

## Air Solutions are Our Core Business

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



Sullair offers compressed air system to help users reduce their operating costs and improve productivity by analyzing, managing and controlling all compressed air devices. To satisfy your special requirement on the compressed air system, please contact the local Sullair agents to seek more help. To acquire local Sullair agents' contact information, see the below website or make a phone call.



*Always air. Always there.*

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## Sullair GS Series Variable Frequency Water-flooded Screw Air Compressor

### 15-75 kW





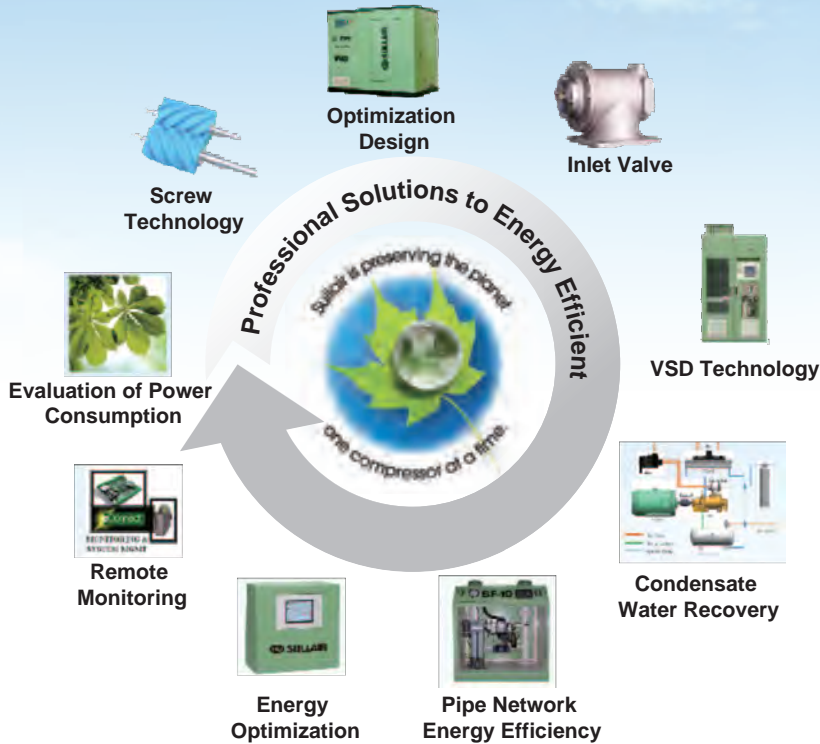
# The Only Air Compressor Manufacturer To Concentrate Exclusively On Screw Technology

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 continuous investment and innovation in this technology field. Utilizing the most advanced technologies, equipments and manufacturing technique, Sullair provides customers worldwide the best air compressor and vacuum equipment in order to meet the customers’ various requirements.

Sullair products are universally known around the world for its unique design, outstanding craftsmanship and superior quality. Sullair professionals provide you GS series variable frequency water-flooded oil-free screw compressors with reasonable structure, easily operation and great performance by continuous optimal design and induction of new technology while to ensure the amazing reliability, stability and related performance specifications. In fact, GS series oil-free screw compressors have led this industry to a new direction in all aspects.

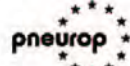


Sulliar water-flooded screw compressor adopts reliable double-screw compression technology with a purified and oil-free compressor system and almost isothermal compression of sealed medium, which may fully make use of moisture in the air with no need of being provided the process equipment after degreasing and is an efficient and energy-saving oil-free compressor product.



## Together with Sullair, You will Get More Than Air Compressors

What you will get from Sullair is the world's leading compression technology and global services. Sullair provides the manufacturing industries such as electronics, 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.

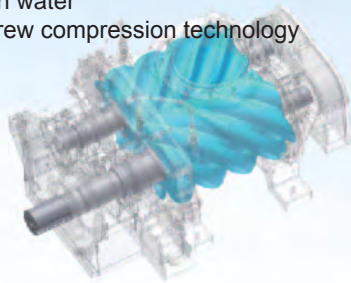




# High-quality Components

## 1 Air End

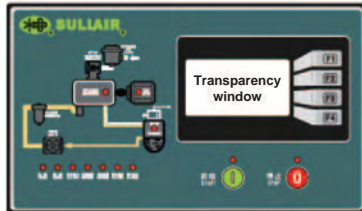
- Revolutionary adoption of stainless steel and ceramic composite for screw
- Cavity of the air end adopting bronze materials
- Extremely low temperature rising during compression that is close to an isothermal one with high compression efficiency
- Extremely low leakage loss during compression; cooling and sealing with purified lubrication water
- Adoption of mature double-screw compression technology



## 2 Computer Controller

Monitoring and protection functions are complete, and the functions of communication and remote control have also been improved so that centralized control through multi-unit networking can be achieved.

- Direct setting of operation parameter
- Display of operation parameter
- Reminder of maintenance
- Communication networking, RS485



## 3 Special Variable Frequency Motor

Variable frequency motor of high efficiency and high protection grade is adopted so as to adapt to continual operation under heavy load and partial load.

- Low-voltage motor of IP55 high protection grade; the temperature rising and usage of motors with class F insulation subject to class B
- Efficiency mark of the national GB standards



## 4 Solenoid Valve and Pipeline

- Special solenoid valve for water circuit
- All pipelines adopting rust-proof materials

## 6 Drain Valve

- Stainless steel materials
- Function of automatic drainage
- Function of anti-blockage



## 8 Water Filter

- Filter of high precision
- Large margin design
- Stainless steel housing
- Easily changeable design
- Service life of over 2,000 hours



## 9 Water-filling Filter

- Efficient filtration
- Service life of over 4,000 hours



## 10 Air Filter

The air filter adopts latest filtration materials covered outside by protective enclosure, which allows it to be applicable to various environments.

- With pre-separation structure
- 30% larger than common filters in terms of high-capacity filtration areas
- An enhanced type with low resistance
- Acceptable for maintenance and quick replacement



## 11 Bearing

Rolling bearing specially made by aeronautical material is adopted:

- High-precision level
- Optimal design of rolling speed
- Heavy-duty bearing with low wear
- Design for life of over 100,000 hours



## 12 Cooler

- Water cooler of stainless steel with better heat transfer effect
- Plate-type structure
- Large capacity design



## 5 Resin Water Purifier

- Efficient filtration
- Service life of over 4,000 hours



## 7 Air inlet Valve Assembly

- Design of low pressure drop
- Pure stainless steel materials



## 13 Condensate Water Recovery

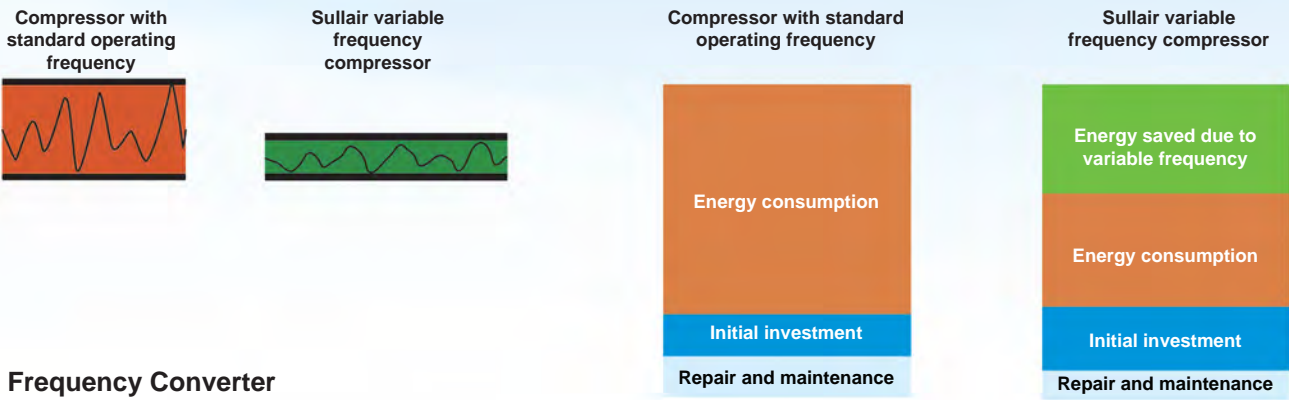
- Patent design for availability of condensate water recovery in refrigerated air dryer
- Making full use of moisture in air



# Variable Frequency Regulation of Whole Series Standard Water-flooded Oil-free Screw Compressor

## Variable frequency compressor saving energy for you

Energy efficiency is the prominent advantage of variable frequency compressor, especially when users have a large range of air fluctuation. Flexibility and reliability make the energy-saving advantage of variable frequency compressor stand out, especially the oil-free screw compressor equipped with loading/unloading regulation. During the whole operating frequency scope, Sullair oil-free compressor can also maintain the highest power factor to effectively prevent various problems caused by lower power factor.



## Frequency Converter

- Integration into the compressor with an integrated design to achieve an optimal compressor performance
- Module-based design to achieve convenient and friendly application and maintenance
- PID self-tuning function to realize optimization of controller parameter
- Innovative cooling methods and coated circuit board, apparently enhancing the stability of frequency converter and prolonging the service life
- Provision of powerful communication function which can support Rs485/USS, PROFIBUS, PROF/NET and DP etc.
- Provision of USB interface, making local debugging and fault diagnosis much more easier
- Integrated safety protection function which satisfies customers' higher safety demands
- Equipped with EMC filter which is in compliance with the national electromagnetism standards

## Variable frequency soft start, unrestricted startup and shutdown

- No need of star triangle or other startup methods as well as restriction of regulating times of cold and warm startup
- Lower the requirements for electrical characteristics, saving costs
- Avoid the surge current generated in direct startup, prolonging the service life of equipment

## Sullair Special High-efficient Variable Frequency Motor

- Adopt specific electromagnetic design to effectively prevent the harm to motor caused by ultraharmonics and enhance the low frequency output torque of motor
- Adopt dedicated enamelled wires for variable frequency motor to strengthen the intensity of ground insulation and turn-to-turn insulation, especially the great improvement of the capacity of insulation against surge voltage
- Adopt special cooling methods to enable the good self-cooling capacity of motor under low frequency operation
- Avoid the phenomena of low frequency resonance effectively



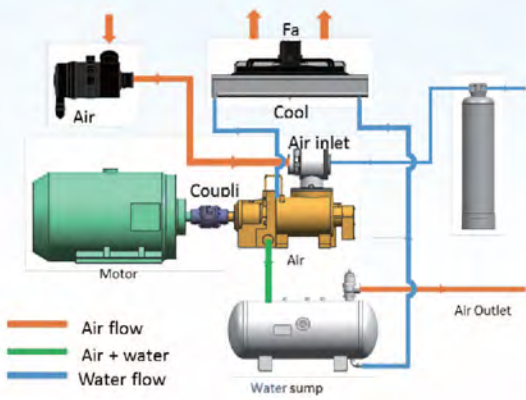
# Supply Scope of GS Series Water-flooded Oil-free Air Compressor

## Features of standard GS series air compressor

- ✓ Reliable compression rotor, adopting ceramic and stainless steel composite
- ✓ Bearing of long service life, low rotating speed and low noise
- ✓ Inlet valve
- ✓ TEFC motor with higher protective grade
- ✓ Water filter of high precision
- ✓ Intelligent microcomputer controller
- ✓ Large air filter with pre-separation structure with good filtration efficiency
- ✓ Cooler with large margin
- ✓ Realization of sequential control over multiple air compressors without adding equipment
- ✓ Environmental, healthy and secure design
- ✓ VSD variable frequency drive

## Options

- Long-distance control
- Shut-off valve for water circuit
- Temperature testing of motor winding
- Flange air inlet
- Special package
- Performance test certificate



## Technical Parameter GS15-75 Variable Frequency Air Compressor

Model	Motor kW	Maximum Discharge Pressure			Weight kg	
		7.5bar	8.5bar	10.3bar		
		50/60Hz			WC	AC
		Air Displacement m³/min*				
GS15 VSD	15	0.55-1.84	0.55-1.65	0.55-1.3	-	1030
GS22 VSD	22	0.96-3.21	0.96-2.91	0.96-2.25	-	1050
GS37 VSD	37	1.9-5.3	1.9-4.8	1.9-4.0	1220	1260
GS55 VSD	55	2.5-8.97	2.5-8.1	2.5-7.0	1550	2111
GS75 VSD	75	4.0-12.35	4.0-11.1	4.0-9.2	1600	2111

## Size and Interface:

Model	Length mm	Width mm	Height mm	Outlet Size	Connector Size of Cooling Water Pipelines
GS15/22AC VSD	1750	1100	1600	Rc1	—
GS37AC VSD	2000	1200	1700	Rc1-1/2	—
GS37WC VSD	2000	1200	1700	Rc1-1/2	Rc1
GS55/75AC VSD	2450	1550	1900	Rc1-1/2	—
GS55/75WC VSD	2450	1550	1900	Rc1-1/2	Rc1-1/2

Note: The air displacement shall be tested in accordance with the national standard GB3853 and subject to the international rules of Appendix C of ISO1217.