

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.



Sullair LS Screw Air Compressor 90-450kW



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 distributors to seek more help. To acquire local Sullair distributors' contact information, see the below website or make a phone call.

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The Only Air Compressor Manufacturer to Concentrate Exclusively on Screw Technology

Since 1965, Sullair Corporation has been leading the development in the field of screw compression and vacuum technology. With over 50-year experiences, Sullair has been making a new round of innovation on products. 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 technology.

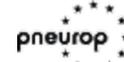
Sullair products are universally known around the world for its outstanding craftsmanship and superior quality. Sullair professionals provide you LS series 90-450KW air compressor with simple structure, easily operation and great performance by optimal design while to ensure the amazing reliability, stability and related performance specifications. In fact, LS series air compressor has made the new standard for this industry in every aspect.



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

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

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



Energy Saving Certification

Most energy efficiency indexes of LS series air compressors could comply with requirements of national evaluating values of energy conservation, and some models achieve Class I energy efficiency standard.



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 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.



Distinctive Features of LS Series Air Compressor

Standard Configuration of LS Series Air Compressor

- ✓ High-quality screw assembly
- ✓ 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
- ✓ NEMA 4 high efficient motor, excellent design for motor cooling
- ✓ Large capacity of dust containing, low resistance and high precision air filter
- ✓ SRF 1/4000 fluid, suitable for poor working condition
- ✓ 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 Sullube Fluid + 5-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 Sullube fluid and operate according to Sullair relevant instruction, Sullair will provide 5-year warranty for air end of screw compressor.



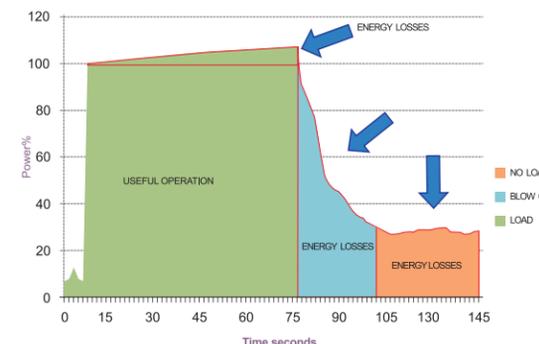
5-year Warranty for Screw Assembly

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 Regulation Valve

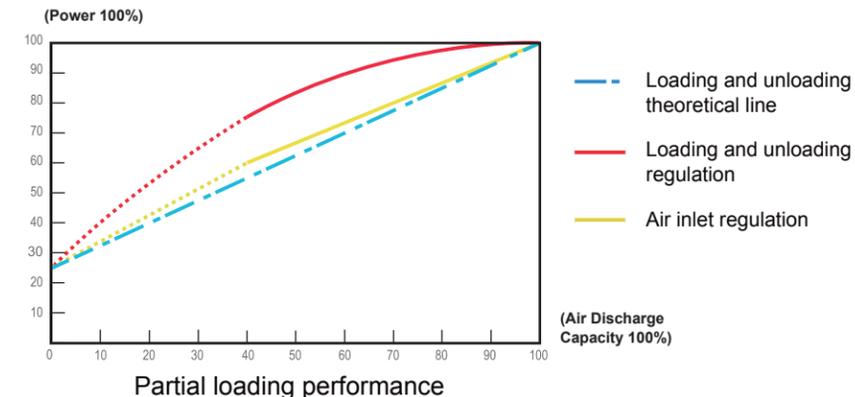
Traditional loading and unloading regulation mode will make energy loss. If customer uses less than rated air capacity during the air compressor loading process, it will make energy loss before reaching unloading pressure. Moreover, large amount of energy loss in unloading and no-load process will be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



Reasons for Energy Loss of Loading and Unloading Regulation

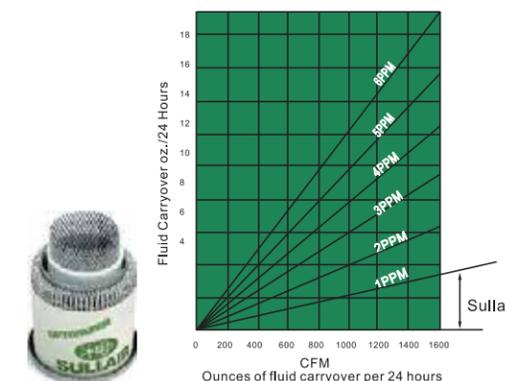
- Pressure difference of unloading
- Power fall delay after unloading
- Unloading power (maintaining the lowest tank pressure)

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' air needs better and save energy. Meantime, it can effectively reduce the impact of loading and extend its service life.



Two-stage Fluid Separator Element

Filter elements of the traditional fluid/air separators have the function of single filtration with disadvantage of less than 3PPM air discharge oil content and general short service life, etc. However, filter element of standard optional two-stage fluid/air separator from Sullair adopts two-stage embedded separation, and the folding professional filter materials double the filtration area. The air discharge oil content can reach below 2PPM and the service life is up to more than 8000 hours. So Sullair could provide customers with cleaner compressed air and at the same time reducing the load of the post-processing equipment.



LS Series Air Compressor

1 Air End

Sullair screw compressor air end adopts paired and processed rotors with high precision. When rotating, the slot line of the male rotor tooth root and the pitch line of the female rotor tooth crest form the film immediately, which thus reduce internal leakage. Meanwhile, high quality bearing with patented design, low noise and service life up to 100,000 hours, as well as the design of oil storage tank for bearing fluid guarantee the lubrication at the instant of start-up, which effectively reduce dry friction and prolong the service life of air end.



2 Cooling Fan System

Cooling Fan System drives two high efficient low noise axial fans by two high efficient and energy saving motors. Independent fluid cooler and aftercooler use non-weld connection, which effectively avoid contact surface tension due to different coefficients of thermal expansion, thus cause damage and fluid leakage, etc. to the coolers. The design of large allowance cooler guarantees the steady operation of the machine. The reserved cleaning and wiping orifice besides cooler is easy to maintain and service. Each baffle, equipped with sound absorbing foam of special effect, further reduces the noise of the machine.



3 Pipeline Connection

All pipeline connections adopt the most effective 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

Thermal valve and oil filter base adopt integrated design. The oil filter adopts environmental protection filter material with filtering precision over 99.5%. The oil filter base is designed with pressure difference alarm function.



6 Fluid/Air Separator

Fluid/air separator adopts upper cyclone separation structure, which effectively improves pre-separation effect. Humanized design of rotatable end cover for fluid/air separator makes filter replacement easier by only taking down the fixed bolt, and twisting the rotary table aside, which also makes its maintenance and service easier.



Flexible coupling with guard adopted in the design can effectively reduce and absorb the vibration transfer between air end and motor. The disassemble and assemble structure design together with delicate design of connecting cylinder can realize forever alignment. It brings much convenience for the maintenance.



7 Air Filter

High precision air filter design with pre-separation structure and large capacity of dust containing and element with low initial pressure drop not only reduce the energy consumption but also effectively guarantee the steady running of the machine in harsh environment.



8 Air Inlet Valve

Dedicately designed inlet butterfly valve and blow-off valve assembly with automatic check capacity regulation functions effectively reduce the frequency of loading/unloading and impact of system loading to meet customers' needs better.



9 Motor

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



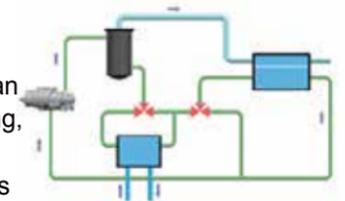
10 Computer Controller

With humanized parameters regulation function based on actual air consumption condition of the customer; With colorful large screen displaying real-time clock and power-on time; With 19 protection functions such as motor current test, busbar voltage test and phase sequence test. With 15 alarm functions including air filter blocking, oil filter blocking, etc.



11 Heat Recovery System

Optional built-in heat recovery system with its heat recovered can be used for pre-heating of painting, boiler and processing, etc. and providing hot water for employees to take a shower.

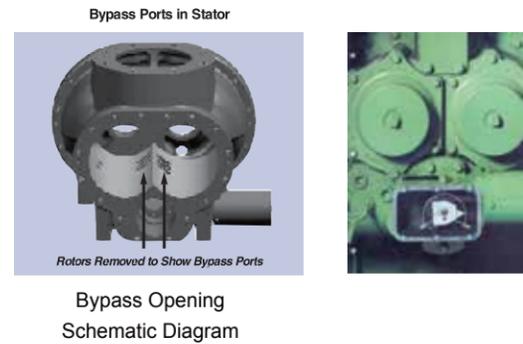


Further Energy Saving Solutions

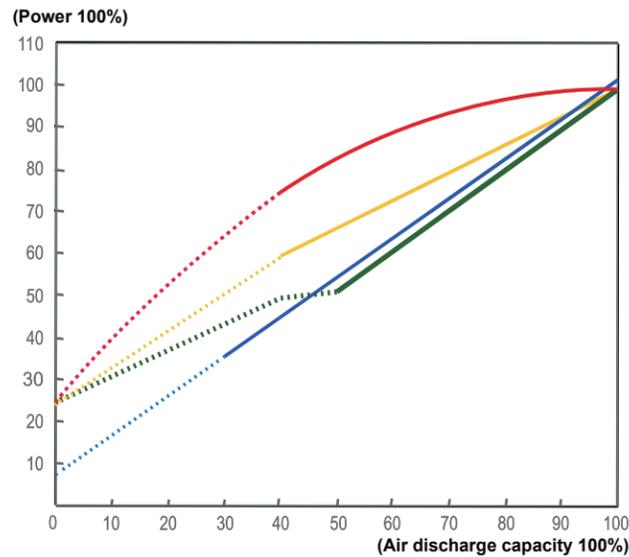
Sullair LS Series Variable Capacity Control (VCC) Air Compressor

Sullair Variable Capacity Control (VCC) Technology

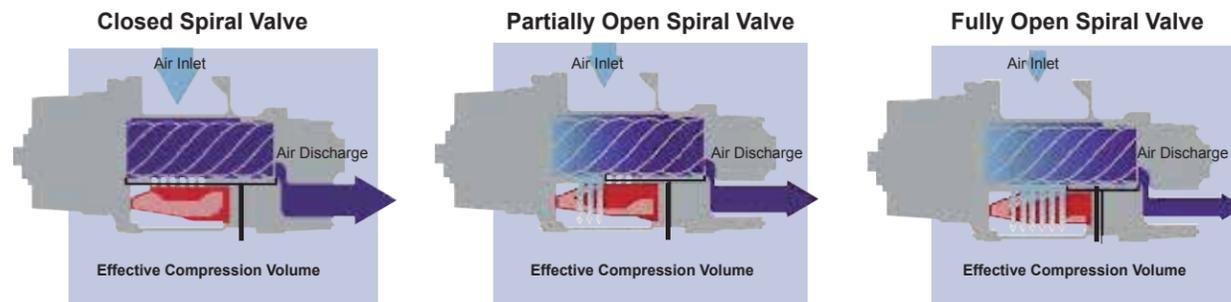
Compared with traditional air inlet regulation, Sullair's unique patented technology spiral valve regulation is adjusted by changing the volume of compression chamber. Once customer's air use is less than the rated air discharge capacity, the spiral valve starting action to reduce the volume of compression 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.



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



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



Sullair LS Series Variable Speed Drive (VSD) 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 caused 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, and effectively avoids low-frequency resonance.

VSD Soft Start, Unlimited Starts and Stops

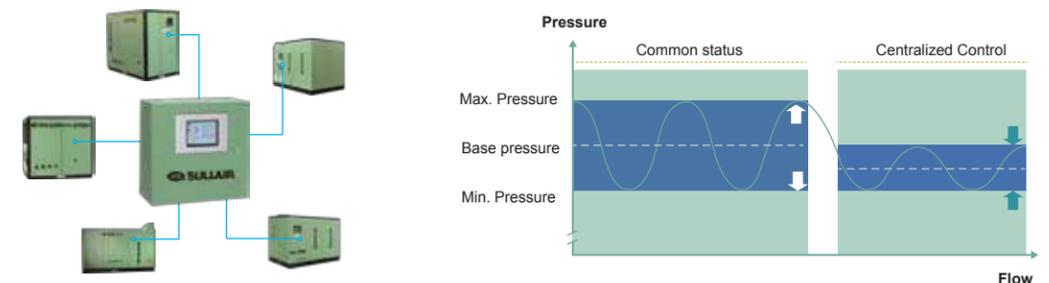
No need start-delta start or other starting device, and no need to control the number of cold and hot starts, avoid impulse current at direct start-up and extend service life of the equipment.

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) to 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 EO (Energy Optimization) 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

LS90-450kW Performance Parameter

Model	Motor		Maximum Air Discharge Pressure					Weight (kg)		Outlet Dimension
	HP	kW	5.5bar	7.5bar	8.5bar	10.5bar	13.0bar	Water-cooled	Air-cooled	
			Air Discharge Capacity m ³ /min							
LS90	-	90	20.0	16.9	15.2	14.2	12.9	2480	2520	DN65
LS110	-	110	-	21.1	19.6	16.3	14.6	2500	2540	DN65
LS110P	-	110	24.9	-	-	-	-	3100	3140	DN65
LS132	-	132	28.0	24.7	23.2	20.5	16.6	3100	3140	DN65
LS160	-	160	-	30.1	28.4	24.4	20.5	3100	3140	DN65
LS20S-200	200	-	-	27.8	26.0	22.8	18.7	3100	3140	DN80
LS132P	-	132	31	-	-	-	-	4400	5000	DN100
LS160P	-	160	35.5	-	-	-	-	4400	5000	DN100
LS200	-	200	41.8	36.4	33.6	30.1	26.0	4600	5160	DN100
LS250	-	250	-	43.5	41.6	38.3	32.8	4850	5430	DN100
LS280	-	280	-	50.1	49.5	43.0	38.0	5000	5500	DN100
LS25S-350	350	-	-	48.0	44.6	41.0	33.3	4890	5470	DN100
LS250P	-	250	55.8	-	-	-	-	7450	7950	DN100
LS315	-	315	66.0	58.5	53.5	46.8	39.8	7500	8000	DN100
LS355	-	355	-	65.6	62.6	52.4	46.1	7800	8300	DN100
LS355P	-	355	74.2	-	-	-	-	10500	-	DN125
LS400	-	400	80.2	74.0	70.2	61.7	53.6	10500	-	DN125
LS450	-	450	-	-	80.1	66.0	56.8	10500	-	DN125

Note: LS90-160, LS20S-200, LS110P, LS132P, LS160P, LS200-280, LS25S-350, LS250P, LS315-355 series products are available for VSD compressor.

Equipment Dimensions

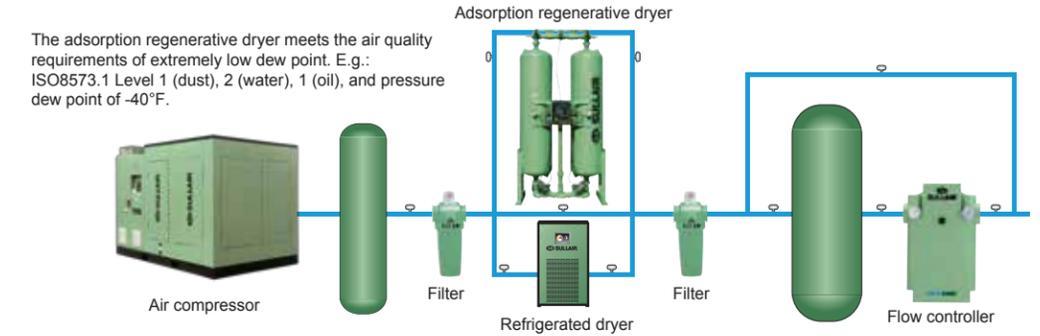
Model	Cooling Method	Length mm	Width mm	Height mm	Dimension of Cooling Water Pipe Connection
LS90, LS110	Water-cooled	2500	1500	1786	Rc1-1/2
LS90VSD, LS110VSD	Water-cooled	2500	1500	1900	Rc1-1/2
LS90, LS110	Air-cooled	2500	1500	2017	-
LS90VSD, LS110VSD	Air-cooled	2500	1500	2017	-
LS110P, LS132, LS160, LS20S-200	Water-cooled	2650	1630	1900	Rc1-1/2
LS110PVSD, LS132VSD, LS160VSD, LS20S-200	Water-cooled	2650	1630	2100	Rc1-1/2
LS110P, LS132, LS160, LS20S-200	Air-cooled	2650	1630	2160	-
LS110PVSD, LS132VSD, LS160VSD, LS20S-200	Air-cooled	2650	1630	2160	-
LS160P, LS132P, LS200, LS250, LS280, LS25S-350	Water-cooled	3300	2200	2150	Rc2
LS160PVSD, LS132PVSD, LS200VSD, LS250VSD, LS280VSD, LS25S-350VSD	Water-cooled	3300	2200	2400	Rc2
LS160P, LS132P, LS200, LS250, LS280, LS25S-350	Air-cooled	3300	2200	2320	-
LS160PVSD, LS132PVSD, LS200VSD, LS250VSD, LS280VSD, LS25S-350VSD	Air-cooled	3300	2200	2400	-
LS250P, LS315, LS355	Water-cooled	4200	2200	2220	Rc2-1/2
LS250PVSD, LS315VSD, LS355VSD	Water-cooled	4200	2200	3370	Rc1-1/2
LS250P, LS315, LS355	Air-cooled	4200	2200	2450	-
LS250PVSD, LS315VSD, LS355VSD	Air-cooled	4200	2200	2600	-
LS355P, LS400, LS450	Water-cooled	4500	2200	2190	G2-1/2

Notes: 1. Standard configuration of 90-280kW model is 380V motor, 315-450kW model is 6kV motor.
 2. Air discharge capacity is measured under the rated pressure according to the GB3853 (the same as ISO 1217 Appendix C)
 3. All types of high voltage switch cabinet should be configured 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 minimum energy while meeting the compressed air requirements of customers' critical locations.



Sullair Precision Filter

Compressed air precision filter is the post-processed equipment specially researched, developed and manufactured by Sullair based on market requirements.

Filtering Level	MPF/CPF	MPH/CPH	MPC/CPC			
	Used to remove larger particle and dust, water drop, water mist and oil drop	Used to remove micro- particle and dust, water drop, water mist and oil drop	Used to remove oil vapor and peculiar smell			
Particle level	1μ	0.01μ	N/A			
Oil level	0.5ppm	0.01ppm	0.003ppm			
Model MPF/MPH/MPC	Flow m ³ /min	Connection pipe diameter	Outline dimension (mm)			Net weight (kg)
			Length	Width	Height	
525	15	G 2	150	51	510	6.6
630	18	G 2	150	51	510	6.7
735	21.5	G 2	150	51	510	7.1
875	25	G 3	188	66	702	12
1225	35	G 3	188	66	702	12.7
1400	40	G 3	188	66	702	14.14
CPF/H/C-1700	48	DN100	450	210	1150	90
2200	63	DN100	450	210	1150	90
2650	75	DN100	500	230	1200	120
3100	87	DN150	580	270	1300	160

Sullair Refrigerated Dryer

Compressed air precision filter is the post-processed equipment specially researched, developed and manufactured by Sullair based on market requirements.

Model	Treatment capacity (m ³ /min)	Rated power kW	Pipe Diameter of Compressed Air Inlet and Outlet	Outline dimension (mm)			Net weight (kg)
				Length	Width	Height	
SRD-130	13.5	2.1	DN65	1200	650	1150	260
SRD-170	17	2.1	DN65	1200	650	1200	280
SRD-230	23	2.4	DN80	1250	700	1400	330
SRD-270	27	3.1	DN80	1400	750	1400	400
SRD-350	35	3.8	DN80	1600	900	1530	550
SRD-450	45	4.6	DN100	1800	900	1720	780
SRD-550	55	7.5	DN125	1850	1000	1750	820
SRD-650	65	9.8	DN125	2100	1200	1850	930
SRD-750	75	11.8	DN125	2200	1200	1900	1020
SRD-850	85	11.8	DN150	2200	1200	2000	1150

Note: Under standard working condition, the inlet temperature is 45°C, inlet pressure is 0.7Mpa, ambient temperature is 38°C and pressure dew point is 2-6°C.