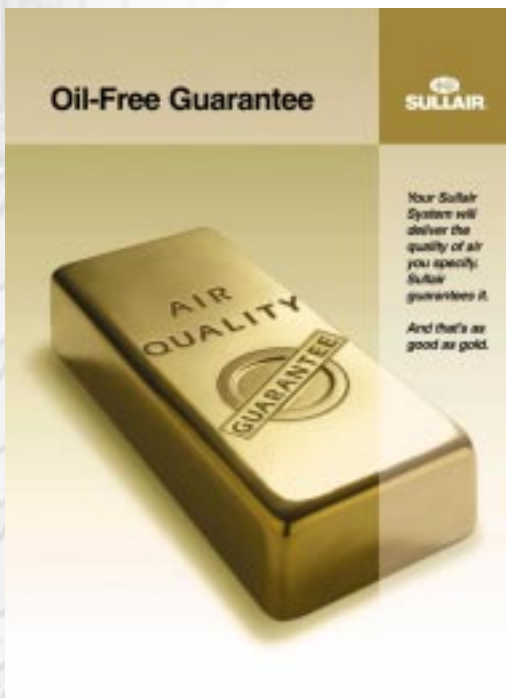
# AIR QUALITY

## Sullair Air Quality Guarantee. It's as good as gold.

Sullair assures that its System—compressor, dryer and filter—will meet specific performance levels throughout its operational life. We offer a one-year test/review period, backed by a purchase refund guarantee, to verify the performance of the Sullair System.

### *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.

### *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.

These Systems are not intended to remove carbon monoxide, methyl isocyanate or other noxious, corrosive or toxic gases, vapors or fumes. The system does not provide breathing air.



## Standard and optional equipment

	TS-20 100-200 HP	TS-32 200-350 HP	TS-32S 400-600 HP
Supervisor Controller™	●	●	●
Electro-Mechanical Controls	●	●	●
Direct Coupled	●	●	●
Highly Efficient Air/Fluid Separation—MSS	●	●	●
Fiberglass Fluid Filter	●	●	●
Spiral Valve	●	●	●
Heavy Duty Intake Filter	●	●	●
Sullube 8000 Hour Compressor Fluid	●	●	●
Optimizer Separator	●	●	●
Bearing Fluid Reservoir—BFR	●	●	●
Wye Delta Starter <sup>(1)</sup>	●	●	●
Solid State Starter	●	●	●
Full Voltage Starter	●	●	●
ODP Premium Efficient Motor <sup>(2)</sup>	●	●	●
TEFC Premium Efficient Motor	●	●	●
TEFC Premium Efficient Fan Motor (TEAO on TS-32)	●	●	●
Emerald 5-year Health Assurance <sup>(3)</sup>	●	●	●
24KT (10-Year Air End Warranty) <sup>(4)</sup>	●	●	●
Sound Attenuating Enclosure	●	●	●
Sullair's Versatile Control System—VCS	●	●	●
Cold Weather Package	●	●	●
Energy Efficiency System—EES	●	●	●
SCD Zero Air Loss Condensate Drain	●	●	●

● = Standard   ● = Option

<sup>(1)</sup> Standard on TS-32, 200-450 HP and optional on TS-32S, 500-600 HP.

<sup>(2)</sup> Standard on TS-32, 200-350 HP and optional on TS-32S, 400-600 HP.

<sup>(3)</sup> Sullair's 5-year warranty includes air end, motor, air/fluid receiver and cooler(s). "L" and "H" models only.

<sup>(4)</sup> Sullair's 24KT warranty includes 10-years on the air end, 5-years on the motor, air/fluid receiver and cooler(s). "L" and "H" models only.



# 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 provide 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 for TS-20 50Hz

	100L	100H	100HH	125L	125H	125HH	125XH	150L	150H	150HH	150XH	200L	200H	200HH	200XH	
<b>Compressor Performance</b>																
Capacity (m <sup>3</sup> /min)	15.7	14.2	12.3	19.3	16.8	15.7	14.2	22.3	20.4	18.3	16.7	28.0	26.3	24.0	22.0	
Full Load Pressure (bar)	6.9	8.6	10.3	6.9	8.6	10.3	12.1	6.9	8.6	10.3	12.1	6.9	8.6	10.3	12.1	
Motor (kW)	74	74	74	93	93	93	93	112	112	112	112	149	149	149	149	
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>																
Length (mm)	3050	3050	3050	3050	3050	3050	3050	3050	3050	3050	3050	3050	3050	3050	3050	
Width (mm)	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	
Height (mm)	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	1727	
Weight (kg)	3675	3675	3675	3720	3720	3720	3720	3810	3810	3810	3810	3900	3900	3900	3900	

## Specifications for TS-20KT 50Hz

	100L	100H	125L	125H	150L	150H	200L	200H
<b>Compressor Performance</b>								
Capacity (m <sup>3</sup> /min)	15.7	14.2	19.3	16.8	22.3	20.4	28.0	26.3
Full Load Pressure (bar)	6.9	8.6	6.9	8.6	6.9	8.6	6.9	8.6
Motor (kW)	74	74	93	93	112	112	149	149
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>								
Length (mm)	3050	3050	3050	3050	3050	3050	3050	3050
Width (mm)	1830	1830	1830	1830	1830	1830	1830	1830
Height (mm)	1727	1727	1727	1727	1727	1727	1727	1727
Weight (kg)	3675	3675	3720	3720	3810	3810	3900	3900

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## Specifications for TS-32 50Hz

	200L	250L	250H	250HH	250XH	300L	300H	300HH	300XH	350L	350H	350HH	350XH
<b>Compressor Performance</b>													
Capacity (m <sup>3</sup> /min)	30.9	38.4	33.5	30.9	28.9	47.0	40.5	36.8	33.5	52.3	47.0	44.1	40.5
Full Load Pressure (bar)	6.9	6.9	8.6	10.3	12.1	6.9	8.6	10.3	12.1	6.9	8.6	10.3	12.1
Motor (kW)	149	186	186	186	18.6	224	224	224	224	261	261	261	261
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>													
Length (mm)	3912	3912	3912	3912	3912	3912	3912	3912	3912	3912	3912	3912	3912
Width (mm)	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981
Height (mm)	2184	2184	2184	2184	2184	2184	2184	2184	2184	2184	2184	2184	2184
Weight (kg)	5660	5770	5770	5770	5770	6020	6020	6020	6020	6178	6178	6178	6178

## Specifications for TS-32KT 50Hz

	200L	250L	250H	300L	300H	350L	350H
<b>Compressor Performance</b>							
Capacity (m <sup>3</sup> /min)	30.9	38.4	33.5	47.0	40.5	52.3	47.0
Full Load Pressure (bar)	6.9	6.9	8.6	6.9	8.6	6.9	8.6
Motor (kW)	149	186	186	224	224	261	261
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>							
Length (mm)	3912	3912	3912	3912	3912	3912	3912
Width (mm)	1981	1981	1981	1981	1981	1981	1981
Height (mm)	2184	2184	2184	2184	2184	2184	2184
Weight (kg)	5660	5770	5770	6020	6020	6178	6078

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## Specifications for TS-32S 50Hz

	400L	400H	450L	450H	450HH	500L	500H	500HH	600L	600HH
<b>Compressor Performance</b>										
Capacity (m <sup>3</sup> /min)	59.5	55.0	63.4	59.5	55.0	70.2	63.4	59.5	2220.0	3000
Full Load Pressure (bar)	6.9	8.6	6.9	8.6	10.3	6.9	8.6	10.3	150.0	100
Motor (kW)	298	298	336	336	336	373	373	373	500	600
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>										
Length (mm)	4445	4445	4445	4445	4445	4445	4445	4445	4445	4445
Width (mm)	2134	2134	2134	2134	2134	2134	2134	2134	2134	2134
Height (mm)	2362	2362	2362	2362	2362	2362	2362	2362	2362	2362
Weight (kg)	7228	7228	7228	7228	7228	7455	7455	7455	7455	7455

## Specifications for TS-32SKT 50Hz

	400L	400H	450L	450H	500L	500H	600L
<b>Compressor Performance</b>							
Capacity (m <sup>3</sup> /min)	59.5	55.0	63.4	59.5	70.2	63.4	2220.0
Full Load Pressure (bar)	6.9	8.6	6.9	8.6	6.9	8.6	150.0
Motor (kW)	298	298	336	336	373	373	500
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>							
Length (mm)	4445	4445	4445	4445	4445	4445	4445
Width (mm)	2134	2134	2134	2134	2134	2134	2134
Height (mm)	2362	2362	2362	2362	2362	2362	2362
Weight (kg)	7228	7228	7228	7228	7455	7455	7455

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## Specifications for TS-20 60Hz

	100L	100H	125L	125H	125HH	125XH	150L	150H	150HH	150XH	200L	200H	200HH	200XH
<b>Compressor Performance</b>														
Capacity (acfm)	575	500	680	615	575	500	826	763	680	616	1035	960	826	776
Full Load Pressure (psig)	100	125	100	125	150	175	100	125	150	175	100	125	150	175
Motor (hp)	100	100	125	125	125	125	150	150	150	150	200	200	200	200
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>														
Length (in)	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Width (in)	72	72	72	72	72	72	72	72	72	72	72	72	72	72
Height (in)	68	68	68	68	68	68	68	68	68	68	68	68	68	68
Weight (lb)	8100	8100	8200	8200	8200	8400	8400	8400	8400	8400	8600	8600	8600	8600

## Specifications for TS-20KT 60Hz

	100L	100H	125L	125H	150L	150H	200L	200H
<b>Compressor Performance</b>								
Capacity (acfm)	575	500	680	615	826	763	1035	960
Full Load Pressure (psig)	100	125	100	125	100	125	100	125
Motor (hp)	100	100	125	125	150	150	200	200
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>								
Length (in)	120	120	120	120	120	120	120	120
Width (in)	72	72	72	72	72	72	72	72
Height (in)	68	68	68	68	68	68	68	68
Weight (lb)	8100	8100	8200	8200	8400	8400	8600	8600

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## Specifications for TS-32 60Hz

	200L	250L	250H	250HH	300L	300H	300HH	300XH	350L	350H	350HH	350XH	350ZH
<b>Compressor Performance</b>													
Capacity (acfm)	1105	1335	1240	1100	1640	1440	1330	1240	1875	1733	1575	1440	1330
Full Load Pressure (psig)	100	100	125	150	100	125	150	175	100	125	150	175	200
Motor (hp)	200	250	250	250	300	300	300	300	350	350	350	350	350
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>													
Length (in)	154	154	154	154	154	154	154	154	154	154	154	154	154
Width (in)	78	78	78	78	78	78	78	78	78	78	78	78	78
Height (in)	86	86	86	86	86	86	86	86	86	86	86	86	86
Weight (lb)	12480	12720	12720	12720	13270	13270	13270	13270	13620	13620	13620	13620	13620

## Specifications for TS-32KT 60Hz

	200L	250L	250H	300L	300H	350L	350H
<b>Compressor Performance</b>							
Capacity (acfm)	1105	1335	1240	1640	1440	1875	1733
Full Load Pressure (psig)	100	100	125	100	125	100	125
Motor (hp)	200	250	250	300	300	350	350
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>							
Length (in)	154	154	154	154	154	154	154
Width (in)	78	78	78	78	78	78	78
Height (in)	86	86	86	86	86	86	86
Weight (lb)	12480	12720	12720	13270	13270	13620	13620

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## Specifications for TS-32S 60Hz

	400L	400H	400HH	450L	450H	450HH	500L	500H	500HH	600L	600H	600HH
<b>Compressor Performance</b>												
Capacity (acfm)	2200	1943	1681	2350	2135	1943	2530	2350	2220	3000	2700	2530
Full Load Pressure (psig)	100	125	150	100	125	150	100	125	150	100	125	150
Motor (hp)	400	400	400	450	450	450	500	500	500	600	600	600
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>												
Length (in)	175	175	175	175	175	175	175	175	175	175	175	175
Width (in)	84	84	84	84	84	84	84	84	84	84	84	84
Height (in)	93	93	93	93	93	93	93	93	93	93	93	93
Weight (lb)	15900	15900	15900	15900	15900	15900	16400	16400	16400	16400	16400	16400

## Specifications for TS-32SKT 60Hz

	400L	400H	450L	450H	500L	500H	600L	600H
<b>Compressor Performance</b>								
Capacity (acfm)	2200	1943	2350	2135	2530	2350	3000	2700
Full Load Pressure (psig)	100	125	100	125	100	125	100	125
Motor (hp)	400	400	450	450	500	500	600	600
<b>Dimensions and Weight, Enclosure, Air-Cooled</b>								
Length (in)	175	175	175	175	175	175	175	175
Width (in)	84	84	84	84	84	84	84	84
Height (in)	93	93	93	93	93	93	93	93
Weight (lb)	15900	15900	15900	15900	16400	16400	16400	16400

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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.



Sullair is pleased to be ISO 9001 certified by Lloyd's Register Quality Company



[www.sullair.com](http://www.sullair.com)

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