

HISCREW NEXTILseries (18-75kW)







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

NEXTISeries

Full Range Loaded with High Efficiency Motor

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.



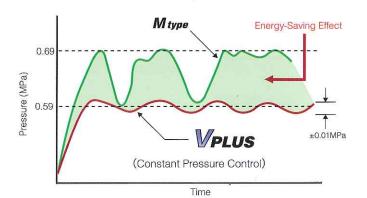
High Efficiency Capacity Control

VPLUS

Since Constant Pressure Control allows highly precise pressure control within range of ± 0.01 MPa, supply of compressed air at necessary pressure is possible with high efficiency.

M type

On M type models, I+P control (purge + motor auto START/STOP) is applicable during partial load operation.



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.

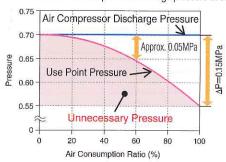
Example of effect by IPC

- 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)

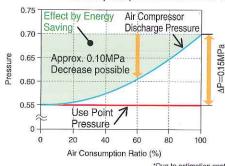
IPC-OFF (Conventional inverter control model)

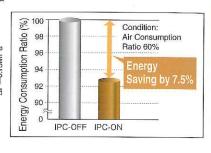
· Control the air compressor discharge pressure at 0.70MPa



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.

Multi-Function Touch Panel*

Significant Improvement of User-friendly







*The image described above has been modified.





150. 0 Hz

Monitor Indication

RUN HOUR

DIS TEMP 1 AMB TEMP



Notice	Indication		
a	AUTO RESTART	×	Marie and
	1/8 0.	OO _{uPa}	E-MODE
<	SCHEDULE STOP	>	INTERV
	10:00		P DIF
	10 00		3



Color Touch Panel

*Touch panel less option does NOT have these functions. (Touch panel less option is available only for 18/22/30/37MAN2.)

- 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
- Web Server Function
- ® Display/Store of Operation Data
- Store/Load of Settings
- Maintenance Time Notification
- 1 Operation Data Memory, Display in
- 12 Display of Shutdown and Alarm History

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®

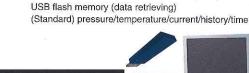
*Necessary to prepare a Bluetooth® USB dongle on your side.

*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.





*The image described above has been modified.

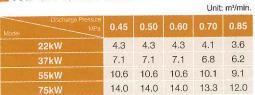
- ·Bluetooth is the registered trademark of Bluetooth SIG, Inc (US).
- Modbus is the registered trademark of Schneider Automation Inc.

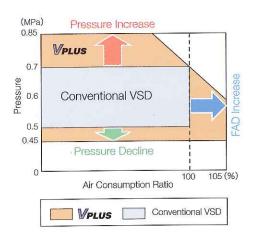
Versatility in Hitachi Original Technology

PQ WIDE MODE

PQ WIDE MODE, by automatically adjusting the maximum rotation speed of the compressor, enables to increase the discharge FAD in case that the pressure declines. Compared to conventional VSD, compressor is possible to operate at a wider range of pressure (P) and FAD (Q).

FAD at PQ WIDE MODE





Various System Combinations with VPLUS

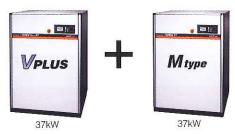
To respond to the change of air use, Hitachi provides various system combinations with VSD for further Energy-Saving.

V-M Combination System

If 2 or 3 compressors are necessary, Hitachi V-M combination system is your excellent choice. There is great merit on Hitachi V-M combination system which divides 1 compressor into 2.

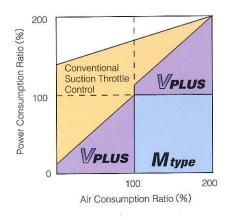
Example Effect of V-M Combination System

- 1 Energy consumption is similar to the one of 75kW V plus.
- Power consumption is saved by 39% or 164MWh/year, when the air consumption ratio is 60% at pressure of 0.6MPa.
 - * Calculation condition: 6,000h/year running



Single-V System/Multi-V System

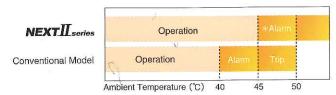
Besides V-M Combination System, Energy-Saving is also possible with any combination such as Single-V multi-unit control system, or Multi-V multi-unit control system etc.



High Reliability

Up to 50°C

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



* 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.

AC Reactor*

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

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

- Easy maintenance
- Maintenance information is indicated on the touch panel periodically.



Standard Specification (18-75kW)

VPLUS

Item · Unit		Model	OSP-2	2VAN2	OSP-	37VAN2	OSP-5	5VAN2	OSP-75VAN2	
Cooling Method -			Air-Cooled							
Nominal Output		kW	22		37		55		75	
		HP	30		50		75		100	
	Discharge Pressure	MPa	0.7							
Rated Discharge Pressure	PSI	102								
Discharge Capacity	m³/min	4.1 6.8		10.1		13.3				
	District Gapatry	CFM	145 240		357		470			
PQ	Discharge Pressure	MPa	0.6	0.85	0.6	0.85	0.6	0.85	0.6	0.85
WIDE	Distribute Fressure	PSI	87	123	87	123	87	123	87	123
MODE	Discharge Capacity	m³/min	4.3	3.6	7.1	6.2	10.6	9.1	14.0	12.0
		CFM	152	127	251	219	374	321	494	424
Intake Air Pressure/Temperature –		Atmospheric Pressure / 0 to 45°C								
Discharge Temperature °C		°C	Atmospheric Temperature + 15 or below							
Driving Method			DCBL Motor Direct Drive			DCBL Motor with Coupling				
Starting Type			Soft Start							
Lubricating Oil –			HITACHI NEW HISCREW OIL NEXT							
Lubricati	ng Oil Quantity	L	1	0		15	2	8	3	9
Nominal Output of Cooling Fan		kW	1.5 (with Inverter Control)				2.2 (with Inverter Control)			
Discharge Pipe Diameter			Rc 1·1/2			R	Rc 2			
Dimension (W×D×H) m		mm	1,000×1,050×1,550 1,200×1,150×1,650			2,000×1,200×1,800				
Weight		kg	45	50	6	70	1,230 1,4		05	
Sound L	evel	dB [A]	5	8	(60	6	4	6	6

Mtung

			OSP-18M5AN2	OSP-22M5AN2	OSP-30M5AN2	OSP-37M5AN2		
Cooling	Method	-	Air-Cooled					
Nominal Output		kW	18	22	30	37		
		HP	24	30	40	50		
	Discharge Proceure	MPa	0.7 < 0.85>	0.7 <0.85> [1.0]	0.7 < 0.85>	0.7 <0.85> [1.0]		
Rated	Discharge Pressure	PSI	102 <123>	102 <123> [145]	102 <123>	102 <123> [145]		
naieu	Discharge Capacity	m³/min	3.4 <3.0>	4.0 <3.7> [3.3]	6.0 < 5.4 >	7.2 <6.6> [5.8]		
		CFM	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 -			Star-Delta					
Lubricating Oil			HITACHI NEW HISCREW OIL NEXT					
Lubricating Oil Quantity		L		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 1-1/2						
Dimension (WxDxH) mm		1,000×1,050×1,550		1,200×1,150×1,650				
Neight		kg	670		930			
Sound L	Level	dB [A]	59		65			

		Model	OSP-55M5AN2	OSP-75M5AN2	
Cooling Method -			A	ir-Cooled	
Nominal Output		kW	55	75	
		HP	75	100	
Discharge Pressure	MPa	0.7 <0.85> [1.0]			
	Discharge Fressure	PSI	102 <123> [145]		
nateu	Discharge Capacity	m³/min	10.0 <9.0> [8.3]	13.2 <11.9> [10.9]	
	Discharge Capacity	CFM	353 <318> [293]	466 <420> [385]	
Intake Air Pressure/Temperature –			Atmospheric Pressure / 0 to 45°C		
Discharge Temperature		°C	Atmospheric Temperature + 15 or below		
Driving Method		-	2-Pole TEFC Motor with Gear Driving		
Starting Type			Star-Delta Star-Delta		
Lubricating Oil			HITACHI NEW HISCREW OIL NEXT		
Lubricating Oil Quantity		L	29	40	
Nominal Output of Cooling Fan		kW	1.5 (with Inverter Control)	2.2 (with Inverter Control)	
Discharge Pipe Diameter		-	Rc 2		
Dimension (WxDxH)		mm	2,000×1,200×1,800		
Weight		kg	1,400	1,690	
Sound Level dB [A]		dB [A]	65	67	

Notes:

- 1. Capacity is measured according to ISO 1217, Third Edition, Annex C.
- 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 environment with echo of actual field installations.
- Sound Level may be increased by 3dB at PQ WIDEMODE ON.

 4. Contact the supplier for the dryer and filters selection at PQ WIDEMODE ON.

 5. Do NOT use any oil other than "HITACHI NEW HISCREW OIL NEXT".
- 6. Install the proper size air receiver tank and the earth leakage circuit breaker which are out of scope of supply from Hitachi.
- 7. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
- 8. < > [] show values of capacity under different discharge pressures.
- 9. 1.0 MPa model is ONLY available on 22/37/55/75kW M type.
- For details, contact your nearest dealer of Hitachi local representative office.

 10. Digital instrument panel can be chosen only for M type (18/22/30/37kW) as Touch Panel less option.