HITACHI OIL-FREE SCREW COMPRESSOR



OIL FREE SCREW

SINGLE STAGE / TWO STAGE





Oil-Free Rotary Screw Air Compressor, DSP Series







OIL FREE SCREW (DSP) Model List

Fixed Speed Type

Model	1	Nominal Output (kW)	15	22	30	37	45	55	75	90	100	120	132	145	160	200	240
		Built-in Dryer	۲			۲		۲									
Single-Stage	Air-Cooled	Without Dryer	۲	۲		۲		۲									
	Water-Cooled	Without Dryer	۲	۲		۲		۲									
		Built-in Dryer		۲	۲	۲	۲	۲	۲								
Two Stores	Air-Cooled	Without Dryer			۲	۲	۲					۲	۲	۲	۲	۲	۲
iwo-stage	Water Cooled	Built-in Dryer					۲										
	water-Cooled	Without Dryer					۲	٩	۲	۲	۲	۲	۲	۲	۲	۲	۲

Vtype

Model	N	Nominal Output (kW)	15	22	30	37	45	55	75	90	100	120	132	145	160	200	240
		Built-in Dryer		۲		۲		۲									
Single-Stage	Air-Cooled	Without Dryer				۲											
	Water-Cooled	Without Dryer				۲		۲									
		Built-in Dryer				۲		۲	۲								
Two Change	Air-Cooled	Without Dryer				۲		۲	۲		۲				۲		۲
iwo-Stage	vo-Stage							۲	۲								
	water-Cooled	Without Dryer						۲	۲		۲				۲		۲

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.





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".





■ ISO 8573-1:2010 [-:-:0]





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.

NEXT II series	Normal Operation	Warning operation ⁻¹	Shutdown
Ambient tem	perature (°C) 4	5°C 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.



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

Condition Model:DSP-37VATN2 Air consumption Control pressure: @60% 0.70MPa 96 oitd 94 • Use point pressure at full load: 0.55MPa 92 Piping pressure loss at 2 full load: 0.15MPa ۵n

7.2 9 IPC-OFF IPC-ON

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



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.

Vtype



*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 Vtype pressure function



In general, a variable speed compressor requires a higher pressure setting

(Energy-saving operation control) Fixed Speed

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



کائی User-friendly operation interface (الاسر) User-friendly operation

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 In

Long cycle and simple maintenance

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



High withstand load type bearing 6 years long overhaul period





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

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.



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

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-C	Air-Cooled, Fixed Speed Model (15–55kW) []: Indicates m									th Dryer integrated.			
		Model	DSP-15A	[R] 5N2	DSP-22	A[R]5N2	DSP-37	\[R]5N2	DSP-55A	[R] 5N2			
Item • Uni			DSP-15A	A[R]6N2	DSP-22	A[R]6N2	DSP-37	A[R]6N2	DSP-55A	[R]6N2			
Discharge	Pressure	MPa	0.70	0.40	0.70	0.40	0.70	0.40	0.70	0.40			
Discharge	e Air Capacity	m³/min	2.0	2.5	3.4	4.0	5.0	5.9	6.4	8.0			
Nominal (Dutput	kW	1	5	2	2	3	7	5	5			
Intake Air	Pressure / Temperature	-			Atm	ospheric Pressure	e / 0 – 45°C [2 – 4	e / 0 – 45°C [2 – 45°C]					
Discharge	Air Temperature	°C				Ambient Tempera	ture +15 or below						
Discharge	e Pipe Diameter	_	Ro	51			Rc1	1-1/2					
Starting N	lethod	-	Direct C	Dn-Line	contactors)								
Driving M	ethod	_			4-Pol	e TEFC Motor wit	h V-Belt + Gear D	riving					
Lubricatir	ig Oil Capacity	L		12 (No	t filled)		18 (Not filled)						
Cooling F	an Motor Output	kW	0.	4		0.	65		0.	9			
Coolant F	Pump Motor Output (50/60Hz)	kW				0.2/	/0.3						
	P.D.P	°C	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-			
[Dryer]	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]				
Dimensio	ns (W×D×H)	mm		1,400×97	70×1,400		1	,830×980×1,580	2,230×980×1,580]			
Noise Level (1.5m from front side) $dP(\Lambda)$ 62 63 63				64	66	68	68	70					

Air-Cooled / Water-Cooled, Vtype Model (22–55kW)

		Model	DSP-22V	A[R]5N2	DSP-37V	A[R]5N2	DSP-55V	A[R]5N2		7\/\/\10		\$\/\/\10
Item • Unit			DSP-22V	A[R]6N2	DSP-37V	A[R]6N2	DSP-55V	A[R]6N2			D3F-3	
Cooling N	lethod	-			Air-C	ooled				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
	Discharge Pressure	MPa	0.60	-	0.60	-	0.60	-	0.60	-	0.60	-
PQ	Discharge Air Capacity	m³/min	3.7	-	5.5	-	7.0	-	5.5	-	7.0	-
WIDEMO	DE 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 WIDE	MODE 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 C	inal Output kW 22 37 55						5	0.40 - 0.70 - 0.40 - 0.70 - 37 55				
Intake Air	Pressure / Temperature	ressure / Temperature – Atmospheric Pressure / 0 – 45°C [2 – 45°C]							At	mospheric Pre	essure / 0 – 45	C
Discharge	Air Temperature	0°		Am	bient Tempera	ture +15 or be	elow		Coolin	g Water Temp	erature +13 or	below
Discharge	Pipe Diameter	—			Rc1	-1/2			Rc1-1/2			
Starting N	lethod	—			Inve	erter				Inve	erter	
Driving M	ethod	-		4-Pole TI	EFC Motor wit	h V-Belt + Ge	ar Driving		4-Pole TI	EFC Motor wit	h V-Belt + Gea	ar Driving
Lubricatin	g Oil Capacity	L	12 (No	t filled)		18 (No	ot filled)			14 (No	t filled)	
Cooling F	an Motor Output	kW		0.	65		0.	.9		0	.2	
Cooling W	/ater Flow Rate	L/min			-	-				8	0	
Cooling W	/ater Temperature	°C			-	-				32 or	below	
Cooling W	later Pipe Diameter	-			-	-				R	c1	
Coolant P	ump Motor Output (50/60Hz)	kW			0.2/0.3 –							
[Druer]	P.D.P	°C	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-	[10 (Under Pressure)]	-				
LDIYOIJ	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				1,2	40							
Dimension	ns (W×D×H)	mm	1,650×97	70×1,400	1,830	×980×1,580	2,230×980×1,	580]		1,830×98	30×1,580	
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)

	04 11100	101 (10 00101	•)						
	Model	DSP-1	5W5N2	DSP-2	2W5N2	DSP-3	7W5N2	DSP-5	5W5N2
Item·Unit		DSP-1	5W6N2	DSP-2	2W6N2	DSP-37	7W6N2	DSP-5	5W6N2
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	1	5	2	2	3	7	5	5
Intake Air Pressure / Temperature	-				Atmospheric Pre	essure / 0 – 45°C			
Discharge Air Temperature	°C			Co	oling Water Temp	erature+13 or bel	low		
Discharge Pipe Diameter	-	R	c1			Rc1	-1/2		
Cooling Water Flow Rate	L/min		5	0			8	0	
Cooling Water Temperature	°C	35 or below							
Cooling Water Pipe Diameter	-		Rc	3/4			R	c1	
Starting Method	-	Direct (On-Line			Star-Delta (3	contactors)		
Driving Method	_			4-Pol	e TEFC Motor wit	th V-Belt + Gear D	riving		
Lubricating Oil Quantity	L		10 (No	t filled)			14 (No	t filled)	
Cooling Fan Motor Output	kW		0.	05			0	.1	
Weight	kg	7	70	83	30	1,0	30	1,2	80
Dimensions (W×D×H)	mm		1,400×97	70×1,400			1,830×98	30×1,580	
Noise Level (1.5m from front side)	dB(A)	62	63	63	64	64	66	64	66
IOTE:				7. In	case of dust-proof	f or package filter o	ption, maximum a	mbient temperatur	e is limited up to
1. Capacity is measured according to ISO	1217, Ann	ex C.		40	°C.				

2. 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.

3. 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.

4. 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.

5. Built-in drver 0.30MPa model is NOT available.

 Discharged air capacity of a built-in dryer model decreases by approximately 3% when drain condenses

[]: Indicates model with Dryer integrated.

8. Earth leakage breaker is not built in the compressor. Prepare by customer.

9. Do not use the respiratory equipment to suck the compressed air directly.

10. Discharge pressure is gauge pressure.

11. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.

12. Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.

13. Appearance and specifications are subject to change without notice.

<u>DSP-37VAR5N2</u> Drv Frequency (5:50Hz, 6:60Hz) Screw Package - R:Built-in Dryer (Without R:Without Dryer type) - A:Air-Cooled, W:Water-Cooled Nominal Output (kW V:Vtype (Without V:Fixed Speed Model)

Two-Stage (22–120kw)





[]: Indicates model with Dryer integrated.

Specifications.

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

	<u> </u>	Model		Fixed Speed Model								Vtype	Model	
			DSP-45W	/T [R]5N2	DS	P-55WT [R]	5N2	DSF	P-75WT [R]	5N2				
Item•U			DSP-45W	/T [R]6N2	DSI	P-55WT [R]	6N2	DSF	P-75WT [R]	6N2	D2P-001	/WI[R]N2	DSP-75V	VVI [R]NZ
Discharg	e Pressure	MPa	0.70	0.93	0.70	0.93	1.0	0.70	0.93	1.0	0.70	0.93	0.70	0.93
Discharg	e Air Capacity (50Hz/60Hz)		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	9.5	8.0	12.9	11.4
Discharge A	ir Capacity at PQ wide ON of 0.6MPa	mymin					-				9.8	9.5	13.4	13.0
Nominal	Output	kW	4	5		55			75			55 75		
Intake Ai	r Pressure / Temperature	—	Atm	ospheric Pr	essure / 0 -	45°C [5 – 4	5°C]	Atmospheric	Pressure / 0 – 4	5°C [2 – 45°C]	Atmospheric Pressure / 0 – 45°C [5 – 45°C] Atmospheric Pressure / 0 – 45°C [2 – 45			re / 0 – 45°C [2 – 45°C]
Discharg	e Air Temperature	°C		Cooling Water Temperature +13 or I							Cooling	Water Temp	berature +13	or below
Discharg	e Pipe Diameter	—		2 in (Flange)								2 in (Flange)		
Starting	Method	—		Star-Delta (3 contactors)								Soft Start		
Driving N	/lethod	—		2-Pol	e TEFC mo	tor with Dire	ct Connecti	on + Gear D	Driving		6-Pole DO	BL Direct Co	onnection + (Gear Driving
Lubricati	ng Oil Capacity	L				15 (No	t filled)					15 (No	ot filled)	
Cooling	Fan Motor Output	kW				0.0	5×2					0.0	15×2	
Cooling	Water Flow Rate	L/min			90				120		90 120			20
Cooling	Water Temperature	°C				35 or	below					35 or	below	
Cooling	Water Pipe Diameter	_				Rc 1	1-1/4					Rc	1-1/4	
	P.D.P	°C		[10 (Under	Pressure)]		Built-in drver	[10 (Under	Pressure)]	Built-in drver		[10 (Under	r Pressure)]	
[Dryer]	Refrigerator Nominal Output	kW	[2.2]				model is	[3	.0]	model is	[2.2]	[3	.0]
	Refrigerant	—	[R407C]				NOT available.	[R4 ⁻	10A]	NOT available.	[R4	407C]	[R410A]	
Weight		kg	1,580 [1,730]				1,580	0 1,710 [1,880] 1,710			1,320 [1,470] 1,410 [1,580]			
Dimensio	ons (W×D×H)	mm	2,000×1,300×1,800				00			2,000×1,	300×1,800			
Noise Le	evel (1.5m from front side)	dB(A)	6	63 63				65	66			63	65 66	

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

	Model				Vtype	Model				
		DSP-90W	/5 [L] MN2	DSP-100V	V5 [L] MN2	DSP-12	0W5MN2	DSP-100	VW5MN2	
Item·Unit		DSP-90W	/6 [L]MN2	DSP-100V	V6 [L] MN2	DSP-12	0W6MN2	DSP-100	VW6MN2	
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	
Discharge Air Capacity	m³/min	16.8	14.0	18.3	15.6	21.0	17.6	18.3	15.6	
Nominal Output	kW	g	1	00						
Intake Air Pressure / Temperature	_		Atmospheric Pr	essure / 0 – 45°C						
Discharge Air Temperature	°C		Cooling Water Temperature +13 or bel/							
Discharge Pipe Diameter	_			2 in (Flange)						
Starting Method	_			Star-Delta (3	3 contactors)			Inv	erter	
Driving Method	_		2-Pole TEF	C motor with Dire	ct Connection + 0	Gear Driving		2-Pole TEFC motor with Dire	ect Connection + Gear Driving	
Lubricating Oil Capacity	L			16 (No	t filled)			16 (No	ot filled)	
Cooling Fan Motor Output	kW		0.05×3	[0.2×2]		0.0	5×3	0.2	2×2	
Cooling Water Flow Rate	L/min		1	60		1	80	1	60	
Cooling Water Temperature	°C				35 or	below				
Cooling Water Pipe Diameter	_				Rc 1-1/2					
Weight	kg		2,0	050		2,2	230	2,200		
Dimensions (W×D×H)	mm			2,150×1,5	20×1,825			2,150×1,520×1,825		
Noise Level (1.5m from front side)	dB(A)	66 68 67 69 69 70						67 69		

NOTE:

1. Capacity is measured according to ISO 1217, Annex C.

2. 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. 3. 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.

4. 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.

5. Discharged air capacity of a built-in dryer model decreases by approximately 3% when drain condenses.

6. In case of dust-proof or package filter option, maximum ambient temperature is limited up to 40°C.

7. Earth leakage breaker is not built in the compressor. Prepare by customer 8. Do not use the respiratory equipment to suck the compressed air directly.

- 9. Discharge pressure is gauge pressure.
- 10. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- 11. Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details
- 12. Appearance and specifications are subject to change without notice.



Specifications.

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

	Model			Fixed Spe	ed Model			Vtype	Model	
nit		DSP-22A DSP-22A	T [R] 5N2 T [R] 6N2	DSP-30A DSP-30A	T [R] 5N2 T [R] 6N2	DSP-37A DSP-37A	T [R] 5N2 T [R] 6N2	DSP-37V	AT [R] N2	
e Pressure	MPa	0.70	0.88	0.70	0.88	0.70	0.88	0.70	0.88	
e Air Capacity		3.7	3.2	4.7	4.0	5.6	4.7	5.5	4.6	
ir Capacity at PQ wide ON of 0.6MPa	mymin			-	-			6.0 5.6		
Output	kW	2	2	3	0	3	37	37		
r Pressure / Temperature	_		Atm	ospheric Pressure	e/0−45°C [2−4	5°C]		Atmospheric Pressure / 0 – 45°C [2		
e Air Temperature	C°		1		Ambient Temperature +15 or be					
e Pipe Diameter	_				Rc1	-1/2				
Method	_			Star-Delta (3	contactors)			Soft	Start	
lethod	—		4-Pol	e TEFC Motor wit	h V-Belt + Gear D	riving		DCBL Direct Conne	ction + Gear Driving	
ng Oil Capacity	L			15 (No	t filled)			15 (Not filled)		
Fan Motor Output	kW			1.1 (In	verter)			1.1 (In	verter)	
P.D.P	С				[10 (Under	Pressure)]				
Refrigerator Nominal Output	kW				[1.45]					
Refrigerant	_			[R4 ⁻	10A]			[R410A]		
	kg	1,120 [1,180]		1,230 [1,290]		950 [1	,010]	
ons (W×D×H)	mm			1,530×1,1	50×1,650			1,530×1,1	50×1,650	
Noise Level (1.5m from front side) dB(A) 63 64 65 66 66 67						67	66 67			
	nit le Pressure le Air Capacity ir Capacity at PQ wide ON of 0.6MPa Output r Pressure / Temperature le Air Temperature le Pipe Diameter Method Atthod ng Oil Capacity Fan Motor Output P.D.P Refrigerator Nominal Output Refrigerant ons (W×D×H) wel (1.5m from front side)	Model nit Peressure MPa ge Air Capacity m³/min ir Capacity at PQ wide 0N of 0.6MPa m³/min Output kW r Pressure / Temperature - te Air Temperature 'C le Pipe Diameter - Method ng Oil Capacity L Fan Motor Output kW P.D.P 'C Refrigerant ktw Refrigerant	Model DSP-22A DSP-22A DSP-22A nit DSP-22A DSP-22A pe Air Capacity m²/min ir Capacity at PQ wide 0N of 0.6MPa m²/min Output kW 2 r Pressure / Temperature - pe Air Temperature °C pe Pipe Diameter - Method - ng Oil Capacity L Fan Motor Output kW P.D.P °C Refrigerant - kg 1,120 [ons (WxD×H) mm wel (1.5m from front side) dB(A)	Model DSP-22AT [R] 5N2 DSP-22AT [R] 6N2 it DSP-22AT [R] 6N2 ge Air Capacity m²/min ir Capacity at PQ wide 0N of 0.6MPa m²/min Output kW r Pressure / Temperature - e Air Temperature * model - Method - ng Oil Capacity L Fan Motor Output kW P.D.P *C Refrigerant - kg 1,120 [1,180] ons (W×D×H) mm wel (1.5m from front side) dB(A) 63	Model Fixed Spe DSP-22AT [R] 5N2 DSP-30A DSP-22AT [R] 6N2 DSP-30A DSP-22AT [R] 6N2 DSP-30A pe Air Capacity m?/min ar Capacity at PQ wide 0N of 0.6MPa m?/min output kW 22 33 r Pressure / Temperature - Atmospheric Pressure e Air Temperature °C Ambient Temperature e Pipe Diameter - Rc1 Method - Star-Delta (3) ng Oil Capacity L Star-Delta (10) Fan Motor Output kW 1.1 (In P.D.P °C [10) (Under Refrigerant - [10] ms (WxDxH) mm 1.530×1,1 nos (WxDxH) mm 1.530×1,1	Model Fixed Speed Model DSP-22AT [R] 5N2 DSP-22AT [R] 6N2 DSP-30AT [R] 5N2 DSP-30AT [R] 6N2 pe Air Capacity 0.70 0.88 0.70 0.88 ir Capacity m ⁷ /min 3.7 3.2 4.7 4.0 or capacity at PQ wide 0N of 0.6MPa m ⁷ /min - - - - Output kW 22 30 - - - - output kW 22 30 -	Model Fixed Speed Model DSP-22AT [R] 5N2 DSP-22AT [R] 6N2 DSP-30AT [R] 5N2 DSP-30AT [R] 6N2 DSP-37A DSP-37A if Capacity m²/min 3.7 3.2 4.7 4.0 5.6 m²/min m²/min	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 De Pressure MPa 0.70 0.88 0.70 0.88 0.70 0.88 e Air Capacity m²/min a.7 3.2 4.7 4.0 5.6 4.7 output KW 22 30 37 - - ressure / Temperature - Atmospheric Pressure / 0 - 45'C [2 - 45'C] - e Air Temperature 'C Atmospheric Pressure / 0 - 45'C [2 - 45'C] - Method - Ref1-1/2 - - Method - Star-Delta (3 contactors) - Arethod - - - - In Oli Capacity L <	Model Fixed Speed Model Vtype DSP-22AT [R] 5N2 DSP-22AT [R] 6N2 DSP-30AT [R] 5N2 DSP-30AT [R] 6N2 DSP-37AT [R] 5N2 DSP-37AT [R] 6N2 DSP-37AT [R] 6N2	

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

		Model				Fixed Spe	eed		
			DSP-45A	T [R] 5N2	DSI	P-55AT [R]	5N2		
Item•Ur	nit 🔶		DSP-45A	T [R] 6N2	DSI	P-55AT [R]	6N2		
Discharg	e Pressure	MPa	0.70	0.93	0.70	0.93			
Discharg	e Air Capacity		7.4/7.8	6.2/6.5	9.2	7.2/7.7	5		
Discharge A	ir Capacity at PQ wide ON of 0.6MPa	mymm					_		
Nominal	Output	kW	4	5		55			
Intake Ai	r Pressure / Temperature	-	Atm	45°C [5 – 4	5°C				
Discharg	e Air Temperature	°C			Ambie	nt Tempera	ture		
Discharg	e Pipe Diameter	_	2 in (
Starting I	Method	-		Star-Delta (3	3 co				
Driving N	/lethod	_		2-Pole	e TEFC mot	or with Dire	ect (
Lubricati	ng Oil Capacity	L				25 (No	ot fil		
Cooling I	Fan Motor Output	kW			1.5 (Inverter)			
	P.D.P	°C		[10 (Under	Pressure)]		Bui		
[Dryer]	Refrigerator Nominal Output	kW	[2.2]						
	Refrigerant	_	[R407C]						
Weight		kg	1,600 [1,750]						
Dimensio	ons (W×D×H)	mm	2,000×1,300×1,800						
Noise Le	vel (1.5m from front side)	dB(A)	63	65	63	6	65		

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

	Model				Vtype	Model				
Item·Unit		DSP-90A DSP-90A	5 [L] MN2 6 [L] MN2	DSP-100A DSP-100A	.5 [L] MN2 .6 [L] MN2	DSP-12 DSP-12	0A5MN2 0A6MN2	DSP-100 DSP-100	VA5MN2 VA6MN2	
Discharge Pressure	MPa	0.70	0.93	0.70	0.93	0.70	0.93	0.70	0.93	
Discharge Air Capacity	m³/min	16.6	13.9	18.0	15.4	20.5	17.3	18.0 15.4		
Nominal Output	kW	9	10	00						
Intake Air Pressure / Temperature	_			Atmospheric Pressure / 0 – 45°C						
Discharge Air Temperature	°C		1	Ambient Temperature +15 or below						
Discharge Pipe Diameter	_			2 in (F	lange)			2 in (F	lange)	
Starting Method	_			Star-Delta (3	contactors)			Inve	rter	
Driving Method	_		2-Pole TEF	C motor with Dire	ct Connection + C	Gear Driving		2-Pole TEFC motor with Dire	ct Connection + Gear Driving	
Lubricating Oil Capacity	L			26 (No	t filled)			26 (No	t filled)	
Cooling Fan Motor Output	kW			1.5×2						
Weight	kg		2,2	380	2,300					
Dimensions (W×D×H)	mm			2,150×1,5	20×1,975			2,150×1,5	20×1,975	
Noise Level (1.5m from front side)	dB(A)	68 70 69 71 72 73						69 71		

NOTE:

1. Capacity is measured according to ISO 1217, Annex C.

- 2. 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. 3. 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.
- 4. 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.

-					
- I •	Indicator	model	with	Dn/or	integrated
	indicates	111006	VVILII	Diyoi	integrateu.

-75AT [] 1.0 0.70 0.93 1.0 5.9/6.2 13.0 10.5/11.1 9.1 75 Atmospheric Pressure / 0 - 45°C [2 - 45°C] +15 or below ge) ontactors) Connection + Gear Driving led) 2.2 (Inverter) ilt-in drye [10 (Under Pressure)] Built-in dryer [3.0] nodel is T available model is NOT available [R410A] 1,600 1,860 1 860 [2 030] 2,250×1,300×1,800 68

[]:	Indicates	model	with	Dryer	integrated	١.
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Vtype Model										
DSP-55V	AT [R] N2	DSP-75V	AT [R] N2							
0.70	0.93	0.70	0.93							
9.3	7.7	12.6	10.9							
9.6	9.3	13.0 12.6								
5	5	7	5							
Atmospheric Pressure	e / 0 – 45°C [5 – 45°C]	Atmospheric Pressur	e / 0 - 45°C [2 - 45°C]							
Ambie	nt Tempera	ture +15 or	below							
2 in (Flange)										
	Soft	Start								
DCBL D	irect Conne	ction + Gea	r Driving							
	25 (No	t filled)								
1.5 (ln	verter)	2.2 (Inverter)								
	[10 (Under	Pressure)]								
[2	.2]	[3	.0]							
[R40)7C]	[R4 ⁻	10A]							
1,340 [1,490]	1,560 [1,730]								
2,000×1,3	800×1,800	2,250×1,300×1,800								
63	65	67	60							

5. Discharged air capacity of a built-in dryer model decreases by approximately 3% when drain condenses

6. In case of dust-proof or package filter option, maximum ambient temperature is limited up to

40°C. 7. 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. 11. Dimensions do not include the pipes and protruding parts. Refer to the drawing for more

details 12. Appearance and specifications are subject to change without notice.

Two-Stage (132-240kW)



High Capacity by Equipping New **NEXTI** series Airend

Low Noise Low Vibration

of Components

(up to 1.0MPa)

Energy-Saving (Vtype)

Further Energy-Saving is achieved by DSP **NEXTIL** 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)

High Reliability and Easy Maintenance

High Discharge Pressure Available

Compact Design by Optimized Layout

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.



Specifications.

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

All-Cooled, Fixed Speed Wodel (152-240kW)																
	Model	DS	SP-132A5	N2	DS	SP-145A5	N2	DS	SP-160A5	N2	DS	SP-200A5	N2	DSP-240A5N2		
Item•Unit		DS	SP-132A6	N2	DS	SP-145A6	N2	DS	SP-160A6	N2	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	
ntake Air Pressure / Temperature	_			Atmospheric Pressure / 0 - 45°C												
Discharge Air Temperature	°C		Ambient Temperature+15 or below													
Discharge Air Pipe Diameter	_				2-1/2 in (Flange)								3 in (F	lange)		
Starting Method	_							Star-De	elta (3 con	tactors)						
Driving Method	_					4-P	ole TEFC r	notor with	Direct Co	nnection	+ Gear Dri	iving				
ubricating Oil Capacity	L				5	0 (Not fille	d)						60 (No	t filled)		
Cooling Fan Motor Output	kW				4	.4 (1.1×4	L)				6.0 (1.5×4)					
Weight	kg			3,8	360				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	73 74			7	'5	74	7	5	76	7	7	77	7	'8

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

	Model	DS	DSP-132W5N2			DSP-145W5N2 DSP-160W5N2			DSP-200W5N2			DSP-240W5N2				
Item•Unit		DS	P-132W6	N2	DS	P-145W6	N2	DS	P-160W6	N2	DS	P-200W6	N2	DS	P-240W6	N2
Discharge Pressure	MPa	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0	0.75	0.93	1.0
Discharge Air Capacity	m³/min	23.4	20.7	19.6	26.0	22.2	20.6	28.5	24.8	23.2	37.0	32.2	30.0	40.5	35.0	32.5
Nominal Output	kW	132			145 160					200 240						
Intake Air Pressure / Temperature	-						A	tmospher	ic Pressure	e / 0 - 45°	0					
Discharge Air Temperature	°C		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-Pc	ole TEFC r	notor with	Direct Co	nnection ·	+ Gear Dri	ving				
Cooling Water Flow Rate	L/min		200		210 240				300 330							
Cooling Water Temperature	°C				3	5 or belov	v		35 or below							
Cooling Water Pipe Diameter	—								Rp2							
Lubricating Oil Capacity	L				40) (Not fille	d)						50 (No	t filled)		
Cooling Fan Motor Output	kW								0.4							
Weight	kg	3,760 4,600														
Dimensions (W×D×H)	mm	2,500×1,600×1,925				,925				2,800×1,800×1,950						
Noise Level (1.5m from front side)	dB(A)	68	68 69			7	0	69	7	0	69	7	0	70	7	1

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

			7 71-2		10	,					10			10	
		Model	ים	SP-160VASN	12	י ן	5P-240VA5N	12		5P-160VW51	N2		5P-240VW5r	N2	
Item•Unit			D	SP-160VA6N	12	D	SP-240VA6N	2	D	SP-160VW61	12	DSP-240VW6N2			
Discharge Press	ure	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 Ca	apacity	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 Pressu	re / Temperature	_		Atmospheric Pr					essure / 0 - 45°C						
Discharge Air Te		Amb	ient tempera	ature+15 or b	elow			Cooling	Water Temp	erature+13	or below				
Discharge Air Pipe Diameter			2-	1/2 in (Flang	e)		3 in (Flange)		2-	1/2 in (Flang	e)		3 in (Flange)		
Starting Method		_		Inverter											
Driving Method		_				4-Pc	ole TEFC mo	or with Dire	ct Connectio	n + Gear Dri	ving				
Cooling Water F	low Rate	L/min		_			_			240			330		
Cooling Water T	emperature	°C			-	_			35 or below						
Cooling Water P	ipe Diameter	_			-	_			Rp2						
Lubricating Oil C	Capacity	L	;	50 (Not filled))		60 (Not filled		40 (Not filled)			:	50 (Not filled))	
Cooling Fan Mo	tor Output	kW		4.4 (1.1 × 4)			6.0 (1.5 × 4)				0	.4			
Woight	Compressor	kg		3,960			5,000			3,960			4,900		
weigin	Inverter Panel	kg		400			540			_			_		
Dimensions	Compressor	mm	2,9	2,900×1,700×1,925		3,20	00×1,880×1,	950	2,500×1,600×1,925			2,800×1,800×1,950			
(W×D×H)	Inverter Panel	mm	69	690×1,175×1,760		810×1,360×1,760		_			-				
Noise Level (1.5m from front side)		dB(A)	74	7	5	77	7	8		70			71		

NOTE:

1. 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.

3. 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 value. It could be larger depending on the actual installation and its environment. It is not a guaranteed value.

4. Earth leakage breaker is not built in the compressor. Prepare by customer.

5. Do not use the respiratory equipment to suck the compressed air directly.

6. Discharge pressure is gauge pressure.

7. 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.

9. Appearance and specifications are subject to change without notice 10. The inverter panel for air-cooled Vtype is placed separately.

Auxiliary Equipment



NOTE:

1. 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.

4. In case of having solid objects such as rust in the inlet air flow, install a pre-filter on the inlet of dryer.

	Madel													
Item•Unit		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	m₃/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	°C		60											
Ambient Temperature	°C		2 - 40											
Dew Point of Outlet Air	°C						10 Under	r Pressure						
Cooling Method of Condenser	—			Water-	Cooled					Air-C	ooled			
Refrigerant Control Device	—		Capillary Tube											
Capacity Control Device	—		Hot Gas Bypass Valve											
Refrigerant Used	—						R40	07C						
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	—						lve	ory						
Cooling Water Quantity	m₃/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 (F	lange)	4 in (Flange)	5 in (F	-lange)	2.1/2 in (Flange)	3 in (F	lange)	4 in (Flange)	5 in (F	lange)	
Dimensions (WxDxH)	mm	672×1,260	950×1.20	0×1.332	1,969×905	2 020×1 1	00×1 650	672×1,260	950×1 29	0×1.332	1,969×905	2 020×1 1	00×1 650	
Dimensions (W×D×H)		×1,276	000/1,20	0/1,002	×1,583	2,020/1,1	00/1,000	×1,276	000/11,20		×1,583	2,020~1,100~1,0		
Weight	kg	238	346	344	534	792	872	258	372	370	557	792	872	
Accessories	_		Auto Drain Trap, Drain Valve											

NOTE:

1. The capacity values above are measured at an ambient temperature of 32°C, inlet temperature of 40°C, inlet pressure of 0.69MPa.

Painted color

2. 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 Spec	cification	
Item	Model	MRG-4E

	Model	MRG-4E	MRG-8E	MRG-NE						
1.1.1	Usage place		Indoor (Dust-proof wall-mounted type)							
npient	Temperature		0-40 deg-C							
wer supply		1-ph. AC85 to 240V 50/60Hz								
ontrollable	Max. connectable Units		12 compressors							
mpressors	Connectable contacts (internal of above)	4	8	0 (comm. only)						
nuch panel 7" wide color LCD										
ontrol functio	on	Initial air change, Selection of preceding machine, Rotary operation, Tum-back operation (only for fixed speed machine), PID control, Pressure prediction control, 2nd-pressure, Weekly operation, Forced changeover, Restart at power offi, Interlock/Individual operation changeover, Central operation, Forced start Long stop, Operation control of auxiliary machine (dryer, pump)(excl. MRG-N), Lead-lag operation								
	Discharge pressure	0~1MPa (digital display)								
out	Control	Operation answer, Fault –								
	Remote	Remote operation	on, Remote stop, Forced start, (Flow vo	olume (option *1))						
itout	Control	Run, Stop, Load com	mand, PID command	-						
nput	Remote	In operatio	n, Remote selection, Low pressure, Fa	ult sum-up						
ommunicatio	on specification	RS485 (2-wire) half-duplex asynchronous, 9600bps multi-drop								
ommunicatio	on contents	Run	, Stop, Load, Operation answer, Fault,	etc.						
et width of c	ontrol discharge press.		Min. ±0.001 MPa settable							
ower supply	capacity	40W or less	40W or less 50W or less 30W or l							
mensions W×D×H (mm)		400×250×600	500×250×900	400×250v400						
oight		05kg	071	19kg						

Line Filter	
Air Filter*1	Micron Mist Filter*2



Specifications

\searrow	Item		Model	7.5BX	11BX	15G1	22G1	37G1	55B	75B	100B	125C	160C	200C	240B	
	Air 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	
non		Inlet Air Temperature	°C						3	2						
omr		Inlet Air Pressure	MPa	0.	69		0.7		0.69							
C	Use	Applicable Fluid	_						Compressed Air							
	Condition	Max. Pressure	MPa		1.57		1	.0				0.97				
	Connectir	ng Pipe Diameter	_	Rc3/4 Rc1 Rc1-1/2				R	c2	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	°C						5 –	60						
	Condition	Ambient Temperature Range	°C						2 -	60						
ъ	Filtration	Rating	μm						1	F1						
Filte	Filtration	Efficiency	%		99.999											
Air	Pressure	Initial	MPa						0.005 o	r below						
	Drop (Loss)	Element Exchange	MPa						0.0	07						
	Dimension	(Max. Diameter×Length)	mm	92×237	130×	290.5	170×588	170×673	170x718	173x811	173x968	590×1,511	590×1,511	590×1,511	640×1,735	
	Drain Out	let Diameter	—		Rc1/4				Hose n	ipple for Φ5	$0.7\sim 6.0$ in	ner diameter	r tube*4			
	Weight		1	2	2.1	3.2	3.5	3.7	4.3	6	41	43	43	73		
	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	°C	5 - 60												
ъ	Condition	Ambient Temperature Range	°C	2 - 60												
E	Density of	Oil in the Discharge Air	wtppm						0.0	1*2						
Aist	Pressure	Initial	MPa						0.0	01						
N N	Drop (Loss)	Element Exchange	MPa						0.0	07						
licro	Dimension	(Max. Diameter×Length)	mm	92×237	130:	×364	170x660	170x745	170x791	173x884	173x1,041	590×1,511	590×1,511	590×1,511	640×1,735	
2	Drain Out	let Diameter	_		Rc1/4				Hose n	ipple for Φ5	$0.7\sim 6.0$ in	ner diameter	r 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	
ilter	Use	Inlet Air Temperature Range	C						5 -	60						
ЧE	Condition	Ambient Temperature Range	°C						2 -	60						
arbo	Density of	Oil in the Discharge Air	wtppm						0.00)3* ³						
o pe	Pressure	Drop (Loss)	MPa	0.009												
ivate	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	
Act	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 0.01wtopm

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

HITACHI ROTARY COMPRESSOR OIL



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

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Activated Carbon Filter*3



HITACHI FOOD GRADE ROTARY COMPRESSOR OIL

Specifications



Obconicatio											
Item	Unit	Content									
ISO Viscosity Grade	-	32									
Color Phase	—	Colorless and Transparent									
Density @15°C	kg/L	0.84									
Viscosity @40°C	mm²/s	32.8									
Flash Point	°C	200 or higher									
Pour Point	°C	-50 or lower									
Content	L	20									
Exchange Cycle	—	8,000 operating hours or 1 year which comes earlier									
Potrofit	_	Flushing running operation with the exclusive flushing use oil									
nelioni		(new oil 20L can) for 30 minutes × twice then refill with new oil									
Package	-	Plastic Container Tank									
Weight	kg	About 18									

Compliance Standard / Law: NSF H1 registration No. 150658 and FDA21 CFR178.3570
For retrofitting from conventional mineral oil to HITACHI FOOD GRADE DSP OIL, contact your nearest Hitachi sales representative.

Systems and Options

Energy-saving Combinations

3 ways to maximize energy-saving effect







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
					5 mar 10	
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 Geries)	•	•	•	•	•	•
Alternate Operation (with MULTI ROLLER Generation)	•	•	•	•	•	•
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 Generations 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.

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or further information, please contact your nearest sales representative.