

Sullair Oil Lubricated Compressors (4-450kW)
Hitachi Oil Free Compressors (1.5-240kW)



**Air
Compressors**



AS 04-110 series Air Compressor

Outstanding Screw Rotors

- The screw rotors manufactured by matching posses excellent consumption efficiency.
- The design of slot line and pitch line reduces the inner leakage.

Compressor Air-End

- Patented design, low noise and high quality bearings (longer life for 100,000 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.



Elastic Coupling

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

Fluid-air Separation System

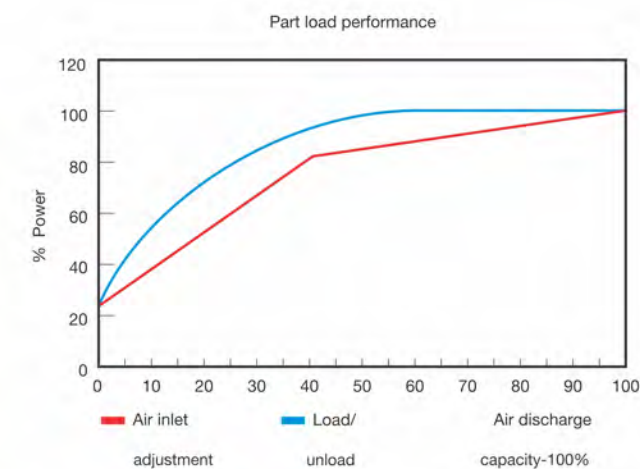
- Large capacity and highly efficient fluid-air separator with special design inside, multistate separation to make good separation result.
- The pressure decreased lowly and saving almost 1% power consumption.

Air Inlet Regulating Valve

- Decrease the times of load and unload, low running cost.
- Longer life for seldom impulsive load.

Air Capacity Regulation

- Realize compressor air discharge capacity with demand 0%-100% stepless regulation.
- Better meet the air demand of customer to save energy consumption.

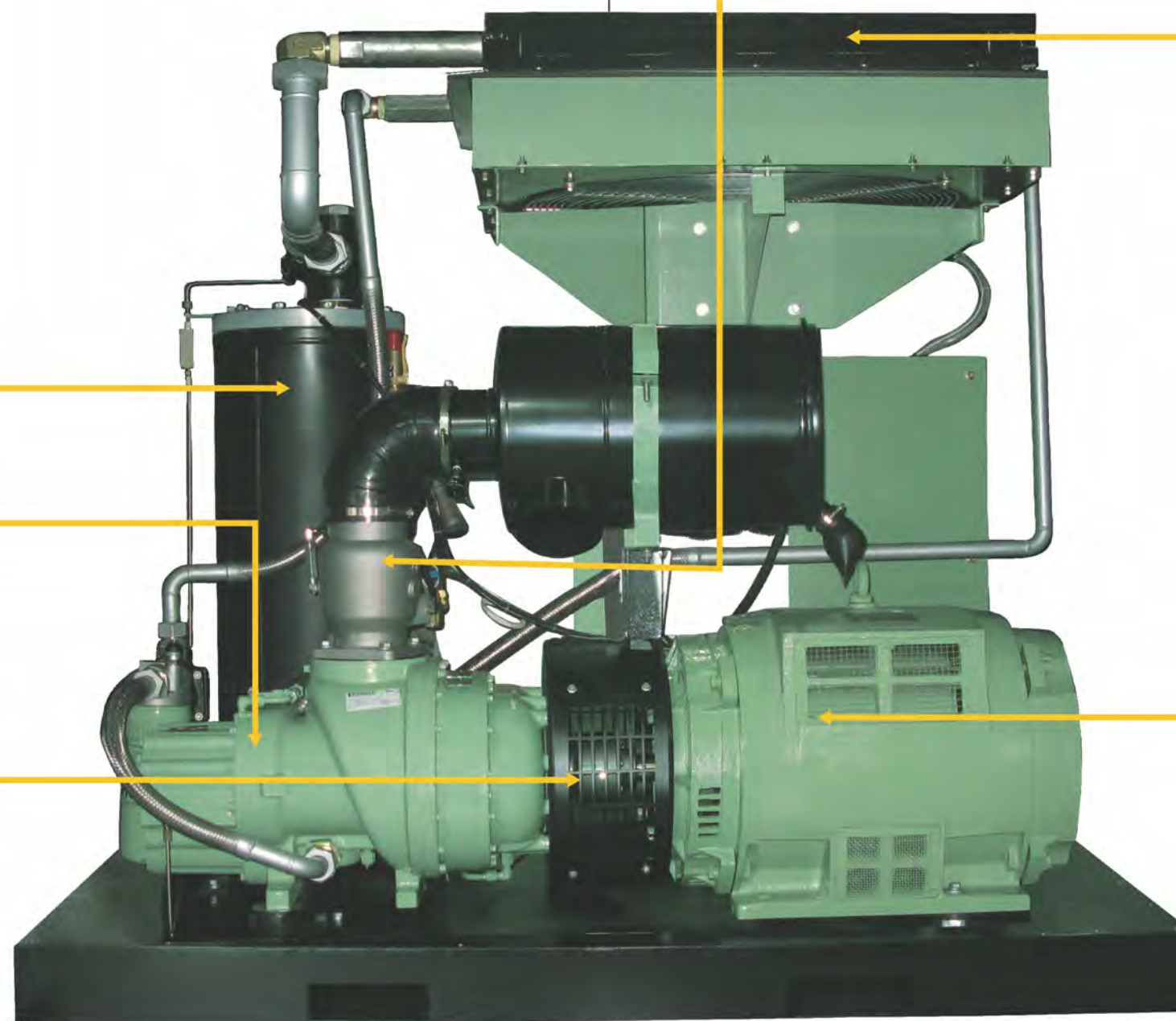


High Efficiency Cooling System

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

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.



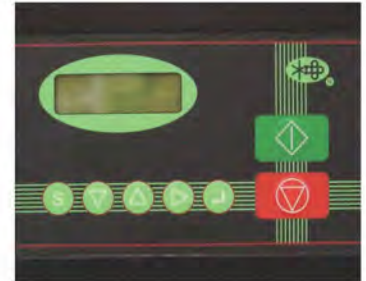
NOTE: The above figures are for reference only, subject to the real machine.



AS 04-110 series Air Compressor

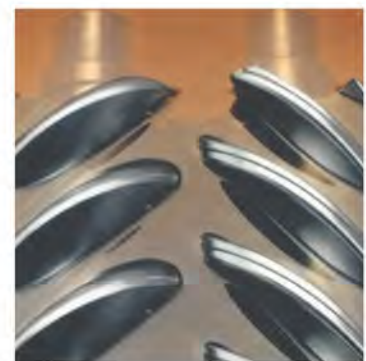
Microcomputer Controller

- Temperature, pressure and other specifications can be displayed and warned in real time.
- Failure logging query to make maintenance and analysis easily.
- LCD screen and simple and easy to control and access.



Sullair Special Fluid

- High oxidative stability with longer life.
- Good compatibility with system, lower operation cost.
- High temperature stability, used widely.
- Low solidifying point ensure good performance.



Concern for the Environment

Sullair not only focuses on providing high efficiency air compressors product, also committed to environmental protection. Sullair AS series air compressor has the following environmental performance.

- Fully-sealed protection pan will avoid the compressor fluid spatter during maintenance to protect the scene environment.
- The core of fluid filter is of non-metallic design that can be disposed easily with low processing cost.
- The specialized optimized lubrication system, low fluid consumption reduces use costs and disposal waste fluid cost.
- Air-End, motor and other component use rubber absorber effectively reduce the shaking intensity and reduce the noise.



Technical Specifications

■ AS 04-15 Air Compressor

Model	Motor		Max. Discharge Pressure			Weight-kg	Outlet Connection Size
			8.0bar	10.0bar	13.0bar		
	HP	kW	Air Discharge Capacity-m³/min*				
AS04	5	4	0.58	0.5	0.4	228 (without air tank)	Rc3/4
AS05	7.5	5	0.83	0.75	0.6	238 (without air tank)	Rc3/4
AS07	10	7	1.07	1.01	0.85	248 (without air tank)	Rc3/4
AS11	15	11	1.8	1.55	1.21	350 (without air tank)	Rc1
AS15	20	15	2.28	2.05	1.7	365 (without air tank)	Rc1

■ AS 18-110 Air Compressor

Model	Motor kW	Max. Discharge Pressure				Weight-kg	Outlet Connection Size
		7.6	8.6	10.6	12.6		
AS18	18	3.2	2.9	2.6	2.2	580	Rc1
AS22	22	3.75	3.55	3.1	2.8	650	Rc1
AS30	30	5.1	4.75	4.1	3.4	900	Rc1-1/2
AS37	37	6.8	6.3	5.8	5.1	1000	Rc1-1/2
AS45	45	8.5	7.8	6.9	5.65	1380	Rc2
AS55	55	10.5	9.5	8.6	7.6	1410	Rc2
AS75	75	13.5	12.5	11.1	10.2	1520	Rc2
AS90	90	16.9	15.5	14.2	12.8	2100	Rc2
AS110	110	20.1	19.6	16.5	14.6	2300	Rc2

■ AS 30-110 VSD Air Compressor

Model	Motor kW	Max. Discharge Pressure				Weight-kg	Outlet Connection Size
		7.6	8.6	10.6	12.6		
AS 30	30	-	1.6 - 4.75	1.4 - 4.25	1.2 - 3.7	980	Rc1 - 1/2
AS 37	37	2.3 - 6.8	2.1 - 6.3	1.9 - 5.8	1.7 - 5.1	1080	Rc1 - 1/2
AS 45	45	1.95 - 8.5	1.92 - 7.8	1.90 - 6.9	1.78 - 5.65	1480	Rc2
AS 55	55	2.52 - 10.6	2.54 - 9.85	2.13 - 8.6	2.09 - 7.73	1510	Rc2
AS 75	75	3.25 - 13.5	3.29-12.55	2.79 - 11.1	-	1620	Rc2
AS 90	90	4.2 - 16.9	4.0 - 15.5	3.4 - 14.2	3.6 - 12.8	2100	Rc2
AS 110	110	5.5 - 20.1	5.4 - 19.6	4.0 - 16.5	4.0 - 14.6	2300	Rc2

■ Dimensions (mm)

Model	Length-mm	Width-mm	Height-mm
AS04, AS05, AS07 Series (without air tank)	836	546	940
AS04, AS05, AS07 Series (with air tank)	1210	546	1460
AS11, AS15 Series (without air tank)	998	618	1035
AS11, AS15 Series (with air tank)	1460	618	1642
AS18, AS22 Series	1340	740	1300
AS30, AS37 Series	1600	860	1440
AS45, AS55, AS75 Series	2000	1200	1680
AS90, AS110 Series	2500	1400	1800

Note:

1. All AS04-75 series are air-cooled model and AS90-110 series include air-cooled model and water-cooled model.
2. Air discharge capacity is measured at rated discharge pressure in accordance with International Standards Gb3853 in testing (equivalent to ISO1217 Appendix C).

LS-series Air Compressor

1 Air-End

Sullair rotary screw using high precision rotor with matching process, through rotate of rabbit joint line of positive rotor's gear root and pitch line of negative rotor's gear top to make oil slick quickly and reduce internal leak. At meantime, Sullair choose high quality bearing with patented design, low noise and design life over 100,000 hours, the design for bearing lubricant storage guaranteed lubricant at start moment, reduce dry friction efficiently and extend working life of Air-End.



2 Cooling Fan System

Cooling fan system is two efficient and low noise fans which are driven by two energy efficient motors. Nonwelded connection of independent oil cooler and after cooler can effectively avoid contact surface full caused by thermal expansion coefficient difference, and can also avoid cooler damaged and oil leak. The large capacity design for cooler ensured compressor operate stably. Blow and clean hole reserved by the two sides of cooler are easy for maintenance and repair. Every baffle has special sound-absorbing sponge to reduce noise.



3 Pipe Connection

All pipes connection is used efficient O-ring seal.

4 Moisture Separator

Moisture separator with automatic drain. Large capacity and good separation effect.



5 Thermal Valve and Oil Filter Base

Integrated design for thermal valve and oil filter. Environmental filter material which filtering accuracy over 99.5%. Oil filter base has pressure difference alert function.



6 Tank

Structure of oil and air separator in upper cyclone separation can efficiently enhance pre-separation effect. Humanity design for end cover rotate of air-oil separator can make maintenance more, just fastening bolt and rotate the plant to other side to replace the filter element.



7 Air Filter

The design with high precision of air filter is used pre-separation structure. Filter element with high capacity and low pressure drop. Reduce the energy consumption of compressor and at meantime ensure the stable operation of compressor under bad working condition efficiently.



8 Air Inlet Valve

The design with air inlet butterfly valve and modulation valve which have automatic check back and control function can reduce frequency of loading/unloading and impact of system loading efficiently to meet customer need better.



9 Motor

High efficiently motor. F class insulation, B level temperature rise. Standard configuration with thermistor can ensure circuit stability efficiently.



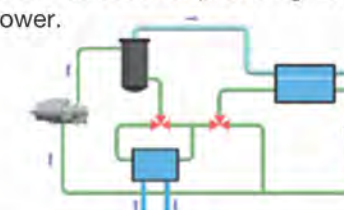
10 Controller Panel

Human nature parameters adjusting function on the actual situation of customer. Color large screen with real-time clock and power time display. 19 protective function including motor current detection, generatrix voltage detection and phase sequence detection. 15 per-alert including air filter blocking and oil filter blocking.



11 Heat Recovery System

Options on heat recovery system built-in, the recovery heat can be used for pre-heating of painting, boiler and process, and also can be used for providing hot water of employee shower.





Technical Specifications

■ LS 90-400 kW Air Compressor

Model	Max. Discharge Pressure					Weight-kg		Outlet Connection Size	VSD Option Available
	kW	7.5	8.5	10.5	13	WC	AC		
LS 90	90	16.9	15.2	14.2	12.5	2540	2540	Rp2	YES
LS 110	110	21.1	19.6	16.3	14.6	2540	2540	Rp2	YES
LS 132	132	24.7	23.2	20.5	16.6	3200	3200	Rp2 - 1/2	YES
LS 160	160	28.8	28.6	27	21.7	3450	3400	NPT 3"	YES
LS 180	180	37.5	35.4	31.3	24.1	4850	5430	DN 100	YES
LS 200	200	41	40	36	29.3	4950	5530	DN 100	YES
LS 250	250	46	45	40.8	33.8	5050	5630	DN 100	YES
LS 280	280	50.1	49.5	43	38	5000	5500	DN 100 PN1.6	YES
LS 315	315	58.5	53.5	46.8	39.8	7500	8000	Rc 4	YES
LS 355	355	65.6	62.6	52.4	46.1	7800	8300	DN 125	-
LS 400	400	74	70.2	61.7	53.6	10500	-	DN 125	-

Note: Spiral Valve Option Available, Contact Sales Team

■ Dimensions and Connection

Model	Cooling Method	Length (mm)	Width (mm)	Height (mm)	Pipe Connection
LS90, LS 110	WC	2,500	1,500	1,786	Rc1-1/2
LS90VSD, LS110VSD	WC	2,500	1,500	1,900	Rc1-1/2
LS90, LS 110	AC	2,500	1,500	2,017	-
LS90VSD, LS110VSD	AC	2,500	1,500	2,017	-
LS132, LS160, LS20S-200	WC	2,650	1,630	1,900	Rc1-1/2
LS132VSD, LS160VSD, LS20S-200	WC	2,650	1,630	2,100	Rc1-1/2
LS132, LS160, LS20S-200	AC	2,650	1,630	2,160	-
LS132VSD, LS160VSD, LS20S-200VSD	AC	2,650	1,630	2,160	-
LS160p, LS200, LS250, LS280, LS25S-350	WC	3,300	2,200	2,150	Rc2
LS160pVSD, LS200VSD, LS250VSD, LS280VSD, LS25S-350VSD	WC	3,300	2,200	2,400	Rc2
LS160p, LS200, LS250, LS280, LS25S-350	AC	3,300	2,200	2,320	-
LS160pVSD, LS200VSD, LS250VSD, LS280VSD, LS25S-350VSD	AC	3,300	2,200	2,400	-
LS250p, LS315, LS355	WC	4,200	2,200	2,220	Rc2-1/2
LS250pVSD, LS315VSD, LS355VSD	WC	4,200	2,200	2,370	Rc2-1/2
LS250p, LS315, LS355	AC	4,200	2,200	2,450	-
LS250pVSD, LS315VSD, LS355VSD	AC	4,200	2,200	2,600	-
LS355p, LS400, LS450	WC	4,500	2,210	2,200	G2-1/2

Remarks:

- 90-280kW series with 380V motor, 315-450kW series with 6000V motor.
- Capacity is measured under the rated discharge pressure according to the GB3853 (same as ISO 1217, attached C).
- All types of high voltage switch starter should be disposed separately.



Sullair Compressed Air System

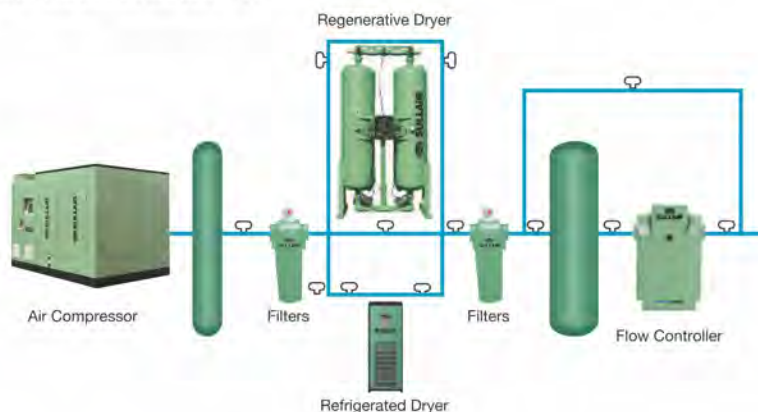
Sullair compressed air system including: air compressor, refrigerated dryer, adsorption dryer, compressed air filter and IFC controller.

According to different requirement of compressed air, Sullair can provide different solution.

Sullair compressed air can meet stringent air quality standard ISO8573.1:2001, compressed air is critical to meet the needs of the customer premises while consuming minimal energy.

Use regenerative refrigerated dryer, which can meet the requirement of a very low dew point air quality.

E.g: ISO8573.1 LEVEL 1 (Dust), 2 (Water), 1 (Oil), pressure dew point: -40 F



Sullair Precision Filter

Precision compressed air filter is after process filter which is US Sullair according to market demand, specialized developed and manufactured.

Model				Pipe Diameter (NPT) Standard taper pipe thread	Capacity (m³/min)	Dimension (mm)						Weight (kg)
Type	Description	Micron rating	Oil carryover ppm(w)			A	B	C	D	E	F	
SCF	General converged	1	0.05									
SCH	Efficient converged	0.01	0.01									
SCC	Efficient activated carbon	-	0.003									
SCR	General dust	1	-									
SCHR	Efficient dust	0.01	-									
340				1-1/2"	9.6	170	433	383		100		5.1
465				2"	13.3	170	524.5	474.5		100		7
700				2"	19.8	170	525	475		100		7
910				3"	25.8	205	642	582		100		11.1
1315				3"	37.3	205	832	772		100		13.9
CPF, CPH, CPC Flange filter												
1700				Dn100	48	100FLG	450	1,140	170	650	201	94
2200				DN100	63		450	1,140	170	650	201	105

Sullair Refrigeration Dryer

Sullair SRC refrigerated dryer is after process dryer which is US Sullair according to market demand, specialized developed and manufactured.

Model	Flow Rate (m³/min)	Power Input (kW)	Connection Pipe Diameter	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
SRC-380	10.8	1.62	2"	672	920	1,015	140
SRC-530	15	2.05	2"	672	920	1,015	144
SRC-710	20	2.23	2"	672	920	1,015	150
SRC-990	28	3.75	DN80	1,310	1,010	1,500	420
SRC-1300	35	4.37	DN80	1,310	1,010	1,500	450
SRC-1650	46.2	6.15	DN100	1,310	1,010	1,500	470
SRC-2300	63	8.37	DN100	1,810	1,010	1,500	550
SRC-2700	75	12.16	DN150	1,810	1,010	1,500	580

* Reference working condition, inlet temperature 42C, ambient temperature 38C, inlet pressure 7bar.



LH High Efficiency Series **High-Efficiency Stationary Oil Flooded Screw Air Compressor**



LH Series comes with Sullair's patented high efficiency rotary screw Air End, which improves the energy efficiency, provide

strong durability and high reliability. We provide 5 years warranty with Sullair Air End.

- The LH Series package with IP55 IE3 motor as standard, that can bring energy efficiency and the cost saving to our customer (optional IE4).
- LH Series are low noise designed, due to the unit is equipped with a centrifugal fan as a standard configuration, which not only provides a surplus cooling air flow, but also reduced the noise level by 2-3dB of the whole machine (22-75 kW only).
- LH Series 45-160 kW supplied with two stage fluid separation system with special filter material and equipped with large capacity oil-air tank, further optimizing its separation capacity and reducing the oil carry over (Less than 2ppm).
- The full range LH Series are equipped with Sullube, even at high temperature there is no coking, 8,000 hours operation life, it helps customer to reduce maintenance cost.



Key Features

1 Electronic Control System

- The electronic control system from International brand -Schneider Electric with high reliability.
- The controller offer standard English and Chinese language, with temperature and pressure display in real time and alarm function.

2 Air End

- Sullair patented Air End designed, engineered and manufactured in the USA.
- Large rotor, low speed design, low noise, high reliability and durability.
- Proven reliable bearing design to extend bearing life (up to 100,000 hours) and reduce on maintenance cost.
- 5 years warranty will be provided for the screw Air End.
- The exclusive Sullair Diamond Warranty for 10 years on Air Ends are optional.(With using 24KT Compressor Fluid.)

You can choose the exclusive Sullair Air End with 10 Years Diamond Warranty.



Maintaining the Sullair 10-Year Diamond Warranty requires using Genuine Sullair parts and 24KT® Compressor Fluid. Restrictions apply.



3 Transmission Syatem

Transmission System has a robust design of the gear plus coupling. The use of the coupling increase the operational reliability of the transmission system, avoids the large radial force and axial force brought by the helical gear transmission, protects the motor bearing and compressor bearing. This will significantly prolongs the life span of the transmission system.

4 Filtration Syatem

- Sullair Optima Air® Air Filter provide 99.9% efficiency per ISO5011, cleaner air intake and extend component life.
- Large capacity fluid/air tank, optimize the efficiency of pre separation, so as to improve the actual service life of fluid separator.
- Dual nested Optimizer TM separator elements (45-55 kW, reduce fluid carryover to a maximum of 2 ppm and extend service life up to 8,000 hours (under normal operating circumstance).

5 Fluid Piping System

- Optimized fluid piping system with reduce pressure drop.
- The LH Series are package with Sullube®, that can provide excellent performance. Even at high temperature there is no coking, 8,000 hours operation life, it helps customer to reduce maintenance cost.

6 Cooling System

- LH Series installed with centrifugal fan provide high efficiency and lower noise.
- With large area cover by fluid cooler. The centrifugal fan can provide large surplus cooling, even working on the worst condition.

7 Motor

- LH Series offered with IP55 enclosed high efficiency motor (for fixed speed).
- Offer with 1E3 high efficiency.
- Heavy duty designed low speed motors, which have longer bearing life than high speed motors.
- WEG is standard motor for 50 Hz.
- Class F insulation (Class B raise) B raise motor allow more then 50% life time vs F raise.

Technical Specifications

■ LH 22-75 & 132 - 160 kW Air Compressor

Compressor Model	kW	Maximum Pressure bar(g)	Air Discharge m3/min	CFM	Unit Weight kg	Unit Size LxWxH mm	Air Discharge Size	Noise @ 1 Meter
LH-22	22	7.6	4.2	148	1050	1602 X 860 X 1450	Rc 1	68
		8.6	4	141				
		10.6	3.7	131				
		12	3.3	117				
LH-30	30	7.6	5.9	208	1100	1602 X 860 X 1450	Rc 1-1/2	75
		8.6	5.6	198				
		10.6	4.9	173				
		12	4.2	148				
LH-37	37	7.6	6.9	244	1150	1602 X 860 X 1450	Rc 1-1/2	75
		8.6	6.4	226				
		10.6	5.9	208				
		12	5.1	180				
LH-45	45	7.6	8.6	304	1420	2150 X 1200 X 1730	Rc2	75
		8.6	7.9	279				
		10.6	7	247				
		12	5.7	201				
LH-55	55	7.6	11.2	395	1680	2150 X 1200 X 1730	Rc2	73
		8.6	10	353				
		10.6	8.6	304				
		12	7.6	268				
LH-75	75	7.6	15	530	2400	2500 X 1500 X 2027	Rc2	73
		8.6	14	494				
		10.6	12.4	438				
		12	10.8	381				

■ LH 132 - 160 kW Air Compressor

LH-132	132	7.6	27.2	955	3600	3150 X 2000 X 1880	NPT 3"	78
		8.6	25.3	889				
		10.6	23	808				
LH-160	160	7.6	32	1124	3750	3150 X 2000 X 1880	NPT 3"	76
		8.6	30.5	1071				
		10.6	27.3	959				

Remarks:

1. 90-280kW series with 380V motor, 315-450kW series with 6000V motor.
2. Capacity is measured under the rated discharge pressure according to the GB3853 (same as ISO 1217, attached C).
3. All types of high voltage switch starter should be disposed separately.



Low Noise, Low Vibration, High Reliability. Space Saving, Energy Saving with Multi-Drive Control

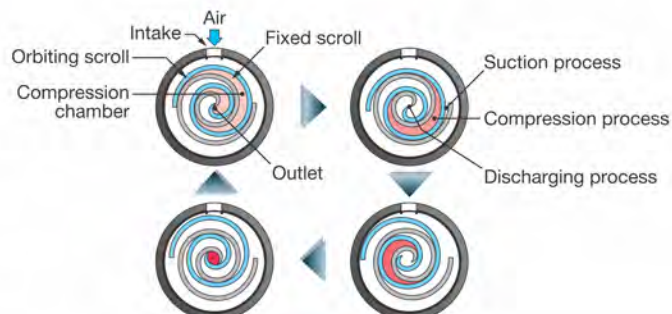


Model Nomenclature



Scroll Compression Principle

1. Compressor sucks air through air inlet located at outer scroll.
2. Compression chamber goes smaller with rotary movement and trapped air is compressed.
3. Compression chamber becomes minimum volume at the center of the scroll and air is pumped out through air outlet located at the center of scroll.
4. These, suction, compression & discharging, process is repeated continuously.



Low Noise, Low Vibration

Noise level is only 45dB [A] that is like in the library (1.5kW).



For example : Pencil on the top roof keeps standing during operation.



Easy to Use

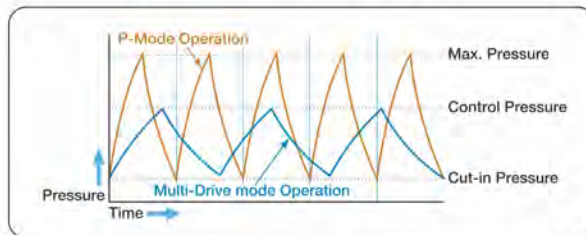
Few Daily Check items and Easy to Check, Total Cost Saving.

- ① No need to change oil and separate the oil from drain. No need to install oil mist filter as well.*
- ② Well-designed structure utilizes easy maintenance of draining and cleaning of suction filters.

*In case that the suction air is thought to contain oil, it is necessary to install oil mist filter.

Energy Saving with Multi-Drive Control

Multi-Drive control method is added to the conventional Pressure Switch Control method. It is also possible to easily change between Multi-Drive control and Pressure Switch control by operation of switch button. Under Multi-Drive control mode, the operation of SRL heads is modified automatically responding to the need of air. Optimized operation which can keep the necessary pressure is possible.



P-Mode:

Same as conventional Pressure Switch Control method, if the pressure reaches max pressure, the operation of compressor will stop. When the pressure decreases to the cut-in pressure, the operation of compressor will restart.

Multi-Drive Mode:

The operation of compressor is automatically controlled to keep the pressure around necessary pressure (control pressure). Unnecessary power consumption is prevented by avoiding the pressure to reach max pressure. So, energy-saving is possible.

Built-in Air Dryer Model

Control Method		P-Mode				Multi-Dive Mode / P-Mode			
Item-Unit	Model	SRL-1.5DMN5	SRL-2.5DMN5	SRL-3.7DMN5	SRL-5.5DMN5	SRL-7.5DMN5	SRL-11DMN5	SRL-15DMN5	SRL-22DMN5
		SRL-1.5DMN6	SRL-2.5DMN6	SRL-3.7DMN6	SRL-5.5DMN6	SRL-7.5DMN6	SRL-11DMN6	SRL-15DMN6	SRL-22DMN6
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.5	11	15	22
Max. Discharge Pressure	Mpa	0.8	0.8 (1.0)	0.8 (1.0)	0.8 (1.0)				
ON-OFF Control Pressure	MPa	0.65 - 0.8 (0.8 - 1.0)							
Air Capacity	L/min	170	255 (200)	425 (345)	640 (500)	890 (700)	1280 (1,000)	1920 (1,500)	2560 (2,000)
Dew Point of Outlet Air	°C	15 or below (under pressure)				10 or below (under pressure)			
Ambient Temperature	°C	5 - 40							
Starting Method	-	Full-Voltage Starting							
Air Tank Volume	L	18	24	24 (necessary for extra air receiver tank)	※ 6				
Air Outlet	-	Rc3/8 (stop Valve) x1				Rc3/4x1		Rc1x1	
External Dimensions (WxDxH)	mm	680x620x1,030		750x715x1,150		980x660x1,450		1280x770x1,450	1360x925x1,930
Weight	kg	135	149	191	225	353 (350)	397 (391)	576 (576)	799 (787)
Noise Level	dB[A]	45	46	47	50	53	56	58	61

Without Air Dryer Model

Control Method		P-Mode				Multi-Dive Mode / P-Mode				
Item-Unit	Model	SRL-1.5DMN5	SRL-2.5DMN5	SRL-3.7DMN5	SRL-5.5DMN5	SRL-7.5DMN5	SRL-11DMN5	SRL-15DMN5	SRL-22DMN5	SRL-22DMN5
		SRL-1.5DMN6	SRL-2.5DMN6	SRL-3.7DMN6	SRL-5.5DMN6	SRL-7.5DMN6	SRL-11DMN6	SRL-15DMN6	SRL-22DMN6	SRL-22DMN6
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.5	11	15	22	22
Max. Discharge Pressure	Mpa	0.8	0.8 (1.0)	0.8 (1.0)	0.8 (1.0)					
ON-OFF Control Pressure	MPa	0.65 - 0.8 (0.8 - 1.0)								
Air Capacity	L/min	160	240 (200)	400	600 (500)	880 (700)	1,260 (1,000)	1,890 (1,500)	2,520c (2,000)	3,780 (3,000)
Ambient Temperature	℃	0 - 40								
Starting Method	-	Full-Voltage Starting								
Air Tank Volume	L	18	24	24 (necessary for extra air receiver tank)	※6					
Air Outlet	-	Rc3/8 (stop Valve) x1				Rc3/4x1		Rc1x1		Rc1 1/2x1
External Dimensions (WxDxH)	mm	680x640x1,030		750x715x1,070		980x660x1,190		1280x770x1,450	1,330x880x1,900	1,360x1,030x1,670
Weight	kg	119	129	175	18450	315 (312)	350 (344)	515 (506)	720 (708)	1,000
Noise Level	dB[A]	45	46	47	50	53	57	61	61	63

Note: 1. Air capacity is converted value at its inlet condition. For guaranteed values, contact your nearest dealer or Hitachi local representative office.

2. Air capacity from the air dryer is about 3% to 5% less than the one from the compressor due to the drain condensation.

3. Noise level is measured at 1.5m front under full-load operation in an anechoic room. Noise level might be increased due to different operating conditions and / or environments with echo of actual field installations.

4. If the air dryer operates at the same time, the noise level may be enlarged by 1 to 2 dB [A].

5. It is necessary to install an air receiver tank for 5.5kW or above models to reduce ON-OFF frequency. For 3.7kW or lower models, it is also recommended to install a separate air receiver tank.

6. It is necessary to install an air receiver tank with volume of 150L or above (7.7/11/16.5kW model).

230L or above (22kW model), or 500L or above (33kW model). When using P-Mode, it is also recommended to install an air receiver with volume of 230L or above (7.7/11/16.5kW model), 430L or above (22kW model), or 700L or above (33kW model).

7. External dimensions indicate the package panel ONLY, NOT including protruding objects as discharge outlet.

8. Outlet air dew point is measured under the ambient temperature of 30°C.

9. Ambient temperature must be between 0 (at which there is no freeze of drain water) and 40°C.

10. 1.0MPa model is optional.

11. Some of the models may NOT be available in Singapore, Malaysia and China (Mainland) due to the pressure vessel regulations. For details, contact your nearest dealer or Hitachi local representative office.

12. Hitachi air compressors are not designed, intended or approved for breathing air applications.



Technical Specifications

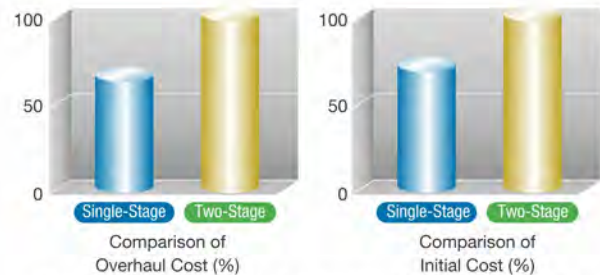


*The above picture shows the internal structure of 55kW Air-Cooled model (V-type).

Cut Down Overhaul and Initial Cost

Comparison of cost with the same air capacity level

Because there is only one Air-End for DSP Single-Stage model, the initial cost is lower than Two-Stage model. The overhaul cost, which covers the most of maintenance cost, is about 60% of Two-Stage for the same reason.



*Example of Hitachi 55kW (Single-Stage) and 45kW (Two-Stage), Without Dryer model.

Expanded Line-Up (Low Pressore)

0.30MPa model is newly added

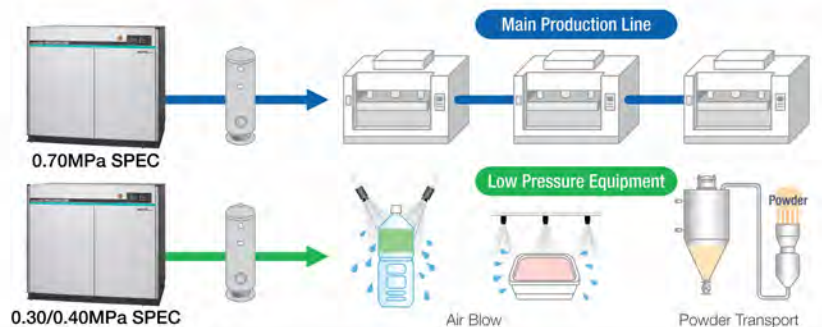
V-type 0.30MPa and Fixed Speed Model 0.40MPa models are available for low pressure application to save the energy.

Capacity Comparison



Applications

In case that the pressure requirement is higher than blower but lower than standard compressor SPEC, low pressure SPEC DSP can be your solution.



Technical Specifications

Air-Cooled, Fixed Speed Model (15-55kW)

[] : Indicates model with Dryer integrated.

Item-Unit	Model	DSP-15A [R] 5N2 DSP-15A [R] 6N2		DSP-22A [R] 5N2 DSP-22A [R] 6N2		DSP-37A [R] 5N2 DSP-37A [R] 6N2		DSP-55A [R] 5N2 DSP-55A [R] 6N2	
Discharge Pressure	MPa	0.70	0.40	0.70	0.40	0.70	0.40	0.70	0.40
Discharge Air Capacity	m³/min	2.0	2.5	3.4	4.0	5.0	5.9	6.4	8.0
Nominal Motor Output	kW	15		22		37		55	
Motor Type	—	4-Pole TEFC Motor							
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 – 45 [2 – 45]							
Discharge Temperature	°C	Ambient Temperature +15 or below							
Discharge Air Pipe Connection	B	Rc1		Rc1-1/2					
Starting Method	—	Full Voltage Start		Star-Delta (3 contact)					
Driving Method	—	V-Belt+Gear-Driven							
Oil Quantity	L	12 (Not filled)				18 (Not filled)			
Cooling Fan Motor Output	kW	0.4				0.65		0.9	
Coolant Pump Motor Output (50/60Hz)	kW	0.2/0.3							
[Dryer]	P.D.P	°C	[10 (Under Pressure)]	—	[10 (Under Pressure)]	—	[10 (Under Pressure)]	—	[10 (Under Pressure)]
	Refrigerator Nominal Output	kW	[0.5]	—	[1.2]	—	[1.45]	—	[1.45]
	Refrigerant	—	[R407C]	—	[R410A]	—	[R410A]	—	[R410A]
Weight	kg	770 [800]		850 [910]		1,080 [1,230]		1,330 [1,480]	
Dimensions (WxDxH)	mm	1,400×970×1,400							
Sound Level (1.5m from front)	dB(A)	62	63	63	64	66	68	68	70

Air-Cooled / Water-Cooled, V-type Model (22-55kW)

[] : Indicates model with Dryer integrated.

Item-Unit		Model	DSP-22VA [R] 5N2 DSP-22VA [R] 6N2		DSP-37VA [R] 5N2 DSP-37VA [R] 6N2		DSP-55VA [R] 5N2 DSP-55VA [R] 6N2		DSP-37VWN2		DSP-55VWN2	
Cooling Method		—	Air-Cooled						Water-Cooled			
Discharge Pressure		MPa	0.70	0.30	0.70	0.30	0.70	0.30	0.70	0.30	0.70	0.30
Discharge Air Capacity		m³/min	3.4	4.6	5.0	6.7	6.4	8.5	5.0	6.7	6.4	8.5
PQ	Discharge Pressure	MPa	0.60	—	0.60	—	0.60	—	0.60	—	0.60	—
	Discharge Air Capacity	m³/min	3.7	—	5.5	—	7.0	—	5.5	—	7.0	—
WIDEMODE	Discharge Pressure	MPa	0.40 [0.50]	—	0.40 [0.50]	—	0.40 [0.50]	—	0.40	—	0.40	—
	Discharge Air Capacity	m³/min	4.3 [4.0]	—	6.4 [6.0]	—	8.2 [7.6]	—	6.4	—	8.2	—
PQ WIDEMODE Range		MPa	0.40 – 0.70 [0.50 – 0.70]	—	0.40 – 0.70 [0.50 – 0.70]	—	0.40 – 0.70 [0.50 – 0.70]	—	0.40 – 0.70	—	0.40 – 0.70	—
Nominal Motor Output		kW	22		37		55		37		55	
Motor Type		—	4-Pole TEFC Motor						4-Pole TEFC Motor			
Intake Air Pressure / Temperature		°C	Atmospheric Pressure / 0 – 45 [2 – 45]						Atmospheric Pressure / 0 – 45			
Discharge Temperature		°C	Ambient Temperature +15 or below						Cooling Water Temperature +13 or below			
Discharge Air Pipe Connection		B	Rc1-1/2						Rc1-1/2			
Starting Method		—	Inverter						Inverter			
Driving Method		—	V-Belt+Gear-Driven						V-Belt+Gear-Driven			
Oil Quantity		L	12 (Not filled)		18 (Not filled)				14 (Not filled)			
Cooling Fan Motor Output		kW	0.75				0.9		0.2			
Cooling Water Flow Rate		L/min			—				80			
Cooling Water Temperature		°C			—				32 or below			
Cooling Water Pipe Connection		B			—				Rc1			
Coolant Pump Motor Output (50/60Hz)		kW			0.2/0.3				—			
[Dryer]	P.D.P	°C	[10 (Under Pressure)]	—	[10 (Under Pressure)]	—	[10 (Under Pressure)]	—			—	
	Refrigerator Nominal Output	kW	[1.2]	—	[1.45]	—	[1.45]	—			—	
	Refrigerant	—	[R410A]	—	[R410A]	—	[R410A]	—			—	
Weight		kg	900 [960]		1,140 [1,290]		1,270 [1,420]		1,110		1,240	
Dimensions (WxDxH)		mm	1,650×970×1,400		1,830×980×1,580		2,230×980×1,580		1,830×980×1,580			
Sound Level (1.5m from front)		dB(A)	63	64	66	68	68	70	64	66	64	66

Water-Cooled, Fixed Speed Model (15-55kW)

Item-Unit	Model	DSP-15W5N2 DSP-15W6N2		DSP-22W5N2 DSP-22W6N2		DSP-37W5N2 DSP-37W6N2		DSP-55W5N2 DSP-55W6N2	
Discharge Pressure	MPa	0.70	0.40	0.70	0.40	0.70	0.40	0.70	0.40
Discharge Air Capacity	m³/min	2.0	2.5	3.4	4.0	5.0	5.9	6.4	8.0
Nominal Motor Output	kW	15		22		37		55	
Motor Type	—	4-Pole TEFC Motor							
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 – 45							
Discharge Air Temperature	°C	Cooling Water Temperature + 13 or below							
Discharge Air Pipe Diameter	B	Rc1		Rc1-1/2					
Cooling Water Flow Rate	L/min	50				80			
Cooling Water Temperature	°C	35 or below							
Coolant Water Pipe Diameter	B	Rc3/4				Rc1			
Starting Method	—	Full Voltage Start		Star-Delta (3-contact)					
Driving Method	—	V-Belt+Gear-Driven							
Lubricating Oil Quantity	L	10 (Not filled)				14 (Not filled)			
Cooling Fan Motor Output	kW	0.05				0.1			
Weight	kg	770		830		1,030		1,280	
Dimensions (W×D×H)	mm	1,400×970×1,400 1,830×980×1,580							
Sound Level (1.5m from front side)	dB(A)	62	63	63	64	64	66	64	66



Hitachi Oil Free Screw Compressor DSP-series (15-240 kW)



*The above picture shows 75kW Air-Cooled model (V-type).

IPC Control (Intelligent Pressure Control)

By estimating use point pressure in accordance with air consumption, IPC control decreases discharge pressure during low load operation, which enables Energy-Saving.

Patent JP4425768 and others

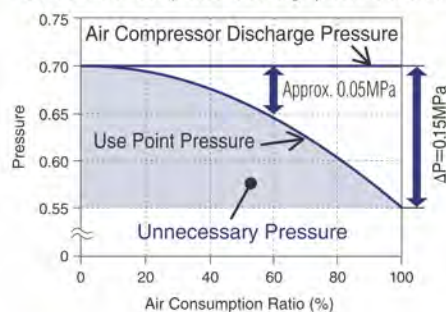
Example of effect by IPC

- Conditions**
- Air compressor: DSP-37VATN2
 - Control pressure setting: 0.70MPa
 - Use point pressure during full load: 0.55MPa
 - Piping pressure loss during full load: 0.15MPa

Graph of pressure change (Theoretical values)

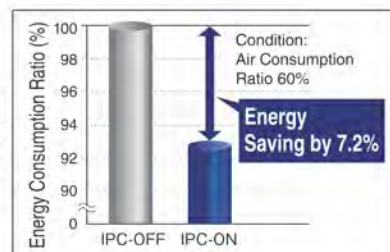
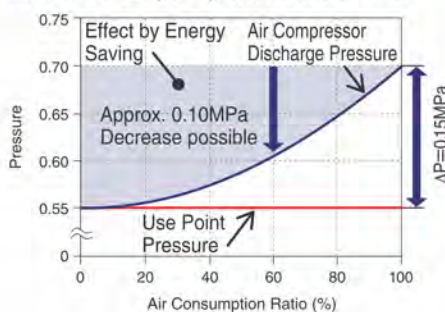
① IPC-OFF

- Control the air compressor discharge pressure at 0.70MPa



② IPC-ON

- Control the use point pressure at 0.55MPa



*Due to estimation control, use point pressure varies in accordance with use conditions.

IT Communication Functions

USB Flash Memory Possible for Data Logging

- *Necessary to prepare a USB flash memory device (5.5cm or smaller) on user's side.
- *Operation data for one day is approximately 400kB. (For reference)

Web Server Function via Bluetooth®

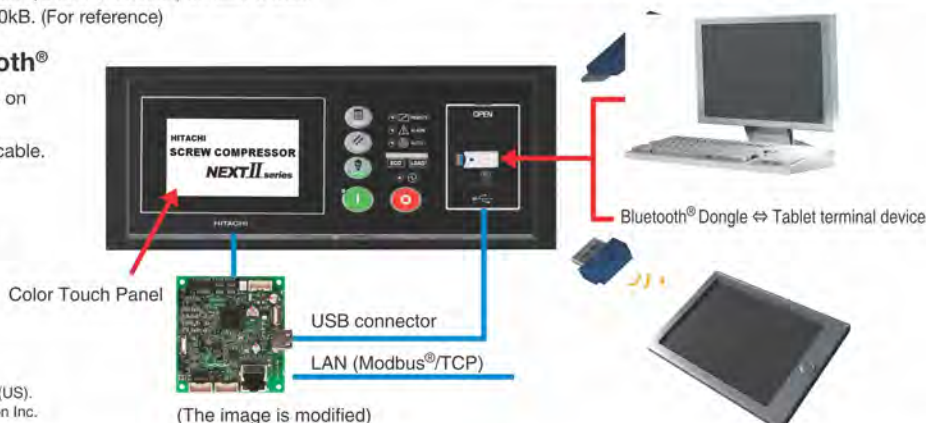
- *Necessary to prepare a Bluetooth® USB dongle on your side.
- *For setting changes, part of the items are applicable.

Modbus® Communication

Open network serial communication
Modbus®/RTU is supported as standard

- *Modbus®/TCP support is optional.

USB flash memory (data retrieving)
(Standard) pressure/temperature/current/history/time



(The image is modified)

- *Bluetooth is the registered trademark of Bluetooth SIG, Inc (US).
- *Modbus is the registered trademark of Schneider Automation Inc.

Technical Specifications

Air-Cooled (22/37kW)

□ □ : Indicates model with Dryer integrated.

Item-Unit		Model	Fixed Speed Model						V-type Model	
			DSP-22AT [R] 5N2 DSP-22AT [R] 6N2		DSP-30AT [R] 5N2 DSP-30AT [R] 6N2		DSP-37AT [R] 5N2 DSP-37AT [R] 6N2		DSP-37VAT [R] N2	
Discharge Pressure		MPa	0.70	0.88	0.70	0.88	0.70	0.88	0.70	0.88
Discharge Air Capacity		m³/min	3.7	3.2	4.7	4.0	5.6	4.7	5.5	4.6
Discharge Air Capacity at PQ wide ON of 0.6MPa			—						6.0	5.6
Nominal Motor Output		kW	22		30		37		37	
Motor Type		—	4-Pole TEFC							
Intake Air Pressure / Temperature		°C	Atmospheric Pressure / 0 – 45 [2 – 45]							
Discharge Temperature		°C	Ambient Temperature +15 or below							
Discharge Pipe Diameter		B	Rc1-1/2							
Starting Method		—	Star-Delta (3 contact)							
Driving Method		—	V-Belt with Auto Tensioner+Gear-Driven							
Lubricating Oil Filling		L	15 (Not filled)							
Output of Cooling Fan		kW	1.1 (Inverter)							
[Dryer]	P.D.P	°C	[10 (Under Pressure)]							
	Refrigerator Nominal Output	kW	[1.45]							
	Refrigerant	—	[R410A]							
Weight		kg	1,120 [1,180]		1,230 [1,290]		1,230 [1,290]		950 [1,010]	
Dimensions (W×D×H)		mm	1,530×1,150×1,650							
Noise Level (1.5m from front side)		dB(A)	63	64	65	66	66	67	66	67

Air-Cooled (45/55/75kW)

□ □ : Indicates model with Dryer integrated.

Item-Unit		Model	Fixed Speed Model						V-type Model			
			DSP-45AT [R] 5N2 DSP-45AT [R] 6N2		DSP-55AT [R] 5N2 DSP-55AT [R] 6N2		DSP-75AT [R] 5N2 DSP-75AT [R] 6N2		DSP-55VAT [R] N2		DSP-75VAT [R] N2	
Discharge Pressure		MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93
Discharge Air Capacity		m³/min	7.4/7.8	6.2/6.5	9.2	7.2/7.7	13.0	10.5/11.1	9.3	7.7	12.6	10.9
Discharge Air Capacity at PQ wide ON of 0.6MPa			—						9.6	9.3	13.0	12.6
Nominal Motor Output		kW	45		55		75		55		75	
Motor Type		—	2-Pole TEFC Flange						6-Pole DCBL			
Intake Air Pressure / Temperature		℃	Atmospheric Pressure / 0 – 45 [2 – 45]						Atmospheric Pressure / 0 – 45 [2–45]			
Discharge Temperature		℃	Ambient Temperature +15 or below						Ambient Temperature +15 or below			
Discharge Pipe Diameter		B	2 (Flange)						2 (Flange)			
Starting Method		—	Star-Delta (3 contact)						Soft Start			
Driving Method		—	Direct Connection + Gear Driven						Direct Connection + Gear Driven			
Lubricating Oil Filling		L	25 (Not filled)						25 (Not filled)			
Output of Cooling Fan		kW	1.5 (Inverter)				2.2 (Inverter)		1.5 (Inverter)		2.2 (Inverter)	
[Dryer]	P.D.P	℃	[10 (Under Pressure)]						[10 (Under Pressure)]			
	Refrigerator Nominal Output	kW	[2.2]				[3.0]		[2.2]		[3.0]	
	Refrigerant	—	[R410A]				[R407C]		[R410A]		[R407C]	
Weight		kg	1,600 [1,750]				1,860 [2,030]		1,340 [1,490]		1,560 [1,730]	
Dimensions (W×D×H)		mm	2,000×1,300×1,800				2,250×1,300×1,800		2,000×1,300×1,800		2,250×1,300×1,800	
Noise Level (1.5m from front side)		dB(A)	63	65	63	65	68		63	65	67	68

Air-Cooled (90/100/120kW)

Item-Unit	Model	Fixed Speed Model						V-type Model	
		DSP-90A5 [L] MN2 DSP-90A6 [L] MN2		DSP-100A5 [L] MN2 DSP-100A6 [L] MN2		DSP-120A5MN2 DSP-120A6MN2		DSP-100VA5MN2 DSP-100VA6MN2	
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93
Discharge Air Capacity	m³/min	16.6	13.9	18.0	15.4	20.5	17.3	18.0	15.4
Nominal Motor Output	kW	90		100		120		100	
Motor Type	—	2-Pole TEFC Flange						2-Pole TEFC Flange	
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 – 45						Atmospheric Pressure / 0 – 45	
Discharge Temperature	°C	Ambient Temperature +15 or below						Ambient Temperature +15 or below	
Discharge Pipe Diameter	B	2 (Flange)						2 (Flange)	
Starting Method	—	Star-Delta (3 contact)						Inverter	
Driving Method	—	Direct Connection + Gear Driven						Direct Connection + Gear Driven	
Lubricating Oil Filling	L	26 (Not filled)						26 (Not filled)	
Output of Cooling Fan	kW	1.5×2						1.5×2	
Weight	kg	2,200				2,380		2,300	
Dimensions (W×D×H)	mm	2,150×1,520×1,975						2,150×1,520×1,975	
Noise Level (1.5m from front side)	dB(A)	68	70	69	71	72	73	69	71

NOTE:

- Capacity is measured according to ISO 1217, fourth edition, Annex C.
- Sound level is the equivalent value at 1.5m in front and 1m height in an anechoic room, under full load operation with no auto drain function. It may vary in different operation conditions or environments. Sound level may be increased by 2dB when PQ WIDEMODE is ON.
- P.D.P is measured at 30 degree C of intake air temperature and rated discharge pressure. P.D.P can be much worse at 0.60MPa or lower discharge pressure. P.D.P can be 13 degree C at 0.60MPa of discharge pressure PQ WIDEMODE ON.
- Capacity after built-in dryer is decreased by 3%.
- In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40 degree C, and discharge air temperature of air-cooled models is atmospheric temperature +18 degree C or less.

- Earth leakage circuit breaker is out of supply scope from Hitachi.
- These air compressors are not designed, intended or approved for breathing air applications.
- Pressures are indicated as the gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Protruding objects such as discharge pipe are not included in Dimension.
- Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.



*The above picture shows the internal structure of 75kW Water-Cooled model (V-type).

IPC Control (Intelligent Pressure Control)

By estimating use point pressure in accordance with air consumption, IPC control decreases discharge pressure during low load operation, which enables Energy-Saving.

Patent JP4425768 and others

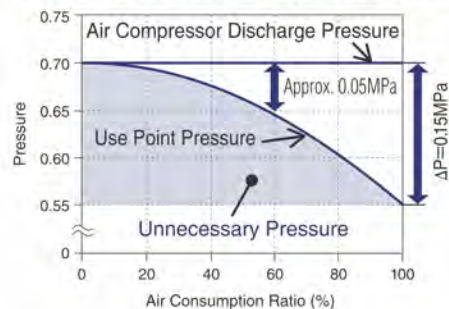
Example of effect by IPC

- Conditions**
- Air compressor: DSP-37VATN2
 - Control pressure setting: 0.70MPa
 - Use point pressure during full load: 0.55MPa
 - Piping pressure loss during full load: 0.15MPa

Graph of pressure change (Theoretical values)

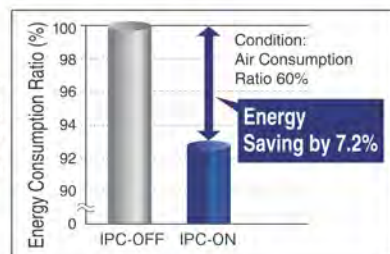
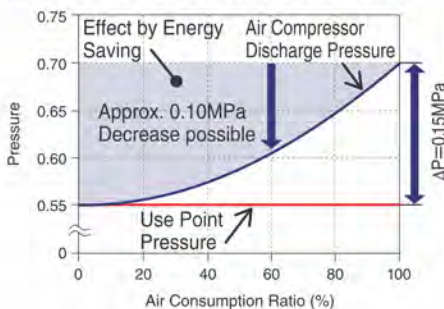
① IPC-OFF

- Control the air compressor discharge pressure at 0.70MPa



② IPC-ON

- Control the use point pressure at 0.55MPa



*Due to estimation control, use point pressure varies in accordance with use conditions.

IT Communication Functions

USB Flash Memory Possible for Data Logging

- *Necessary to prepare a USB flash memory device (5.5cm or smaller) on user's side.
- *Operation data for one day is approximately 400kB. (For reference)

Web Server Function via Bluetooth®

- *Necessary to prepare a Bluetooth® USB dongle on your side.
- *For setting changes, part of the items are applicable.

Modbus® Communication

Open network serial communication
Modbus®/RTU is supported as standard

- *Modbus®/TCP support is optional.

USB flash memory (data retrieving)
(Standard) pressure/temperature/current/history/time



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*Modbus is the registered trademark of Schneider Automation Inc.

Technical Specifications

Water-Cooled (45/55/75kW)

[] : Indicates model with Dryer integrated.

Item-Unit		Model	Fixed Speed Model						V-type Model							
			DSP-45WT [R] 5N2 DSP-45WT [R] 6N2		DSP-55WT [R] 5N2 DSP-55WT [R] 6N2		DSP-75WT [R] 5N2 DSP-75WT [R] 6N2		DSP-55VWT [R] N2		DSP-75VWT [R] N2					
Discharge Pressure		MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93				
Discharge Air Capacity (50Hz/60Hz)		m³/min	7.5/7.9	6.4/6.7	9.4	7.4/7.9	13.2	10.7/11.3	9.5	8.0	12.9	11.4				
Discharge Air Capacity at PQ wide ON of 0.6MPa			—						9.8	9.5	13.4	13.0				
Nominal Motor Output		kW	45		55		75		55		75					
Motor Type		—	2-Pole TEFC Flange													
Intake Air Pressure / Temperature		—	Atmospheric Pressure / 0 – 45 [2 – 45]													
Discharge Temperature		℃	Cooling Water Temperature +13 or below													
Discharge Pipe Diameter		B	2 (Flange)													
Starting Method		—	Star-Delta (3 contact)													
Driving Method		—	Direct Connection + Gear Driven													
Lubricating Oil Filling		L	15 (Not filled)													
Output of Cooling Fan		kW	0.05×2													
Cooling Water Capacity		L/min	90				120		90		120					
Cooling Water Temperature		℃	35 or below													
Cooling Water Pipe Diamo		B	Rc 1-1/4													
P.D.P		℃	[10 (Under Pressure)]													
[Dryer]	Refrigerator Nominal Output	kW	[2.2]				[3.0]				[2.2]		[3.0]			
	Refrigerant	—	[R410A]				[R407C]				[R410A]		[R407C]			
Weight		kg	1,580 [1,730]				1,710 [1,880]				1,320 [1,470]		1,410 [1,580]			
Dimensions (W×D×H)		mm	2,000×1,300×1,800										2,000×1,300×1,800			
Noise Level (1.5m from front side)		dB(A)	63		63		65		66		63		65		66	

Water-Cooled (90/100/120kW)

Item-Uint	Model	Fixed Speed Model						V-type Model	
		DSP-90W5 [L] MN2 DSP-90W6 [L] MN2		DSP-100W5 [L] MN2 DSP-100W6 [L] MN2		DSP-120W5MN2 DSP-120W6MN2		DSP-100VW5MN2 DSP-100VW6MN2	
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93
Discharge Air Capacity	m³/min	16.8	14.0	18.3	15.6	21.0	17.6	18.3	15.6
Nominal Motor Output	kW	90		100		120		100	
Motor Type	—	2-Pole TEFC Flange						2-Pole TEFC Flange	
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 – 45						Atmospheric Pressure / 0 – 45	
Discharge Temperature	℃	Cooling Water Temperature +13 or below						Cooling Water Temperature +13 or below	
Discharge Pipe Diameter	B	2 (Flange)						2 (Flange)	
Starting Method	—	Star-Delta (3 contact)						Inverter	
Driving Method	—	Direct Connection + Gear Driven						Direct Connection + Gear Driven	
Lubricating Oil Filling	L	16 (Not filled)						16 (Not filled)	
Cooling Water Capacity	L/min	160				180		160	
Cooling Water Temperature	℃	35 or below						35 or below	
Cooling Water Pipe Diamo	B	Rc 1-1/2						Rc 1-1/2	
Weight	kg	2,050				2,230		2,200	
Dimensions (W×D×H)	mm	2,150×1,520×1,825						2,150×1,520×1,825	
Noise Level (1.5m from front side)	dB(A)	66	68	67	69	69	70	67	69

NOTE:

- Capacity is measured according to ISO 1217, fourth edition, Annex C.
- Sound level is the equivalent value at 1.5m in front and 1m height in an anechoic room, under full load operation with no auto drain function. It may vary in different operation conditions or environments. Sound level may be increased by 2dB when PQ WIDEMODE is ON.
- P.D.P is measured at 30 degree C of intake air temperature and rated discharge pressure. P.D.P can be much worse at 0.60MPa or lower discharge pressure. P.D.P can be 13 degree C at 0.60MPa of discharge pressure PQ WIDEMODE ON.
- Capacity after built-in dryer is decreased by 3%.
- In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40 degree C.

- Earth leakage circuit breaker is out of supply scope from Hitachi.
- These air compressors are not designed, intended or approved for breathing air applications.
- Pressures are indicated as the gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Protruding objects such as discharge pipe are not included in Dimension.
- Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.



Hitachi Oil Free Screw Compressor DSP-series (15-240 kW)



High Capacity by Equipping New Next II series Air-End

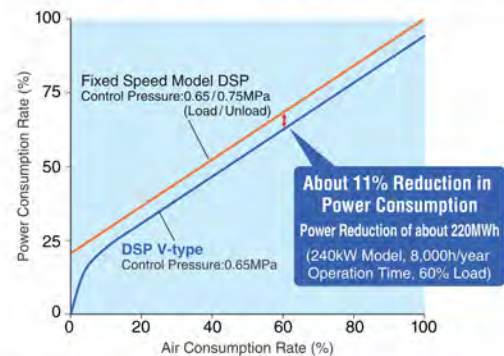
Low Noise, Low Vibration

Compact Design by Optimized Layout of Components

High Discharge pressure Available (up to 1.0MPa)

Energy-Saving (V-type)

Further Energy-Saving is achieved by DSP **NEXT II** series with Built-in Inverter.



*Compared to conventional Load/Unload Control Type, lower pressure setting is possible due to the stable pressure control.

High Reliability and Easy Maintenance

Totally enclosed flange motor is standard

New totally enclosed flange motor is applied to improve reliability.
Motor shaft in direct connection without coupling enables easy maintenance work.

High precool system (Air-Cooled models)

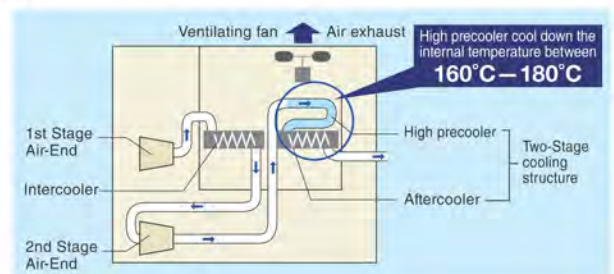
High precool system reduces temperature of extremely hot air to aftercooler and Two-Stage cooling structure improves reliability.

High Discharge Pressure Available

1.0MPa is available with high reliability.

Maintenance Friendly

DSP series provides easy accessibility for inspection and maintenance.



Technical Specifications

Water-Cooled, V-type Model (160/240kW)

Item-Unit	Model	DSP-160VW5N2 DSP-160VW6N2			DSP-240VW5N2 DSP-240VW6N2		
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0
Discharge Air Capacity	m³/min	28.5	24.8	23.2	40.5	35.0	32.5
Nominal Motor Output	kW	160			240		
Motor Type	—	4-Pole TEFC Flange Motor					
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 - 45					
Discharge Air Temperature	°C	Cooling Water Temperature+13 or below					
Discharge Air Pipe Diameter	B	2-1/2 (Flange)			3 (Flange)		
Starting Method	—	Inverter					
Driving Method	—	Direct Connection With Motor+ Gear-Driven					
Cooling Water Flow Rate	L/min	240			330		
Cooling Water Temperature	°C	35 or below					
Coolant Water Pipe Diameter	B	Rc2					
Lubricating Oil Quantity	L	40 (Not filled)			50 (Not filled)		
Cooling Fan Motor Output	kW	0.4					
Weight	kg	3,960			4,900		
Dimensions (WxDxH)	mm	2,500×1,600×1,925			2,800×1,800×1,950		
Sound Level (1.5m from front side)	dB(A)	70			71		

Air-Cooled, Fixed Speed Model (132-240kW)

Item-Unit	Model	DSP-132A5N2 DSP-132A6N2			DSP-145A5N2 DSP-145A6N2			DSP-160A5N2 DSP-160A6N2			DSP-200A5N2 DSP-200A6N2			DSP-240A5N2 DSP-240A6N2		
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0
Discharge Air Capacity	m³/min	22.5	20.0	19.0	25.0	21.4	20.0	27.5	23.9	22.5	37.0	32.2	30.0	40.0	35.0	32.5
Nominal Motor Output	kW	132			145			160			200			240		
Motor Type	—	4-Pole TEFC Flange Motor														
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 - 45														
Discharge Air Temperature	°C	Ambient Temperature + 15 or below														
Discharge Air Pipe Diameter	B	2-1/2 (Flange)									3 (Flange)					
Starting Method	—	Star-Delta (3-contact)														
Driving Method	—	Direct Connection With Motor+ Gear-Driven														
Lubricating Oil Quantity	L	50 (Not filled)									60 (Not filled)					
Cooling Fan Motor Output	kW	4.4 (1.1×4)									6.0 (1.5×4)					
Weight	kg	3,860						3,960			5,000					
Dimensions (W×D×H)	mm	2,900×1,700×1,925									3,200×1,890×1,950					
Sound Level (1.5m from front side)	dB(A)	73	74	74	74	75	74	75	74	75	76	77	77	77	78	78

Water-Cooled, Fixed Speed Model (132-240kW)

Item-Unit	Model	DSP-132W5N2 DSP-132W6N2			DSP-145W5N2 DSP-145W6N2			DSP-160W5N2 DSP-160W6N2			DSP-200W5N2 DSP-200W6N2			DSP-240W5N2 DSP-240W6N2			
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	
Discharge Air Capacity	m³/min	23.4	20.7	19.6	26.0	22.2	20.6	28.5	24.8	23.2	37.0	32.2	30.0	40.5	35.0	32.5	
Nominal Motor Output	kW	132			145			160			200			240			
Motor Type	—	4-Pole TEFC Flange Motor															
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 - 45															
Discharge Air Temperature	°C	Cooling Water Temperature+13 or below															
Discharge Air Pipe Diameter	B	2-1/2 (Flange)										3 (Flange)					
Starting Method	—	Star-Delta (3-contact)															
Driving Method	—	Direct Connection With Motor+Gear-Driven															
Cooling Water Flow Rate	L/min	200			210			240			300			330			
Cooling Water Temperature	°C	35 or below															
Coolant Water Pipe Diameter	B	Rc2															
Lubricating Oil Quantity	L	40 (Not filled)															
Cooling Fan Motor Output	kW	0.4															
Weight	kg	3,760										4,600					
Dimensions (WxDxH)	mm	2,500×1,600×1,925										2,800×1,800×1,950					
Sound Level (1.5m from front side)	dB(A)	68	69	69	70	69	70	69	70	69	70	70	70	71	71	71	

NOTE:

- Capacity is measured according to ISO 1217, fourth edition, Annex C.
- Sound level is the equivalent value at 1.5m in front and 1m height in an anechoic room, under full load operation with no auto drain function. It may vary in different operation conditions or environments.
- In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40 degree C, and discharge air temperature of air-cooled models is atmospheric temperature +18 degree C or less.
- Earth leakage circuit breaker is out of supply scope from Hitachi.
- These air compressors are not designed, intended or approved for breathing air applications.
- Pressures are indicated as the gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Rear duct (200mm depth) and other protruding objects such as a discharge pipe are not included in dimension.
- Hitachi may make improvements and / or changes in the appearance and / or specifications described in this publication at anytime without notice.



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