

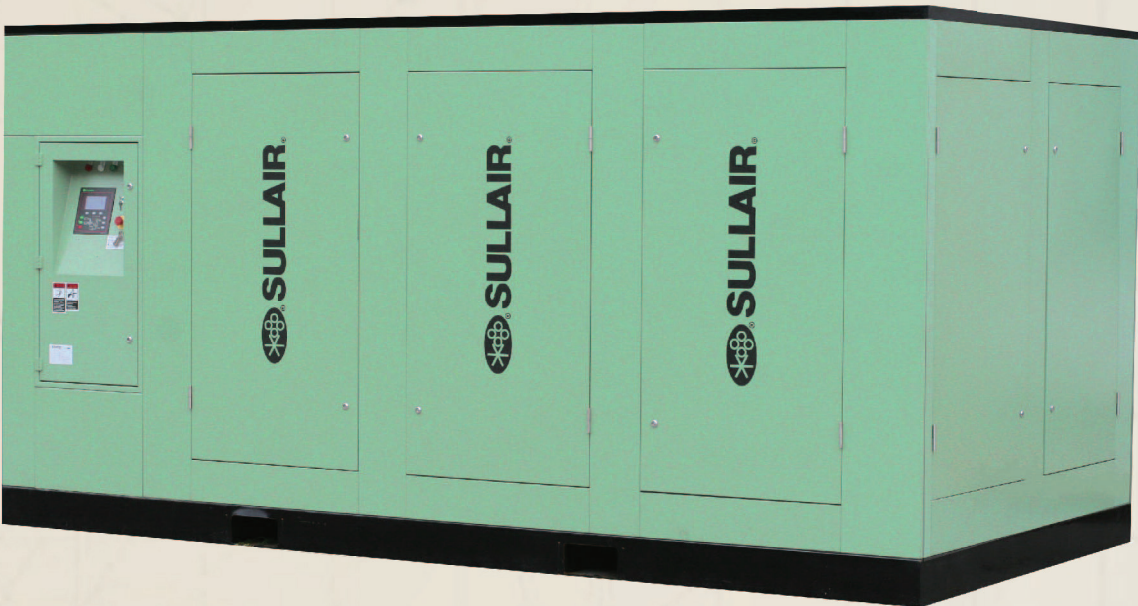
To Provide Compressed Air System is Our Core Business

For the lowest purchasing cost for customers, Sullair provides an entire air system designed to lower operating cost, increase reliability and maximize return on investment.



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Sullair Two-Stage VCC Screw Air Compressor 100-600HP(75-450KW)



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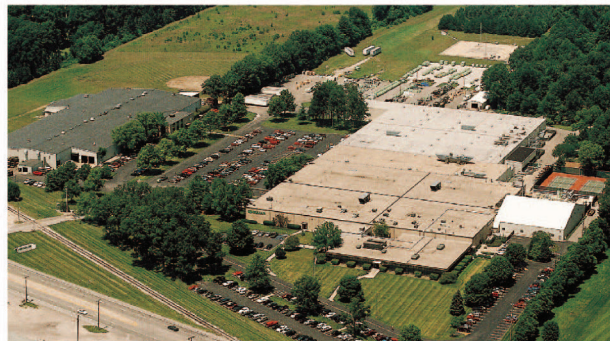
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The Only Air Compressor Manufacturer to Concentrate Exclusively on Screw Technology

Since 1965, Sullair Corporation has been leading the innovation in the field of screw compression and vacuum technology. With over 50-year product experiences, Sullair has been making a new round of innovation to this field. Utilizing advanced technologies, equipment and manufacturing technique, Sullair provides customers the best air compressor and vacuum equipment in order to meet the customers' strictest requirements so that Sullair has taken the industrial lead in the field by virtue of its first-class screw rotor design.

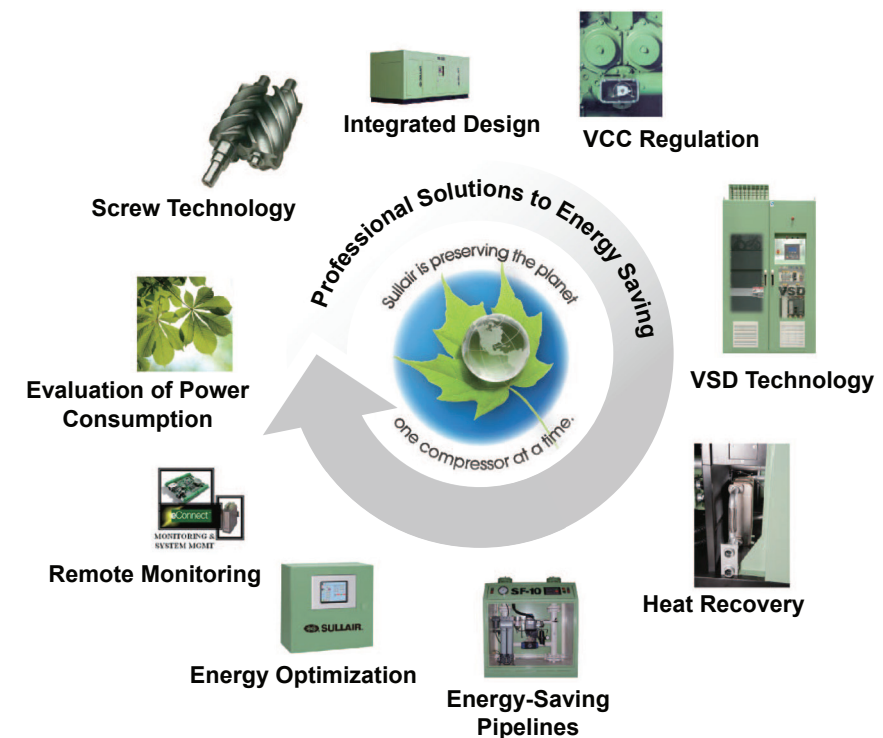
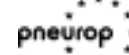
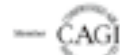
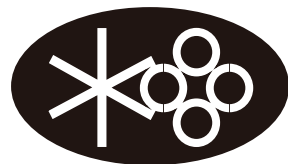
Sullair products are universally known around the world for its practical design, outstanding craftsmanship and superior quality. Sullair professionals provide you TS series 100-600HP (75-450KW) air compressor with simple structure, easily operation and great performance by optimal design while to ensure the amazing reliability, stability and related performance specifications. In fact, its design has made the new standard for this industry in every respect.



This company has been certified by ISO9001:2008 international quality management system.

This company has been certified by ISO14001:2004 international environmental management system.

This company has been certified by OHSAS18001:2007 occupational health and safety management system.



Energy Saving Certification

The efficiency indicators of TS series air compressor all meet the national energy efficiency standards level 2, some models meet level 1.

Together with Sullair, You will Get More Than Air Compressors

What you will get from Sullair is the world's leading screw technology and global services. Sullair provides the manufacturing industries like electronic, textile, food, construction, mining and energy with high-quality products and services.

The international service network of Sullair is inclusive of subsidiaries in different regions, designated agents and distributors who offer their best services to customers of Sullair around the world every day.



Distinctive Features of TS Series Air Compressor

Standard Configuration of TS Series Air Compressor

- ✓ High-quality screw assembly
- ✓ Two-stage compression, full range of TS surpasses the national efficiency standard level 2
- ✓ Use tapered roller bearing for air discharge outlet to extend the service life of air end
- ✓ Standard configuration with efficient and high-capacity drain valve that has automatic drainage function
- ✓ High efficient motor, excellent design for motor cooling
- ✓ Large capacity of dust containing, low resistance and high precision nanometer air filter
- ✓ Sullair Sullube fluid + 5-year warranty of air end
- ✓ Single-stage oil separator element, reduce the air discharge oil content lower than 3PPM
- ✓ Loading and unloading air capacity regulation function
- ✓ Sequence control for multi air compressors
- ✓ Luxurious micro-computer controller

Standard Options of Sullair Air Compressor

- ☐ 8000 hours, two-stage oil separator element
- ☐ Sullair 24KT fluid + 10-year warranty for air end
- ☐ Air inlet regulation valve
- ☐ Built-in Variable Capacity Control (VCC), range of air capacity regulation maximum to 40% of rated air capacity
- ☐ Built-in Variable Speed Drive (VSD), range of air capacity regulation maximum to 30% of rated air capacity
- ☐ Use both built-in Variable Capacity Control (VCC) and Variable Speed Drive (VSD), range of air capacity regulation maximum to 20% of rated air capacity
- ☐ Intelligent Flow Controller (IFC)
- ☐ Control system of EO series
- ☐ Built-in heat recovery device

Sullair Sullube Fluid + 5-Year Warranty for Air End

The traditional mineral fluid has short service life, and direct discharge of condensate with fluid causes environmental pollution. Sullube fluid from Sullair offers a service life of 8000 hours, which is 8 times that of ordinary mineral fluid. And condensate containing fluid is biodegradable and can be discharged directly. Meanwhile, Sullube fluid also has high flash point, non-adhesive, anti-corrosion, non-toxic, high thermal conductivity and other advantages. If choosing Sullair Sullube fluid and operate according to Sullair relevant instruction, Sullair will provide 5-year warranty for air end of screw compressor.



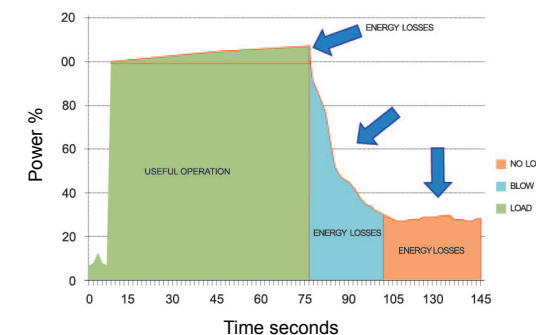
**5-year warranty
for screw assembly**

Operate according to Sullair relevant instruction, Sullair commits for screw assembly that:

Free of non-manmade problems for 5 years
No change to relevant specifications for 5 years

Air Inlet Capacity Regulation Valve

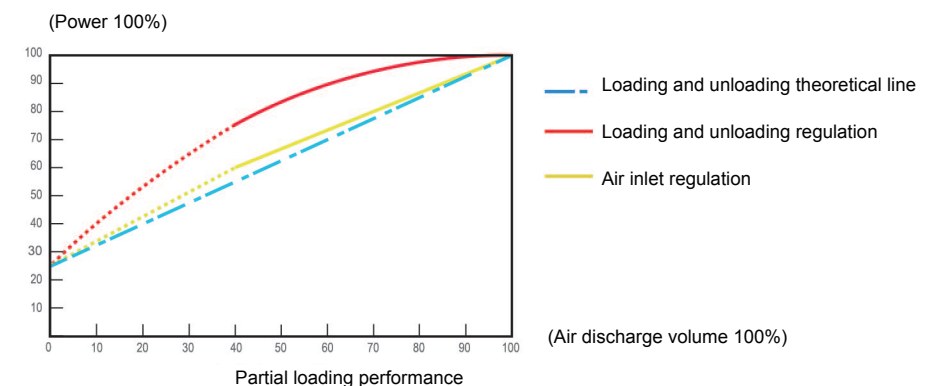
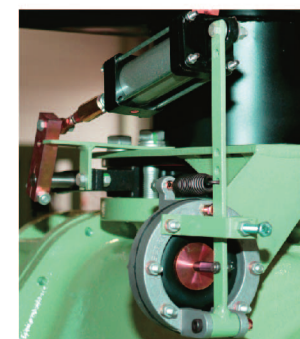
Traditional loading and unloading regulation mode will make energy loss. If customer uses less than rated air capacity during the air compressor loading process, it will make energy loss before reaching unloading pressure. Moreover, air compressor will make large amount of energy loss in its unloading and no load process.



Reasons for Energy Loss of Loading and Unloading Regulation

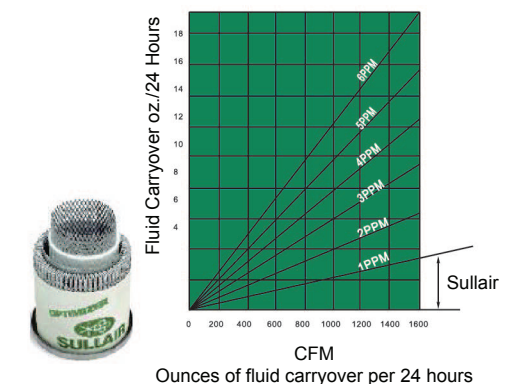
- Pressure difference of unloading
- Power fall delay after unloading
- Unloading power (maintaining the lowest tank pressure)

Air inlet regulation valve from Sullair can effectively reduce frequency of loading and unloading and will adjust the inlet when actual air consumption between 40% and 100% to meet customers' need better and save energy. Meantime, it can effectively reduce the impact of loading and extend its service life.



Fluid Separator Element

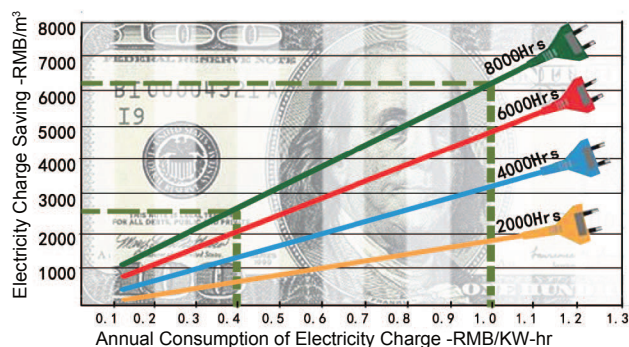
Filter element of fluid/air separator from Sullair adopts high efficiency separation and professional filter materials provided by world-class suppliers to double the filtration area. The air discharge oil content can reach below 2PP and the service life is up to over 8000 hours. So Sullair could provide customers with cleaner compressed air and at the same time reducing the load of the post-processing equipment.



TS Series Air Compressor

1 Air End

Two-stage compressor and energy saving. Ordinary single-stage compression is 7bar and the compression ratio is 7.9:1. Sullair TS series adopt two-stage compression with each stage of compression ratio of 2.8:1. With lower compression ratio, the compression leakage loss is reduced and the compression efficiency improves significantly.



The two-stage air end is installed in series to prolong the service life of bearing significantly. The design of compressor rotor pitch line and slot reduces internal leakage. The high quality bearing with design life of 100,000 hours.



2 Cooling Water Loop System

The design of large capacity fluid cooler and aftercooler; The aftercooler, air goes through shell side, is the best design recommended by American Petroleum Institute (API); Cooling performance is durable and easy to maintain.

3 Pipeline Connection

Choose flexible metal tube as air discharge pipeline; Adopt O-ring and plane sealing mode.



4 Drain Valve

Adopt high efficiency drain valve with automatic drainage function; Large capacity and good separation effect.



5 Thermal Valve and Oil Filter

Imported thermal valve core; The oil filter adopts environmental protection filter material with filtering precision over 99.5%.



6 Fluid/Air Separator

Upper cyclone structure, high efficiency pre-separation effect; Pressure drop makes lower energy; With humanization design of rotary table in the top.



7 Air Filter

Cyclone pre-separation structure extends the service life; Large capacity of dust containing and heavy-duty air filter; High precision nanometer filter element with low initial pressure drop.



8 Air Inlet Valve

The air inlet valve with capacity control and blow down function could effectively reduce the frequency of loading/unloading and impact of system loading efficiently to meet customers' need better.



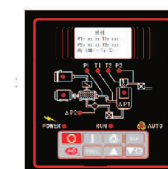
9 Motor

High efficiency motor; Level F insulation, Level B temperature rise; Standard configuration with thermistor effectively ensures the stability of the circuit.



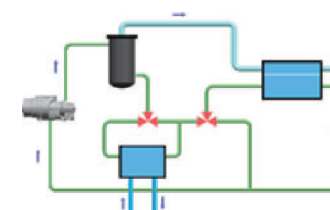
10 Computer Controller

Humanized parameters regulation function; Large LCD screen display and friendly human-computer interface; Parameters real-time display function and alarm function such as dew point temperature, ambient temperature, etc.; The host current protection function; 15 alarm functions including air filter blocking, oil filter blocking, etc.



11 Heat Recovery System

Options are installed heat recovery system. Heat recovered can be used for pre-heating of painting, boiler and processing, etc. and providing hot water for employees taking a shower.

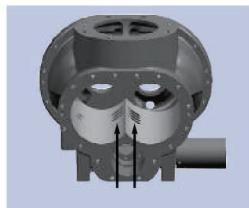


Further Energy Saving Solutions

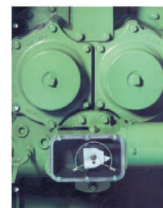
Sullair TS Series VCC Air Compressor

Sullair VCC Technology

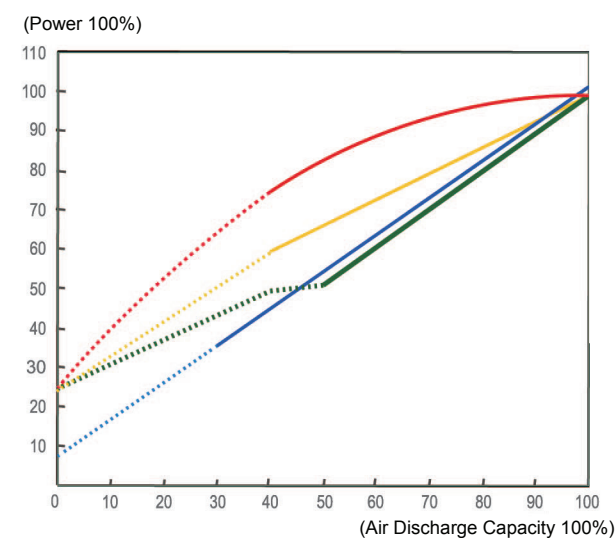
Compared with traditional air inlet regulation, Sullair's unique patented technology spiral valve regulation is adjusted by changing the volume of compression chamber. Once customer's air use is less than the rated air discharge capacity, the spiral valve starting action to reduce the volume of compression chamber and saving the energy. The less air customer used, the greater opening of spiral valve is. The control range of spiral valve is 100% to 40% of rated air capacity, which is the unique standard option on energy saving of Sullair.



Bypass Opening Schematic Diagram



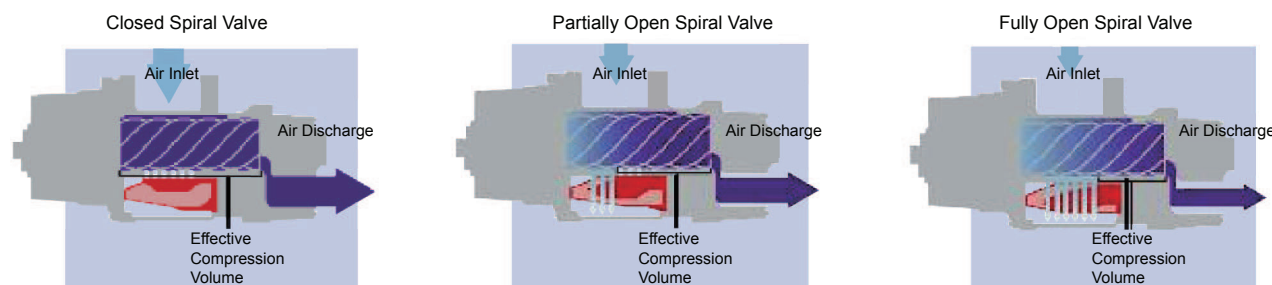
Compared with control mode of other air compressors, VCC has incomparable advantages on energy saving. The following chart is a general comparison.



Advantages of VCC regulation system:

1. Perfectly match customer's air consumption, and realize non-stage regulation of air discharge capacity between 40% and 100%.
2. Saving energy. Up to 17% energy saving when partial loading.
3. Provide compressed air with relatively stable pressure.

— Loading/unloading regulation
— Air inlet regulation
— VCC regulation
— VSD regulation



Sullair TS Series VSD Control Air Compressor

VSD Controller

Optimal modular design of air compressor performance will make application and maintenance more convenient.

Forced cooling and coated circuit board significantly enhance the stability and service life of VSD controller.

Sullair Special High Efficiency VSD Motor

Special electromagnetic design effectively restrains damage to the motor by high harmonics and improves low-frequency output torque of motor.

Special enameled wire for VSD motors to enhance the insulating strength of ground and interturn, especially the insulation shock resistance voltage capability.

Special cooling method ensures that the motor has good self-cooling ability at low frequency, which effectively avoid low-frequency resonance.

VSD Soft Start, Unlimited Starts and Stops

No need start-delta start or other starting device, and no need to control the number of cold and hot starts, avoid impulse current at direct start-up and extend service life of the equipment.

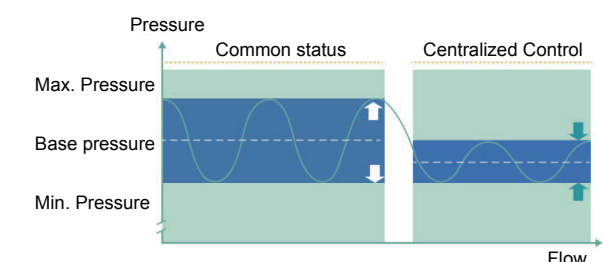


Sullair Intelligent Flow Controller (IFC)

The intelligent flow controller (IFC) is installed in front of the inlet of the gas consumption unit, through the constant pressure air supply (± 1 PSI) accurately and sensitively control the delivery of the compressed air flow and reduce the flow consumption by eliminating the pressure waste, and reduce the air compressor work to save energy, meantime, optimize the production process to improve the production quality.

Sullair (Energy Optimization) EO System

Efficient compressor management is the fastest way to save energy. For each 1 bar (14.5 psi) reduction in working pressure, direct energy saving of 7% can be realized, and at the same time a further 3% energy can be saved due to reduced leakage. Our EO centralized controller series products allows you to connect all compressors and dryers to reduce the entire pressure area without higher operating pressure and optimize the compressor assembly at any time.



Technical Specifications

TS100-600HP (75-450KW) Performance Parameter

| Model | Motor | | Maximum Air Discharge Pressure | | | | | Weight (kg) | Outlet Dimension |
|-----------|-------|-----|--------------------------------|---------|---------|----------|--------|----------------|---------------------|
| | | | 5.5 bar | 7.5 bar | 8.5 bar | 10.5 bar | 13 bar | | |
| | HP | kW | Air Discharge Capacity m³/min* | | | | | | |
| TS20-100 | 100 | - | 18.3 | 14.9 | 14 | 12 | - | 2800 | DN65 |
| TS20-125 | 125 | - | 22.8 | 18.9 | 17.4 | 15.7 | 14 | 3100 | DN65 |
| TS20-150 | 150 | - | 26.8 | 22.9 | 21 | 18.9 | 17.4 | 3250 | DN65 |
| TS20-175 | 175 | - | 31.0 | 25.3 | 24 | 21.1 | 20 | 3950 | DN65 |
| TS20-200 | 200 | - | - | 29 | 27.2 | 24.8 | 22.9 | 4025 | DN65 |
| TS160 | - | 160 | 39.3 | 34.1 | 32.6 | 26.3 | - | 5900 | DN100 |
| TS200 | - | 200 | 48.1 | 42.1 | 39.6 | 36 | 31.1 | 6100 | DN100 |
| TS250 | - | 250 | - | 50.6 | 47.6 | 41.2 | 36 | 6350 | DN100 |
| TS280 | - | 280 | - | 54.8 | 51.6 | 44.6 | 38.8 | 6500 | DN100 |
| TS315 | - | 315 | 73.1 | 66 | 62.5 | 54 | 49.8 | 11500 | Rc4 |
| TS355 | - | 355 | - | 73 | 69.6 | 61.7 | 54 | 11500 | Rc4 |
| TS32S-400 | 400 | - | 70 | 61.7 | 57.1 | 49.8 | 47.2 | 11500 | Rc4 |
| TS32S-450 | 450 | - | 80 | 69.5 | 66 | 57.1 | 49.8 | 11500 | Rc4 |
| TS32S-500 | 500 | - | - | 77.8 | 73.1 | 66 | 57.1 | 11500 | Rc5 |
| TS32S-600 | 600 | - | - | 88.6 | 85.5 | 73.1 | 66 | 11500 | Rc5 |

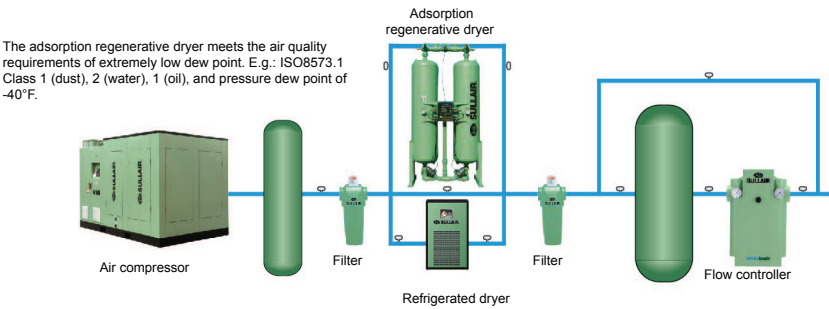
Notes:
1. Air discharge capacity is measured under the rated pressure according to the GB3853 (the same as ISO 1217 Appendix C)
2. All types of high voltage switch cabinet should be disposed separately by customers.

Sullair Compressed Air System

Sullair compressed air system includes: air compressor, refrigerated dryer, adsorption dryer, compressed air filter and flow controller.

According to different quality requirements of compressed air, Sullair can provide solutions of different configurations.

Sullair compressed air can meet the most stringent air quality standard ISO8573.1:2001 and consume lowest energy while meeting the compressed air requirements of customers' critical locations.



The adsorption regenerative dryer meets the air quality requirements of extremely low dew point. E.g.: ISO8573.1 Class 1 (dust), 2 (water), 1 (oil), and pressure dew point of -40°F.

Equipment Dimension

| Model | Voltage | Protection Level | Cooling Method | Length mm | Width mm | Height mm | Cooling Water Pipe Connection Size |
|-----------|---------|------------------|-------------------------|-----------|----------|-----------|------------------------------------|
| TS20-100 | 380V | ODP/TE | Air-cooled/water-cooled | 3250 | 1600 | 1857 | G1-1/2 |
| TS20-125 | 380V | ODP/TE | Air-cooled/water-cooled | 3250 | 1600 | 1857 | G1-1/2 |
| TS20-150 | 380V | ODP/TE | Air-cooled/water-cooled | 3250 | 1600 | 1857 | G1-1/2 |
| TS20-175 | 380V | ODP/TE | Air-cooled/water-cooled | 3250 | 1600 | 1857 | G1-1/2 |
| TS20-200 | 380V | ODP/TE | Air-cooled/water-cooled | 3250 | 1600 | 1857 | G1-1/2 |
| TS160 | 380V | ODP/TE | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | ODP | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| TS200 | 380V | ODP/TE | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | ODP | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| TS250 | 380V | ODP/TE | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | ODP | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| TS280 | 380V | ODP/TE | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | ODP | Water-cooled | 4200 | 2200 | 2150 | RC2-1/2 |
| | 6KV | TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 4400 | 2200 | 2150 | RC2-1/2 |
| TS315 | 380V | ODP | Air-cooled | 4450 | 2200 | 2450 | - |
| | 380V | TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 6KV | ODP/TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 10KV | ODP/TE | Air-cooled | 5050 | 2200 | 2450 | - |
| | 380V | ODP | Water-cooled | 4450 | 2200 | 2220 | RC2-1/2 |
| | 380V | TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 6KV | ODP/TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 5050 | 2200 | 2220 | RC2-1/2 |
| TS355 | 380V | ODP | Air-cooled | 4450 | 2200 | 2450 | - |
| | 380V | TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 6KV | ODP/TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 10KV | ODP/TE | Air-cooled | 5050 | 2200 | 2450 | - |
| | 380V | ODP | Water-cooled | 4450 | 2200 | 2220 | RC2-1/2 |
| | 380V | TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 6KV | ODP/TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 5050 | 2200 | 2220 | RC2-1/2 |
| TS32S-400 | 380V | ODP | Air-cooled | 4450 | 2200 | 2450 | - |
| | 380V | TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 6KV | ODP/TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 10KV | ODP/TE | Air-cooled | 5050 | 2200 | 2450 | - |
| | 380V | ODP | Water-cooled | 4450 | 2200 | 2220 | RC2-1/2 |
| | 380V | TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 6KV | ODP/TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 5050 | 2200 | 2220 | RC2-1/2 |
| TS32S-450 | 380V | ODP | Air-cooled | 4450 | 2200 | 2450 | - |
| | 380V | TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 6KV | ODP/TE | Air-cooled | 4866 | 2200 | 2450 | - |
| | 10KV | ODP/TE | Air-cooled | 5050 | 2200 | 2450 | - |
| | 380V | ODP | Water-cooled | 4450 | 2200 | 2220 | RC2-1/2 |
| | 380V | TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 6KV | ODP/TE | Water-cooled | 4866 | 2200 | 2220 | RC2-1/2 |
| | 10KV | ODP/TE | Water-cooled | 5050 | 2200 | 2220 | RC2-1/2 |
| TS32S-500 | 6/10KV | ODP/TE | Water-cooled | 5010 | 2160 | 2210 | G2-1/2 |
| TS32S-600 | 6/10KV | ODP/TE | Water-cooled | 5010 | 2160 | 2210 | G2-1/2 |

*Water-cooled: WC *Air-cooled: AC