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OIL-FLOODED SCREW **NX2**series 90-250kW



Hitachi Global Air Power (Changshu) Co., Ltd.

For more information, please consult Hitachi dealer nearest to you.

Due to product improvements, the specifications, appearance, etc. of the samples described in the manual are subject to change without notice.
The samples are presented in printed form and sometimes slightly different from actual products in color.

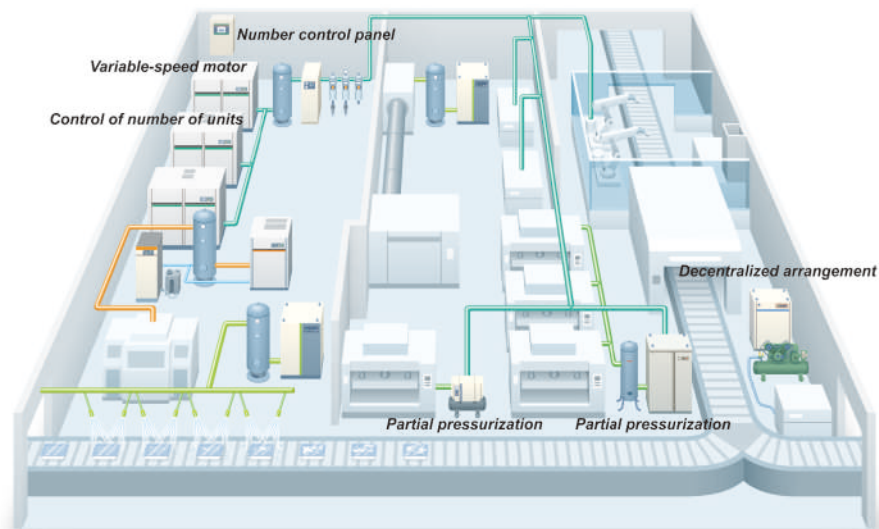
Hitachi – A Trusted Expert in Air Compressors

With a history of more than a century, Hitachi Compressor has always treated 100% customer satisfaction as the source of enterprise development.

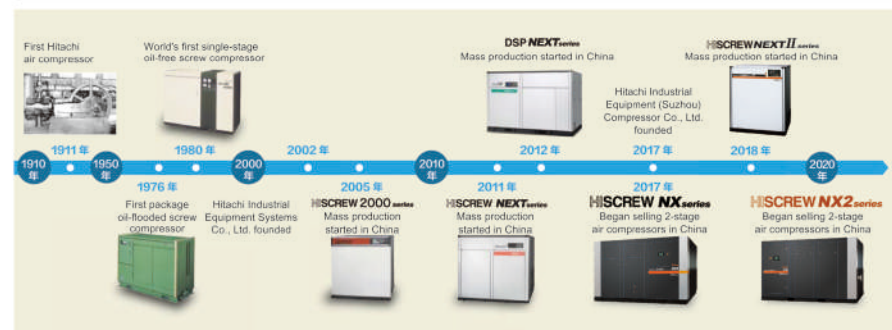
As the leading compressor manufacturer in Japan, we are committed to continuous technological innovation and development of air compressors to meet each customer's requirements. Our products are available in power from 0.2kW to 770kW and types of piston, scroll, screw, etc.

Hitachi can provide customers with the most suitable compressed air systems in both oil and oil-free applications.

We believe, with our high-quality and efficient air compressor products, multiple compressed air solutions and perfect pre-sales and after-sales services, Hitachi will become your most trusted compressed air expert.



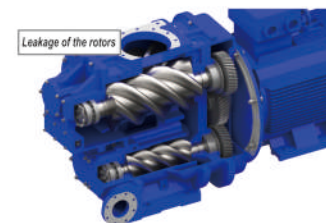
History of Hitachi Air Compressor



The latest interpretation of Hitachi air compressor's energy-saving technology

OSP NX2 series two-stage compressor

Features of two-stage compressor

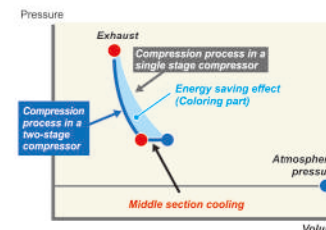


Take the 0.8MPa specification machine as an example

- Single-stage compressor increases air by about 0.8MPa from 0MPa (atmospheric pressure).
- When the two-stage compressor compresses the air from 0MPa (atmospheric pressure) to 0.2MPa at the first stage airtend, subsequently, the air is compressed from 0.2MPa to 0.8MPa at the second stage airtend.

Compared with the single-stage compressor, the leakage between the rotors caused by the pressure difference in the respective airtends is small because the two-stage compressor compresses the air in two stages, thereby achieving the effect of energy saving.

*Pressure is gauge pressure.



In terms of cooling, the two-stage compressor cools the compressed air at the outlet of first stage airtend.

After reducing the volume, it is sent to the secondary host side for second compression.

By reducing the volume, the load on the second stage airtend is smaller than that of the uncooled load.

Compared with the one-time compressed air of the single-stage compressor,

the two-stage compressor cools the compressed air in the middle section.

It makes the volume smaller, reduces the load of the second stage airtend, and also achieves the effect of high efficiency and energy saving.

Model list

Nominal Output (kW)			90	110	132	160	185	200	220	250
Model	V type	Air-cooled	○	○	○	○	○	○	○	○
		Water-cooled	○	○	○	○	○	○	○	○
Fixed speed type	M type	Air-cooled	○	○	○	○	○	○	○	○
		Water-cooled	○	○	○	○	○	○	○	○

OSP NX2 series

Variable speed type has been added to Hitachi's lineup of high performance, high efficiency two-stage compressor.

OSP ***NX2*** series (90-250kW)

■ High-efficiency and Energy-saving Screw Airend

Optimal design of rotor profile can maximize volume efficiency and improve Energy-Saving performance. Reliability of compressor is guaranteed by high level of processing and assembly precision in addition to large, high-precision, heavy-duty bearings



■ Industry-leading High Reliability

Equipped with high-quality motor

IP55 Protection Grade

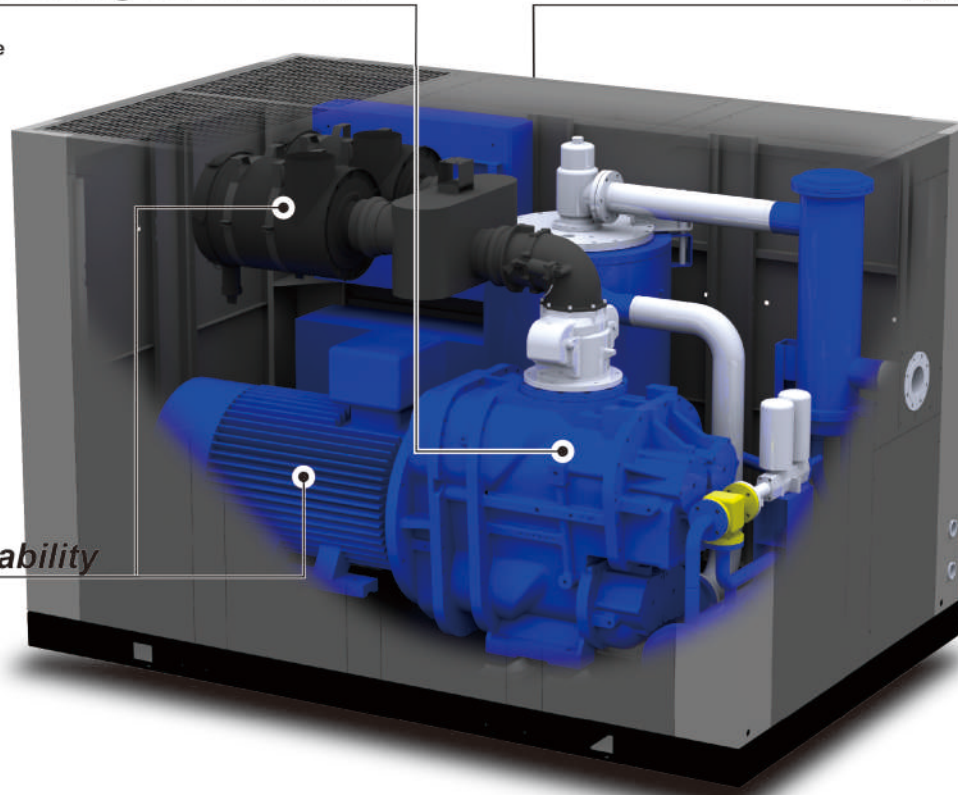
- Effectively protect motor from dust and moisture.
- Enhance the reliability of motor and compressor.

Equipped with standard dust-proof suction filter

Efficient gear drive for high reliability

■ New Intelligent Control System

- Equipped with new LCD touch screen
- Easier to operate
- Higher expandability



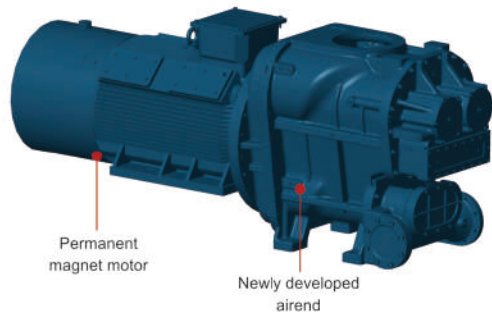
■ Hitachi Special Synthetic Oil

NEW HISCREW OIL NEXT

Special synthetic oil developed for Hitachi screw compressors

- High-quality special lubricating oil ensures stable operation of air compressors and improves the overall efficiency and reliability.
- Replacement cycle up to 2 years or 12,000 hours (subject to first reach) reduces operating costs.





Permanent magnet motor

Newly developed airend

Airend

- Equipped with newly developed airend(*)
- Compressor energy efficiency reaches the new GB1-2

(*)Excluding some models.

Main motor

- Permanent magnet motor for all models of inverter compressor
- Efficiency class: Equivalent to IE4
- Protection class: Ip55

Multi-function touch screen

The new color touch screen(*) comes standard and is easy to operate, allowing you to see the contents at a glance.

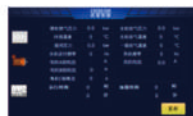
Simple operation of the touch screen allows you to obtain a wide range of information such as compressor operation information(discharge air pressure/discharge air temperature/current value), remaining time for maintenance, and fault history, as well as to set and change operating parameters.



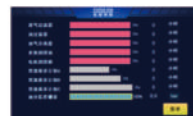
Default interface after power on



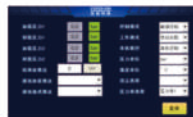
Main interface



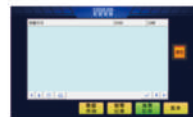
Operating conditions (Pressure, temperature, current value)



Remaining time for maintenance



Parameter setting



Fault history

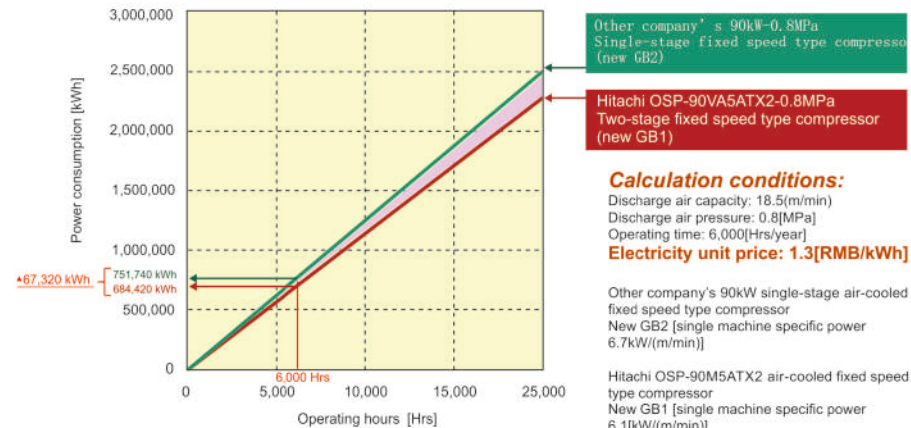
(*)The above operating interface applies:

OSP-90-250M/V5A/WTX2

The operating interface is not the same for 55/75M and 55/75V.

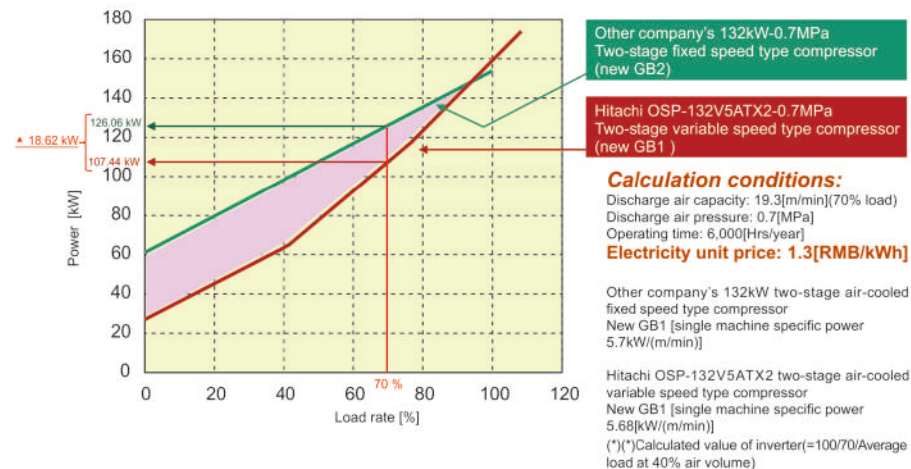
Two-stage compressor vs Single-stage compressor

Replace the original single-stage compressor with an efficient two-stage compressor, which reduces the cost of electricity. For example, in the case of a 90kW compressor as shown in the figure below, the power saving effect is a maximum annual saving of 67,320kWh(about **87,500RMB**. Calculated value)



Variable speed type compressor vs Fixed speed type compressor

Taking Hitachi's 132kW two-stage inverter compressor(GB1) to replace other brands' 132kW two-stage fixed speed type compressor (GB2). As an example, the maximum power saving effect is 111,714kWh(about **145,228RMB**) per year(Calculated value).



90-132 kW Mtype

Model		Mtype																																				
		OSP-90M5ATX2						OSP-90M5WTX2						OSP-110M5ATX2						OSP-110M5WTX2						OSP-132M5ATX2						OSP-132M5WTX2						
Item		Air						Water						Air						Water						Air						Water						
Cooling Method	-	Air						Water						Air						Water						Air						Water						
Voltage / Frequency	-	3Phase 380V/50HZ												3Phase 380V/50HZ												3Phase 380V/50HZ												
Nominal Motor Output	kW	90±1												110±1												132±1												
Rated Discharge	Pressure	MPa	0.7	0.8	-	0.7	0.8	-	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0												
	Capacity	m³/min	20.0	18.7	-	20.0	18.7	-	23.4	22.1	18.9	23.4	22.1	18.9	29.0	26.8	22.0	29.0	26.8	22.0	29.0	26.8	22.0	29.0	26.8	22.0												
Intake Air Pressure / Temperature		-	Atmospheric Pressure 0~45℃												Atmospheric Pressure 0~45℃												Atmospheric Pressure 0~45℃											
Discharge Temperature		℃	Intake temperature +15 or less						Cooling water temperature +13 or less						Intake temperature +15 or less						Cooling water temperature +13 or less						Intake temperature +15 or less						Cooling water temperature +13 or less					
Starting Method	-	Star-Delta												Star-Delta												Star-Delta												
Capacity Control Method	-	I + P												I + P												I + P												
Driving Method	-	Gear drive												Gear drive												Gear drive												
Lubricant Oil Type	-	NEW HISCREW OIL NEXT												NEW HISCREW OIL NEXT												NEW HISCREW OIL NEXT												
Lubricant Oil Filling Amount	L	105												105												105												
Cooling Water Temperature	℃	-						32 or less						-						32 or less						-						32 or less						
Cooling Water Amount	L/min	-						167						-						200						-						234						
Discharge Pipe Diameter	-	DN80												DN80												DN80												
Dimensions (Width x Depth x Height)	mm	3,050 X 1,850 X 2,120						2,850 X 1,850 X 2,120						3,050 X 1,850 X 2,120						2,850 X 1,850 X 2,120						3,050 X 1,850 X 2,120						2,850 X 1,850 X 2,120						
Rough Weight	kg	3,700						3,500						4,100						3,900						4,200						4,000						
Recommended Air Tank Volume	m³	3.0 or bigger												3.0 or bigger												4.0 or bigger												

160-185 kW Mtype

		Mtype																								
Model		OSP-160M5ATX2						OSP-160W5ATX2						OSP-185M5ATX2						OSP-185W5ATX2						
Item	Model	OSP-160M5ATX2						OSP-160W5ATX2						OSP-185M5ATX2						OSP-185W5ATX2						
Cooling Method	-	Air						Water						Air						Water						
Voltage / Frequency	-	3Phase 380V/50HZ						3Phase 380V/50HZ						3Phase 380V/50HZ						3Phase 380V/50HZ						
Nominal Motor Output	kW	160±1						160±1						185±1						185±1						
Rated Discharge	Pressure	MPa	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0						
	Capacity	m³/min	33.5	32.7	26.4	33.5	32.7	26.4	33.5	32.7	26.4	38.5	37.5	32.5	38.5	37.5	32.5	38.5	37.5	32.5						
Intake Air Pressure / Temperature		-	Atmospheric Pressure 0~45℃						Atmospheric Pressure 0~45℃						Atmospheric Pressure 0~45℃						Atmospheric Pressure 0~45℃					
Discharge Temperature		℃	Intake temperature +15 or less						Cooling water temperature +13 or less						Intake temperature +15 or less						Cooling water temperature +13 or less					
Starting Method	-	Star-Delta						Star-Delta						Star-Delta						Star-Delta						
Capacity Control Method	-	I + P						I + P						I + P						I + P						
Driving Method	-	Gear drive						Gear drive						Gear drive						Gear drive						
Lubricant Oil Type	-	NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT						
Lubricant Oil Filling Amount	L	130		105		130		105		130		105		130		105		130		105						
Cooling Water Temperature	℃	-						32 or less						-						32 or less						
Cooling Water Amount	L/min	-						300						-						334						
Discharge Pipe Diameter	-	DN100		DN80		DN100		DN80		DN100		DN80		DN100		DN80		DN100		DN80						
Dimensions (Width x Depth x Height)	0.7/0.8MPa	mm		3,600 X 1,850 X 2,150				3,050 X 1,850 X 2,150				3,600 X 1,850 X 2,150				3,050 X 1,850 X 2,150										
	1.0MPa	3,050 X 1,850 X 2,120		2,850 X 1,850 X 2,120																						
Rough Weight	0.7/0.8MPa	kg		5,300				5,000				5,600				5,300										
	1.0MPa	4,400		4,200								5,600				5,300										
Recommended Air Tank Volume	m³	4.0 or bigger												5.0 or bigger												

Note:

- ※1 Nominal Motor Output is a value used as a guide for the size of the compressor.
- For the compressor shaft power and the installed motor output, please refer to the installation manuals.
- Capacity is the converted value at its inlet condition.
- For guaranteed capacity values, please contact us separately.
- Pressure is indicated as the gauge pressure.
- Temperature of discharge air may vary from different environment.
- Install compressor inside room without explosive and corrosive gas and without much moisture and dust.
- Install air receiver tank which is bigger than the recommendation.
- Earth leakage circuit breaker is not attached. It should be prepared by customer.
- Dimension does not include protrusion.
- Appearance and specification may change without advanced notice.

200-250 kW Mtype

		Mtype																																									
Model		OSP-200M5ATX2						OSP-200M5WTX2						OSP-220M5ATX2						OSP-220M5WTX2						OSP-250M5ATX2						OSP-250M5WTX2											
Item	Model																																										
Cooling Method	-	Air						Water						Air						Water						Air						Water											
Voltage / Frequency	-	3Phase 380V/50HZ						3Phase 380V/50HZ						3Phase 380V/50HZ						3Phase 380V/50HZ						3Phase 380V/50HZ						3Phase 380V/50HZ											
Nominal Motor Output	kW	200±1						200±1						220±1						220±1						250±1						250±1											
Rated Discharge	Pressure	MPa	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0														
	Capacity	m³/min	44.0	41.5	35.5	44.0	41.5	35.5	50.5	46.0	40.7	50.5	46.0	40.7	53.5	49.0	46.0	53.5	49.0	46.0	53.5	49.0	46.0	53.5	49.0	46.0	53.5	49.0	46.0														
Intake Air Pressure / Temperature		-	Atmospheric Pressure 0~45℃						Atmospheric Pressure 0~45℃						Atmospheric Pressure 0~45℃						Atmospheric Pressure 0~45℃						Atmospheric Pressure 0~45℃																
Discharge Temperature		℃	Intake Air Temp. +15 or less						Cooling water temperature +13 or less						Intake Air Temp. +15 or less						Cooling water temperature +13 or less						Intake Air Temp. +15 or less						Cooling water temperature +13 or less										
Starting Method	-	Star-Delta						Star-Delta						Star-Delta						Star-Delta						Star-Delta																	
Capacity Control Method	-	I + P						I + P						I + P						I + P						I + P																	
Driving Method	-	Gear drive						Gear drive						Gear drive						Gear drive						Gear drive																	
Lubricant Oil Type	-	NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT																	
Lubricant Oil Filling Amount	L	170		130		170		170		130		170		170		130		170		170		130		170		170		130															
Cooling Water Temperature	℃	-						32 or less						-						32 or less						-						32 or less											
Cooling Water Amount	L/min	-						334						383						-						383						-						416					
Discharge Pipe Diameter	-	DN125		DN100		DN125		DN125		DN100		DN125		DN125		DN100		DN125		DN125		DN100		DN125		DN125		DN100															
Dimensions (Width x Depth x Height)	0.7/0.8MPa	mm		4,200 X 2,150 X 2,250				3,400 X 2,150 X 2,250				4,200 X 2,150 X 2,250				3,400 X 2,150 X 2,250				4,200 X 2,150 X 2,250				3,400 X 2,150 X 2,250																			
	1.0MPa			3,600 X 1,850 X 2,150				3,060 X 1,850 X 2,150																																			
Rough Weight	0.7/0.8MPa	kg		7,600				7,250				7,650				7,450				8,000				7,600																			
	1.0MPa			5,600				5,000				7,850				7,450				8,000				7,600																			
Recommended Air Tank Volume	m³	5.0 or bigger						5.0 or bigger						6.0 or bigger						6.0 or bigger						6.0 or bigger																	

90-132 kW Vtype

		Vtype																																									
Model		OSP-90V5ATX2						OSP-90V5WTX2						OSP-110V5ATX2						OSP-110V5WTX2						OSP-132V5ATX2						OSP-132V5WTX2											
Item		Air						Water						Air						Water						Air						Water											
Voltage / Frequency		3Phase 380V/50HZ												3Phase 380V/50HZ												3Phase 380V/50HZ																	
Nominal Motor Output		90±1						110±1						132±1																													
Rated Discharge	Pressure	MPa	0.7	0.8	—	0.7	0.8	—	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0																	
	Capacity	m³/min	20.0	18.7	—	20.0	18.7	—	23.4	22.1	18.9	23.4	22.1	18.9	29.0	26.8	22.0	29.0	26.8	22.0																							
Intake Air Pressure / Temperature		Atmospheric Pressure 0—45℃						Atmospheric Pressure 0—45℃						Atmospheric Pressure 0—45℃																													
Discharge Temperature		Intake temperature +15 or less						Cooling water temperature +13 or less						Intake temperature +15 or less						Cooling water temperature +13 or less						Intake temperature +15 or less						Cooling water temperature +13 or less											
Starting Method		Frequency conversion						Frequency conversion						Frequency conversion																													
Capacity Control Method		V						V						V																													
Driving Method		Gear drive						Gear drive						Gear drive																													
Lubricant Oil Type		NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT						NEW HISCREW OIL NEXT																													
Lubricant Oil Filling Amount		105						105						105																													
Cooling Water Temperature		—						32 or less						—						32 or less																							
Cooling Water Amount		L/min						167						—						200						—						234											
Discharge Pipe Diameter		DN80						DN80						DN80																													
Dimensions (Width × Depth × Height)		mm						3,200 X 1,850 X 2,120						3,000 X 1,850 X 2,120						3,200 X 1,850 X 2,120						3,000 X 1,850 X 2,120																	
Rough Weight		kg						3,750						3,550						4,180						3,980						4,280						4,080					
Recommended Air Tank Volume		m³						3.0 or bigger						3.0 or bigger						4.0 or bigger																							

160-185 kW Vtype

		Vtype															
Item	Model	OSP-160V5ATX2				OSP-160V5WTX2				OSP-185V5ATX2				OSP-185V5WTX2			
Cooling Method	-	Air				Water				Air				Water			
Voltage / Frequency	-	3Phase 380V/50HZ								3Phase 380V/50HZ							
Nominal Motor Output	kW	160±1								185±1							
Rated Discharge	Pressure	MPa	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0			
	Capacity	m³/min	33.5	32.7	26.4	33.5	32.7	26.4	38.5	37.5	32.5	38.5	37.5	32.5			
Intake Air Pressure / Temperature	-	Atmospheric Pressure 0~45℃								Atmospheric Pressure 0~45℃							
Discharge Temperature	℃	Intake temperature +15 or less				Cooling water temperature +13 or less				Intake temperature +15 or less				Cooling water temperature +13 or less			
Starting Method	-	Frequency conversion								Frequency conversion							
Capacity Control Method	-	V								V							
Driving Method	-	Gear drive								Gear drive							
Lubricant Oil Type	-	NEW HISCREW OIL NEXT								NEW HISCREW OIL NEXT							
Lubricant Oil Filling Amount	L	130		105		130		105		130							
Cooling Water Temperature	℃	-				32 or less				-				32 or less			
Cooling Water Amount	L/min	-				300				-				334			
Discharge Pipe Diameter	-	DN100		DN80		DN100		DN80		DN100				DN100			
Dimensions (Width x Depth x Height)	0.7/0.8MPa	3,900 X 1,850 X 2,150				3,350 X 1,850 X 2,150				3,900 X 1,850 X 2,150				3,350 X 1,850 X 2,150			
	1.0MPa	3,200 X 1,850 X 2,120				3,000 X 1,850 X 2,120				3,000 X 1,850 X 2,120				3,000 X 1,850 X 2,120			
Rough Weight	0.7/0.8MPa	5,560				5,200				5,600				5,260			
	1.0MPa	4,400				4,200				4,400				4,400			
Recommended Air Tank Volume	m³	4.0 or bigger								5.0 or bigger							

Note:

- ※1 Nominal Motor Output is a value used as a guide for the size of the compressor.
For the compressor shaft power and the installed motor output, please refer to the installation manuals.
- Capacity is the converted value at its inlet condition.
- For guaranteed capacity values, please contact us separately.
- Pressure is indicated as the gauge pressure.
- Temperature of discharge air may vary from different environment.
- Install compressor inside room without explosive and corrosive gas and without much moisture and dust.
- Install air receiver tank which is bigger than the recommendation.
- Earth leakage circuit breaker is not attached. It should be prepared by customer.
- Dimension does not include protrusion.
- Appearance and specification may change without advanced notice.

200-250 kW Vtype

		Vtype																																			
Item	Model	OSP-200V5ATX2						OSP-200V5WTX2						OSP-220V5ATX2						OSP-220V5WTX2						OSP-250V5ATX2						OSP-250V5WTX2					
Cooling Method		-		Air						Water						Air		Water				Air		Water													
Voltage / Frequency		-		3Phase 380V/50HZ						3Phase 380V/50HZ						3Phase 380V/50HZ																					
Nominal Motor Output		kW		200±1						220±1						250±1																					
Rated Discharge	Pressure	MPa	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0	0.7	0.8	1.0											
	Capacity	m³/min	44.0	41.5	35.5	44.0	41.5	35.5	50.5	46.0	40.7	50.5	46.0	40.7	53.5	49.0	46.0	53.5	49.0	46.0																	
Intake Air Pressure / Temperature		-		Atmospheric Pressure 0~45℃																																	
Discharge Temperature		℃		Intake Air Temp. +15 or less						Cooling water temperature +13 or less						Intake Air Temp. +15 or less		Cooling water temperature +13 or less																			
Starting Method		-		Frequency conversion																																	
Capacity Control Method		-		V																																	
Driving Method		-		Gear drive																																	
Lubricant Oil Type		-		NEW HISCREW OIL NEXT																																	
Lubricant Oil Filling Amount	0.7/0.8MPa	L	170						170						170																						
	1.0MPa		130						170						170																						
Cooling Water Temperature		℃		-		32 or less				-		32 or less				-		32 or less																			
Cooling Water Amount		L/min		-		334				383		-		383				-		416																	
Discharge Pipe Diameter		-		DN125		DN100		DN125		DN100		DN125		DN100		DN125		DN100		DN125																	
Dimensions (Width x Depth x Height)	0.7/0.8MPa	mm	4,200 X 2,150 X 2,250						3,400 X 2,150 X 2,250						4,200 X 2,150 X 2,250		3,400 X 2,150 X 2,250				4,200 X 2,150 X 2,250		3,400 X 2,150 X 2,250														
	1.0MPa		3,900 X 1,850 X 2,150						3,350 X 1,850 X 2,150																												
Rough Weight	0.7/0.8MPa	kg	8,000						7,600						8,100		7,700				8,200		7,800														
	1.0MPa		6,100						5,800																												
Recommended Air Tank Volume		m³		5.0 or bigger						6.0 or bigger						6.0 or bigger																					