

HITACHI OIL-FREE SCREW COMPRESSOR

**HITACHI**  
Inspire the Next

# OIL FREE SCREW

SINGLE STAGE / TWO STAGE



Oil-Free Rotary Screw Air Compressor, DSP Series

15–55kW Single-Stage

NEXT II series

MPa: 0.30/0.40/0.70  
m³/min: 2.0 - 8.5

- Vtype
- Fixed Speed
- Air-Cooled
- Water-Cooled
- With Built-in Dryer
- Without Dryer



22–120kW Two-Stage

NEXT II series

MPa: 0.70/0.88/0.93/1.0  
m³/min: 3.2 - 21.0

- Vtype
- Fixed Speed
- Air-Cooled
- Water-Cooled
- With Built-in Dryer
- Without Dryer



132–240kW Two-Stage

NEXT II series

MPa: 0.75/0.93/1.0  
m³/min: 19.0 - 40.5

- Vtype
- Fixed Speed
- Air-Cooled
- Water-Cooled
- Without Dryer



OIL FREE SCREW (DSP) Model List

● Fixed Speed Type

Model			Nominal Output (kW)															
Single-Stage	Air-Cooled	Built-in Dryer	●	●		●		●										
		Without Dryer	●	●		●		●										
	Water-Cooled	Without Dryer	●	●		●		●										
Two-Stage	Air-Cooled	Built-in Dryer		●	●	●	●	●	●									
		Without Dryer		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Water-Cooled	Built-in Dryer					●	●	●									
		Without Dryer					●	●	●	●	●	●	●	●	●	●	●	●

● Vtype

Model			Nominal Output (kW)															
Single-Stage	Air-Cooled	Built-in Dryer		●		●		●										
		Without Dryer		●		●		●										
	Water-Cooled	Without Dryer				●		●										
Two-Stage	Air-Cooled	Built-in Dryer				●		●	●									
		Without Dryer				●		●	●		●				●		●	
	Water-Cooled	Built-in Dryer						●	●									
		Without Dryer						●	●		●				●		●	

Structure of High Performance Airend

Stainless Steel Rotor

The rotor material, machined by high-precision grinding, is a special stainless steel that excels in corrosion resistance and durability. In addition, to minimize internal leakage, the rotor is mirror finished to ensure proper clearance, taking thermal expansion during operation into consideration.

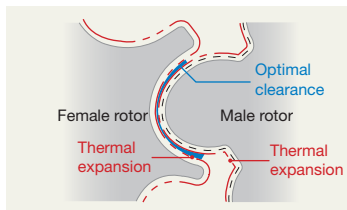
High Performance Rotor Profile

Rotors exposed to discharge temperatures of 300°C or more in single-stage machines and 200°C or more in two-stage machines undergo significant thermal expansion. Hitachi's own 3D compensation technology is applied to ensure that appropriate clearance is maintained during operation with thermal expansion.

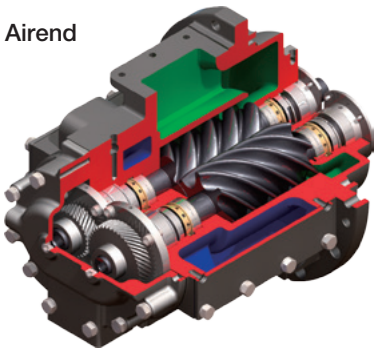
High Performance Coating

Patent JP05416072

The rotor is coated with a solid lubricant to further reduce gaps between rotors and improve performance. This solid lubricant coating has sufficient performance even in harsh environments of over 300°C. Hitachi's unique technology is applied to this coating.



Airend



Shaft Seal To Prevent Oil Leakage

The visco-type seal, designed by Hitachi for oil-free screw compressors, actively repels oil with its internal spiral grooves. The combination of the air seal and visco-type seal prevents oil from entering the compression chamber.



Bearing & Timing Gear

Special ball and roller bearings are used, and jet lubrication is adopted. In addition, precision-finished timing gears ensure proper clearance between rotors.



DSP NEXT II series Common Features

Premium Air Quality

True Oil-Free Air at Class 0 Level

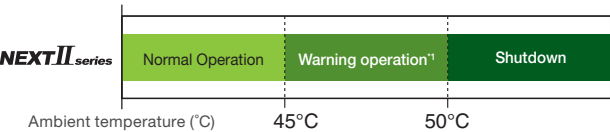
Test and analysis of condensation of oil in the discharge air of Hitachi Oil-free Screw Compressor (DSP) are implemented by third party (TÜV) based on ISO8573-1 standard. By the test result, oil contained in the discharge air of Hitachi DSP is proved and certified as the highest level of quality air "Class 0".



45°C Reliability at high temperature operation

Stable continuous operation in ambient temperature of 45°C (Running up to 50°C)

A new unit structure that minimizes temperature rise inside the compressor enables both continuous operation at an ambient temperature of 45°C and a long maintenance cycle, with no abnormal shutdown even at 50°C.



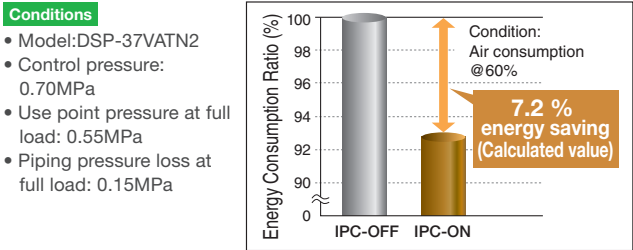
\*1:The alarm is displayed when the ambient temperature is over 45°C. In addition, the life of lubricating oil and electrical devices will be shortened in the case of long operation over 45°C.

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.

JP patent No.4425768 and others

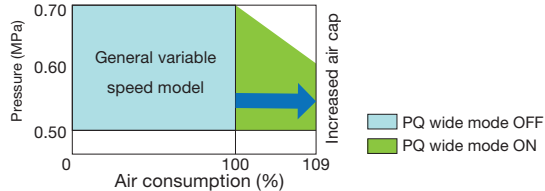
Example of effect by IPC



\*Use point pressure is changed according to working condition because of predicted control.

PQ PQ wide mode

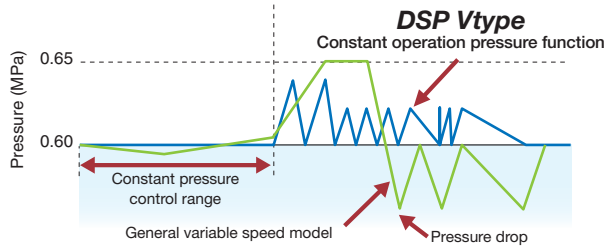
Compared to general variable speed machines, a wider range of operation is possible for both pressure (P) and air volume (Q). Automatic adjustment of the maximum speed allows the amount of air discharged to be increased when the working pressure is reduced.



\*The above figure is example of 37kW, 0.7MPa model. Please refer to the specification sheet for the discharge air capacity in each model.

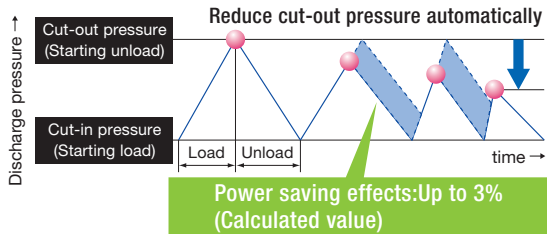
Constant operation pressure function

In general, a variable speed compressor requires a higher pressure setting because pressure drops occur during low-load operation or automatic start/stop. Our unique control maintains the set pressure.



ECO-MODE (Energy-saving operation control)

Automatically reduces the cut-out pressure according to the load ratio. This eliminates wasteful pressure boosting and realizes energy-saving operation.



User-friendly operation interface

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)

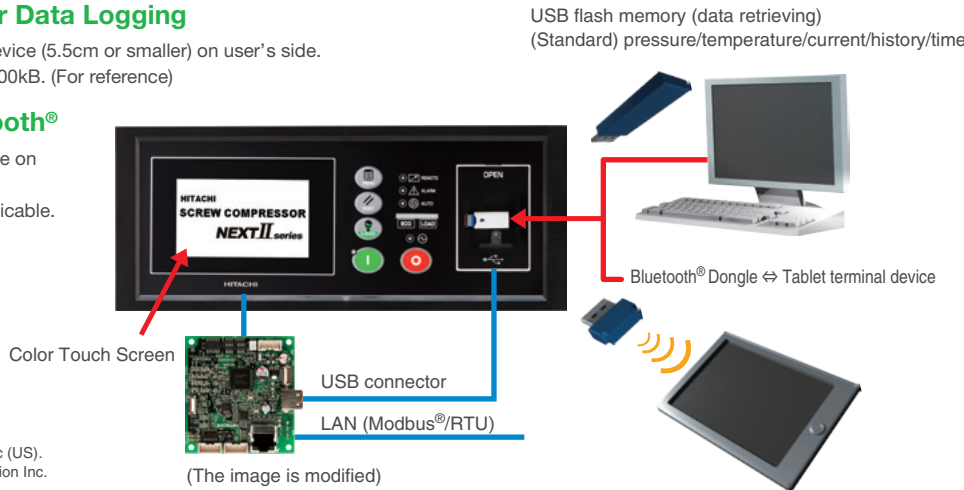
Web Server Function via Bluetooth®

\*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.

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



Long cycle and simple maintenance

Hitachi provides global after-sales service with our high quality spare parts and strong engineering experience.

**HITACHI FOOD GRADE ROTARY COMPRESSOR OIL (Option)**

Hitachi genuine lubricant used in food industry with high demand for "Food safety", fully complied with "HACCP".

**NSF**

Nonfood Compounds Program Listed H1 NSF-Reg.No. 150658

**HITACHI ROTARY COMPRESSOR OIL**

Hitachi dedicated mineral oil with high performance and reliability.

**Standard Oil Mist Remover (OMR)**

99.99% recovery of oil mist occurred from gear case

**Simple package filter (Option)**

Cleaning period is shown on touch panel per setting time.

**High withstand load type bearing**

6 years long overhaul period

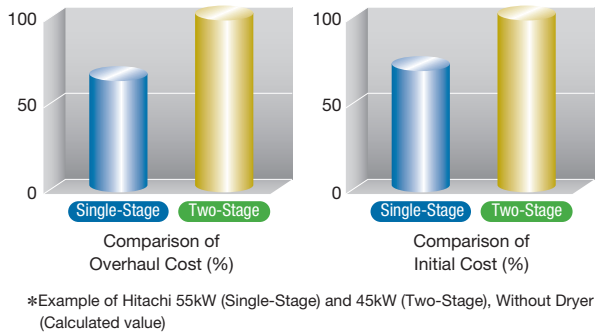
Single-Stage (15-55kW)



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

Cut Down Overhaul and Initial Cost

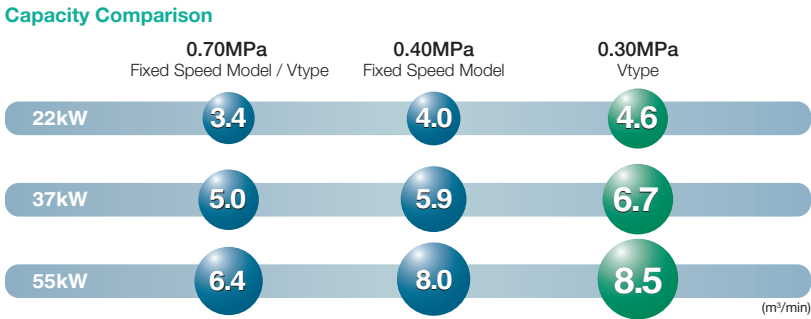
DSP single-stage has only one airend inside. It makes its initial cost much lower than two-stage model. The overhaul cost, which covers the most of maintenance cost, is about 60% of Two-Stage for the same reason.



Low Pressure with Higher Air Capacity

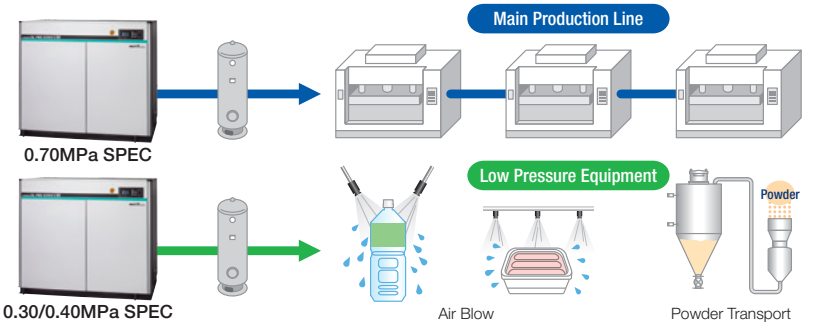
0.30MPa model is newly added

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



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 Output		kW	15		22		37		55	
Intake Air Pressure / Temperature		—	Atmospheric Pressure / 0 – 45°C [2 – 45°C]							
Discharge Air Temperature		°C	Ambient Temperature +15 or below							
Discharge Pipe Diameter		—	Rc1		Rc1-1/2					
Starting Method		—	Direct On-Line		Star-Delta (3 contactors)					
Driving Method		—	4-Pole TEFC Motor with V-Belt + Gear Driving							
Lubricating Oil Capacity		L	12 (Not filled)				18 (Not filled)			
Cooling Fan Motor Output		kW	0.4		0.65		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 (W×D×H)		mm	1,400×970×1,400							
Noise Level (1.5m from front side)		dB(A)	62	63	63	64	66	68	68	70

Air-Cooled / Water-Cooled, Vtype 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 Output		kW	22		37		55		37		55	
Intake Air Pressure / Temperature		—	Atmospheric Pressure / 0 – 45°C [2 – 45°C]						Atmospheric Pressure / 0 – 45°C			
Discharge Air Temperature		°C	Ambient Temperature +15 or below						Cooling Water Temperature +13 or below			
Discharge Pipe Diameter		—	Rc1-1/2						Rc1-1/2			
Starting Method		—	Inverter						Inverter			
Driving Method		—	4-Pole TEFC Motor with V-Belt + Gear Driving						4-Pole TEFC Motor with V-Belt + Gear Driving			
Lubricating Oil Capacity		L	12 (Not filled)		18 (Not filled)		14 (Not filled)		14 (Not filled)			
Cooling Fan Motor Output		kW	0.65		0.9		0.2		0.2			
Cooling Water Flow Rate		L/min	—						80			
Cooling Water Temperature		°C	—						32 or below			
Cooling Water Pipe Diameter		—	—						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 (W×D×H)		mm	1,650×970×1,400		1,830×980×1,580		2,230×980×1,580		1,830×980×1,580			
Noise Level (1.5m from front side)		dB(A)	63	64	66	68	68	70	64	66	64	66

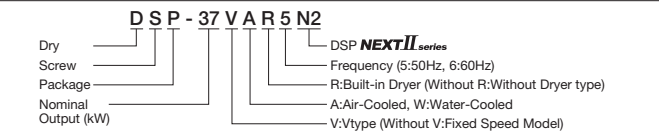
Water-Cooled, Fixed Speed Model (15-55kW)

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 Output	kW	15		22		37		55		
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 – 45℃								
Discharge Air Temperature	℃	Cooling Water Temperature+13 or below								
Discharge Pipe Diameter	—	Rc1		Rc1-1/2						
Cooling Water Flow Rate	L/min	50				80				
Cooling Water Temperature	℃	35 or below								
Cooling Water Pipe Diameter	—	Rc3/4				Rc1				
Starting Method	—	Direct On-Line		Star-Delta (3 contactors)						
Driving Method	—	4-Pole TEFC Motor with V-Belt + Gear Driving								
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				
Noise Level (1.5m from front side)	dB(A)	62	63	63	64	64	66	64	66	

NOTE:

- Capacity is measured according to ISO 1217, Annex C.
- Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
- Noise level is the converted value in an anechoic room measured under the condition that at full load running operation at 1.5m in front and 1m in height, the timing of the closure of cooler drain automatic discharge valve. It could be larger depending on the actual installation and its environment. It is not a guaranteed value. It could increase by approx. 2dB when PQ WIDEMODE is ON.
- P. D. P (Pressure Dew Point) of a built-in dryer model is measured in ambient temperature 30 °C, inlet temperature 45 °C, and under the rated pressure. For the built-in dryer model, P. D. P drops at lower operating pressure. When the PQ wide mode is ON and the pressure is 0.7 MPa or less, the outlet P. D. P increases by approx. 3°C at 0.6MPa.
- Built-in dryer 0.30MPa model is NOT available.
- Discharged air capacity of a built-in dryer model decreases by approximately 3% when drain condenses.

- In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40°C.
- Earth leakage breaker is not built in the compressor. Prepare by customer.
- Do not use the respiratory equipment to suck the compressed air directly.
- Discharge pressure is gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
- Appearance and specifications are subject to change without notice.





# Two-Stage (22-120kW)



## Specifications

### Water-Cooled, Fixed Speed / Vtype Model (45-75kW)

Item・Unit		Model	Fixed Speed Model						
			DSP-45WT [R] 5N2		DSP-55WT [R] 5N2			DSP-75WT [R] 5N2	
			DSP-45WT [R] 6N2		DSP-55WT [R] 6N2			DSP-75WT [R] 6N2	
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	1.0	0.70	0.93	1.0
Discharge Air Capacity (50Hz/60Hz)	m³/min	7.5/7.9	6.4/6.7	9.4	7.4/7.9	6.4/6.6	13.2	10.7/11.3	9.6/9.7
Discharge Air Capacity at PQ wide ON of 0.6MPa		—							
Nominal Output	kW	45		55			75		
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 – 45°C [5 – 45°C]					Atmospheric Pressure / 0 – 45°C [2 – 45°C]		
Discharge Air Temperature	°C	Cooling Water Temperature +13 or below							
Discharge Pipe Diameter	—	2 in (Flange)							
Starting Method	—	Star-Delta (3 contactors)							
Driving Method	—	2-Pole TEFC motor with Direct Connection + Gear Driving							
Lubricating Oil Capacity	L	15 (Not filled)							
Cooling Fan Motor Output	kW	0.05×2							
Cooling Water Flow Rate	L/min	90					120		
Cooling Water Temperature	°C	35 or below							
Cooling Water Pipe Diameter	—	Rc 1-1/4							
[Dryer]	P.D.P	°C	[10 (Under Pressure)]			Built-in dryer model is NOT available.	[10 (Under Pressure)]		Built-in dryer model is NOT available.
	Refrigerator Nominal Output	kW	[2.2]				[3.0]		
	Refrigerant	—	[R407C]				[R410A]		
Weight	kg	1,580 [1,730]			1,580	1,710 [1,880]		1,710	
Dimensions (W×D×H)	mm	2,000×1,300×1,800							
Noise Level (1.5m from front side)	dB(A)	63		63			65	66	

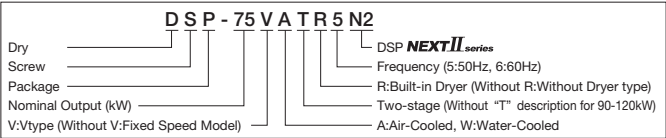
### Water-Cooled, Fixed Speed / Vtype Model (90-120kW)

Model Item・Unit		Fixed Speed Model					
		DSP-90W5 [L] MN2 DSP-90W6 [L] MN2		DSP-100W5 [L] MN2 DSP-100W6 [L] MN2		DSP-120W5MN2 DSP-120W6MN2	
Discharge Pressure	MPa	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
Nominal Output	kW	90		100		120	
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 – 45℃					
Discharge Air Temperature	℃	Cooling Water Temperature +13 or below					
Discharge Pipe Diameter	—	2 in (Flange)					
Starting Method	—	Star-Delta (3 contactors)					
Driving Method	—	2-Pole TEFC motor with Direct Connection + Gear Driving					
Lubricating Oil Capacity	L	16 (Not filled)					
Cooling Fan Motor Output	kW	0.05×3 [0.2×2]				0.05×3	
Cooling Water Flow Rate	L/min	160				180	
Cooling Water Temperature	℃	35 or below					
Cooling Water Pipe Diameter	—	Rc 1-1/2					
Weight	kg	2,050				2,230	
Dimensions (W×D×H)	mm	2,150×1,520×1,825					
Noise Level (1.5m from front side)	dB(A)	66	68	67	69	69	70

#### NOTE:

- Capacity is measured according to ISO 1217, Annex C.
- Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
- Noise level is the converted value in an anechoic room measured under the condition that at full load running operation at 1.5m in front and 1m in height, the timing of the closure of cooler drain automatic discharge valve. It could be larger depending on the actual installation and its environment.It is not a guaranteed value. It could increase by approx. 2dB when PQ WIDEMODE is ON.
- P. D. P (Pressure Dew Point) of a built-in dryer model is measured in ambient temperature 30 °C, inlet temperature 45 °C, and under the rated pressure. For the built-in dryer model, P. D. P drops at lower operating pressure. When the PQ wide mode is ON and the pressure is 0.7 MPa or less, the outlet P. D. P increases by approx. 3°C at 0.6MPa.
- Discharged air capacity of a built-in dryer model decreases by approximately 3% when drain condenses.
- In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40°C.

- Earth leakage breaker is not built in the compressor. Prepare by customer.
- Do not use the respiratory equipment to suck the compressed air directly.
- Discharge pressure is gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
- Appearance and specifications are subject to change without notice.



## Specifications

### Air-Cooled, Fixed Speed / Vtype Model (22-37kW)

[ ] : Indicates model with Dryer integrated.

Item・Unit		Model	Fixed Speed 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	
Discharge Pressure		MPa	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
Discharge Air Capacity at PQ wide ON of 0.6MPa			—					
Nominal Output		kW	22		30		37	
Intake Air Pressure / Temperature		—	Atmospheric Pressure / 0 – 45°C [2 – 45°C]					
Discharge Air Temperature		°C	Ambient Temperature +15 or below					
Discharge Pipe Diameter		—	Rc1-1/2					
Starting Method		—	Star-Delta (3 contactors)					
Driving Method		—	4-Pole TEFC Motor with V-Belt + Gear Driving					
Lubricating Oil Capacity		L	15 (Not filled)					
Cooling Fan Motor Output		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]			
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

### Air-Cooled, Fixed Speed / Vtype Model (45-75kW)

[ ] : Indicates model with Dryer integrated.

Item・Unit		Model	Fixed Speed 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			
Discharge Pressure	MPa		0.70	0.93	0.70	0.93	1.0	0.70	0.93	1.0
Discharge Air Capacity	m³/min		7.4/7.8	6.2/6.5	9.2	7.2/7.7	5.9/6.2	13.0	10.5/11.1	9.1
Discharge Air Capacity at PQ wide ON of 0.6MPa			—							
Nominal Output	kW		45		55		75			
Intake Air Pressure / Temperature	—		Atmospheric Pressure / 0 – 45℃ [5 – 45℃]					Atmospheric Pressure / 0 – 45℃ [2 – 45℃]		
Discharge Air Temperature	℃		Ambient Temperature +15 or below							
Discharge Pipe Diameter	—		2 in (Flange)							
Starting Method	—		Star-Delta (3 contactors)							
Driving Method	—		2-Pole TEFC motor with Direct Connection + Gear Driving							
Lubricating Oil Capacity	L		25 (Not filled)							
Cooling Fan Motor Output	kW		1.5 (Inverter)					2.2 (Inverter)		
[Dryer]	P.D.P	℃	[10 (Under Pressure)]				Built-in dryer model is NOT available.	[10 (Under Pressure)]		Built-in dryer model is NOT available.
	Refrigerator Nominal Output	kW	[2.2]					[3.0]		
	Refrigerant	—	[R407C]					[R410A]		
Weight	kg		1,600 [1,750]				1,600	1,860 [2,030]		1,860
Dimensions (W×D×H)	mm		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		

### Air-Cooled, Fixed Speed / Vtype Model (90-120kW)

Item・Unit	Model	Fixed Speed Model					
		DSP-90A5 [L] MN2 DSP-90A6 [L] MN2		DSP-100A5 [L] MN2 DSP-100A6 [L] MN2		DSP-120A5MN2 DSP-120A6MN2	
Discharge Pressure	MPa	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
Nominal Output	kW	90		100		120	
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 – 45℃					
Discharge Air Temperature	℃	Ambient Temperature + 15 or below					
Discharge Pipe Diameter	—	2 in (Flange)					
Starting Method	—	Star-Delta (3 contactors)					
Driving Method	—	2-Pole TEFC motor with Direct Connection + Gear Driving					
Lubricating Oil Capacity	L	26 (Not filled)					
Cooling Fan Motor Output	kW	1.5×2					
Weight	kg	2,200				2,380	
Dimensions (W×D×H)	mm	2,150×1,520×1,975					
Noise Level (1.5m from front side)	dB(A)	68	70	69	71	72	73

#### NOTE:

- Capacity is measured according to ISO 1217, Annex C.
- Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
- Noise level is the converted value in an anechoic room measured under the condition that at full load running operation at 1.5m in front and 1m in height, the timing of the closure of cooler drain automatic discharge valve. It could be larger depending on the actual installation and its environment.It is not a guaranteed value. It could increase by approx. 2dB when PQ WIDEMODE is ON.
- P. D. P (Pressure Dew Point) of a built-in dryer model is measured in ambient temperature 30 °C, inlet temperature 45 °C, and under the rated pressure. For the built-in dryer model, P. D. P drops at lower operating pressure. When the PQ wide mode is ON and the pressure is 0.7 MPa or less, the outlet P. D. P increases by approx. 3°C at 0.6MPa.

- Discharged air capacity of a built-in dryer model decreases by approximately 3% when drain condenses.
- In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40°C.
- Earth leakage breaker is not built in the compressor. Prepare by customer.
- Do not use the respiratory equipment to suck the compressed air directly.
- Discharge pressure is gauge pressure.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
- Appearance and specifications are subject to change without notice.

Two-Stage (132-240kW)



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

High Capacity by Equipping New **NEXT II series Airend**

Low Noise Low Vibration

Compact Design by Optimized Layout of Components

High Discharge Pressure Available (up to 1.0MPa)

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.

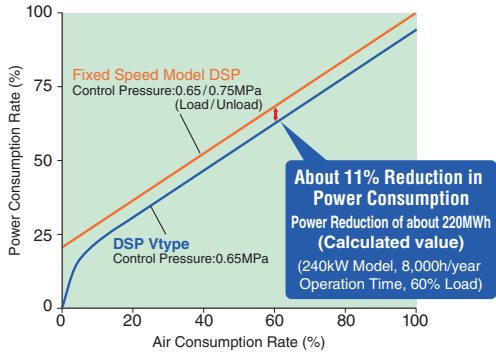
Hi-precooler system (Air-Cooled models)  
Hi-precooler system reduces temperature of extremely hot air to aftercooler and Two-Stage cooling structure improves reliability.

High Discharge Pressure Available  
1.0MPa is available with high reliability.

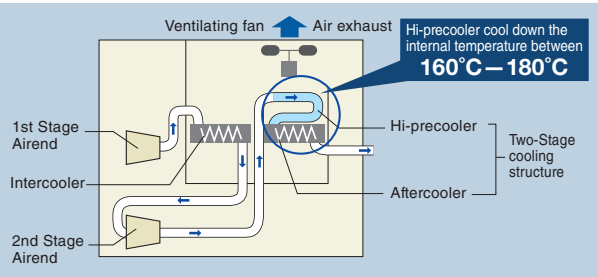
Maintenance Friendly  
DSP series provides easy accessibility for inspection and maintenance.

Energy-Saving (Vtype)

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. (Calculated value)



Specifications

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

Item・Unit	Model	DSP-132A5N2			DSP-145A5N2			DSP-160A5N2			DSP-200A5N2			DSP-240A5N2		
		DSP-132A6N2			DSP-145A6N2			DSP-160A6N2			DSP-200A6N2			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 Output	kW	132			145			160			200			240		
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 - 45℃														
Discharge Air Temperature	℃	Ambient Temperature + 15 or below														
Discharge Air Pipe Diameter	—	2-1/2 in (Flange)										3 in (Flange)				
Starting Method	—	Star-Delta (3 contactors)														
Driving Method	—	4-Pole TEFC motor with Direct Connection + Gear Driving														
Lubricating Oil Capacity	L	50 (Not filled)										60 (Not filled)				
Cooling Fan Motor Output	kW	4.4 (1.1x4)										6.0 (1.5x4)				
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				
Noise Level (1.5m from front side)	dB(A)	73	74	74	75	74	75	76	77	77	77	78	78	78	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		
		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	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
Discharge Air Capacity	m³/min	132			145			160			200			240		
Nominal Output	kW	132			145			160			200			240		
Intake Air Pressure / Temperature	—	Atmospheric Pressure / 0 - 45℃														
Discharge Air Temperature	℃	Cooling Water Temperature +13 or below														
Discharge Air Pipe Diameter	—	2-1/2 in (Flange)									3 in (Flange)					
Starting Method	—	Star-Delta (3 contactors)														
Driving Method	—	4-Pole TEFC motor with Direct Connection + Gear Driving														
Cooling Water Flow Rate	L/min	200			210			240			300			330		
Cooling Water Temperature	℃	35 or below									35 or below					
Cooling Water Pipe Diameter	—	Rp2														
Lubricating Oil Capacity	L	40 (Not filled)									50 (Not filled)					
Cooling Fan Motor Output	kW	0.4														
Weight	kg	3,760														
Dimensions (W×D×H)	mm	2,500×1,600×1,925									2,800×1,800×1,950					
Noise Level (1.5m from front side)	dB(A)	68	69		69	70		69	70		69	70		70	71	

■ Air-Cooled / Water-Cooled, Vtype Model (160-240kW)

Item・Unit		Model	DSP-160VA5N2 DSP-160VA6N2			DSP-240VA5N2 DSP-240VA6N2			DSP-160VW5N2 DSP-160VW6N2			DSP-240VW5N2 DSP-240VW6N2		
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
Discharge Air Capacity		m³/min	27.5	24.8	22.5	40.0	35.0	32.5	28.5	24.8	23.2	40.5	35.0	32.5
Nominal Output		kW	160			240			160			240		
Intake Air Pressure / Temperature		—	Atmospheric Pressure / 0 - 45℃											
Discharge Air Temperature		℃	Ambient temperature+15 or below						Cooling Water Temperature+13 or below					
Discharge Air Pipe Diameter		—	2-1/2 in (Flange)			3 in (Flange)			2-1/2 in (Flange)			3 in (Flange)		
Starting Method		—	Inverter											
Driving Method		—	4-Pole TEFC motor with Direct Connection + Gear Driving											
Cooling Water Flow Rate		L/min	—			—			240			330		
Cooling Water Temperature		℃	—						35 or below					
Cooling Water Pipe Diameter		—	—						Rp2					
Lubricating Oil Capacity		L	50 (Not filled)			60 (Not filled)			40 (Not filled)			50 (Not filled)		
Cooling Fan Motor Output		kW	4.4 (1.1 × 4)			6.0 (1.5 × 4)			0.4					
Weight	Compressor	kg	3,960			5,000			3,960			4,900		
	Inverter Panel	kg	400			540			—			—		
Dimensions (W×D×H)	Compressor	mm	2,900×1,700×1,925			3,200×1,880×1,950			2,500×1,600×1,925			2,800×1,800×1,950		
	Inverter Panel	mm	690×1,175×1,760			810×1,360×1,760			—			—		
Noise Level (1.5m from front side)		dB(A)	74	75	77	78	77	78	70	71	71	71	71	71

- NOTE:
- Capacity is measured according to ISO 1217, Annex C.
  - Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
  - Noise level is the converted value in an anechoic room measured under the condition that at full load running operation at 1.5m in front and 1m in height, the timing of the closure of cooler drain automatic discharge valve. It could be larger depending on the actual installation and its environment. It is not a guaranteed value.
  - Earth leakage breaker is not built in the compressor. Prepare by customer.
  - Do not use the respiratory equipment to suck the compressed air directly.
  - Discharge pressure is gauge pressure.
  - Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
  - Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
  - Appearance and specifications are subject to change without notice.
  - The inverter panel for air-cooled Vtype is placed separately.



# Auxiliary Equipment

## Air Dryer

### HDR series

HFC Refrigerant  
**R407C·R410A**



HDR-22AG1

HFC Refrigerant  
**R407C**



HDR-150AX

### Specifications

Item・Unit	Model	HDR-7.5AX2	HDR-15AG1	HDR-22AG1	HDR-37AG1	HDR-55AX	HDR-75AX	HDR-100AX
Capacity (Note 1) 50/60Hz	m³/min	1.3/1.4	3.0/3.4	4.9/5.4	7.9/8.4	10.8/11.3	15.0/15.7	19.0/20.0
Max. Inlet Pressure of Compressed Air	MPa	0.3 – 0.97	0.3 – 1.0			0.4 – 0.97		
Max. Inlet Temperature of Compressed Air	℃	80						
Ambient Temperature	℃	5 – 40	2 – 45			5 – 40		
Dew Point of Outlet Air	℃	10 Under Pressure						
Cooling Method of Condenser	—	Air-Cooled						
Refrigerant Control Device	—	Capillary Tube		Ejector				
Capacity Control Device	—	Hot Gas Bypass Valve						
Refrigerant Used	—	R407C	R410A			R407C		
Charged Quantity	g	250	450	680	1,000		1,650	2,000
Finish Color	—	Ivory	Gray			Ivory		
Pipe Diameter	—	Rc 1		Rc 1-1/2			Rc 2	Rc 2-1/2
Dimensions (W×D×H)	mm	303×603×720	303×633×840	356×543×1,067	356×543×1,274	356×903×1,274	356×903×1,489	406×1,400×1,380
Weight	kg	43	60	84	107	135	170	280
Accessories	—	Auto Drain Trap, Drain Valve, Foundation Bolts						

#### NOTE:

- The capacity values above are measured at an ambient temperature of 30°C, inlet temperature of 45°C, inlet pressure of 0.70MPa.
- Dew point gets worse if operated at pressure below the range of operation pressure.
- Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
- In case of having solid objects such as rust in the inlet air flow, install a pre-filter on the inlet of dryer.

Item・Unit	Model	HDR-120WX	HDR-150WX	HDR-190WX	HDR-240WX	HDR-300WX	HDR-380WX	HDR-120AX	HDR-150AX	HDR-190AX	HDR-240AX	HDR-300AX	HDR-380AX
Capacity (Note 1) 50/60Hz	m <sup>3</sup> /min	21/25	27/31	35/41	42/49	51/60	64/75	20/23	25/30	32/38	38/45	47/55	59/69
Max. Inlet Pressure of Compressed Air	MPa	0.30 – 0.97				0.30 – 0.93		0.30 – 0.97		0.30 – 0.93			
Max. Inlet Temperature of Compressed Air	℃	60											
Ambient Temperature	℃	2 – 40											
Dew Point of Outlet Air	℃	10 Under Pressure											
Cooling Method of Condenser	—	Water-Cooled						Air-Cooled					
Refrigerant Control Device	—	Capillary Tube											
Capacity Control Device	—	Hot Gas Bypass Valve											
Refrigerant Used	—	R407C											
Charged Quantity	g	1,900	2,000	2,700	3,400	4,000	4,000	2,200	3,600	3,500	4,400	5,000	6,000
Finish Color	—	Ivory											
Cooling Water Quantity	m <sup>3</sup> /h	2.5/2.9	2.7/3.0	3.0/3.2	3.6/3.8	3.4/4.0	4.3/5.0	—					
Cooling Water Pipe Diameter	—	Rp 3/4			Rp 1	Rc 1-1/2		—					
Pipe Diameter	—	2-1/2 in (Flange)	3 in (Flange)		4 in (Flange)	5 in (Flange)		2-1/2 in (Flange)	3 in (Flange)		4 in (Flange)	5 in (Flange)	
Dimensions (W×D×H)	mm	672×1,260 x1,276	950×1,290×1,332		1,969×905 x1,583	2,020×1,100×1,650		672×1,260 x1,276	950×1,290×1,332		1,969×905 x1,583	2,020×1,100×1,650	
Weight	kg	238	346	344	534	792	872	258	372	370	557	792	872
Accessories	—	Auto Drain Trap, Drain Valve											

#### NOTE:

- The capacity values above are measured at an ambient temperature of 32°C, inlet temperature of 40°C, inlet pressure of 0.69MPa.
- Dew point gets worse if operated at pressure below the range of operation pressure.
- Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
- In case of having solid objects such as rust in the inlet air flow, install a pre-filter on the inlet of dryer.

## Multi Unit Controller

### MULTI ROLLER *G*series

- Efficient Control of Multiple Units
- Energy-Saving
- Various Functions Available



### Standard Specification

Item	Model	MRG-4E	MRG-8E	MRG-NE
Ambient	Usage place	Indoor (Dust-proof wall-mounted type)		
	Temperature	0-40 deg-C		
Power supply		1-ph. AC85 to 240V 50/60Hz		
Controllable compressors	Max. connectable Units	12 compressors		
	Connectable contacts (internal of above)	4	8	0 (comm. only)
Touch panel		7" wide color LCD		
Control function		Initial air charge, Selection of preceding machine, Rotary operation, Turn-back operation (only for fixed speed machine), PID control, Pressure prediction control, 2nd-pressure, Weekly operation, Forced changeover, Restart at power off, Interlock/Individual operation changeover, Central operation, Forced start Long stop, Operation control of auxiliary machine (dryer, pump)[excl. MRG-N], Lead-lag operation		
Input	Discharge pressure	0-1MPa (digital display)		
	Control	Operation answer, Fault		—
	Remote	Remote operation, Remote stop, Forced start, (Flow volume (option *1))		—
Output	Control	Run, Stop, Load command, PID command		—
	Remote	In operation, Remote selection, Low pressure, Fault sum-up		—
Communication specification		RS485 (2-wire) half-duplex asynchronous, 9600bps multi-drop		
Communication contents		Run, Stop, Load, Operation answer, Fault, etc.		
Set width of control discharge press.		Min. ±0.001 MPa setttable		
Power supply capacity		40W or less	50W or less	30W or less
Dimensions W×D×H (mm)		400×250×600	500×250×900	400×250×400
Weight		25kg	37kg	13kg
Painted color		Cream		

#### NOTE:

- \*1 Use flow volume sensor, which is commercially available
- 2) Dimensions excludes joint portion and protrude portion
- 3) Appearance, display design and/or specification may change without notice

## Line Filter

### Air Filter\*1



### Micron Mist Filter\*2



### Activated Carbon Filter\*3



### Specifications

Common	Item		Model	7.5BX	11BX	15G1	22G1	37G1	55B	75B	100B	125C	160C	200C	240B	
	Condition	Capacity (converted to the atmospheric pressure)	m³/min	1.2	1.8	2.7	5.2	8.6	10.6	13.8	20	27.6	32	40	50	
		Inlet Air Temperature	℃	32												
		Inlet Air Pressure	MPa	0.69		0.7				0.69						
	Use	Applicable Fluid	—	Compressed Air												
		Condition	Max. Pressure	MPa	1.57			1.0			0.97					
Air Filter	Connecting Pipe Diameter		—	Rc3/4	Rc1		Rc1-1/2			Rc2		2-1/2 in FF (Flange)	3 in FF (Flange)		4 in FF (Flange)	
	Item		Model	HAF-7.5BX	HAF-11BX	HAF-15G1	HAF-22G1	HAF-37G1	HAF-55B	HAF-75B	HAF-100B	HAF-125C	HAF-160C	HAF-200C	HAF-240B	
	Use	Inlet Air Temperature Range	℃	5 – 60												
		Ambient Temperature Range	℃	2 – 60												
	Filtration Rating		μm	1*1												
		Filtration Efficiency	%	99.999												
	Pressure	Initial	MPa	0.005 or below												
		Drop (Loss)	Element Exchange	MPa	0.07											
	Drain Outlet Diameter	Dimension (Max. Diameter×Length)	mm	92×237	130×290.5		170×588	170×673	170×718	173×811	173×968	590×1,511	590×1,511	590×1,511	640×1,735	
			—	Rc1/4			Hose nipple for Φ5.7 ~ 6.0 inner diameter tube*4									
Weight			kg	1	2	2.1	3.2	3.5	3.7	4.3	6	41	43	43	73	
Micron Mist Filter	Item		Model	HMF-7.5BX	HMF-11BX	HMF-15G1	HMF-22G1	HMF-37G1	HMF-55B	HMF-75B	HMF-100B	HMF-125C	HMF-160C	HMF-200C	HMF-240B	
	Use	Inlet Air Temperature Range	℃	5 – 60												
		Ambient Temperature Range	℃	2 – 60												
	Density of Oil in the Discharge Air		wtppm	0.01*2												
		Pressure	Initial	MPa	0.01											
	Drop (Loss)	Element Exchange	MPa	0.07												
		Dimension (Max. Diameter×Length)	mm	92×237	130×364		170×660	170×745	170×791	173×884	173×1,041	590×1,511	590×1,511	590×1,511	640×1,735	
	Drain Outlet Diameter		—	Rc1/4			Hose nipple for Φ5.7 ~ 6.0 inner diameter tube*4									
		Weight		kg	1	2	2.1	3.2	3.5	3.7	4.3	6	41	43	43	73
		Item		Model	HKF-7.5BX	HKF-11BX	HKF-15G1	HKF-22G1	HKF-37G1	HKF-55B	HKF-75B	HKF-100B	HKF-125C	HKF-160C	HKF-200C	HKF-240B
Activated Carbon Filter	Use	Inlet Air Temperature Range	℃	5 – 60												
		Ambient Temperature Range	℃	2 – 60												
	Density of Oil in the Discharge Air		wtppm	0.003*3												
		Pressure Drop (Loss)	MPa	0.009												
	Dimension (Max. Diameter×Length)		mm	92×232	130×281.5		160×362	170×447	170×498	173×591	173×748	590×1,511	590×1,511	590×1,511	640×1,735	
		Weight		kg	1	2		3.2	3.5	3.7	4.3	6	41	43	43	73

●Make sure to install an air dryer before the filter.

\*1 The density of oil in the inlet air is 3wtppm.

\*2 According to "Test methods for oil aerosol content" of ISO8573-2, the density of oil in the inlet air is 3wtppm.

\*3 According to "Test methods for oil aerosol content" of ISO8573-2, the density of oil in the inlet air is 0.01wtppm.

\*4 Can be replaced with Rc1/4 using optional DT adapter(Parts number:59047640).

## HITACHI ROTARY COMPRESSOR OIL



### Specifications

Item	Unit	Content
ISO Viscosity Grade	—	32
Density @15°C	kg/L	0.86
Viscosity @40°C	mm <sup>2</sup> /s	32.6
Viscosity Index	—	102
Flash Point	°C	> 200
Content	L	20
Package	—	Plastic Container Tank
Weight	kg	About 18
Exchange Cycle	—	Every half year

NOTE: Do NOT use this oil on the compressor which requires synthetic lubricating oil.

Systems and Options

Energy-saving Combinations

3 ways to maximize energy-saving effect

Energy saving operation without external controller

**V-M Combination System**

Energy saving operation by one Vtype and maximum two Fixed Speed Model

Energy saving operation with external controller

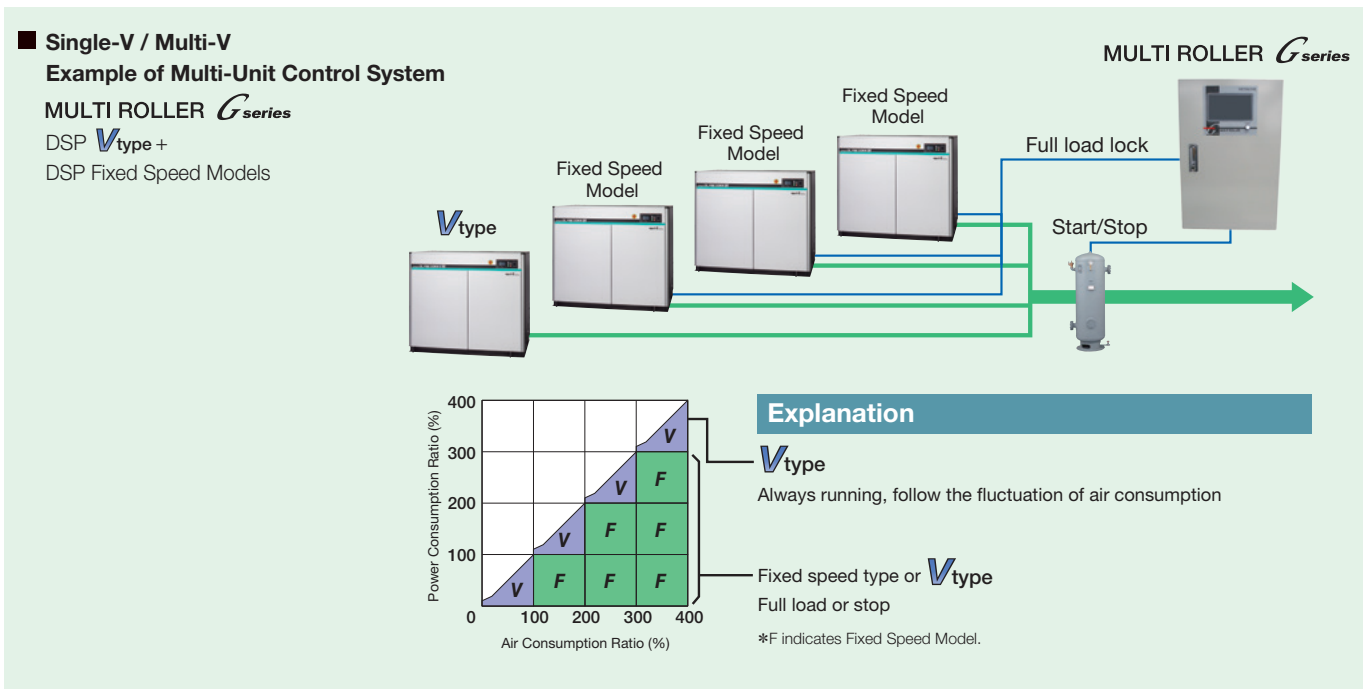
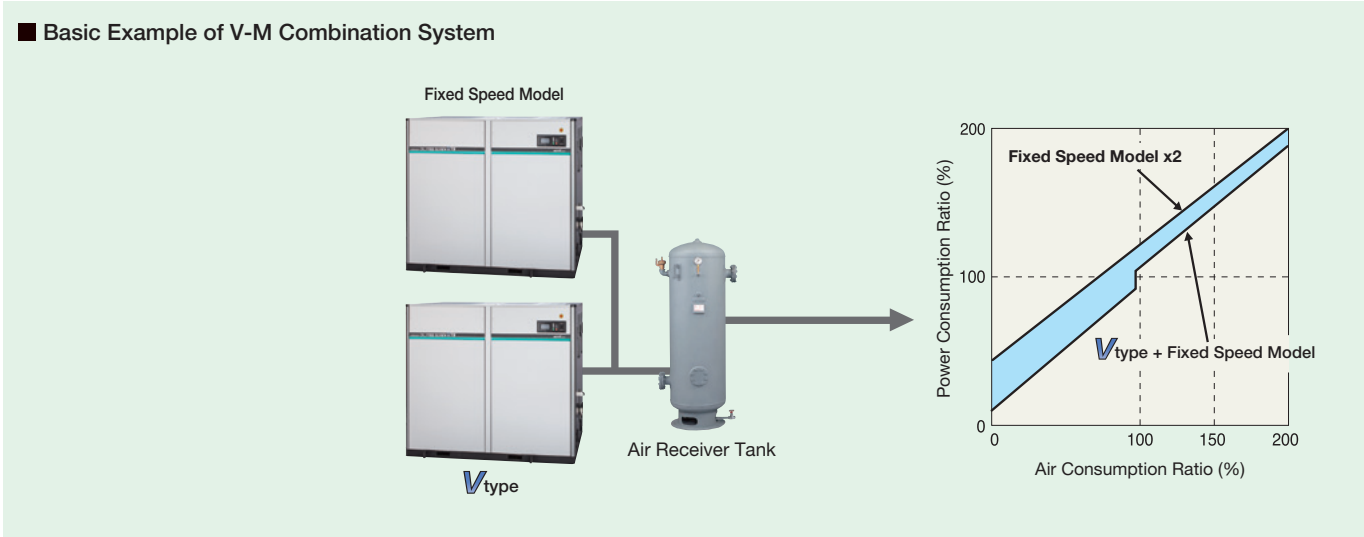
**Single-V System**

Energy saving operation by one Vtype and multiple Fixed Speed Model with multi-unit controller.

Energy saving operation with multiple Vtype model and external controller

**Multi-V System**

Energy saving operation by multiple Vtype to average Vtype operation hour



Options

	DSP NEXT II series					
	Single-Stage		Two-Stage		Two-Stage	
	Vtype	Fixed Speed Model	Vtype	Fixed Speed Model	Vtype	Fixed Speed Model
Nominal Output (kW)	22 - 55	15 - 55	37 - 100	22 - 120	160/240	132 - 240
Oil Mist Remover (OMR)	Standard	Standard	Standard	Standard	Standard	Standard
Instantaneous Power Interruption (IPI) Restart	Standard	Standard	Standard	Standard	Standard	Standard
Multi-unit Control (with MULTI ROLLER Gseries)	●	●	●	●	●	●
Alternate Operation (with MULTI ROLLER Gseries)	●	●	●	●	●	●
Alternate Operation*1	●	●	●	●	●	●
AUTO Operation	Standard	Standard	Standard	Standard	Standard	Standard
V-M Combination	●	— *2	●	— *2	●	— *2
Modbus®/TCP	●	●	●	●	●	●
Package Filter	●	●	●	●	●	●
Dust Filter	●	●	●	●	—	—
Specified Color of Sound-Proof Cover	●	●	●	●	●	●
Food Grade Oil	●	●	●	●	●	●

NOTE:

\*1 Alternate Operation is possible between same models or models of the same series.

In case of alternate operation between models of different series, connection and control by MULTI ROLLER Gseries is necessary.

\*2 In case of V-M Combination, modification on the Fixed Speed Model is not necessary.

For other options, contact your nearest dealer or Hitachi local representative office.

Safety Precautions

- What compressors are used for
- The compressors listed in this catalog can only compress air. Never use them to compress gases other than air. Doing so may cause fire, damage, etc.
  - The compressors cannot be used for respiratory equipment for breathing compressed air.
- Installation location
- Install the compressors indoors. Do not use the compressors in a place where it is exposed to moisture such as rain or steam. Doing so may cause fire, electric shock, rusting, or decrease in product life.
  - Use the products in a location where there are no explosive or flammable gases (acetylene, propane gas, etc.), organic solvents, explosive dust, or fire nearby. Failure to do so may result in fire or accident.
  - Do not use the products in locations where corrosive gases such as ammonia, acid, iron, sulfurous acid gas, etc. are present. It may cause rusting, decrease in product life, or damage.
- Terms of use
- Please read the "Instruction Manual" carefully before use and use the products correctly.
  - Never modify the products or its parts. Doing so may cause damage or malfunction.





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Products described in this catalog may differ from different countries or regions. Contact your nearest Hitachi sales representative for details.

Product appearances and specifications in this catalog are subject to change with or without notice, as Hitachi continues to develop the latest technologies and products for its customers.

## Hitachi Industrial Equipment Systems Co., Ltd.

For details, please visit our website.

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or further information,  
please contact your nearest sales representative.



ISO14001  
EC97J1107

ISO9001  
JQA-QM3443

Hitachi Screw Compressor is manufactured at a factory approved by Environmental Standard (ISO 14001) and Quality Standard (ISO9001) of International Organization for Standardization.