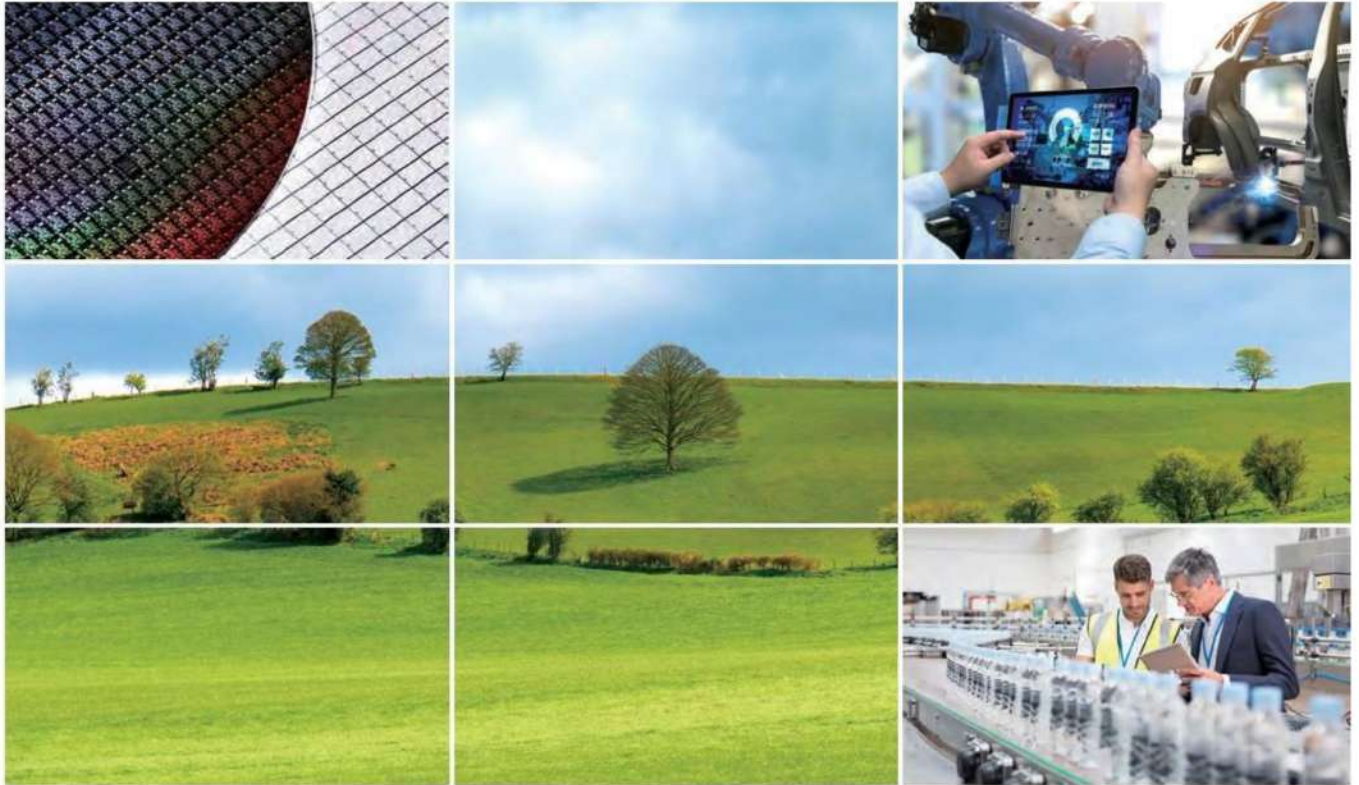


AIR COMPRESSORS

HITACHI
Inspire the Next

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



SULLAIR.



Hitachi



Sullair Oil Lubricated Screw Compressor

AS-series (4 - 110 kW)

AS 04-110 series Air Compressor

Outstanding Screw Rotors

- The screw rotors manufactured by matching poses 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

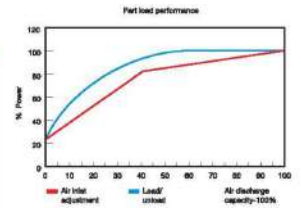
- Large capacity and highly efficient fluid-air separator with special design inside, multistate separation to make good separation result.
- The pressure decreased lowly and saving almost 1% power consumption.

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 machines.



Sullair Oil Lubricated Screw Compressor

AS-series (4 – 110 kW)

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.



Specifications

AS04-15 Air Compressor

Model	Motor		Max. discharge pressure			Weight (kg)	Outlet connection size
	HP	kW	8.0bar	10.0bar	13.0bar		
			Air discharge capacity-m ³ /min*				
AS04	5	4	0.58	0.5	0.4	228 (without air tank)	Rc3/4
AS06	7.5	6	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

AS18-110 Air Compressor

Model	Motor		Max. discharge pressure				Weight (kg)	Outlet connection size
	HP	kW	7.0bar	8.0bar	10.0bar	12.0bar		
			Air discharge capacity-m ³ /min*					
AS18	25	18	3.2	2.9	2.5	2.2	580	Rc1
AS22	30	22	3.75	3.55	3.1	2.7	650	Rc1
AS30	40	30	5.1	4.75	4.1	3.4	900	Rc1-1/2
AS37	50	37	6.8	6.3	5.6	5.1	1,000	Rc1-1/2
AS45	60	45	8.5	7.8	6.9	6.65	1,380	Rc2
AS55	75	55	10.5	9.5	8.8	7.8	1,410	Rc2
AS75	100	75	13.5	12.5	11.1	10.2	1,520	Rc2
AS90	125	90	16.9	15.5	14.2	12.8	2,100	Rc2
AS110	150	110	20.1	18.6	16.5	14.6	2,300	Rc2

Dimensions (mm)

Model	Length	Width	Height
AS04, AS05, AS07 series (without air tank)	825	545	940
AS04, AS05, AS07 series (with air tank)	1,210	545	1,480
AS11, AS15 series (without air tank)	998	818	1,035
AS11, AS15 series (with air tank)	1,460	818	1,842
AS18, AS22 series	1,340	740	1,300
AS30, AS37 series	1,600	860	1,440
AS45, AS55, AS75 series	2,000	1,200	1,680
AS90, AS110 series	2,500	1,400	1,800

NOTE:

- All AS18-110 models are supported VSD models.
- All AS04-75 series are air-cooled model and AS90-110 series include air-cooled model and water-cooled model.
- Air discharge capacity is measured at rated discharge pressure in accordance with International Standards GB3853 in testing (equivalent to ISO1217 Appendix C).



Sullair Oil Lubricated Screw Compressor

LS-series (90 – 450 kW)

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.



Elastic joint with protective cover can effectively reduce and absorb vibration transfer between Air-End and motor. Structure design of radial disassembling and assembling matched with adapter tube achieves centering permanently which brings great convenience to Air-End.



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.



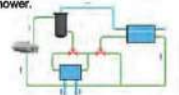
10 Controller Panel

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, generator 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.





Sullair Oil Lubricated Screw Compressor

LS-series (90 – 450 kW)

Technical Specification

Specifications

■ LS 90-450kW performance parameter

Model	Motor		Maximum discharge pressure					Weight (kg)		Discharge connection
	HP	KW	6.5bar	7.5bar	8.5bar	10.5bar	13.0bar	WC	AC	
LS90	–	80	20.0	18.9	15.2	14.2	12.9	2,480	2,520	DN65
LS110	–	110	24.9	21.1	19.6	16.3	14.6	2,500	2,540	DN65
LS132	–	132	28.0	24.7	23.2	20.5	18.6	3,100	3,140	DN80
LS160	–	160	–	30.1	28.4	24.4	20.6	3,100	3,140	DN80
LS205-200	200	–	–	27.8	28.0	22.8	18.7	3,100	3,140	DN60
LS160p	–	160	33.5	–	–	–	–	4,400	5,000	DN100
LS200	–	200	41.8	36.4	33.6	30.1	26.0	4,800	5,160	DN100
LS250	–	250	–	43.5	41.8	38.3	32.8	4,850	5,490	DN100
LS280	–	280	–	50.1	49.5	43.0	38.0	5,000	5,500	DN100
LS255-350	350	–	–	48.0	44.6	41.0	33.3	4,890	5,470	DN100
LS250p	–	250	55.8	–	–	–	–	7,460	7,960	DN100
LS315	–	315	66.0	58.5	53.5	48.8	39.8	7,800	8,000	DN100
LS355	–	355	–	65.6	62.6	52.4	46.1	7,800	8,300	DN100
LS365p	–	365	74.2	–	–	–	–	10,600	–	DN125
LS400	–	400	80.2	74.0	70.2	61.7	53.6	10,500	–	DN125
LS450	–	450	–	–	80.1	68.0	58.8	10,500	–	DN125

Remarks: LS90-160, LS205-200, LS160p, LS200-280, LS255-350, LS250p, LS315-355 can provide VSD Frequency conversion compressor.

■ Dimensions and connection

Model	Cooling method	Length (mm)	Width (mm)	Height (mm)	Pipe connection
LS90, LS110	WC	2,600	1,800	1,786	Rc1-1/2
LS90VSD, LS110VSD	WC	2,500	1,800	1,900	Rc1-1/2
LS90, LS110	AC	2,500	1,500	2,017	–
LS90VSD, LS110VSD	AC	2,500	1,500	2,017	–
LS132, LS160, LS205-200	WC	2,650	1,630	1,900	Rc1-1/2
LS132VSD, LS160VSD, LS205-200	WC	2,650	1,630	2,100	Rc1-1/2
LS132, LS160, LS205-200	AC	2,650	1,630	2,160	–
LS132VSD, LS160VSD, LS205-200VSD	AC	2,660	1,630	2,160	–
LS180p, LS200, LS250, LS280, LS255-350	WC	3,300	2,200	2,150	Rc2
LS180pVSD, LS200VSD, LS250VSD, LS280VSD, LS255-350VSD	WC	3,300	2,200	2,400	Rc2
LS180p, LS200, LS250, LS280, LS255-350	AC	3,300	2,200	2,320	–
LS180pVSD, LS200VSD, LS250VSD, LS280VSD, LS255-350VSD	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.

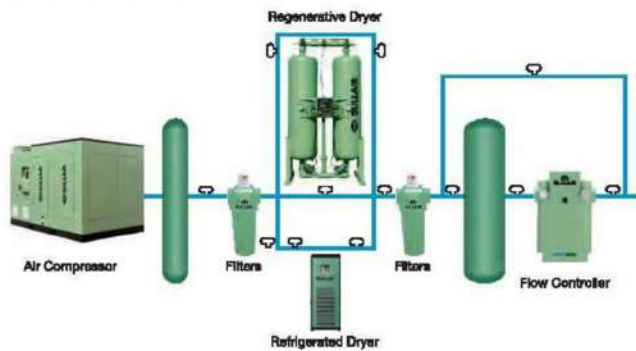
Sullair Compressed Air System

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: ISO8537.1 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.

Specifications

Type	Description	Model		Pipe diameter (NPT)	Capacity (m³/min)	Dimension (mm)						Weight (kg)
		Micron rating	Oil carryover ppm(w)			A	B	C	D	E	F	
SCF	General converged	1	0.05	Standard taper pipe thread								
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"	9.8	170	433	383		100		5.1
		485		2"	13.3	170	524.5	474.5		100		7
		700		2"	19.8	170	525	475		100		7
		810		3"	25.8	206	842	582		100		11.1
		1315		3"	37.3	206	832	772		100		13.9
	CPF, CPH, CPC Flange filter											
		1700		DN100	48	100FLG	450	1,140	170	650	201	84
		2200		DN100	63	100FLG	450	1,140	170	650	201	105

Sullair Refrigerated Dryer

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

Specifications

Model	Flow rate (m³/min)	Power input (kW)	Connection pipe diameter	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
SRC-980	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	460
SRC-1850	48.2	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	680

* Reference working condition, Inlet temperature 42C, ambient temperature 36C, Inlet pressure 7bar.



Hitachi Oil Free Scroll Compressor

SRL-series (1.5 – 33 kW)

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

Scroll Head (as Cut Model)

SRL-2.2DMN

SRL-5.5ME5A

SRL-7.5ME5A

SRL-22ME5A

Model Nomenclature

SRL – 5.5 D MN 5

OIL FREE SCROLL

- Frequency (5 : 50Hz, 6 : 60Hz)
- NECOTL (with IE3 motor)
- Built-in Air Dryer
- Motor Nominal Output (kW)

SRL – 5.5ME 5 A

OIL FREE SCROLL

- for A-axis
- Frequency (5 : 50Hz, 6 : 60Hz)
- ME type
- Motor Nominal Output (kW)

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.

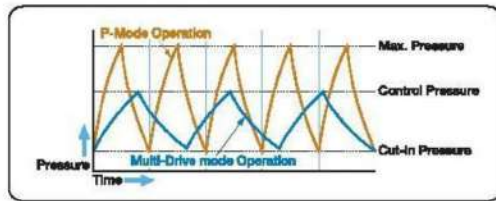
- ① No need to change oil and separate the oil from drain. No need to install oil mist filter as well.*
- ② Well-designed structure utilizes easy maintenance of draining and cleaning of suction filters.

*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.

Specifications

Built-in Air Dryer Model

Control Method	Model	P-Mode					Multi-Drive Mode / P-Mode			
		SRL-1.5DMN5 SRL-1.5DMN6	SRL-2.2DMN5 SRL-2.2DMN6	SRL-3.7DMN5 SRL-3.7DMN6	SRL-5.5DMN5 SRL-5.5DMN6	SRL-7.5DMN5 SRL-7.5DMN6	SRL-11DMN5 SRL-11DMN6	SRL-16DMN5 SRL-16DMN6	SRL-22DMN5 SRL-22DMN6	
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.7	11	16.5	22	
Max. Discharge Pressure	MPa	0.8	0.8 (1.0)	0.8 (1.0)			0.8 (1.0)			
ON-OFF Control Pressure	MPa	0.85 - 0.8 (0.8 - 1.0)								
Air Capacity	L/min	170	255 (200)	425 (345)	640 (500)	890 (700)	1,280 (1,000)	1,920 (1,500)	2,560 (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		980x860x1,450		1,280x770x1,450	1,360x925x1,930	
Weight	kg	135	149	191	225	353 (360)	397 (391)	576 (567)	799 (787)	
Noise Level	dB(A)	45	46	47	50	53	56	58	61	

Without Air Dryer Model

Control Method	Model	P-Mode				Multi-Drive Mode / P-Mode					
		SRL-1.5MESA SRL-1.5MESA	SRL-2.2MESA SRL-2.2MESA	SRL-3.7MESA SRL-3.7MESA	SRL-5.5MESA SRL-5.5MESA	SRL-7.5MESA SRL-7.5MESA	SRL-11MESA SRL-11MESA	SRL-16MESA SRL-16MESA	SRL-22MESA SRL-22MESA	SRL-33MESA SRL-33MESA	
Motor Nominal Output	kW	1.5	2.2	3.7	5.5	7.7	11	16.5	22	33	
Max. Discharge Pressure	MPa	0.86	0.86 (1.0)	0.86	0.86 (1.0)			0.80 (1.0)			
ON-OFF Control Pressure	MPa	0.85 - 0.85 (0.8 - 1.0)					0.65 - 0.6 (0.6 - 1.0)				
Air Capacity	L/min	160	240 (200)	400	600 (500)	890 (700)	1,280 (1,000)	1,890 (1,500)	2,520 (2,000)	3,780 (3,000)	
Ambient Temperature	°C	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		1,280x770x1,450	1,330x890x1,900	1,360x1,030x1,670	
Weight	kg	119	129	175	184	315 (312)	350 (344)	515 (508)	720 (708)	1,000	
Noise Level	dB(A)	45	48	47	50	57	59	61	61	63	

- NOTE:
- Air capacity is converted value at its inlet condition. For guaranteed values, contact your nearest dealer or Hitachi local representative office.
 - Air capacity from the air dryer is about 3% to 5% less than the one from the compressor due to the drain condensation.
 - 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.
 - If the air dryer operates at the same time, the noise level may be enlarged by 1 to 2 dB [A].
 - 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.
 - 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).
- External dimensions indicate the package panel ONLY, NOT including protruding objects as discharge outlet.
- Outlet air dew point is measured under the ambient temperature of 30°C.
- Ambient temperature must be between 0 (at which there is no freeze of drain water) and 40°C.
- 1.0MPa model is optional.
- 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.
- Hitachi air compressors are not designed, intended or approved for breathing air applications.



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

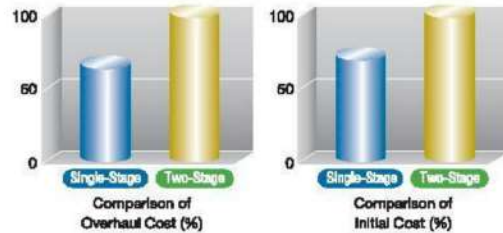


*The above picture shows the internal structure of 55kW Air-Cooled model (V-type).

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.



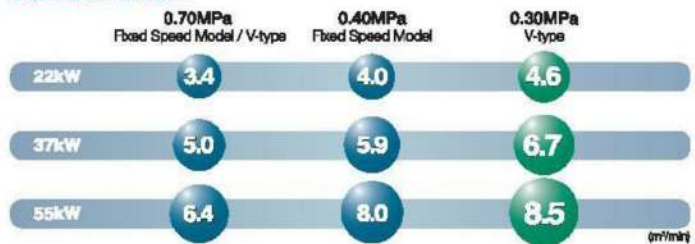
*Example of Hitachi 55kW (Single-Stage) and 45kW (Two-Stage), Without Dryer model.

Expanded Line-Up (Low Pressure)

0.30MPa model is newly added

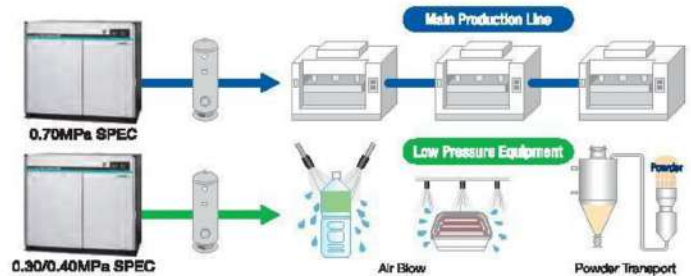
V-type 0.30MPa and Fixed Speed Model 0.40MPa models are available for low pressure application to save the energy.

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.



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		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	1,400x970x1,400							
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.

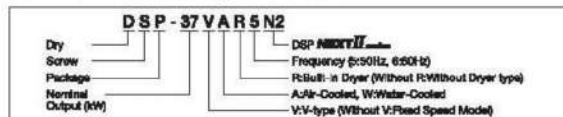
Item/Unit	Model	DSP-22VA [R] 5N2 DSP-22VA [R] 6N2		DSP-37VA [R] 5N2 DSP-37VA [R] 6N2		DSP-55VA [R] 5N2 DSP-55VA [R] 6N2		DSP-37VWN2		DSP-55VWN2	
Cooling Method	—	Air-Cooled						Water-Cooled			
Discharge Pressure	MPa	0.70	0.30	0.70	0.30	0.70	0.30	0.70	0.30	0.70	0.30
Discharge Air Capacity	m³/min	3.4	4.6	5.0	6.7	6.4	8.5	5.0	6.7	6.4	8.5
PQ	Discharge Pressure	MPa	0.60	—	0.80	—	0.80	—	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 [0.60]	—	0.40 [0.60]	—	0.40 [0.60]	—	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)		18 (Not filled)		14 (Not filled)			
Cooling Fan Motor Output	kW	0.75		0.9		0.9		0.2			
Cooling Water Flow Rate	L/min	—		—		—		60			
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	1,850x970x1,400		1,850x990x1,580		2,230x960x1,580		1,850x990x1,580			
Sound Level (1.5m from front)	dB(A)	63	64	66	68	68	70	64	66	64	68

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

Item/Unit	Model	DSP-15W6N2 DSP-15W6N2		DSP-22W6N2 DSP-22W6N2		DSP-37W6N2 DSP-37W6N2		DSP-55W6N2 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	2.6	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	—				36 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 (WxDxH)	mm	1,400x970x1,400							
Sound Level (1.5m from front side)	dB(A)	62	63	63	64	64	66	64	66

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 0.40MPa or lower discharge pressure. P.D.P can be 13 degree C at 0.80MPa of discharge pressure PQ WIDEMODE ON.
- Built-in dryer 0.30MPa model is NOT available.
- 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.





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



*The above picture shows 76kW 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

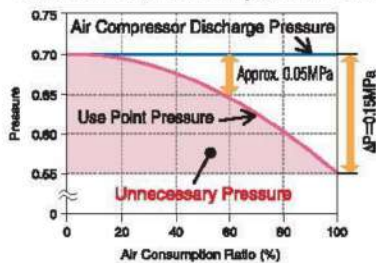
Example of effect by IPC

- 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)

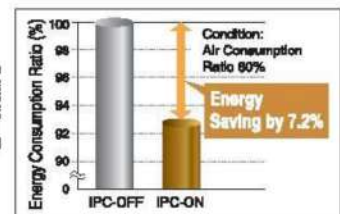
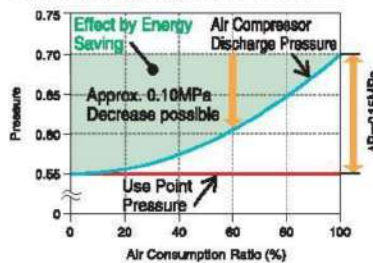
① IPC-OFF

- 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)

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

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.

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



Specifications

Air-Cooled (22/37kW)

[]: Indicates model with Dryer Integrated.

Item \ Unit	Model	Fixed Speed Model						V-type Model	
		DSP-22AT [R] 6N2 DSP-22AT [R] 6N2		DSP-30AT [R] 6N2 DSP-30AT [R] 6N2		DSP-37AT [R] 6N2 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	4.8
Discharge Air Capacity at PQ wide ON of 0.6MPa	m³/min	-						6.0	5.6
Nominal Motor Output	kW	22		30		37		37	
Motor Type	-	4-Pole TEFC						6-Pole DCBL	
Intake Air Pressure / Temperature	°C	Atmospheric Pressure / 0 - 45 [2 - 45]						Atmospheric Pressure / 0 - 45 [2 - 45]	
Discharge Temperature	°C	Ambient Temperature +15 or below						Ambient Temperature +15 or below	
Discharge Pipe Diameter	B	Rc1-1/2						Rc1-1/2	
Starting Method	-	Star-Delta (3 contact)						Soft Start	
Driving Method	-	V-Belt with Auto Tensioner - Gear-Driven						Direct Connection + Gear Driven	
Lubricating Oil Filling	L	15 (Not filled)						15 (Not filled)	
Output of Cooling Fan	kW	1.1 (Inverter)						1.1 (Inverter)	
	P.D.P	[10 (Under Pressure)]						[10 (Under Pressure)]	
[Dryer] Refrigerator Nominal Output	kW	[1.45]						[1.45]	
[Dryer] Refrigerant	-	[R410A]						[R410A]	
Weight	kg	1,120 [1,180]		1,230 [1,280]		1,230 [1,280]		850 [1,010]	
Dimensions (WxDxH)	mm	1,530x1,160x1,650						1,630x1,160x1,650	
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] 6N2 DSP-45AT [R] 6N2		DSP-55AT [R] 6N2 DSP-55AT [R] 6N2		DSP-75AT [R] 6N2 DSP-75AT [R] 6N2		DSP-55VAT [R] N2		DSP-75VAT [R] N2	
Discharge Pressure	MPa	0.70	0.83	0.70	0.83	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	10.6/11.1	9.3	7.7	12.6	10.9
Discharge Air Capacity at PQ wide ON of 0.6MPa	m³/min	-						9.8	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	°C	Atmospheric Pressure / 0 - 45 [2 - 45]						Atmospheric Pressure / 0 - 45 [2 - 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)						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)		2.2 (Inverter)		1.5 (Inverter)	2.2 (Inverter)	1.5 (Inverter)	2.2 (Inverter)
	P.D.P	[10 (Under Pressure)]						[10 (Under Pressure)]			
[Dryer] Refrigerator Nominal Output	kW	[2.2]		[3.0]		[3.0]		[2.2]	[3.0]	[2.2]	[3.0]
[Dryer] Refrigerant	-	[R410A]		[R407C]		[R407C]		[R410A]	[R407C]	[R410A]	[R407C]
Weight	kg	1,600 [1,750]		1,660 [2,030]		1,660 [2,030]		1,340 [1,490]	1,560 [1,730]	1,340 [1,490]	1,560 [1,730]
Dimensions (WxDxH)	mm	2,000x1,300x1,800		2,250x1,300x1,800		2,250x1,300x1,800		2,000x1,300x1,800	2,250x1,300x1,800	2,000x1,300x1,800	2,250x1,300x1,800
Noise Level (1.5m from front side)	dB(A)	63	65	63	65	68	68	63	66	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-100VA6MN2 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	16.8	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	1.5x2						1.5x2	
Weight	kg	2,200		2,380		2,380		2,300	
Dimensions (WxDxH)	mm	2,150x1,520x1,975		2,150x1,520x1,975		2,150x1,520x1,975		2,150x1,520x1,975	
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.
- R.D.P is measured at 30 degree C of intake air temperature and rated discharge pressure. P.D.P can be much worse at 0.6MPa or lower discharge pressure. P.D.P can be 13 degree C at 0.6MPa 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.



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



*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

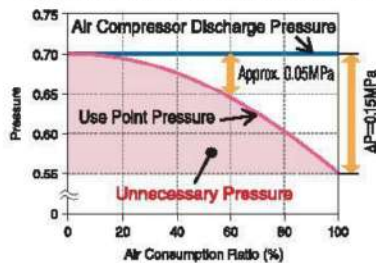
Example of effect by IPC

- 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)

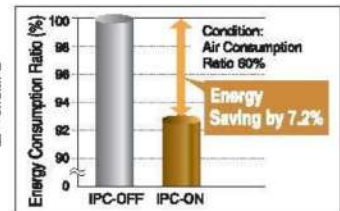
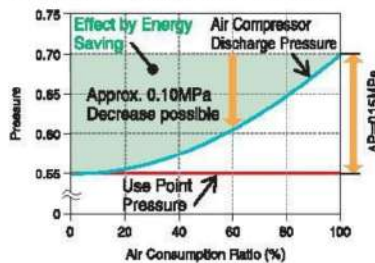
① IPC-OFF

- 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)

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

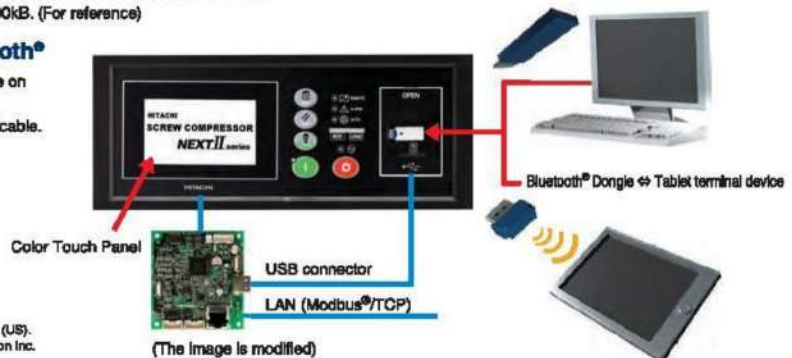
Web Server Function via Bluetooth®

- *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.

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



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-55WT [R] 5N2		DSP-75WT [R] 5N2		DSP-55VWT [R] N2		DSP-75VWT [R] N2	
		DSP-46WT [R] 6N2	DSP-66WT [R] 6N2	DSP-76WT [R] 6N2	DSP-55WT [R] N2	DSP-75WT [R] N2	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)	m ³ /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				6-Pole DCBL					
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 – 45 [2 – 45]				Atmospheric Pressure / 0 – 45 [2 – 45]					
Discharge Temperature	°C	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)				Soft Start					
Driving Method	—	Direct Connection + Gear Driven				Direct Connection + Gear Driven					
Lubricating Oil Filling	L	15 (Not filled)				15 (Not filled)					
Output of Cooling Fan	kW	0.05x2				0.05x2					
Cooling Water Capacity	L/min	90		120		90		120			
Cooling Water Temperature	°C	35 or below				36 or below					
Cooling Water Pipe Dia	B	Rc 1-1/4				Rc 1-1/4					
[Dryer] P.D.P	°C	[10 (Under Pressure)]				[10 (Under Pressure)]					
[Dryer] Refrigerator Nominal Output	kW	[2.2]		[3.0]		[2.2]		[3.0]			
[Dryer] Refrigerant	—	[R410A]		[R407C]		[R410A]		[R407C]			
Weight	kg	1,580 [1,730]		1,710 [1,880]		1,320 [1,470]		1,410 [1,680]			
Dimensions (WxDxH)	mm	2,000x1,300x1,800				2,000x1,300x1,800					
Noise Level (1.5m from front side)	dB(A)	63		63		65		66			

Water-Cooled (90/100/120kW)

Item+Unit	Model	Fixed Speed Model				V-type Model	
		DSP-90WS [L] MN2		DSP-100WS [L] MN2		DSP-100VWS MN2	
		DSP-90WB [L] MN2	DSP-100WB [L] MN2	DSP-100VWS MN2	DSP-100VWS MN2		
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93
Discharge Air Capacity	m ³ /min	16.8	14.0	18.3	15.6	18.3	15.6
Nominal Motor Output	kW	90		100		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	°C	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	°C	35 or below				35 or below	
Cooling Water Pipe Dia	B	Rc 1-1/2				Rc 1-1/2	
Weight	kg	2,050		2,230		2,200	
Dimensions (WxDxH)	mm	2,150x1,520x1,825				2,150x1,520x1,825	
Noise Level (1.5m from front side)	dB(A)	68		68		67	

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 0.80MPa 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 concave 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)



*The above picture shows the internal structure of 240kW Water-Cooled model (V-type).

High Capacity by Equipping New NEXT II_{air-end} Air-End

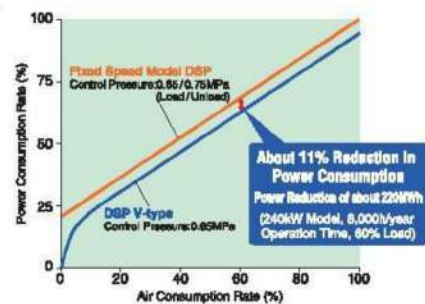
Low Noise Low Vibration

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_{air-end} with Built-In Inverter.



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

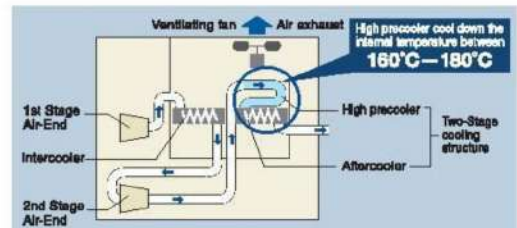
High Reliability and Easy Maintenance

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 pre-cooler system (Air-Cooled models)
High pre-cooler 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.



Specifications

Water-Cooled, V-type Model (180/240kW)

Item/Unit	Model	DSP-180VW6N2 DSP-180VW6N2			DSP-240VW6N2 DSP-240VW6N2		
		0.75	0.93	1.0	0.75	0.93	1.0
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0
Discharge Air Capacity	m ³ /min	28.5	24.8	29.2	40.5	35.0	32.5
Nominal Motor Output	kW	180			240		
Motor Type	—	4-Pole TEFC Flange Motor					
Intake Air Pressure / Temperature	℃	Atmospheric Pressure / 0 - 45					
Discharge Air Temperature	℃	Cooling Water Temperature +13 or below					
Discharge Air Pipe Diameter	φ	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	℃	35 or below					
Coolant Water Pipe Diameter	φ	Rc2					
Lubricating Oil Quantity	L	40 (Not filled)			50 (Not filled)		
Cooling Fan Motor Output	kW	0.4					
Weight	kg	3,900			4,900		
Dimensions (WxDxH)	mm	2,500x1,600x1,925			2,800x1,800x1,950		
Sound Level (1.5m from front side)	dB(A)	70			71		

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

Item/Unit	Model	DSP-132A6N2 DSP-132A6N2			DSP-145A6N2 DSP-145A6N2			DSP-180A6N2 DSP-180A6N2			DSP-200A6N2 DSP-200A6N2			DSP-240A6N2 DSP-240A6N2		
		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 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	m ³ /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			180			200			240		
Motor Type	—	4-Pole TEFC Flange Motor														
Intake Air Pressure / Temperature	℃	Atmospheric Pressure / 0 - 45														
Discharge Air Temperature	℃	Ambient Temperature +15 or below														
Discharge Air Pipe Diameter	φ	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)						80 (Not filled)								
Cooling Fan Motor Output	kW	4.4 (1.1x4)						6.0 (1.5x4)								
Weight	kg	3,880			3,900			5,000								
Dimensions (WxDxH)	mm	2,900x1,700x1,925						3,200x1,800x1,950								
Sound Level (1.5m from front side)	dB(A)	73	74	74	75	74	75	76	77	77	77	78	77	77	77	78

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

Item/Unit	Model	DSP-132WSN2 DSP-132WSN2			DSP-145WSN2 DSP-145WSN2			DSP-180WSN2 DSP-180WSN2			DSP-200WSN2 DSP-200WSN2			DSP-240WSN2 DSP-240WSN2		
		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 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	m ³ /min	23.4	20.7	19.5	26.0	22.2	20.6	28.5	24.8	23.2	37.0	32.2	30.0	40.6	36.0	32.5
Nominal Motor Output	kW	132			145			180			200			240		
Motor Type	—	4-Pole TEFC Flange Motor														
Intake Air Pressure / Temperature	℃	Atmospheric Pressure / 0 - 45														
Discharge Air Temperature	℃	Cooling Water Temperature +13 or below														
Discharge Air Pipe Diameter	φ	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	℃	35 or below														
Coolant Water Pipe Diameter	φ	Rc2														
Lubricating Oil Quantity	L	40 (Not filled)						50 (Not filled)								
Cooling Fan Motor Output	kW	0.4														
Weight	kg	3,780						4,800								
Dimensions (WxDxH)	mm	2,500x1,800x1,925						2,800x1,800x1,950								
Sound Level (1.5m from front side)	dB(A)	68	69	69	70	69	70	69	70	69	70	70	70	70	70	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 pealage 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.
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AS Series

- 4 to 110 kW, 20 CFM to 710 CFM
- 7.5 bar, 8.5 bar, 10.5 bar & 12.5 bar
- 2 years air end warranty
- Choice of lubricant SRF, Sullube & Pristine FG
- Inlet modulation



LS Series

- Motor capacity: 90 kW to 450 kW
- FAD: 770 CFM to 2828 CFM
- Pressure: 5.5 bar, 7.5 bar, 8.5 bar, 10.5 bar & 12.5 bar
- Inlet modulation, VCC and VFD



LH Series - High Efficiency Screw Air Compressor

- Motor capacity: 22 kW to 160 kW
- FAD: 148 CFM to 1124 CFM
- Pressure: 7.5 bar, 8.5 bar, 10.5 bar and 12.5 bar
- Inlet modulation, VCC and VFD



TS Series - Two Stage

- Motor capacity: 75 to 450 kW
- FAD: 526 CFM to 3000 CFM
- Pressure: 7.5 bar, 8.5 bar, 10.5 bar & 12.5 bar
- Two stage compression, Interstage cooling process



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In the spirit of innovation, specifications and features are subject to change without notice.