

Hitachi Rotary Screw Compressors

**HITACHI**  
Inspire the Next

# HISCREW

**NEXT II** series (11-37kW)







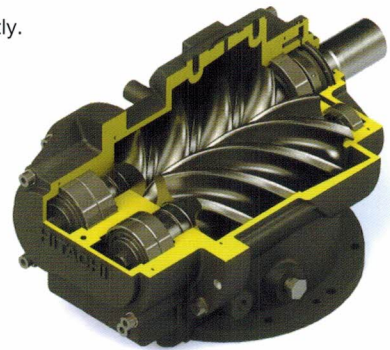
**More Efficiency  
Fit to Improve Productivity  
Higher Level of User-friendly**

# NEXT II series

## New Developed Air-End

Hitachi Latest Innovation of Air-End Technology

- High efficiency Air-End with low-noise and low-vibration supplies compressed air, constantly.



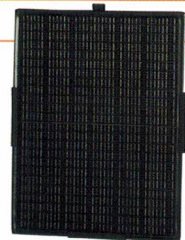
## High Reliability

### 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



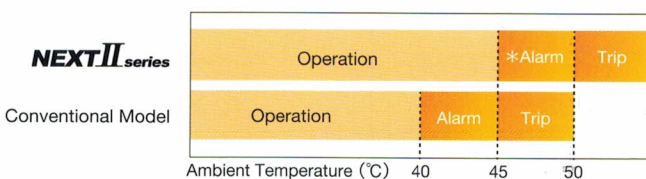
### Up to 50°C

- Standard up to 45°C
- Operation is possible under 50°C

### AC Reactor\*

- Protect Fan Inverter against voltage surge due to unstable power supply.

\*For 22/37kW only



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



# IPC Control (Intelligent Pressure Control)

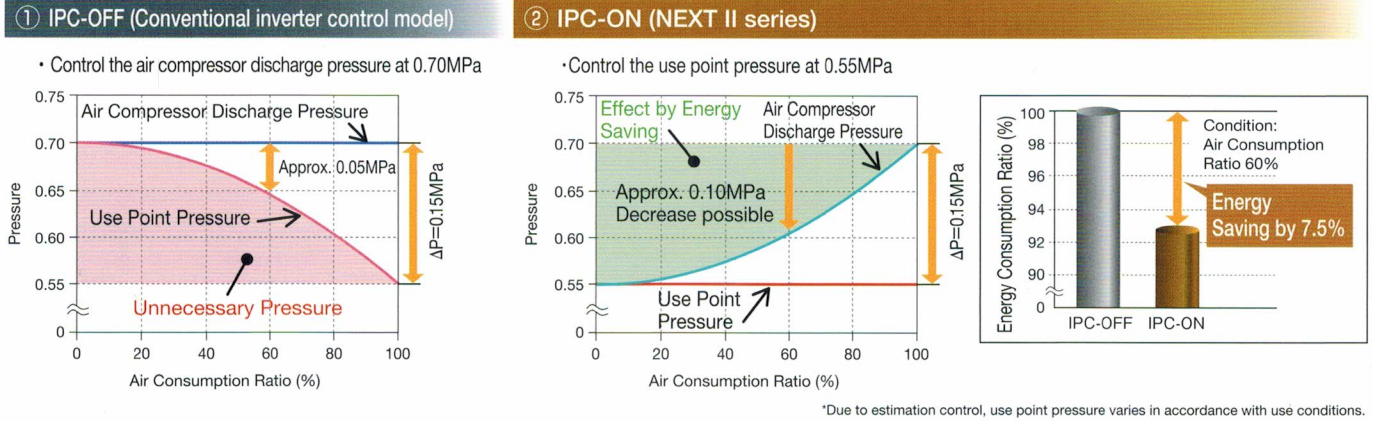
By estimating use point pressure in accordance with air consumption, IPC control decreases discharge pressure during low load operation, which enables Energy-Saving.

Patent JP4425768 and others

## Example of effect by IPC

- Conditions**
- Air compressor: 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)



## Multi-Function Touch Panel\*

- Significant Improvement of User-friendly
- Various Functions Available
- Operation Data Logging

**Main Functions**

- Schedule Operation (Weekly Timer)
- Instantaneous Power Interruption (IPI) Restart Function
- Alternate Operation (Option)
- Multi-unit Control (Option)
- AUTO Operation
- Communication Function
- Web Server Function
- Display/Store of Operation Data
- Store/Load of Settings
- Maintenance Time Notification
- Operation Data Memory, Display in Graph
- Display of Shutdown and Alarm History

\*Touch panel less option does NOT have these functions. (Touch Panel is NOT available for 11/15kW.)

## 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)

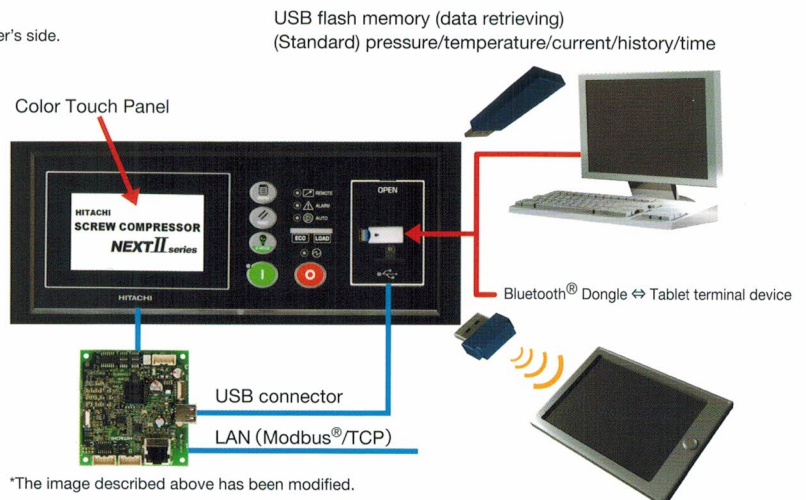
### Web Server Function via Bluetooth®

\*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.



\*Touch panel less option does NOT have these functions.  
(Touch Panel is NOT available for 11/15kW.)

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



Item • Unit		Model	OSP-11VAN2		OSP-15VAN2		OSP-22VAN2		OSP-37VAN2	
Cooling Method		–	Air-Cooled							
Nominal Output		kW	11		15		22		37	
		HP	15		20		30		50	
Rated	Discharge Pressure	MPa	0.85				0.7			
		PSI	123				102			
	Discharge Capacity	m <sup>3</sup> /min	1.63		2.15		4.1		6.8	
		CFM	58		76		145		240	
PQ WIDE MODE	Discharge Pressure	MPa	0.7	0.9	0.7	0.9	0.6	0.85	0.6	0.85
		PSI	102	131	102	131	87	123	87	123
MODE	Discharge Capacity	m <sup>3</sup> /min	1.79	1.53	2.4	2.04	4.3	3.6	7.1	6.2
		CFM	63	54	85	72	152	127	251	219
Intake Air Pressure/Temperature		–	Atmospheric Pressure / 0 to 45°C							
Discharge Temperature		°C	Atmospheric Temperature + 15 or below							
Driving Method		–	Inverter + 4-Pole TEFC Motor with V-Belt Drive				DCBL Direct Drive			
Starting Type		–	Soft Start							
Lubricating Oil		–	HITACHI NEW HISCREW OIL NEXT							
Lubricating Oil Quantity		L	6		7		10		15	
Nominal Output of Cooling Fan		kW	–							
Discharge Pipe Diameter		–	Rc 1				Rc 1-1/2			
Dimension (WxDxH)		mm	950×780×1,250				1,000×1,050×1,550		1,200×1,150×1,650	
Weight		kg	343		378		450		670	
Sound Level		dB [A]	58		61		58		60	

**M type**

Item • Unit		Model	OSP-11M5AN2	OSP-15M5AN2	OSP-18M5AN2	OSP-22M5AN2	OSP-30M5AN2	OSP-37M5AN2
Cooling Method		–	Air-Cooled					
Nominal Output		kW	11	15	18	22	30	37
		HP	15	20	24	30	40	50
Rated	Discharge Pressure	MPa	0.85 <0.7>	0.85 <0.7>	0.7 <0.85>	0.7 <0.85> [1.0]	0.7 <0.85>	0.7 <0.85> [1.0]
		PSI	123 <102>	123 <102>	102 <123>	102 <123> [113]	102 <123>	102 <123> [113]
	Discharge Capacity	m <sup>3</sup> /min	1.79 <1.63>	2.4 <2.15>	3.4 <3.0>	4.0 <3.7> [3.3]	6.0 <5.4>	7.2 <6.6> [5.8]
		CFM	63 <58>	85 <76>	120 <106>	141 <131> [117]	212 <191>	254 <233> [205]
Intake Air Pressure/Temperature		–	Atmospheric pressure / 0 to 45°C					
Discharge Temperature		°C	Atmospheric temperature + 15 or below					
Driving Method		–	4-Pole TEFC Motor with V-Belt Drive					
Starting Type		–	Direct connection/Star-Delta			Star-Delta		
Lubricating Oil		–	HITACHI NEW HISCREW OIL NEXT					
Lubricating Oil Quantity		L	6	7	10		15	
Nominal Output of Cooling Fan		kW	–		1.5	1.5 (with inverter control)	1.5	1.5 (with inverter control)
Discharge Pipe Diameter		–	Rc 1			Rc 1-1/2		
Dimension (WxDxH)		mm	950×780×1,250			1,000×1,050×1,550		1,200×1,150×1,650
Weight		kg	338	363	670		930	
Sound Level		dB [A]	58	61	59		65	

Note:

- Capacity is measured according to ISO 1217, Third Edition, Annex C.
- Pressure is indicated as the gauge pressure.
- 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 environment with echo of actual field installations.  
Sound Level may be increased by 3dB at PQ WIDEMODE ON.
- Contact the supplier for the dryer and filters selection at PQ WIDEMODE ON.
- Do NOT use any oil other than "HITACHI NEW HISCREW OIL NEXT".
- Install the proper size air receiver tank and the earth leakage circuit breaker which are out of scope of supply from Hitachi.
- Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- < > [ ] show values of capacity under different discharge pressures.
- 1.0 MPa model is ONLY available on 22/37kW Mtype. For details, contact your nearest dealer of Hitachi local representative office.
- Digital instrument panel can be chosen only for Mtype as Touch Panel less option.
- 11/15kW is only available digital instrument panel (Touch panel less).  
Touch panel is NOT available.

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.

**Hitachi Industrial Equipment Systems Co., Ltd.**

For further information, please contact your nearest sales representative.