VPLUS

		Model					
Item • Unit			OSP-160VAN2	OSP-160VWN2			
Cooling Method		-	Air-Cooled Water-Cooled				
Nominal Output		kW	160				
Rated	Discharge Pressure	MPa	0.7				
	Discharge Capacity	m³/min	29.5				
PQ Wide	Discharge Pressure	MPa	0.95				
Mode	Discharge Capacity	m³/min	25.2				
PQ Wide Mode Range		MPa	0.7 - 0.95				
Intake Air Pressure/Temperature		-	Atmospheric Pressure / 0 to 45°C				
Discharge Temperature		°C	Atmospheric Temperature + 15 or below	Temperature of Cooling Water +13 or below			
Driving Method		-	Gear Drive				
Starting Type		-	Inverter				
Lubricating Oil		-	HITACHI NEW HISCREW OIL NEXT				
Lubricating Oil Quantity		L	115	70			
Nominal Output of Cooling Fan		kW	4.0×2 (with Inverter Control)	0.2			
Discharge Pipe Diameter		В	3				
Cooling Water	Temperature	°C		35 or below			
	Quantity	L/min		180			
Dimension (W×D×H)		mm	2,700×2,000×1,890				
Weight		kg	3,900	3,750			

Hitachi Rotary Screw Compressors

HISCREW NEXTI series (132/160kW)

M type

Item • Unit		OSP-132M5AN2	OSP-160M5AN2	OSP-132M5WN2	OSP-160M5WN2		
Cooling Method		-	Air-cooled		Water-Cooled		
Nominal Output		kW	132	160	132	160	
Rated	Discharge Pressure	MPa	0.75 (0.85) [1.0]				
	Discharge Capacity	m³/min	25.5 (23.3) [21.0]	29.5 (27.2) [24.5]	25.5 (23.3) [21.0]	29.5 (27.2) [24.5]	
Intake Air Pressure/Temperature		-	Atmospheric pressure / 0 to 45°C				
Discharge Temperature		°C	Atmospheric Temperature + 15 or below		Temperature of Cooling Water +13 or below		
Driving Method		-	Gear Drive				
Starting Type		-	Star-delta				
Lubricating Oil		-	HITACHI NEW HISCREW OIL NEXT				
Lubricating Oil Quantity		L	105	115	65	70	
Nominal Output of Cooling Fan		kW	4.0×2 (with Inverter Control) 0.2				
Discharge Pipe Diameter		В	3				
Cooling Water	Temperature	°C	_		35 or below		
	Quantity	L/min			180		
Dimension (W×D×H)		mm	2,700×2,000×1,890				
Weight		kg	3,450	3,600	3,300	3,420	

Note

1. Capacity is the converted value at its inlet condition. Capacity is measured at following pressures.

0.75MPa models:0.7MPa, 0.85MPa models:0.8MPa, 1.0MPa models:0.95MPa

For guaranteed values, contact your nearest dealer or HITACHI local representative offices.

2. Pressure is indicated as the gauge pressure.

3. Temperature of discharge air may vary from different environments.

4. Contact the supplier for the dryer and filters selection at PQ WIDEMODE ON. 5. Install the proper size air receiver tank and the earth leakage circuit breaker which are out of scope of supply from Hitachi.

6. Earth leakage circuit breaker need to be installed separately for each unit.

7. Do NOT use any oil other than "HITACHI NEW HISCREW OIL NEXT".

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

9. $\langle \rangle$ [] show values of capacity under different discharge pressures.

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 further information, please contact your nearest sales representative.





HITACHI **Inspire the Next**



High Reliability & Maintenance Friendly



Overhaul Cycle – 6 years*

Adoption of high-load bearing and high performance lubricating system makes overhaul cycle as 6 years possible.

*Condition:6,000hr or less Operation Time, for 1.0MPa SPEC overhaul cycle is 4 years

NEW HISCREW OIL NEXT

Designed for Hitachi Oil-injected Screw Air Compressor Oil change cycle is every 2 years or 12,000hr which comes first.* *Condition:6,000hr or less Operation Time.



IPC Control (Intelligent Pressure Control)

By estimating use point pressure in accordance with air consumption, IPC control decreases discharge pressure during low load operation, which enables Energy-Saving. Patent JP4425768 and others

Example of effect by IPC

MP

Conditions • Air compressor: OSP-160VAN2 • 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)

2 IPC-ON (NEXT II series)

· Control the air compressor discharge pressure at 0.70MPa



IT Communication Functions

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)



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.





Multi-Function Touch Panel

Various Functions Available

Main Functions								
 Schedule Operation (Weekly Timer) Instantaneous Power Interruption (IPI) Restart Function Alternate Operation (Option) 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 						

Operation Data Logging

Operation data of pressure, temperature, current and trouble history is stored. Possible to check from Touch Panel at field.

VPLUS Mtype

·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