V_{PLUS} (VSD)

Item・Unit		Model	OSP-7.5VA(R)N2		OSP-11VA(R)N2		OSP-15VA(R)N2		OSP-22VA(R)N2		OSP-37VA(R)N2	
Cooling Method		–	Air-Cooled									
Nominal Output		kW	7.5		11		15		22		37	
		HP	10		15		20		30		50	
Rated	Discharge Pressure	MPa	0.83						0.7			
		PSI	120						102			
	Discharge Capacity	m³/min	1.05		1.63		2.15		4.1		6.8	
		CFM	37		58		76		145		240	
PQ WIDE MODE	Discharge Pressure	MPa	0.7	0.9	0.7	0.9	0.7	0.9	0.6	0.85	0.6	0.85
		PSI	102	131	102	131	102	131	87	123	87	123
	Discharge Capacity	m³/min	1.17	0.96	1.79	1.53	2.4	2.04	4.3	3.6	7.1	6.2
		CFM	41	34	63	54	85	72	152	127	251	219
Intake Air Pressure/Temperature		–	Atmospheric Pressure / 0–45℃ (2–45℃)									
Discharge Temperature		℃	Ambient Temperature/ +15 or below									
Driving Method		–	Inverter + 4-Pole TEFC Motor with V-Belt Drive						DCBL Direct Drive			
Starting Type		–	Soft Start									
Lubricating Oil		–	NEW HISCREW OIL NEXT									
Lubricating Oil Quantity		L	5		6		7		10		15	
[Dryer]	P.D.P	℃	[10 (Under Pressure)]									
	Refrigerator Nominal Output	kW/HP	[0.3/0.4]		[0.5/0.7]				[1.3/1.8]		[1.5/2.0]	
	Refrigerant	–	[R407C]						[R410A]			
Discharge Pipe Diameter		–	Rc 3/4		Rc 1				Rc 1-1/2			
Dimension (W×D×H)		mm	860×770×1,175		950×780×1,250				1,000×1,050×1,550		1,200×1,150×1,650	
Weight		kg	300 (320)		360 (385)		390 (415)		450 (510)		670 (740)	
Sound Level		dB [A]	53		55		56		56		60	

M type

Item・Unit		Model	OSP-7.5M5A(R)N2	OSP-11M5A(R)N2	OSP-15M5A(R)N2	OSP-22M5A(R)N2	OSP-37M5A(R)N2
Cooling Method		–	Air-Cooled				
Nominal Output		kW	7.5	11	15	22	37
		HP	10	15	20	30	50
Rated	Discharge Pressure	MPa	0.83			0.7 <0.85> [1.0]	
		PSI	120			102 <123> [145]	
	Discharge Capacity	m³/min	1.05	1.63	2.15	4.0 <3.5> [3.2]	6.7 <6.0> [5.4]
		CFM	37	58	76	141 <124> [113]	237 <212> [191]
Intake Air Pressure/Temperature		–	Atmospheric Pressure / 0–45℃ (2–45℃)				
Discharge Temperature		℃	Ambient Temperature/ +15 or below				
Driving Method		–	4-Pole TEFC Motor with V-Belt Drive				
Starting Type		–	Direct-on-line			Star-Delta	
Lubricating Oil		–	NEW HISCREW OIL NEXT				
Lubricating Oil Quantity		L	5	6	7	10	15
[Dryer]	P.D.P	℃	[10 Under Pressure)]				
	Refrigerator Nominal Output	kW/HP	[0.3/0.4]	[0.5/0.7]		[1.3/1.8]	[1.5/2.0]
	Refrigerant	–	[R407C]			[R410A]	
Discharge Pipe Diameter		–	Rc 3/4	Rc 1		Rc 1-1/2	
Dimension (W×D×H)		mm	860×770×1,175	950×780×1,250		1,000×1,050×1,550	1,200×1,150×1,650
Weight		kg	295 [315]	355 [380]	375 [400]	670 [730]	970 [1,040]
Sound Level		dB [A]	53	55	56	57	60

Note:

1. Capacity is measured according to ISO 1217, Third Edition, Annex C.
   Capacity after the built-in dryer is decreased by 3%.
2. Pressures are indicated as the gauge pressure.
3. Sound Level is the converted value under the condition of 1.5m in front and 1m height in an anechoic room. It may vary in different operating conditions and/or different environments with echo of actual field installations.
   Sound level may be increased by 3dB at PQ WIDEMODE ON.
4. P.D.P is measured at 30 degree C of the ambient temperature, 45 degree C of the dryer inlet temperature and rated discharge pressure.
   【7.5/11/15kW】P.D.P may be 13 degree C at PQ WIDEMODE ON and 0.7MPa of discharge pressure.
   【22/37kW】P.D.P may be 13 degree C at PQ WIDEMODE ON and 0.6MPa of discharge pressure.
   P.D.P may be worth at the lower discharge pressure than above conditions at PQ WIDEMODE ON .
5. Contact the supplier for the dryer and filters selection at PQ wide mode ON .
6. The transformer installation space is required for the built-in dryer for the model other than 200V/50Hz.
7. Do NOT use any oil other than “NEW HISCREW OIL NEXT” .
8. Install the proper size air receiver tank and the earth leakage circuit breaker which are out of scope of supply from Hitachi.
9. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.

Products described in this catalog may differ from different countries or regions. Contact your nearest Hitachi representative office 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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For 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.

HITACHI Rotary Screw Compressors

HITACHI
Inspire the Next

HISCREW

NEXT II series (7.5-37kW)

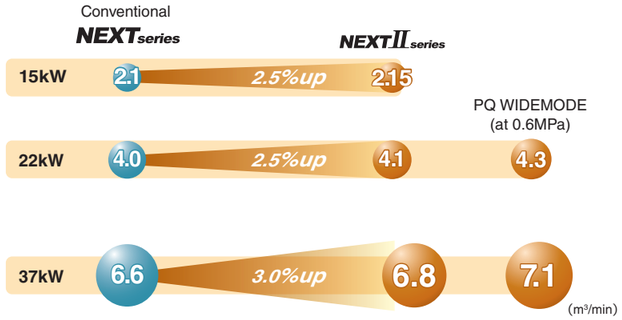
More Efficiency
Fit to Improve Productivity
Higher Level of User-friendly

NEXT II series

Full Range Loaded with High Efficiency Motor

New Developed Air-End

Hitachi Latest Innovation of Air-End Technology



(22/37kW)

High Reliability

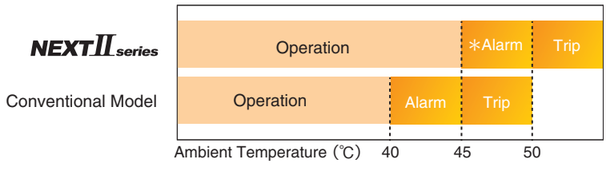
NEW HISCREW OIL NEXT

- Designed for screw air compressor.
- Oil change cycle is every 2 years or 12,000hr which comes first.

Package Filter as Standard

Up to 50℃

- Standard up to 45℃
- Operation is possible under 50℃



* Ambient temperature alarm will be indicated when ambient temperature is over 45℃.
Continuous operation at higher than 45℃ may shorten lifetime of lubricating oil and electric parts.

IPC Control (Intelligent Pressure Control) 22/37kW

V PLUS M type

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

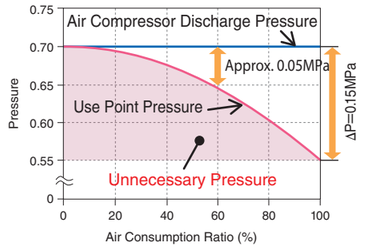
Example of effect by IPC

Conditions
- Air compressor: OSP-37VAN2
- 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)

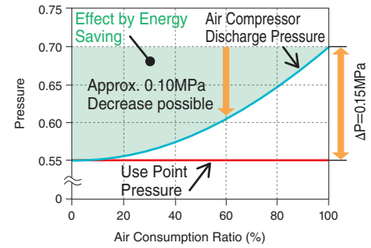
① IPC-OFF (Conventional inverter control model)

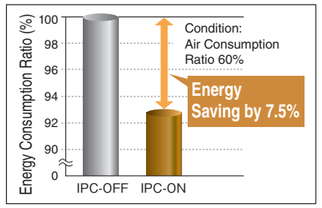
・Control the air compressor discharge pressure at 0.70MPa



② IPC-ON (NEXT II series)

・Control the use point pressure at 0.55MPa





*Due to estimation control, use point pressure varies in accordance with use conditions.
*IPC control range of the constant speed unit is air consumption ratio of 50% or more.

Multi-Function Touch Panel (22/37kW)

Significant Improvement of User-friendly

Various Functions Available

Operation Data Logging

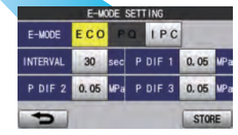
*The image described above has been modified.

Menu

Monitor Indication

Notice Indication

E-MODE



Main Functions

① Schedule Operation (Weekly Timer)
② Instantaneous Power Interruption (IPI) Restart Function
③ Alternate Operation (Option)
④ Multi-unit Control (Option)
⑤ AUTO Operation
⑥ Communication Function
⑦ Web Server Function
⑧ Display/Store of Operation Data
⑨ Store/Load of Settings
⑩ Maintenance Time Notification
⑪ Operation Data Memory, Display in Graph
⑫ Display of Shutdown and Alarm History

IT Communication Functions (22/37kW)

USB Flash Memory Possible for Data Logging

*Necessary to prepare a USB flash memory device (5.5 cm 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

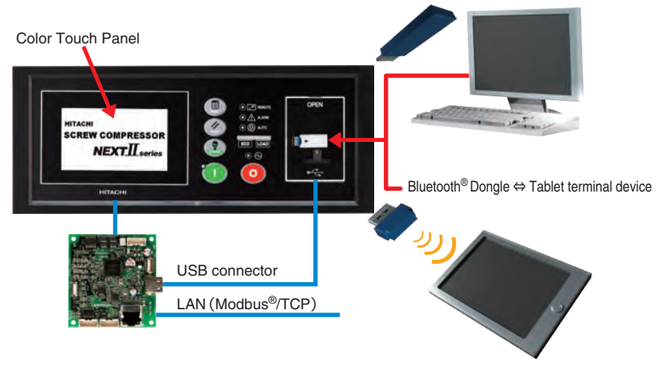
Web Server Function via Bluetooth®

*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.



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