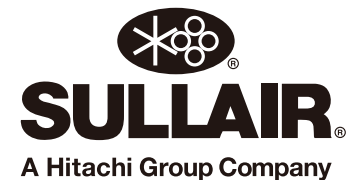


# To Provide Compressed Air System is Our Core Business

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 systems. To satisfy your special requirement on the compressed air system, please contact the Sullair distributor to seek more help. To acquire Sullair distributor's contact information, see the below website or make a phone call.



**Sullair Asia Ltd.**  
Zuo Pao Tai Road, Chiwan Shenzhen 518068, China Tel: 86-755-26851686 Fax: 86-755-26853475

**Shenzhen Sullair Asia Ltd.**  
Zuo Pao Tai Road, Chiwan Shenzhen 518068, China Tel: 86-755-26851686 Fax: 86-755-26853475

**Suzhou Sullair Air Equipment Co., Ltd.**  
No.266 Changyang Street, Suzhou Industrial Park, Suzhou, Jiangsu, China Tel: 86-512-87162388 Fax: 86-512-87162389

**Sullair Asia Pte Ltd.**  
30 Pioneer Crescent, #10-15 West Park BizCentral, Singapore 628560 Tel: (65)63057436/63057445 Fax: (65)63057414

**Sullair Taiwan Ltd.**  
3F-1, No.248, Chung-Shan Road Lin-kou Hsiang, Taipei Hsien Tel: 886-2-26013500 Fax: 886-2-26013032



# Sullair Screw Air Compressor WS18-WS75 ▪ 18-75kW





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

Since 1965, Sullair has been leading the innovation in the field of screw compressor and vacuum technology. With more than 40-year experiences, Sullair is leading a new round of innovation in this field. Utilizing the most advanced technologies, equipments and manufacturing technique, Sullair provides customers the best air compressor and vacuum equipment in order to meet the customers' severe requirements. Sullair has led the industrial trends in the field with 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 WS series 18-75kW air compressor with simple structure, easily operation and great performance by optimal design while to ensure the amazing reliability, stability and related performance specifications of Sullair products. In fact, its design has made the new standard for this industry in every respect.



This product was manufactured to the highest quality standards in an ISO9001 certified system.

# Choose Sullair, What You Bought is the Perfect Customer Service

**"Customer Satisfaction" is a cornerstone of Sullair philosophy. Our service includes:**

- Maintenance of equipment
- Customer training
- Highly efficient energy-saving products
- Genuine Sullair parts supply



## Energy Saving Certification

Nearly 20 WS series energy efficiency of air compressors indexes meet the requirement of national energy-saving evaluation value. And part models get to the class I of it. That means you can apply for national energy-saving subsidies.



# Choose Sullair, What You Got is Not Just a Compressor.

Choose Sullair, what you bought is world leading screw technology and global service capabilities. Sullair provides superior products and services to manufacturing, textile, food, construction, mining and energy-related industries etc.

Sullair international service network including subsidiaries of all regions, appointed agent and distributors provide the Sullair customers perfect services everyday in every corner of the world.



## Unique Features of WS Series Air Compressor

### Standard features of the WS series air compressor

- Air inlet capacity regulating valve, excellent and reliable performance
- Longlasting bearings, reliable rotors, high-quality screw assembly
- Nema 4 high efficiency motor. Excellent motor cooling design, longer motor life
- Luxury microcomputer controller
- Optimalair \* Super air filter. Compared with other filters, filtration efficiency is increased by 10-fold
- Sullube" fluid. 8,000 hours life, biodegradable, discharge oil content of less than 2ppm
- No need for additional equipment to achieve sequential control of multiple air compressors
- Minimal idle occupancy
- Low noise, up to 67 db
- Environmental friendly, healthy and safe design

### Compact

Sullair WS series air compressor can meet requirement for the smaller space:

- Compared to other compressors, smaller occupancy of area
- All maintenance services can be done on one side, reducing maintenance requirement for space

### Quiet design

Sullair WS series air compressor has the following low-noise designs:

- Air end, motor, fluid/air separation tank all have rubber shock pad
- Inlet and exhaust vents are effectively isolated
- Low-noise fan

In fact, the Sullair WS series air compressor is very quiet, it can be installed at any air application site as the user needs.

### Options

- Air-cooling or water-cooling (water-cooling limited to units of 45kW or above)
- Different motor protection levels
- Variable capacity control or VSD control



## WS 18-75 Series Air Compressor

### Screw assembly with 5-year warranty

In normal ambient condition, when used according to Sullair recommendations, we guarantee the screw assembly:

- No non-artificial quality problems for 5 years
- No change in technical specifications for 5 years



Screw Assembly  
With 5-year Warranty

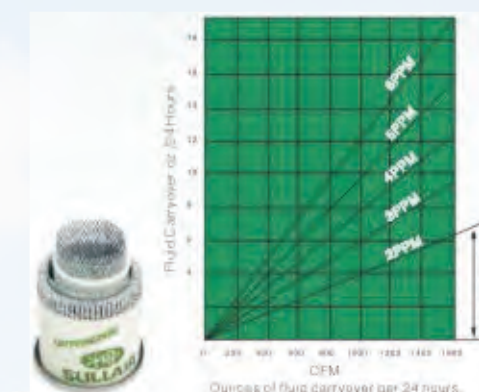
### Sullair Sullube fluid

- Useful life of 8000 hours, eight times that of the normal mineral oil
- Condensate containing lubricating fluid can be discharged directly, as biodegradable
- High flash point, low discharge oil content, no gumming, corrosion-resistant, non-toxic, relatively high thermal conductivity properties



### Optimal compressed air quality

- Superior to other air compressors in average discharge oil content
- Specially designed wave trough, fluid/air separation element can be nested
- Higher fluid/air separation efficiency, lower discharge oil content, lower energy consumption



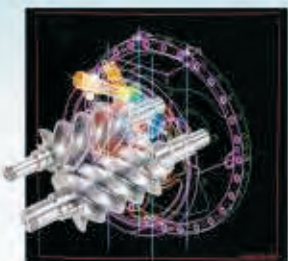
### Standard Chinese and English microcomputer controller

- With real time display of temperature, pressure and other parameters and alarm function
- Provide two-way RS485 port using Modbus protocol
- Each unit can be online group controlled without adding equipment
- Forty alarm records and constantly refreshed historical operating information records for easy maintenance and analysis





## WS 18-75 Series Air Compressor



### Compressor Air End

- The screw rotors are manufactured by matching with excellent compress efficiency
- The design of slot line and pitch line reduces the inner leakage
- Patented design, low noise and high quality bearings (longer life for 100000 hours) ensures the air end stability and longer life
- BFR (Bearing Fluid Reservoirs) ensure the compressor with excellent function for startup and on load performance

### High Efficiency Cooling System

- Oversized cooler, huge design margin, cooler heat dissipation area is one third bigger than ordinary cooler.
- Centrifugal fan with excellent ventilation and lower noise
- High cooling efficiency, effectively extend the life of fluid and lower running cost

### Drain Valve

- Aluminum housing is more durable.
- Drained automatically, high energy saving efficiency

### Fluid Filter

- Aircraft- quality filter material provides better filtration
- Twice dust capacity more than common media
- In an inverted position 10 minimize lubricant loss during lifter changes

### Fluid-air Separation System

- Large capacity and highly efficient fluid-air separator with special design inside, multistate separation to make good separation result
- The pressure decreased lowly and saving almost 1% power consumption

### Air Filter

- The latest nanotechnology provides the best filter efficiency
- Low air inlet resistance improves the efficiency of air compressor
- High dust capacity treble of common filter material at least.
- Surface filtration technology makes refresh and maintenance easier
- Guarantee to protect fluid from being polluted to extend the life of parts.

### Air Inlet Regulating Valve

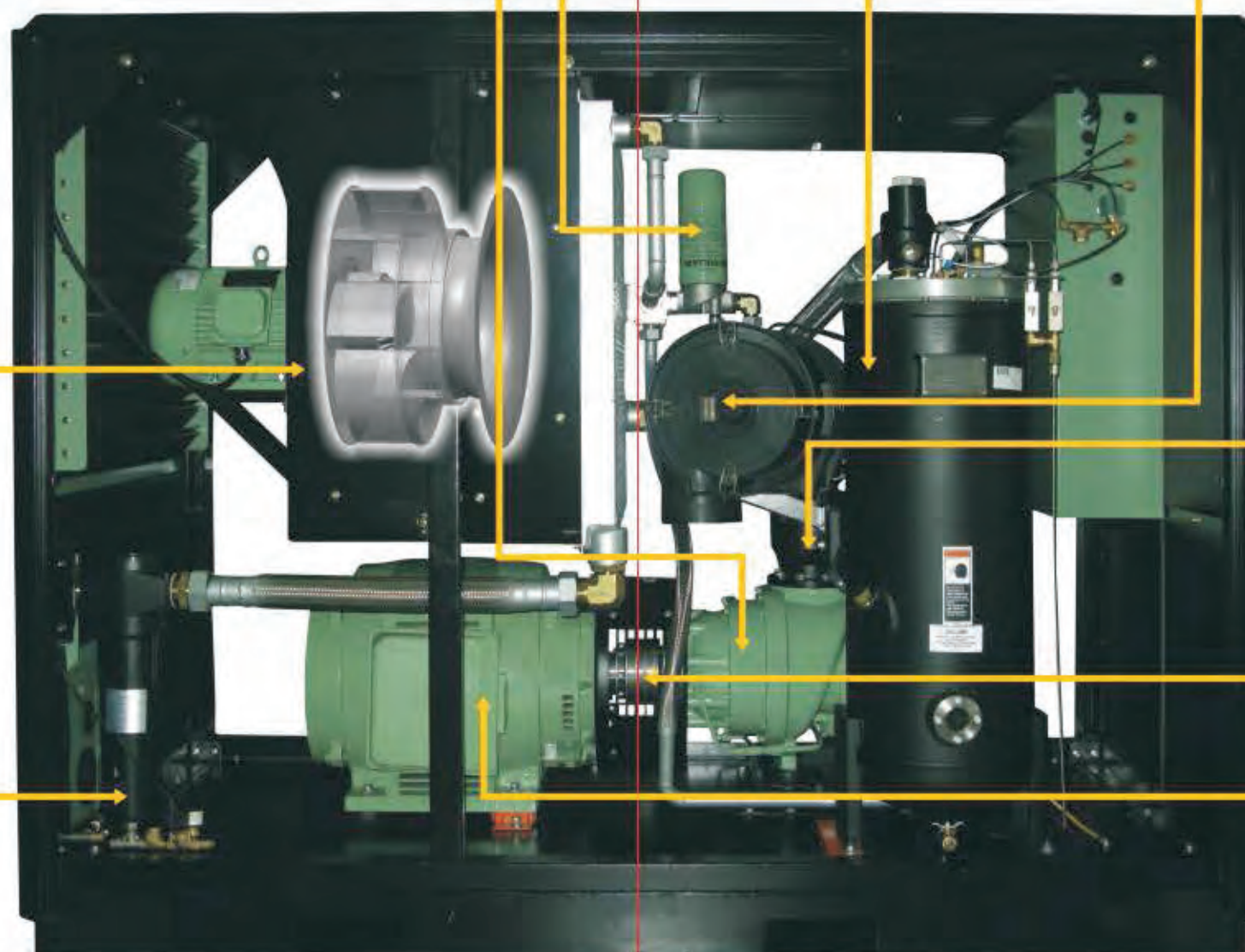
- Decrease the times of load and unload, low running cost
- Longer life for seldom impulsive load
- Realize compressor air discharge capacity with demand 0%-100% stepless regulation
- Better meet the air demand of customer to save energy consumption

### Elastic Coupling

- Avoiding impulsive load, high efficient driving and reliable operation
- Install or remove the element radially and easy to maintain for shaft seal

### High Efficiency Motor

- Good heat dissipation capacity, B class temperature rise, insulation and not easy aging
- High quality bearings with small erosion for longer life to ensure long-term continuous trouble-free operation



Notes: the above figures are for reference only, subject to the real machine.



# Sullair WS Series Air Compressor with Variable Capacity

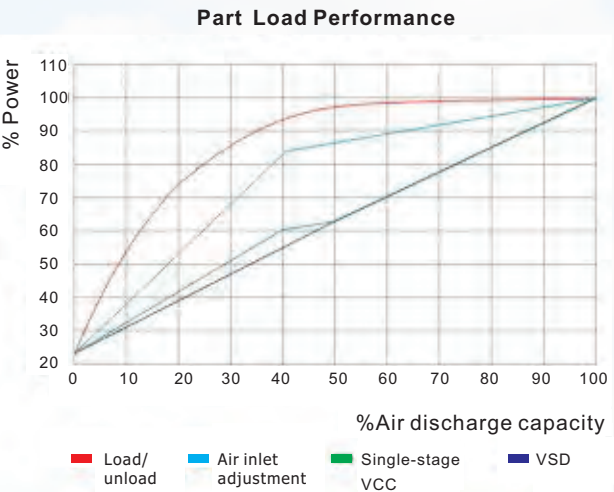
## Sullair Variable Capacity Control Technology

The air end runs at optimum speed and the rotor maintains optimum efficiency throughout the full variable outrange. Sullair WS series VCC compressors react instantly to rapid changes in demand. The effective rotor length is progressively reduced as the demand is reduced which meets customers' require. In the circumstance of the VCC maximum, it provides the most efficient part-load control system to 50% output. This system is extremely simple and provides a cost effective, energy-efficient control alternative.



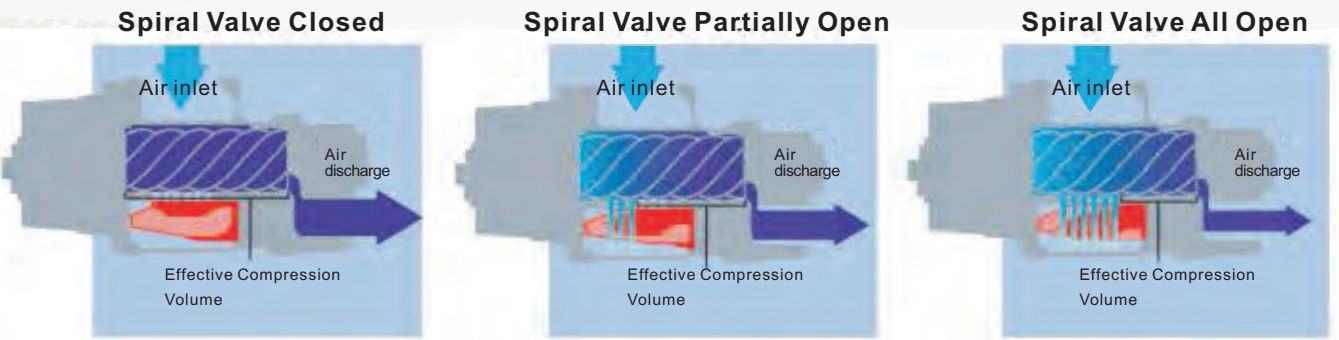
## Variable Capacity Control Is the Superior Alternative to Other Compressor Control Methods.

The chart below is a representation of nominal control systems for generic comparative purposes. Please contact sales representative or local distributors if precise comparison is needed.



## Sullair Variable Capacity Control Can:

- Match compressor output with demand exactly. 50%-100% variable adjustment
- When it comes to part load, power saving can be up to 17%.
- Stable discharge pressure



# Sullair WS Series VSD Compressor

## VSD Controller

- Integrated into the vacuum machine, integrated design, optimized performance
- Modular design, very convenient and user friendly application and maintenance
- PID self-adjustment control function realizes optimization of controller specifications.
- Innovative cooling method and coated circuit boards, significantly improving the stability and service life of the VSD controller
- Provides powerful communication functions to support Profibus DP, Profinet. USS/Modbus RTU, etc
- USB interface to enable local debugging and troubleshooting easier
- Provides MMC/SD card slot for time saving when cloning parameters
- Integrated safety protection function satisfies higher safety requirement for customers



## Sullair Special High Efficiency Frequency Conversion Motor

- Adopts special electromagnetic design to control the harm from higher harmonic to motor effectively and increase the low frequency output torque.
- Using a dedicated inverter motor painted wire, strengthening the insulation and turn insulation strength, especially insulation capability of withstanding voltage is greatly enhanced
- Special cooling method ensures the motor

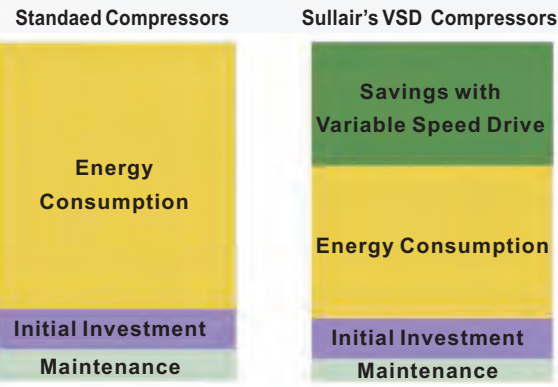
- running at low frequency also has good self-cooling capacity, extending motor life
- Effectively avoids the phenomenon of low-frequency resonance



## Frequency Soft Start, Unrestricted Startup and Shutdown

- No need star-delta or other starters and no need to control the number of hot or cold starts.
- Reduces electrical character's requirement and saving costs
- Avoids the impulse current caused by start directly, extends the equipment life.

## Your Compressed Air System can Decrease Your Electrical Cost: Realize 35% Energy Savings within 5 Years

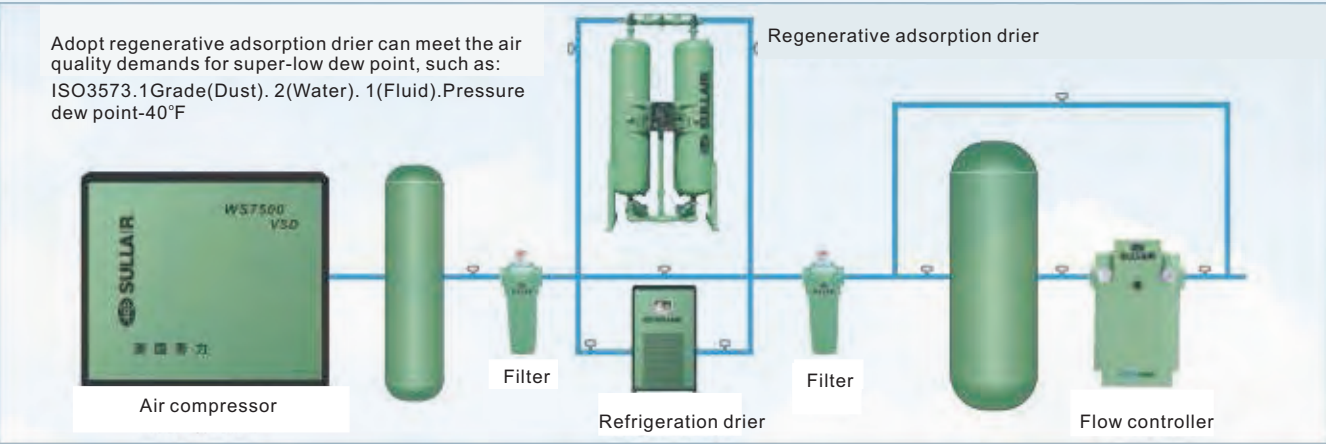




Sullair Compressed Air System

Sullair compressed air system includes: air compressor, refrigerated dryer or desiccant dryer, compressed air filter and flow controller. Sullair provides corresponding compressed air system configuration according to different compressed air quality requirement.

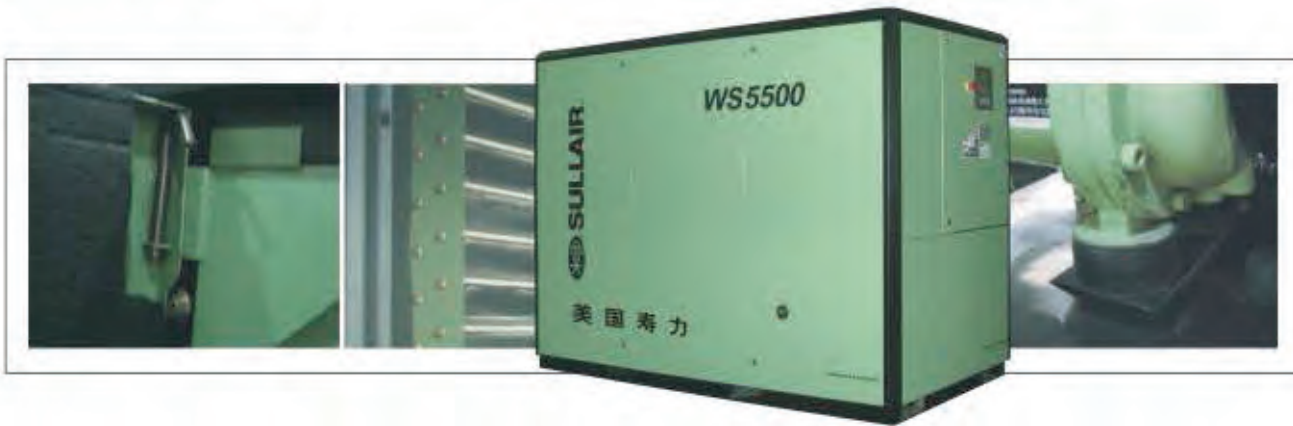
Sullair guarantees that our devices are as good as gold. The air from this Sullair compressed air system meets the most stringent ISO 8573.1:2001 for air quality, satisfies air application requirement for customers in the key sites.



Concern for the Environment

Sullair not only focuses on providing high efficiency air compressors product, also commits to environmental conservation. Sullair WS series air compressor posse the following environmental performance.

- Fully-sealed protection pan
- Low fluid consumption and no disposal issues.
- Low noise for rubber isolators.



Technical Specifications

WS 1800-7500 Power Frequency Air Compressor

Model	Motor HP    KW		Max. discharge pressure				Weight-kg	Outlet connection size
			7.6 bar	8.6 bar	10.6bar	12.6 bar		
			capacity-m <sup>3</sup> /min					
1800	25	18	3.2	2.9	2.6	2.2	610	Rc1-1/2
2200	30	22	3.75	3.55	3.1	2.7	680	Rc1-1/2
3000	40	30	5.1	4.75	4.1	3.4	820	Rc1-1/2
3700	50	37	6.8	6.3	5.8	5.1	1020	Rc1-1/2
4500	60	45	8.5	7.8	6.9	5.65	1249	G2
4500PS	60	45	8.6	7.8	-	-	1249	G2
5500	75	55	10.5	9.5	8.6	7.6	1297	G2
5500P/PS	75	55	11.2	10	-	-	1297	G2
7500	100	75	13.5	12.5	11.1	-	1350	G2
7500P/PS	100	75	14.7	13.7	12.4	10.8	1488	G2

WS 1800-7500 VSD Air Compressor

Model	Motor HP    KW		Max. discharge pressure				Weight-kg	Outlet connection size
			7.6 bar	8.6 bar	10.6bar	12.6 bar		
			Air discharge capacity-m³/min					
1800VSD	25	18	-	1.0-3.0	0.8-2.6	0.7-2.2	610	Rc1-1/2
2200 VSD	30	22	-	1.2-3.6	1.0-3.1	0.9-2.8	680	Rc1-1/2
3000 VSD	40	30	-	1.6-4.75	1.4-4.25	1.2-3.7	820	Rc1-1/2
3700 VSD	50	37	2.3-6.8	2.1-6.3	1.9-5.8	1.7-5.1	1020	Rc1-1/2
4500 VSD	60	45	1.95-8.5	1.92-7.93	1.9-6.9	1.78-5.65	1249	G2
5500 VSD	75	55	2.52-10.6	2.54-9.85	2.13-8.6	2.09-7.73	1297	G2
7500 VSD	100	75	3.23-13.5	3.29-12.55	2.79-11.1	-	1350	G2
7500P VSD	100	75	3.55-14.8	3.56-13.7	2.71-12.0	2.71-10.8	1488	G2
7500PS VSD	100	75	1.78-14.8	1.78-13.7	1.36-12.0	1.36-10.8	1488	G2

Dimensions (mm)

Model	Length	Width	Height	Cooling water pipe connection size
1800, 2200 series	1350	800	1350	-
3000, 3700 series	1574	875	1562	-
4500, 5500, 7500 series	2300	1180	1750	G1-1/4

Notes:

1. WS18-37 series are air-cooled model and WS45-75 series include air-cooled model and water-cooling model.
2. Air discharge capacity is measured at rated discharge pressure in accordance with International Standards GB3853 in testing (equivalent to ISO1217 Appendix C)