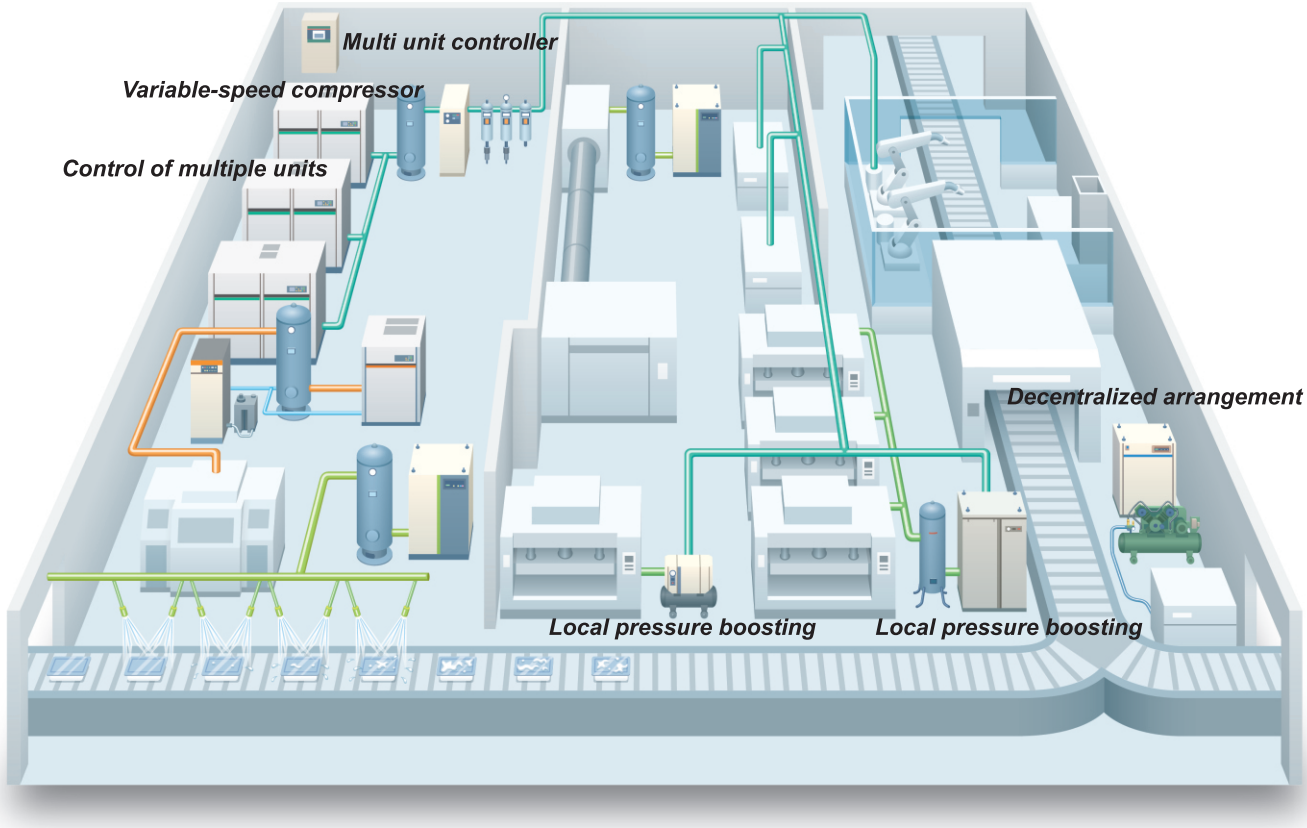
*Hitachi Two-Stage Oil Flooded Rotary Screw Compressor*

HITACHI
Inspire the Next

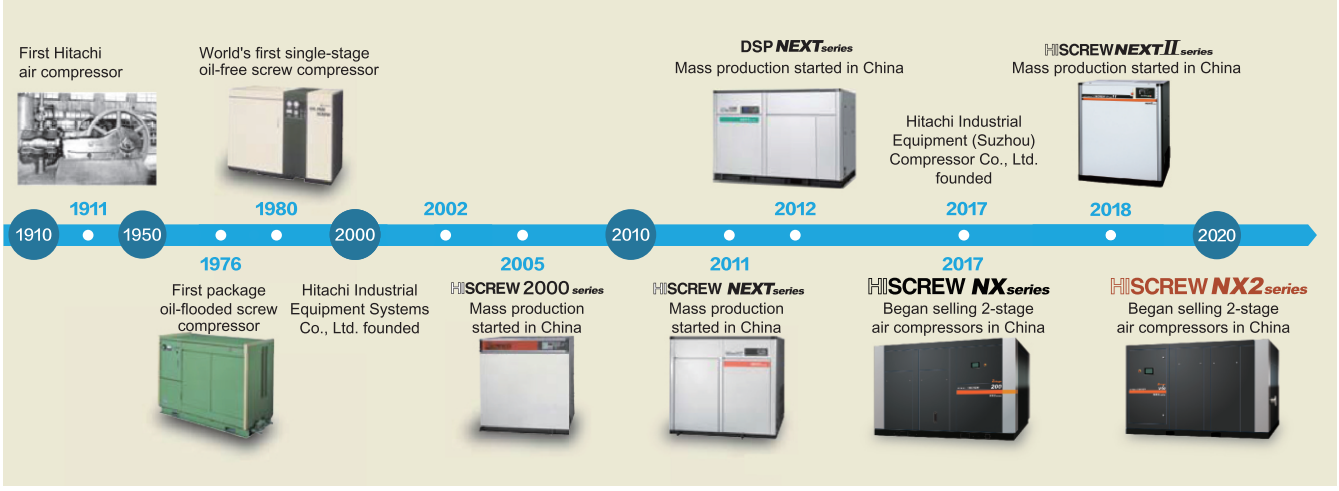
# OIL-FLOODED SCREW *NX2 series* 90-250kW

# 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-flooded 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.***



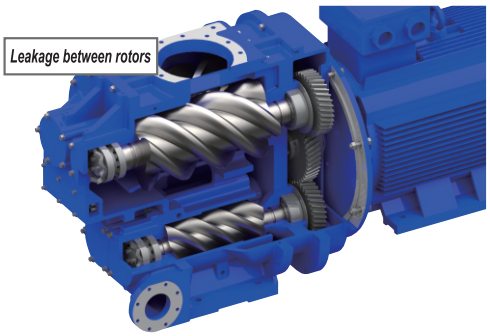

## History of Hitachi Air Compressor



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

## OSP NX2 series two-stage compressor

## Features of two-stage compressor

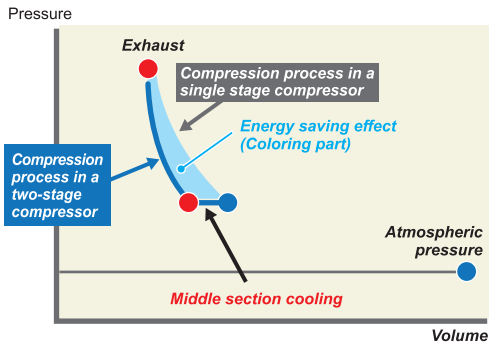



**Take the 0.8MPa specification machine as an example**

- Single-stage compressor compresses the air from 0MPa (atmospheric pressure) to about 0.8MPa .
- Two-stage compressor
  compresses the air from 0MPa (atmospheric pressure) to 0.2MPa at the first stage airend, subsequently, the air is compressed from 0.2MPa to 0.8MPa at the second stage airend.

**Compared with the single-stage compressor, the leakage between the rotors caused by the pressure difference in the respective airends 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 airend.**
**After reducing the volume, it is sent to the second stage airend for second compression.**
**By reducing the volume, the load on the second stage airend 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 airend, and also achieves the effect of high efficiency and energy saving.

## Model list

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

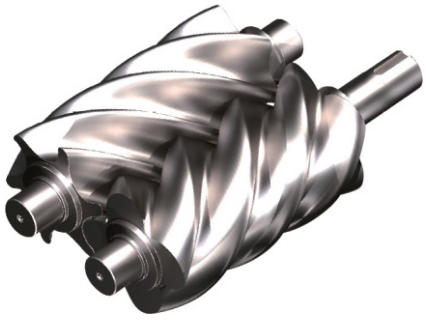
## OSP NX2 series

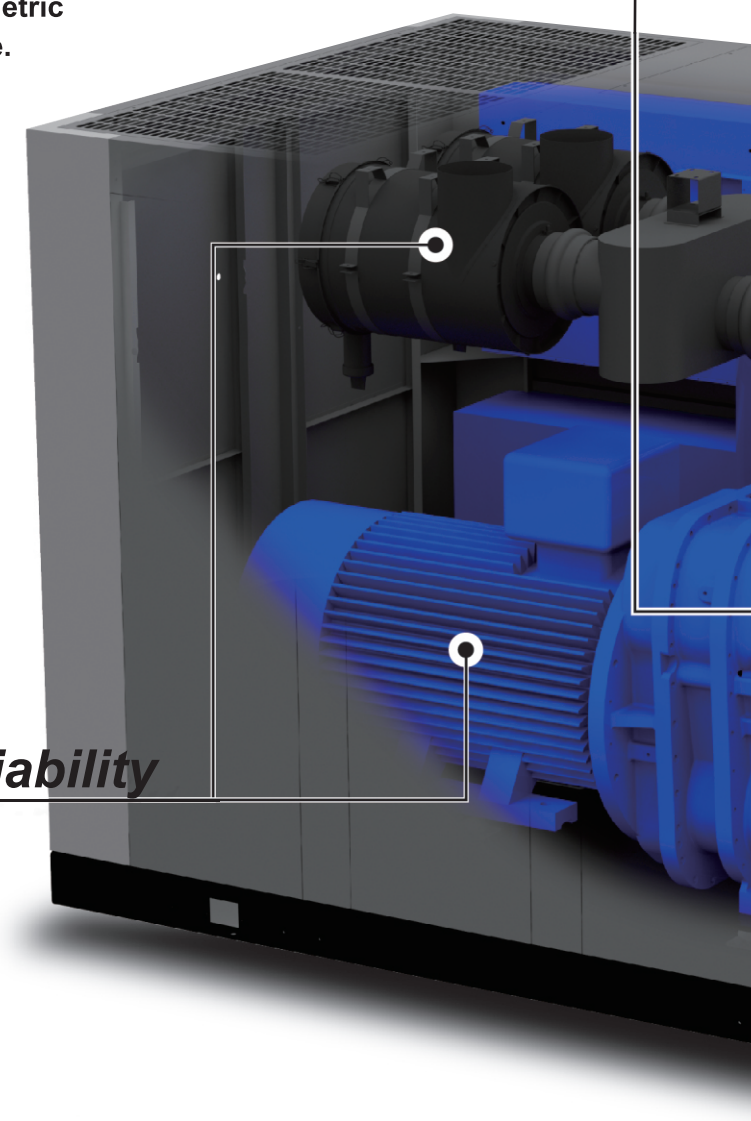
Variable speed type has been added to Hitachi's lineup of high performance, high efficiency two-stage compressor.

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

## *High-efficiency and Energy-saving Screw Airend*

**Optimal design of rotor profile can maximize volumetric 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 operation
- Higher expandability

OSP-250M5WTX2

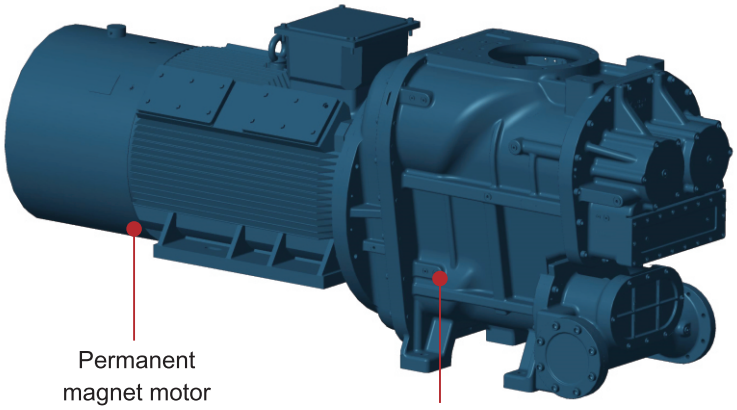
## Dedicated Synthetic Oil

### NEW HISCREW OIL NEXT

Dedicated synthetic oil developed for Hitachi screw compressors

- High-quality dedicated 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.

## Efficient motor and airend




### Airend

- Equipped with newly developed airend(*)
- High efficiency and high performance

(*)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.***

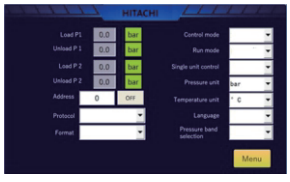
Simple operation of the touch screen allows you to obtain a wide range of information such as compressor operation information(discharge air pressure/discharge air temperature/current value), remaining time for maintenance, and fault history, as well as to set and change operating parameters.


Default interface after power on


Main interface


Operating conditions (Pressure, temperature, current value)


Remaining time for maintenance



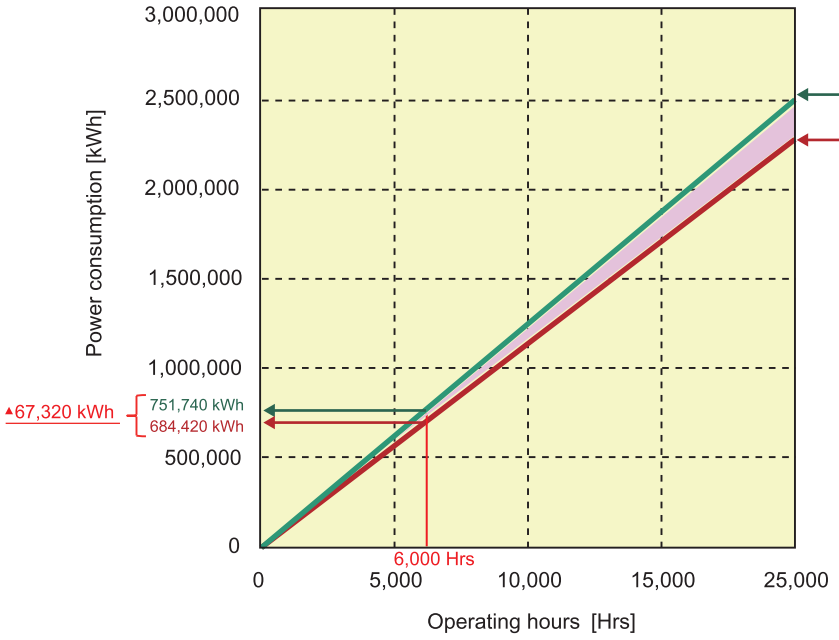

Parameter setting


Fault history

# Energy saving effect

## Two-stage compressor vs Single-stage compressor

Replace the existing 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 maximum annual energy saving effect of **67,320kWh(Calculated value)**.




Another company's 90kW-0.8MPa
Single-stage fixed speed type compressor

Hitachi OSP-90V5ATX2-0.8MPa
Two-stage fixed speed type compressor

### Calculation conditions:

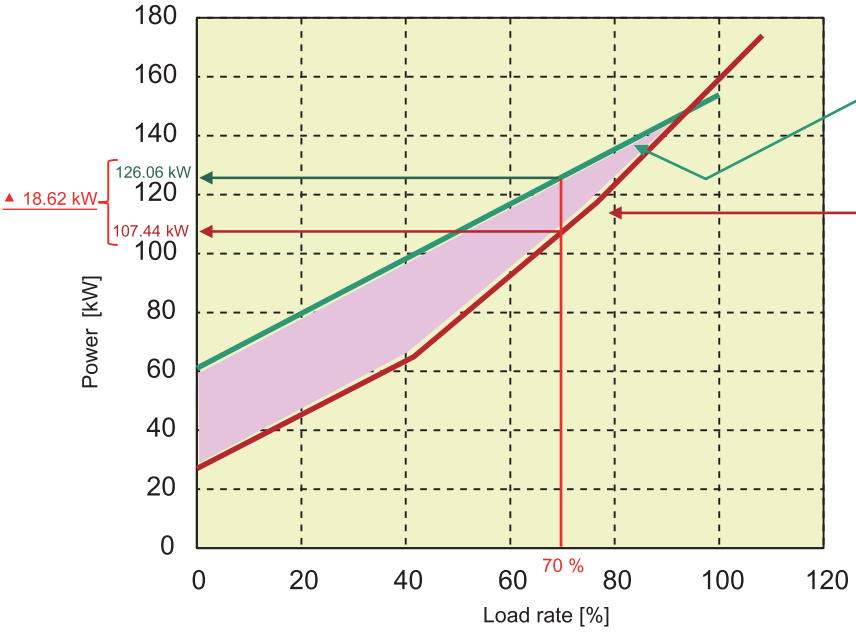
Discharge air capacity: 18.5($m^3$/min)
Discharge air pressure: 0.8[MPa]
Operating time: 6,000[Hrs/year]

Another company's 90kW single-stage air-cooled fixed speed type compressor
[single machine specific power
6.7kW/($m^3$/min)]

Hitachi OSP-90M5ATX2 air-cooled fixed speed type compressor
[single machine specific power
6.1[kW/($m^3$/min)]

## Variable speed type compressor vs Fixed speed type compressor

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




Another company's 132kW-0.7MPa
Two-stage fixed speed type compressor

Hitachi OSP-132V5ATX2-0.7MPa
Two-stage variable speed type compressor

### Calculation conditions:

Discharge air capacity: 19.3[$m^3$/min](70% load)
Discharge air pressure: 0.7[MPa]
Operating time: 6,000[Hrs/year]

Another company's 132kW two-stage air-cooled fixed speed type compressor
[single machine specific power
5.7kW/($m^3$/min)]

Hitachi OSP-132V5ATX2 two-stage air-cooled variable speed type compressor
[single machine specific power
5.68[kW/($m^3$/min)]
(*)Calculated value of variable speed type compressor
(=Average load at 100/70/40% air volume)

# Table of Standard Specifications

## 90-132 kW M type

| M type | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item \ Model | | | OSP-90M5ATX2 | | | OSP-90M5WTX2 | | | OSP-110M5ATX2 | | | OSP-110M5WTX2 | | | OSP-132M5ATX2 | | | OSP-132M5WTX2 | | |
| Cooling Method | | - | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | |
| Voltage(50Hz) | | V | 380 | | | | | | 380 | | | | | | 380 | | | | | |
| Nominal 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 |
| | Discharge Air Capacity | $m^3$/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 Air Temperature | | ℃ | Ambient Temperature +15 or below | | | Cooling Water Temperature +13 or below | | | Ambient Temperature +15 or below | | | Cooling Water Temperature +13 or below | | | Ambient Temperature +15 or below | | | Cooling Water Temperature +13 or below | | |
| Starting Method | | - | Star-Delta | | | | | | Star-Delta | | | | | | Star-Delta | | | | | |
| Driving Method | | - | Gear drive | | | | | | Gear drive | | | | | | Gear drive | | | | | |
| Lubricating Oil | | - | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | |
| Lubricating Oil Capacity | | L | 105 | | | | | | 105 | | | | | | 105 | | | | | |
| Cooling Water Temperature | | ℃ | – | | | 32 or below | | | – | | | 32 or below | | | – | | | 32 or below | | |
| Cooling Water Flow Rate | | 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 | | |
| Weight | | kg | 3,700 | | | 3,500 | | | 4,100 | | | 3,900 | | | 4,200 | | | 4,000 | | |
| Recommended Air Receiver Volume | | $m^3$ | 3.0 or bigger | | | | | | 3.0 or bigger | | | | | | 4.0 or bigger | | | | | |

## 160-185 kW M type

| M type | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item \ Model | | | OSP-160M5ATX2 | | | OSP-160M5WTX2 | | | OSP-185M5ATX2 | | | OSP-185M5WTX2 | | | | | | | |
| Cooling Method | | - | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | | | | | | |
| Voltage(50Hz) | | V | 380 | | | | | | 380 | | | | | | | | | | |
| Nominal 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 | | | | | |
| | Discharge Air Capacity | $m^3$/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 Air Temperature | | ℃ | Ambient Temperature +15 or below | | | Cooling Water Temperature +13 or below | | | Ambient Temperature +15 or below | | | Cooling Water Temperature +13 or below | | | | | | | |
| Starting Method | | - | Star-Delta | | | | | | Star-Delta | | | | | | | | | | |
| Driving Method | | - | Gear drive | | | | | | Gear drive | | | | | | | | | | |
| Lubricating Oil | | - | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | | | | | | |
| Lubricating Oil Capacity | | L | 150 | | 105 | 150 | | 105 | 150 | | | | | | | | | | |
| Cooling Water Temperature | | ℃ | – | | | 32 or below | | | – | | | 32 or below | | | | | | | |
| Cooling Water Flow Rate | | L/min | – | | | 300 | | | – | | | 334 | | | | | | | |
| Discharge Pipe Diameter | | - | DN100 | | DN80 | DN100 | | DN80 | DN100 | | | DN100 | | | | | | | |
| 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 | | | | | | | | | | | | | |
| 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 Receiver Volume | | $m^3$ | 4.0 or bigger | | | | | | 5.0 or bigger | | | | | | | | | | |

**Note:**

1. Capacity is measured according to ISO 1217, Annex C.
2. For guaranteed capacity values, please contact your nearest sales representative.
3. Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
4. Discharge pressure is gauge pressure.
5. Temperature of discharge air may vary from different environments.
6. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
7. Be sure to install an air tank with more than the recommended capacity.
8. Earth leakage breaker is not built in the compressor. Prepare by customer.
9. Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
10. Appearance and specifications are subject to change without notice.

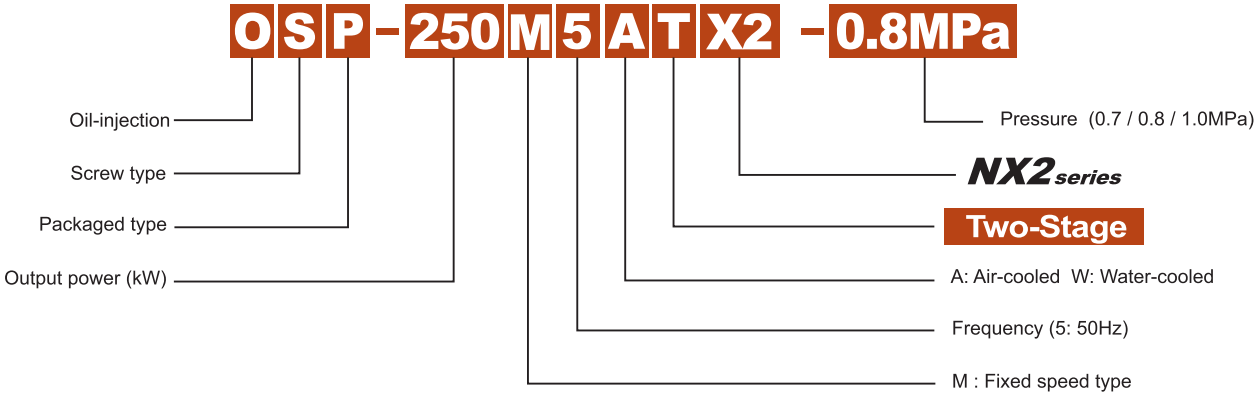
## 200-250 kW M type

| M type | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item \ Model | | | OSP-200M5ATX2 | | | OSP-200M5WTX2 | | | OSP-220M5ATX2 | | | OSP-220M5WTX2 | | | OSP-250M5ATX2 | | | OSP-250M5WTX2 | | |
| Cooling Method | | - | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | |
| Voltage(50Hz) | | V | 380 | | | | | | 380 | | | | | | 380 | | | | | |
| Nominal 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 |
| | Discharge Air Capacity | $m^3$/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℃ | | | | | | Atmospheric Pressure / 0~45℃ | | | | | | Atmospheric Pressure / 0~45℃ | | | | | |
| Discharge Air 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 | | | | | |
| Driving Method | | - | Gear drive | | | | | | Gear drive | | | | | | Gear drive | | | | | |
| Lubricating Oil | | - | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | |
| Lubricating Oil Capacity | | L | 170 | | 150 | 170 | | 150 | 170 | | | | | | 170 | | | | | |
| Cooling Water Temperature | | ℃ | – | | | 32 or less | | | – | | | 32 or less | | | – | | | 32 or less | | |
| Cooling Water Flow Rate | | L/min | – | | | 334 | | 383 | – | | | 383 | | | – | | | 416 | | |
| Discharge Pipe Diameter | | - | DN125 | | DN100 | DN125 | | DN100 | DN125 | | | | | | 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 | | 3,600 X 1,850 X 2,150 | | | 3,050 X 1,850 X 2,150 | | | | | | | | | | | | | | |
| Weight | 0.7/0.8MPa | kg | 7,600 | | | 7,250 | | | 7,850 | | | 7,450 | | | 8,000 | | | 7,600 | | |
| | 1.0MPa | | 5,600 | | | 5,000 | | | 7,850 | | | 7,450 | | | 8,000 | | | 7,600 | | |
| Recommended Air Receiver Volume | | $m^3$ | 5.0 or bigger | | | | | | 6.0 or bigger | | | | | | 6.0 or bigger | | | | | |

**Note:**

1. Capacity is measured according to ISO 1217, Annex C.
2. For guaranteed capacity values, please contact your nearest sales representative.
3. Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
4. Discharge pressure is gauge pressure.
5. Temperature of discharge air may vary from different environments.
6. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
7. Be sure to install an air tank with more than the recommended capacity.
8. Earth leakage breaker is not built in the compressor. Prepare by customer.
9. Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
10. Appearance and specifications are subject to change without notice.

# Model Implication



# Table of Standard Specifications

## 90-132 kW V type

| V type | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item \ Model | | | OSP-90V5ATX2 | | | OSP-90V5WTX2 | | | OSP-110V5ATX2 | | | OSP-110V5WTX2 | | | OSP-132V5ATX2 | | | OSP-132V5WTX2 | | |
| Cooling Method | | - | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | |
| Voltage(50Hz) | | V | 380 | | | | | | 380 | | | | | | 380 | | | | | |
| Nominal 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 |
| | Discharge Air Capacity | $m^3$/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 Air 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 | | | | | |
| Driving Method | | - | Gear drive | | | | | | Gear drive | | | | | | Gear drive | | | | | |
| Lubricating Oil | | - | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | |
| Lubricating Oil Capacity | | L | 105 | | | | | | 105 | | | | | | 105 | | | | | |
| Cooling Water Temperature | | ℃ | – | | | 32 or less | | | – | | | 32 or less | | | – | | | 32 or less | | |
| Cooling Water Flow Rate | | L/min | – | | | 167 | | | – | | | 200 | | | – | | | 234 | | |
| Discharge Pipe Diameter | | - | DN80 | | | | | | DN80 | | | | | | DN80 | | | | | |
| Dimensions (Width x Depth x 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 | | | 3,200 X 1,850 X 2,120 | | | 3,000 X 1,850 X 2,120 | | |
| Weight | | kg | 3,750 | | | 3,550 | | | 4,180 | | | 3,980 | | | 4,280 | | | 4,080 | | |
| Recommended Air Receiver Volume | | $m^3$ | 3.0 or bigger | | | | | | 3.0 or bigger | | | | | | 4.0 or bigger | | | | | |

## 160-185 kW V type

| V type | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item \ Model | | | OSP-160V5ATX2 | | | | OSP-160V5WTX2 | | | | OSP-185V5ATX2 | | | | | OSP-185V5WTX2 | | | | |
| Cooling Method | | - | Air-Cooled | | | | Water-Cooled | | | | Air-Cooled | | | | | Water-Cooled | | | | |
| Voltage(50Hz) | | V | 380 | | | | | | | | 380 | | | | | | | | | |
| Nominal 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 | | |
| | Discharge Air Capacity | $m^3$/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 Air 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 | | | | | | | | | |
| Driving Method | | - | Gear drive | | | | | | | | Gear drive | | | | | | | | | |
| Lubricating Oil | | - | NEW HISCREW OIL NEXT | | | | | | | | NEW HISCREW OIL NEXT | | | | | | | | | |
| Lubricating Oil Capacity | | L | 150 | | 105 | | 150 | | 105 | | 150 | | | | | | | | | |
| Cooling Water Temperature | | ℃ | – | | | | 32 or less | | | | – | | | | | 32 or less | | | | |
| Cooling Water Flow Rate | | L/min | – | | | | 300 | | | | – | | | | | 334 | | | | |
| Discharge Pipe Diameter | | - | DN100 | | DN80 | | DN100 | | DN80 | | DN100 | | | | | DN100 | | | | |
| Dimensions (Width x Depth x Height) | 0.7/0.8MPa | mm | 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 | | | | | | | | | | | | | |
| Weight | 0.7/0.8MPa | kg | 5,560 | | | | 5,260 | | | | 5,600 | | | | | 5,260 | | | | |
| | 1.0MPa | | 4,400 | | | | 4,200 | | | | | | | | | | | | | |
| Recommended Air Receiver Volume | | $m^3$ | 4.0 or bigger | | | | | | | | 5.0 or bigger | | | | | | | | | |

**Note:**

1. Capacity is measured according to ISO 1217, Annex C.
2. For guaranteed capacity values, please contact your nearest sales representative.
3. Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
4. Discharge pressure is gauge pressure.
5. Temperature of discharge air may vary from different environments.
6. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
7. Be sure to install an air tank with more than the recommended capacity.
8. Earth leakage breaker is not built in the compressor. Prepare by customer.
9. Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
10. Appearance and specifications are subject to change without notice.

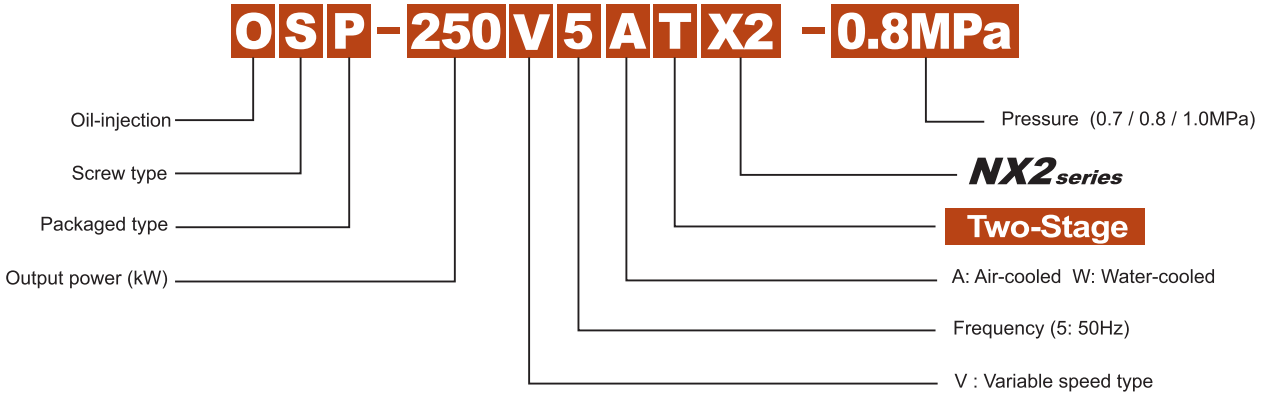
## 200-250 kW V type

| V type | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item \ Model | | | OSP-200V5ATX2 | | | OSP-200V5WTX2 | | | OSP-220V5ATX2 | | | OSP-220V5WTX2 | | | OSP-250V5ATX2 | | | OSP-250V5WTX2 | | |
| Cooling Method | | - | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | | Air-Cooled | | | Water-Cooled | | |
| Voltage(50Hz) | | V | 380 | | | 380 | | | 380 | | | 380 | | | 380 | | | 380 | | |
| Nominal 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 |
| | Discharge Air Capacity | $m^3$/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℃ | | | | | | Atmospheric Pressure / 0~45℃ | | | | | | Atmospheric Pressure / 0~45℃ | | | | | |
| Discharge Air 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 | | - | Frequency conversion | | | | | | Frequency conversion | | | | | | Frequency conversion | | | | | |
| Driving Method | | - | Gear drive | | | | | | Gear drive | | | | | | Gear drive | | | | | |
| Lubricating Oil | | - | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | | NEW HISCREW OIL NEXT | | | | | |
| Lubricating Oil Capacity | 0.7/0.8MPa | L | 170 | | | | | | 170 | | | | | | 170 | | | | | |
| | 1.0MPa | | 150 | | | | | | | | | | | | | | | | | |
| Cooling Water Temperature | | ℃ | – | | | 32 or less | | | – | | | 32 or less | | | – | | | 32 or less | | |
| Cooling Water Flow Rate | | L/min | – | | | 334 | | 383 | – | | | 383 | | | – | | | 416 | | |
| Discharge Pipe Diameter | | - | DN125 | | DN100 | DN125 | | DN100 | DN125 | | | | | | 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 | | | | | | | | | | | | | | |
| 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 Receiver Volume | | $m^3$ | 5.0 or bigger | | | | | | 6.0 or bigger | | | | | | 6.0 or bigger | | | | | |

**Note:**

1 Capacity is measured according to ISO 1217, Annex C.
2. For guaranteed capacity values, please contact your nearest sales representative.
3. Nominal output is a numerical value for the rough compressor capacity. Refer to installation drawings when you plan the compressor shaft power, installed motor output, and power supply equipment.
4. Discharge pressure is gauge pressure.
5. Temperature of discharge air may vary from different environments.
6. Install the air compressor indoors and avoid flammable and corrosive environment, moisture and dust.
7. Be sure to install an air tank with more than the recommended capacity.
8. Earth leakage breaker is not built in the compressor. Prepare by customer.
9. Dimensions do not include the pipes and protruding parts. Refer to the drawing for more details.
10. Appearance and specifications are subject to change without notice.

# Model Implication




## Asia & Oceania

### China

**Hitachi Industrial Equipment Systems (China) Co., Ltd.**
(Shanghai Branch)
Room2201, Rui Jin Building, No.205
Maoming Road(S) Shanghai 200020
TEL : +86 (21) 5489-2378
FAX : +86 (21) 3356-5070
(Beijing Branch)
Room1420, Beijing Fortune Building,
No.5 Dong San Huan Bei Road,
Chao Yang District, Beijing 100004
TEL : +86 (10) 6590-8180
FAX: +86 (10) 6590-8189
(Guangzhou Branch)
Room3003, HNA Tower,
8# Linhezhong Road, Tianhe District,
Guangzhou 510610
TEL : +86 (20) 3877-0438
FAX: +86 (20) 2735-3820

**Hitachi Industrial Equipment Systems (Hong Kong) Co., Ltd.**
8/F, Building 20E, Phase 3, Hong Kong
Science Park, Pak Shek Kok,
New Territories, Hong Kong
TEL: +852 2735-9218
FAX: +852 2735-6793

**Taiwan Hitachi Asia Pacific Co., Ltd**
3rd Floor, No. 167. Tun Hwa N. Road,
Hung-Kuo Building, Taipei 10512, Taiwan
TEL : +886 (2) 2718-3666
FAX: +886 (2) 2514-7664

### Indonesia

**PT Hitachi Asia Indonesia**
International Financial Centre Tower 2
39th floor Suite #03-04, Jl.
Jenderal Sudirman Kav 22-23,
Jakarta Selatan, 12920, Indonesia
TEL : +62 (21) 2528470
FAX : +62 (21) 2358 6755

### Malaysia

**Hitachi Asia (Malaysia) Sdn. Bhd.**
Suite 17.3, Level 17, Menara IMC
(Letter Box No.5) No. 8 Jalan Sultan
Ismail, 50250, Kuala Lumpur
TEL : +60 (3) 2031-8751
FAX: 160 (3) 2031-8758

### Philippines

**Hitachi Asia Ltd. Philippine Branch**
Unit 8. 11th Floor Zuellig Bldg.,
Makati Avenue corner Paseo de Roxas
Makati City, Philippines 1225
TEL: +632 886-9018
FAX: +632 887-3794

### Singapore

**Hitachi Asia Ltd.**
**(Industrial Components & Equipment Group)**
7 Tampines Grande, #08-01
Hitachi Square, Singapore 528736
TEL: +65-6305-2100
FAX: +65-6305-2100

### Thailand

**Hitachi Asia (Thailand) Co.. Ltd.**
12th Floor, Ramaland Bldg., No.952,
Rama IV Road, Suriyawongse, Bangrak,
Bangkok 10500, Thailand
TEL : +66 (2) 632-9292
FAX: +66 (2) 632-9299

### Viet Nam

**Hitachi Asia Ltd.**
**(Ho Chi Minh City Office)**
Room 8-9-10A 4th Floor, The Landmark,
5B Ton Duc Thang Street, Ben Nghe Ward,
District 1, Ho Chi Minh City, Vietnam
TEL: +84 (8) 3829-9725
FAX: +84 (8) 3829-9729
**(Ha Noi Office)**
Room 2302, 23th West, Lotte Center,
54 Lieu Giai street, Cong Vi Ward,
Ba Dinh District, Hanoi, Vietnam
TEL: +84 (4) 3933-3123
FAX: +84 (4) 3933-3125

## 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.

Printed in China(H) **HCS-E001A 2023.12**