

Stationary Product Overview



Commercial HQ Chicago,Illinois

Sullair Global Facilities



US Manufacturing Michigan City, Indiana



Sullair /Champion Compressor Hallam, Australia



Shenzhen Sullair Asia Chiwan,China + Sullair Suzhou



Sullair Product History

1960's 1970's Air-end **Rotary Screw** Manufacturing Industrial Begins Compressor Introduced 24KT[™] Introduced -

1980's Sullube™ Introduced 2-Stage Tandems

Rotary Screw Vacuum Systems

> **Spiral Value** Technology



Encapsulated Compressors

1990's Sullair Europe Established



Sullair Asia Joint Venture



Flow Controllers



2000's to current

S-energy launch & redesign 30-75 kW



Shoptek 4-110 kW



Refrigerated & **Desiccant Dryers**



a division of Accudyne Industries

Accudyne Industries Companies History





Terminology

- Bar = pressure (also referred as PSIG in USA)
- dBA = decibel, sound level
- kW (also referred as Hp)



Sullair Stationary Air Power Systems

With our expertise in analyzing, managing and controlling compressed air since 1965, Sullair offers total compressed air solutions that help you reduce energy costs and improve productivity.

What does Sullair offer?

- Plant Air Audit Equipment
- Energy Efficient Products
- Compressed Air System Controls
- Monitoring Equipment to manage air systems
- Air distribution products
- After-purchase Support
- Full complement of OEM parts and lubricants

Stationary Compressor Profile



ES6 4-7.5 kW



C.E. ShopTek 4-110 kW





S-energy 11-75 kW





Large Electric Single Stage 90-260 kW Two Stage 75-450 kW











Air Treatment



Oil Free Dry Screw 75-150 kW



Vacuum 4-15 kW



ShopTek 4 - 110 kW





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The Opportunity

- A great Better/Best Strategy
- Largest market opportunity
- Gateway to new markets
- New customer contacts
- Expanded Parts and Service business

ShopTek Target Markets:

- Automotive
 - Repair shops/body shops
 - Paint shops
 - Auto dealers
- Laundry/Dry Cleaning
- Woodworking/Cabinetry
- Tool & Dye
- Laboratories
- Screen Printing









ShopTek Nomenclature

Example: ST1510

- ST stands for ShopTek
- 15 is the Kw rating
- 10 is the pressure rating



Product Features



- C.E. TEFC (IP55) motor is standard
- Factory filled with 10,000 hour Genuine Sullube
- Fluid Carryover is < 2 PPM
- Environmental protection pan
- Reliable belt drive 4-15 kW
- Direct Drive 18.5-110 kW
- Variable Speed Drive (18.5-75 kW)
- Variable Speed Drive & Spiral Valve (90-110 kW)
- Continuous Duty
- Simple Installation
- Quiet Operation

Product Features 4 – 15 kW

- Conforms to C.E. norms
- Available in 8 Bar (*Conversion kit available for distributor to convert to 10 Bar*)
- Quiet & Compact with simple design
- Integrated full-voltage starter
- Value Priced (Entry-Level)
- Belt-Driven
- Easy to Maintain
- All-In-One Maintenance Kit
- MCC Controller
- After cooler (11-15 kW)



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ShopTek 4 – 15 kW

Separator

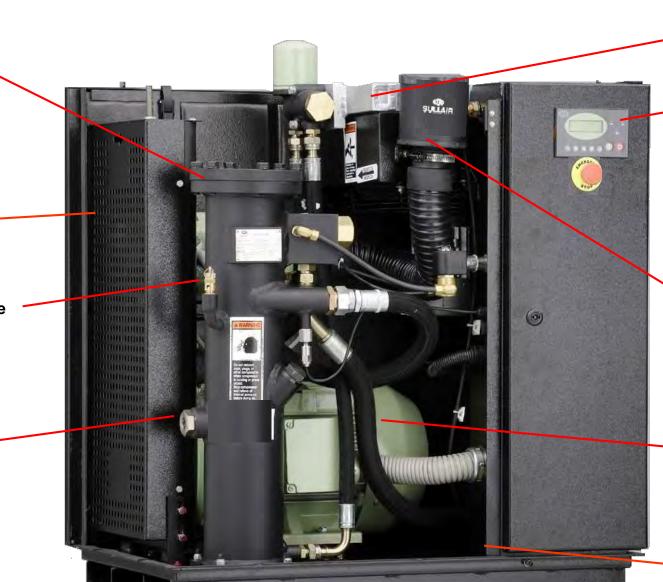
- · C.E. certified receiver
- No tubing to disconnect
- "O" Ring seal prevents
 leaking
- Reduces service time
- Fluid sight glass

V-Belt System

- Protective belt guard
- Easily adjusted and aligned

Safety Relief Valve

Fluid Level Sight Glass



Fluid and Air Cooler(s)

- East access for maintenance
- Air cooled
- Aftercooler on 11 & 15 kW models

Control Panel

- Starter:
 - 4-7 kW: Full Voltage
 - 11-15 kW: Y-Delta
- Easy access to controls
- Electronic Controller
 - Matches output to demand
 - Clear and concise graphic display
 - Monitors status of key operating parameters

Heavy Duty Air Filter

- Protects key components from premature failure
- Extends separator, fluid filter and fluid life
- Easy access for maintenance

Environmental Protection Pan

- Fully-sealed
- Captures spills

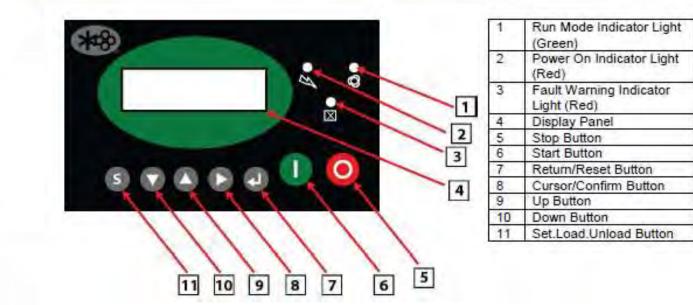
IP55 Motor • IE3



MCC Controller

Monitors:

- Main motor electric current
- Temperature
- Pressure
- Run time
- Operating status using LCD and indicator light





Belt Tensioning Device

- Part Number 02250176-016
- Offered as Service Tool
- Pricing available on SULLINET



Product Features 18.5 – 37 kW

- Conforms to C.E. norms
- Available in 8 & 10 Bar
- Wye-Delta Starter
- Optional Variable Speed Drive
- Quiet & Compact with simple design
- Value Priced (Entry-Level)
- Direct Drive
- Form, Fit, Finish
- Easy to Maintain
- All-In-One Maintenance Kit
- EC 2000 Controller (Fixed Speed)
- Deluxe Micro processor Controller (VSD)



ShopTek 18.5 – 37 kW

Fluid and Air Cooler(s)

- East access for maintenance
- Air cooled

Control Panel

- Y-Delta starter (fixed speed)
- Easy access to controls
- Electronic Controller
 - Matches output to demand
 - Clear and concise graphic display
 - Monitors status of key operating parameters

Variable Speed Drive

Optional VSD available provides flexibility to vary both capacity and pressure to better match compressed air demand and supply. Sullair Compressors with VSD provide:

- Stable system pressure
- Flexibility for future growth
- Excellent energy savings

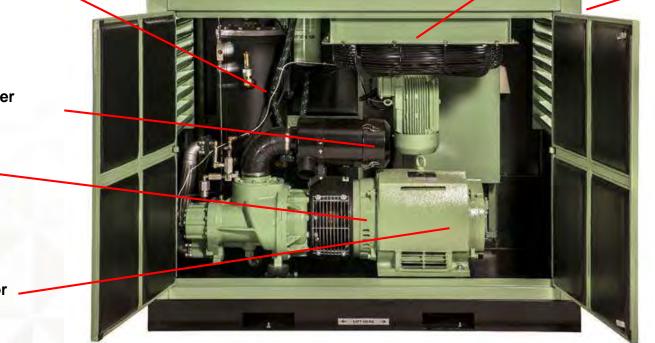
Separator

- C.E. certified receiver
- No tubing to disconnect
- "O" Ring seal prevents leaking
- Reduces service time
- Fluid sight glass

Heavy Duty Inlet Filter

Direct-coupled Gear Drive

IP55 Motor -



Product Features 45 – 110 kW

- Conforms to C.E. norms
- Available in 8 & 10 Bar
- Available in Fixed Speed & Variable Speed Drive (45-75kW)
- Available in Fixed Speed, Spiral Valve or Variable Speed Drive & Spiral Valve (90-110kW)
- Quiet & Compact with simple design
- Value Priced (Entry-Level)
- Direct Drive
- Easy to Maintain
- All-In-One Maintenance Kit





ShopTek 45 – 110 kW

Fluid and Air Cooler(s)

- East access for maintenance
- Air cooled

Control Panel

- Y-Delta starter (fixed speed)
- Easy access to controls
- **Electronic Controller**
 - Matches output to demand
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Variable Speed Drive

Optional VSD available provides flexibility to vary both capacity and pressure to better match compressed air demand and supply. Sullair Compressors with VSD provide:

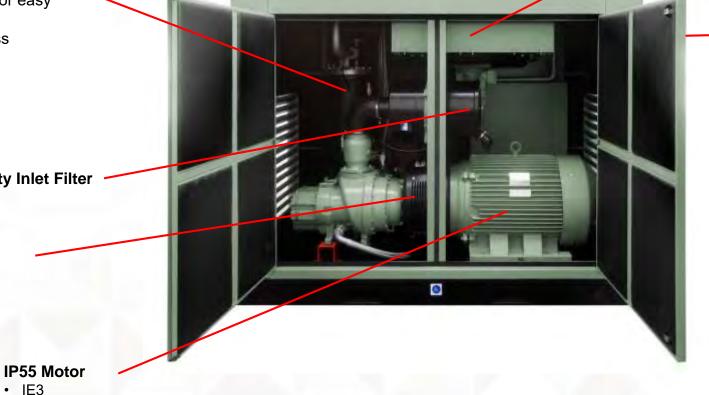
- · Stable system pressure
- Flexibility for future growth
- Excellent energy savings

Separator

- C.E. certified receiver
- High quality/low carryover •
- Access panel for easy removal
- Fluid sight glass

Heavy Duty Inlet Filter

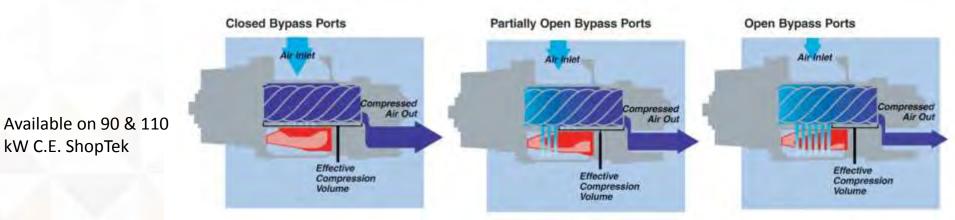
Direct-coupled Gear Drive





Spiral Valve 90 – 110 kW

- The 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.
- Part load capacity and efficiency can produce energy savings up to 17%.
- Variable Displacement Air End maintains system pressure to match plant air demand. Lower power consumption is achieved at the top end of capacity.
- Spiral valve compressors react quickly to plant demand change; provides most efficient part load control system to 50% output. Simple, cost effective and energy efficient controls alternative.

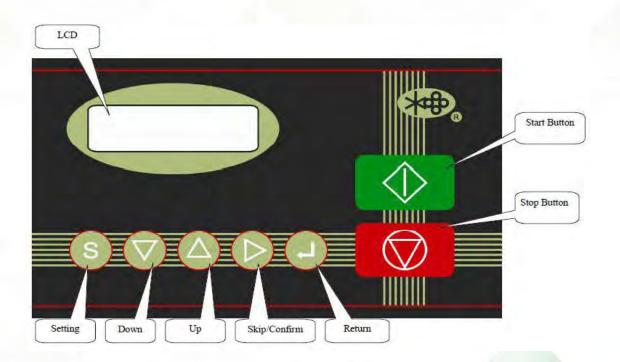


Controller 18.5 - 110 kW (Fixed Speed) EC 2000

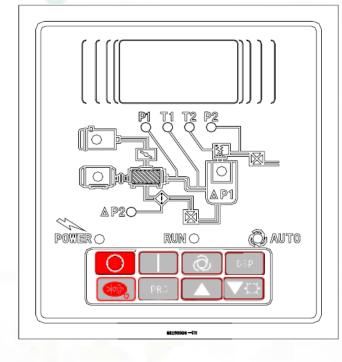
- Simple touchpad control
 - Easy adjustments

SULLAIR.

- Password protected
- Manual and automatic operation
- Sequencing of up to 16 machines (ShopTek Only)
- Clear and concise graphic display
- Real time status and updates
- Safeties and shutdowns protect the compressor



Controller 18.5-110 kW (VSD) Deluxe Micro Processor



STOP - Manually shut down the machine and eliminate the alarming
 MANUAL - Start up the machine at the operation mode and select manual operation Mode
 AUTO - Start up the machine in operation mode and select automatic operation mode
 DISPLAY- Display the pressure, temperature and other operation parameters
 PROGRAM - Press the key in operation mode to enter into the site parameter setup
 UP ARROW - Used to change the displayed parameters in Status Display Mode
 DOWN ARROW - Used to change the displayed parameters in Status Display Mode
 Sullair Mark key- to complete specific operations in combination with other keys.
 Press this key to check back in parameter setup mode.

- Graphical LED warnings on Display
- Amps & Volts monitor
- Real Time clock
- Four line Status display

- Sequence capable
- Dual RS 485 Ports
- Two Analogue output ports
- Four LCD background colours
- Dew point warning

Literature



- Electronic copies available in multiple languages (4-37kW)
 - Currently English, French, Spanish, Polish
- 45-110kW in the process of signing off and translating in above languages



Serviceability

- Easy to maintain layout with high efficiency air filter, fluid filter and fluid separator
- Removable door (4-15kW)
- Service access on 2 sides (18.5kW above)
- Fluid Filter and Air Filter differential indicators for easy identification of contamination



Emerald Warranty on ShopTek Effective ?

- 5 Years coverage on major components on units up to & including 10 Bar discharge. Conditional on the use of Sullair fluids and parts, and maintaining the machine in accordance with Sullair's recommended intervals & requirements.
- Covers Air End (except shaft seal, inlet valve, piping tubing & spiral valve actuator, oil pump & discharge check valve), Main Motor, Coolers, Controller and Air/Oil Separator Tank. On VSD models, the VSD is included.
- Changed to better differentiate the ShopTek from S-energy line

Maintenance Schedule

CUSTOMER by SULLAIR.

ShopTek Maintenance

ST4,5 & 7

	RECOMMANDED SPARE PARTS	COMPLETE PART REFERENCE	Kit Part N°.	КІТ	Qty	Between 50h and 100h	1000 h (if indicated)	2000 h	4000 h	6000 h	8000 h or 1 Year	10000 h 1 Year	12000 h	14000 h	16000 h or 2 Years
SPARE PARTS		Replace either hourly or on time duration, whichever is soonest													
x = Replace or Service	Fluid Sullube (Pack 4 x 5 liters) *	02250180-260	02250181-422	Α	0.25							x			x
	Fluid filter element		88290014-484	Α	1	x	x	x	x	x	x	x	x	x	x
	Air filter element		88290014-486	Α	1		x	x	x	x	x	x	x	x	x
	Separator element		88290015-049	Α	1				x		x		x		x
	Return line fllter (strainer)		88290015-890		1										x
	Kit rebuild, inlet valve		02250176-967		1										x
	Kit minimum pressure valve	02250046-338	02250050-612		1										x
	Kit Repair, Thermal valve, 85°C, < 12 bar	02250078-204	02250144-326		1										x
	Belt 400,500		88290016-410	В	2						x				x
	Belt 700		88290015-901	С	2						x				x
	KIT,MAINTENANCE ST 400,500		02250175-746	A+B											
	KIT, MAINTENANCE ST 700		02250175-747	A+C											
RECOMMENDED PARTS FOR STOCK	;														
	Solenoid valve	88290015-219	88290016-030												
	Kit, hose replacement		02250181-735												
	Kit, shaft seal replacement		02250179-875												
	Kit, wear sleeve replacement		02250181-451												
	Separator tank safety valve		68562951												
	Cooler comb,air fluid		88290014-903												
	Controller		88290018-640												

*machine capacity 4 L

Check Operation & Maintenance Manual for the correct service procedure.

Please quote compressor model, serial number and B.O.M number when ordering spare parts.

4L



Why Choose a Sullair ShopTek?

- ShopTek air compressors redefine industry standards for continuous duty compressors in the 4-110kW range.
- Compressed air is the 4th most demanded utility behind electricityinstrumental to keeping our customers in production. Products available in short lead times to reduce downtime.
- Designed with a small footprint and built to provide exceptional reliability and low maintenance
- High quality, lower cost product backed by our 5 year Emerald Warranty



Mini Test

- What are the pressures available in the C.E. ShopTek line?
 - 8 Bar for 4-15kW with conversion kit for distributor to convert to 10 Bar
 - 8 & 10 Bar for 18.5kW and above
- Name 3 of the typical applications for the ShopTek
 - Automotive (Repair shops/body shops, Paint shops, Auto dealers) Laundry/Dry Cleaning, Woodworking/Cabinetry, Tool & Dye, Laboratories, Screen Printing
- What are the benefits of a spiral valve?
 - Reduce energy consumption by 17%



ES-6 4 – 7 kW





ES Nomenclature

- Example: ES6-10H AC
 - ES stands for encapsulated screw
 - Encapsulated=combines motor, compressor unit, cooling unit and air-fluid separator into one fixed component.
 - 6 is for millimeter size of rotor (63mm)
 - 10 is the HP rating
 - H is the pressure rating (125 PSIG / 8 Bar)
 - AC stands for air cooled (not available with water cooled)



ES6 Product Highlights

- Ultra compact design- easy to install and service
- Standard Air End made in Michigan City, USA
- Low noise rating- 68 dBA with enclosure option
- Easy to read temperature and pressure gauges
- Modulation Control System
- < than 2 PPM Fluid Carryover
- Standard full voltage starter
- NEMA 1 Standard
- Heavy-duty air filter
- Sullube fill- standard
- Spin on fiberglass fluid filter





ES6 Options

- Sound enclosure
- 80 or 120 receiver tank
- RN dryer
- FXF filter
- Wye-delta starter



Sound enclosure option



Receiver tank with dryer options



ES6 Models

Model	kW	Bar	Hz
ES6	3.7	7, 8.6, 12	50
ES6	4.1	7, 10, 12	50
ES6	5.5	7, 8.6, 10 ,12	50
ES6	7.5	7, 8.6, 10 ,12	50





11-18.5 kW





Typical Applications

- Construction Trade
- Rendering Facilities
- Welding
- Mining
- Chemicals Industry
- Energy Industry
- Health Systems
- Paper-Processing
- Wood Processing
- Steel Mills and Foundries
- Plastics Industry
- Textiles Industry





S-energy_® Nomenclature

1100e-1800e

Example: 1109e

- -11 is the kW rating
- -09 is the pressure rating in bar
- -e is for encapsulated*

Encapsulation= compressor unit inside the bell housing. There is no separator tank, the separator element is also inside the bell housing



Product Highlights

- Available pressures: 7, 10 & 12 Bar
- Ultra compact design
 - Easy to install
 - Easy to service
- Noise rating as low as 66 dBA
- User friendly controls
 - WS Controller
 - Modulation control system
 - Simple operation





WS Controller

- Clear and concise graphic display
- Easily access critical operations information, including status, temperature, pressure and load/unload set points
- Use a Windows PC to remotely monitor, upgrade the software and change parameters
- Built-in sequencing of up to 16 machines. This includes WS controller and Supervisor Controller for Large Electric



Product Features



- Slow speed- 1800 rpm
- Cast iron construction
- NEMA TEFC design
- Direct coupled/flanged mounted
- Premium efficient motor
- Diamond Warranty



Product Options

- Nema 4 Starter (Wye-Delta)
- Cold weather package
- Weather hood
- Total package filtration
- Zero loss drains
- Other motors and starters
- Phase monitor







18.5 - 30 kW







Example: 2209V -22 is the kW rating -09 is the pressure rating in bar

-V is for Variable Speed Drive



Product Highlights and Features

- Available Pressures: 7,9,10 & 12 Bar
- Ultra compact design
 - Easy to install
 - Easy to service
- Noise ratings as low 66 dBA
- User Friendly Controls
 - WS Controller
 - Modulation Control System
 - Simple Operation
- Variable Speed Drive Available

- Sullair's Industry leading Airend with low restriction inlet valve
- Optimized fluid system that reduces fluid temperatures
- Premium efficient motors
- Low pressure drop air fluid separation system
- High efficiency fan





Product Options

- Nema 4 Starter (Wye-Delta)
- Cold Weather Package
- Weather hood*
- Storage Tanks
- Zero Loss Drain Valve
- Remote Air Intake
- Phase Monitor Relay





Benefits of S-energy to end users

- S-energy compressors can significantly reduce operating and energy costs over the compressor life cycle
- Proven air end with lowrestriction inlet valve
- Premium efficient drive motor design
- Low pressure-drop air-fluid separation system to prevent energy loss

- Sullair delivers cost savings for the life of the product-how?
- Soft start standard- unlimited starts and stops
- 35% Energy Savings in the first 5 years
- Improved air filtration translates into:
 - Extended separator life
 - Improved filter life
 - Less lubricant contamination

Feature	ShopTek	S-energy S-Energy	
Feature	ShopTek		
Drive	Belt/Gear	Gear	
Sullube	Standard	Standard	
Diamond Warranty	N/A	Standard	
Low Sound Enclosure	75-80 dBa	66-71 dBa	
Motor	Standard – Hebei (TEFC)) Standard – WEG (ODP)	
Starter	Wye-Delta or VSD	Option	
Heavy Duty Air Filter	1000 hours	2000 hours	
Sullair Optimizer Air-Fluid Separator	N/A	Standard	
Other Voltages	N/A	Option	
Air cooled	Standard	Standard	
Microprocessor Controller	MCC/EC/SCN	WS	
Electrical Rating	IP 54	Nema 12	
Modulation	Standard	Standard	
VSD	Option	Option	
Sequencing	N/A	Standard	
Oil Carryover	<2ppm	<1.5ppm	
Cold Weather Package	N/A	Option	
Package Air Inlet Filter	N/A	Option	
Phase Monitor Relay	N/A	Option	
Remote Air Intake	N/A	Option	
Zero Loss Drains	N/A	Option	
Weather hood	N/A	Option	



ShopTek 11-30 kW vs. S-energy?

• ShopTek:

- Standard package for customers needing compressed air
- No "bells and whistles"
- Reliable product
- No sequencing available
- 5 year factory Emerald Warranty
- Lots of stock available!

• S-energy:

- Enhanced package for when customers want more options
- "bells and whistles"
- Premium Sullair flagship product
- Also very reliable
- 10 year factory Diamond Warranty
- Stock and engineered ordering available



Model	kW	Bar	Hz
1100E	11	07,09,12	50
1500E	15	07,09,12	50
1800E	18.5	07,09,12	50
1800	18.5	07,09,10,12	50
2200	22	07,09,10,12	50
3000	30	07,09,10,12	50
1800V	18.5	07,09,10,12	50
2200V	22	07,09,10,12	50
3000V	30	07,09,10,12	50



Mini Test

- What does the « V » on the nomenclature mean?
 - VSD
- Name 3 typical applications for the S-Energy?
 - Construction Trade, Rendering Facilities, Welding, Mining, Chemicals Industry, Energy Industry, Health Systems, Paper-Processing, Wood Processing, Steel Mills and Foundries, Plastics Industry, Textiles Industry
- What are the available kW on the ES6 & S-Energy range?
 - From 11 to 30kW



Single Stage Large Electric 93-261 kW





Large Electric Applications

- Steel Mills
- Tire Plants
- Automotive
- Forging Plants
- Chemical Processing
- Paper Industry
- Large Manufacturing Facilities



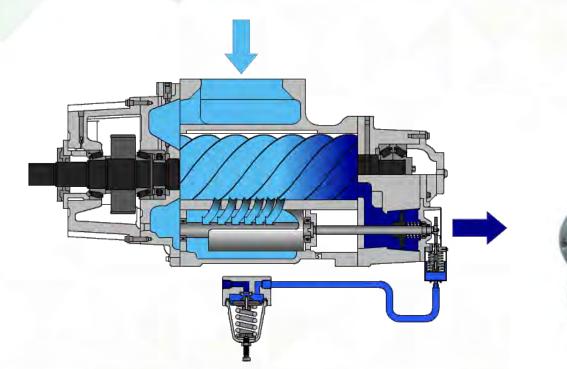


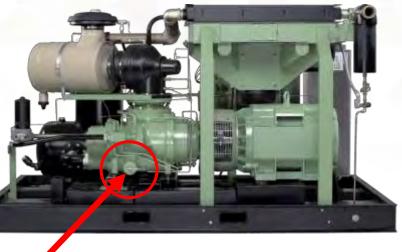
Single Stage Large Electric Nomenclature

- Example: LS200S-200H
 - LS stands for Lubricated Screw
 - 200 is the size of rotors in millimeters
 - S stands for stretched rotors
 - 200H is the horsepower
 - VCC stands for Variable Capacity Control (spiral valve)
 - V stand for Variable Speed Drive (with spiral valve)

Product Features

Spiral Valve





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.



Product Features

Large Electric with Sullair Smart Technology:

- Excellent energy savings
- Possible utility company rebate
- Alleviation from electrical harmonics
- Stable system pressure
- Consistent product quality
- Lowest five-year life-cycle costs
- Flexibility for future growth
- NEMA 12 rated





- Enclosure
- Cold weather package*
- High ambient package
- Low pressure machines
- Phase monitor relay
- Optional motor configurations
- Zero loss drains
- Weather hood
- Water solenoid valve
- Water regulating valve
- Heat recovery EES
- Remote cooling package
 - * Not available on VSD Models

Product Options



Supervisor Controller ™

- Computer compatible Micro-processor controller with simple graphic illustration
- Lead-lag and sequencing of up to 16 compressors, no external box required. Can sequence with WS controller
- Monitors key functions and safety shutdowns including fault history with sensor readings
- On-demand readout of all operating and maintenance conditions
- Manual or automatic start-stop operation
- Auto power failure restart
- Service and preventive maintenance schedule
- "Help" key provides built-in troubleshooting
- Remote monitoring capability
- Easily updated flash memory





Two Stage / Tandem Large Electric

75-450 kW





Two Stage / Tandem Nomenclature

Example: TS32S-400H

- TS stands for Tandem Screw
- 32 is the size of the rotors in millimeters (321 mm)
- S stands for stretched rotors
- 400 is the horsepower
- H is 125psig
- V stands for Variable Speed Drive (with spiral valve) V320TS



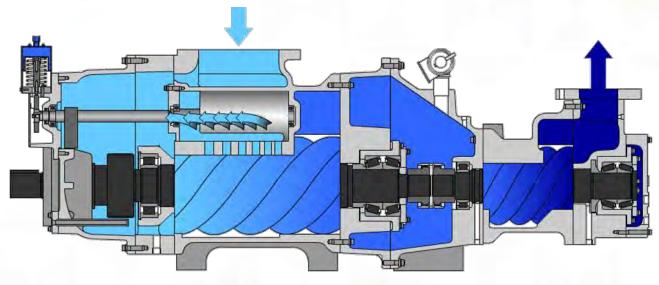
Product Highlights

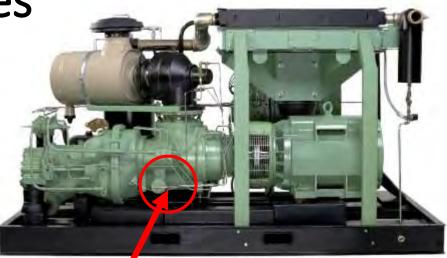
- Two sets of rotors arranged in unique end-to-end design that achieves higher efficiencies than other two-stage rotor arrangements
- Often provides a two-year payback in energy savings compared to a single-stage compressor
- Significantly exceeds the life of the average single-stage compressor
- Bearing loads reduced to 1/3 of those on a single stage
- Reduced pressure difference across each stage facilitates reduction in leakage



Product Features

Spiral Valve







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. Tandem Compressors match compressor displacement with output need using up to 30% less power.



Product Features

Tandem with VSD Sullair Smart Technology:

- Excellent energy savings
- Sullair Smart Technology
- Possible utility company rebate
- Alleviation from electrical harmonics
- Stable system pressure
- Consistent product quality
- Lowest five-year life-cycle costs
- Flexibility for future growth
- NEMA 12 rated*

* TS-32 rated NEMA 1





Product Options

- Enclosure
- Cold weather package*
- High ambient package
- Low pressure machines
- Phase monitor relay
- Optional motor configurations
- Zero loss drains**
- Weather hood***
- Water solenoid valve
- Water regulating valve
- Heat recovery EES****
- Remote cooling package



- * Not available on VSD Models
- ** Standard on TS-32
- *** Not available on TS-32
- **** Not available on 500 600 HP

Supervisor Controller ™

- Computer compatible Micro-processor controller with simple graphic illustration
- Lead-lag and sequencing of up to 16 compressors, no external box required. Sequencing with WS controller
- Monitors key functions and safety shutdowns including fault history with sensor readings
- On-demand readout of all operating and maintenance conditions
- Manual or automatic start-stop operation
- Auto power failure restart
- Service and preventive maintenance schedule
- "Help" key provides built-in troubleshooting
- Remote monitoring capability
- Easily updated flash memory



Air Treatment Products

- Refrigerated Dryers
 - (RN) Non Cycling 5-325 SCFM
 - (RD) Digital Cycling 400-6000 SCFM
 - (RC) True Cycling 150-3000 SCFM
 - (RH) High Temperature 15-100 SCFM

Desiccant

- (DMD) Modular 3-240 SCFM
- (DHL) Heatless 80-5000 SCFM
- (DEX) Externally Heated 200-3500 SCFM
- (DBP) Blower Purge 500-10,000 SCFM

Filters

- (FX & FH) Standard Pipeline Filter
- (FW) Flange / Welded Filters
- (ELM) Mist Eliminators
- Drains and Oil Water Separators
 - (SP) Oil Water Separators
 - (TD & ZLD) Zero Loss and Timer Drains







Vacuum Products

Models

- VS 10 4, 5, 7.5, 11 kW
- VS 12 11, 15 kW
- VS 16 20, 30, 37 kW
- VS 20 45, 55 kW
- VS 25 55, 75 kW
- VS 32 90, 110, 150 kW





Vacuum Applications

- Hospitals
- Printing
- Food Processing
- Plastics
- Woodworking









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Sullair Oil-Free Products

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OFC - Scroll – Michigan City Build

- 5 40HP
- 94 145 PSIG
- Air Cooled Only
 - Fixed Speed
- Special customer design is <u>Not Possible</u>





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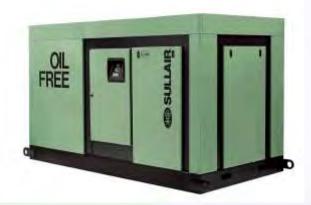


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Confidential and Proprietary

DS13 – USA Build

- 100 200HP
- 100 150 PSIG
- Air Cooled and Water Cooled
 - DR13 Rental Package
- Fixed Speed and Loose Ship VSD
- Special customer design is <u>Possible</u>







powered by IHI

Confidential and Proprietary

OFS13-18 – China Build

- 100 350HP
- 100 150 PSIG
- Water Cooled Air Cooled 4th Quarter 2017
 - Fixed Speed and Mounted VSD
 - Special customer design is <u>Not Possible</u>





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Centrifugal T-Series – China Build

- 200 2,300HP
- 20 225 PSIG
- Water Cooled
- Fixed Speed Only
- Special customer design is <u>Possible</u>







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Centrifugal "f"-Series – China Build

- 500 30,000HP
- 20 700 PSIG
- Water Cooled
- Fixed Speed Only
- Special customer design is <u>Standard</u>







powered by IHI

Confidential and Proprietary

a division of Accudyne Industries

Typical Oil-Free Applications

- Large air consumers
- Pharmaceuticals
- Food/beverage
- Power gen
- Metallurgical
- Petrochemical
- Industrial gases
- Glass
- Electronics
- Snowmaking
- Mining
- Textiles
- Chemicals
- General Manufacturing









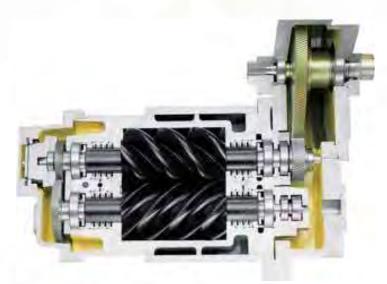
DS Air End Design

Gear Box:

 The two individual stages are flanged mounted to a common speed-increasing gearbox with a common bull gear which drives each stage pinion for its optimum performance.

Rotors and Rotor Housings:

- Rotors are high efficiency asymmetrical profile that are coated to inhibit corrosion and prohibit contamination. The coating is approved by the U.S. Food and Drug Administration (FDA) as a food-grade (PTFE) to ensure contaminant-free conditions.
- 100% oil-free air
- AGMA 12 precision drive gears are designed to extend air end life.
- Element speeds are much lower than the critical speed
- Stainless steel high pressure elements



DS Air End Design

Bearing

(4) Floating carbon ring air seals - with stainless steel lantern ensure 100% oil-free operation

- (4) roller bearings
- (2) angular contact ball bearings (Axial Radial Thrust)
- No thrust piston
- SKF high precision, anti-friction bearings with an L10 design life of over 100,000 hours

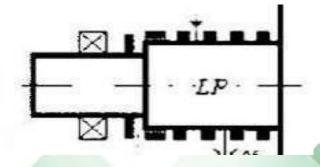
Seal

- (4) floating carbon ring air seals with stainless steel lantern ensure 100% oil-free operation
- Reverse flow thread labyrinth oil seal
- Optional buffer gas seal for nitrogen compressor application









DS Main Motor & Coupling

- Motor
- ODP premium efficient motor
- Class "F" insulation
- Flanged mounted
- Proper alignment guaranteed
- TEFC IP55 motor option available



- Coupling
- Flexible elastomer coupling
- Safety guard





DS Control Panel

- Sullair Supervisor Controller
- Accurately monitors and controls the compressor
- Built-in sequencing capabilities for automatic load sharing
- Constantly displays essential functions and applicable alarms





DS Variable Speed Drive

- VSD Drive
- 70% turn down from full load to improve operating efficiency
- Fan cooled
- Integrated converter with EMC filter ensures operation unstable electrical conditions



Sullair Industry Leading Warranty

Oil Flooded Air Compressor Warranty

 10 Year Air End Warranty (150 PSI and Below ordered after 1/1/14

Covers: Air end, standard freight, labor, mileage, & travel time -5 Year Major Component Warranty

Covers: Motor, Cooler, Sump Tank, VSD, Controller

• Air Treatment Warranty

-1 Year Bumper to Bumper Warranty-Five (5) year warranty on major componentsWith installation with recommended filter(s)

• Items covered

-Cycling & Non Cycling Refrigerated; Compressor, heat exchanger, and condenser.

-High Temperature Refrigerated; Compressor, heat exchanger, condenser and after cooler

-Desiccant twin towers; tanks and valve housing, stainless steel screens.

-Modular Desiccant; Aluminum tower and valve body. Filters Housings

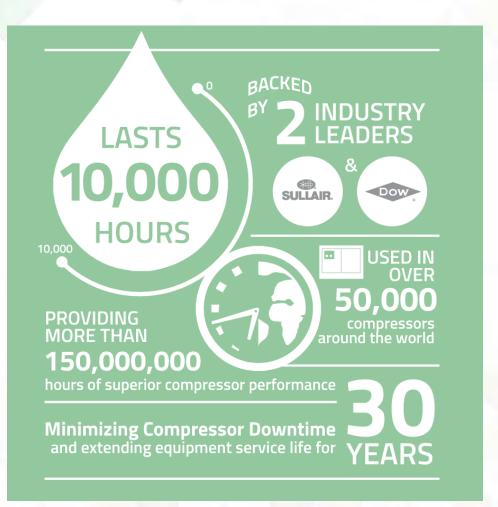




Sullube



Sullube



- 10,000 hours of life the most in the industry
- Backed by 2 industry leaders -Sullair and The Dow Chemical Company



- Used in over 50,000 compressors around the globe, providing more than 150,000,000 hours of superior compressor performance
- 30-year track record of minimizing compressor downtime and extending equipment service life



Why Choose Sullair?

- Industry Leading 10 Year Air End Warranty
- Industry Leading 5 Year Air Treatment Warranty
- Energy Efficient Products- most reliable 2 stage machines, extensive VSD & Spiral Valve Technology
- Non Proprietary Components- off shelf motors and standard VSD's
- Industry's lowest oil carryover
- Lowest overall life cycle cost
- Factory Authorized End User Training in State of the Art Facility



Thank You! Any questions?