HITACHI

# USES ENVIRONMETAL-FRIENDLY REFRIGERANT

# INCREASED ENERGY EFFICIENCY

Hitachi continues to innovate and revolutionize its packaged air conditioners with an environment friendly goal in mind. New environmentally friendly refrigerant R410A having an ozone-depleting coefficient of zero is used for its new Hitachi packaged air conditioners, reducing the load on the environment..

## HIGH EFFICIENCY SCROLL COMPRESSOR

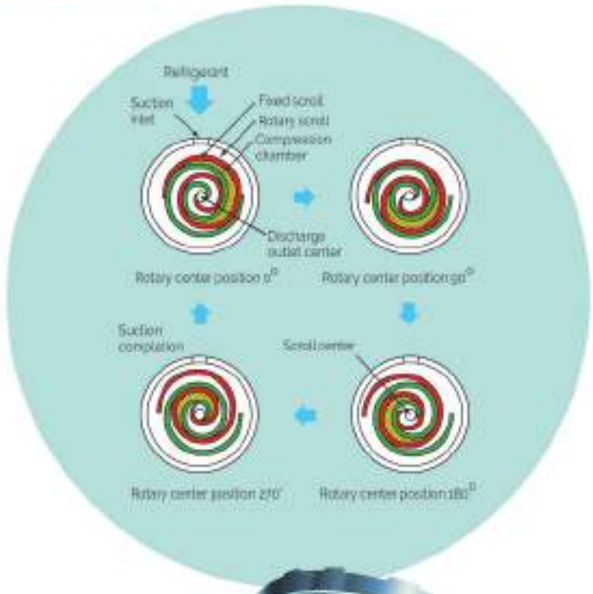
**Low Wear, Low Failure**
Since the inlet and the outlet of a scroll compressor are not proximal to each other, no valve plate is required at the inlet or the outlet. The flow of refrigerant is smooth. Unlike a traditional compressor, the scroll compressor does not suffer failure due to damaged valve plates.

**High Efficiency, Energy Saving**
During operation of a scroll compressor, the amount of air leaked between high-pressure regions and low-pressure regions is very small. Additionally, since the inlet and the outlet are not proximal to each other, almost no refrigerant is leaked. As a result, the scroll compressor can be used to its full effect, achieving an effect of intensive cooling and energy saving.

**High Quality, Few Failures**
Since the inlet and the outlet of the scroll compressor are not proximal to each other, no valve plate is required at the inlet or the outlet. The flow of refrigerant is smooth. Unlike in a traditional compressor, the scroll compressor does not suffer failure due to damaged valve plates.

**Low Vibration, Low Noise Level**
Suction, compression and discharge are concurrent in each rotation. Variation in the torque of the compression is extremely small, thus vibration and noise level can be reduced to a minimum.

## COMPRESSION PRINCIPLE OF SCROLL COMPRESSORS




### COMPREHENSIVE PROTECTIVE DEVICES

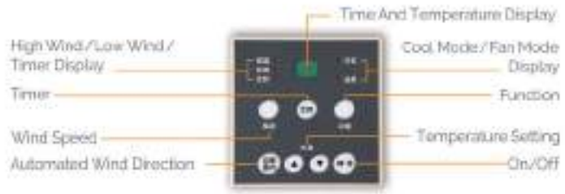
Protective Devices such as switches protecting against current overload, overheating, excess pressure and freezing are provided. In case of machine failure, a code for type of malfunction is displayed, facilitating repair so you can sit back and relax.

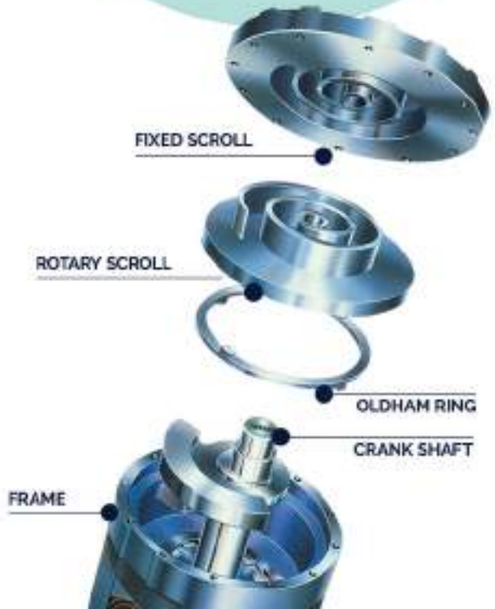
### SPECIFIC NEEDS AND SETTINGS

If there is a need for specific functions (e.g. remote control, auto-restart during power outages, etc.), settings can be adjusted during installation, avoiding waiting time for a custom model and providing a much more convenient and flexible solution.

### ELECTRONIC CONTROL AND DISPLAY FUNCTION

Functions such as "On/Off, Functions, Temperature Setting, Timer Setting" are selected through keys on an electronic thin film. Temperature Setting and Timer Setting can be completely displayed during operation, facilitating control of operation status in an ergonomic way.



# HITACHI PACKAGED AIR CONDITIONER

*Air Cooled*

| Product Type | | Model | | Horsepower ( HP ) | Page Number |
|---|---|---|---|---|---|
| | | Indoor Unit | Outdoor Unit | | |
| Air Cooled | Free-Blow Model | RPS-NP51AB | RAC-NP51AB | 5 | 5 |
| | | RPS-NP51A<br>RPS-NP51AE | RAC-NP51A<br>RAC-NP51AE | 5 | 6 |
| | | RPS-NP81A<br>RPS-NP81AE | RAC-NP81A<br>RAC-NP81AE | 8 | 7 |
| | | RPS-NP101A<br>RPS-NP101AE | RAC-NP101A<br>RAC-NP101AE | 10 | 8 |
| | | RP-NP151A<br>RP-NP151AE | RCR-NP151A<br>RCR-NP151AE | 15 | 9 |
| | Duct Model | RP-NP151AL<br>RP-NP151AEL | RCR-NP151A<br>RCR-NP151AE | 15 | 10 |
| | | RP-NP221A<br>RP-NP221AE | RCR-NP221A<br>RCR-NP221AE | 22 | 11 |
| | | RP-NP301A<br>RP-NP301AE | RCR-NP161Ax2<br>RCR-NP161AEx2 | 30 | 12 |

*Water Cooled*

R410A

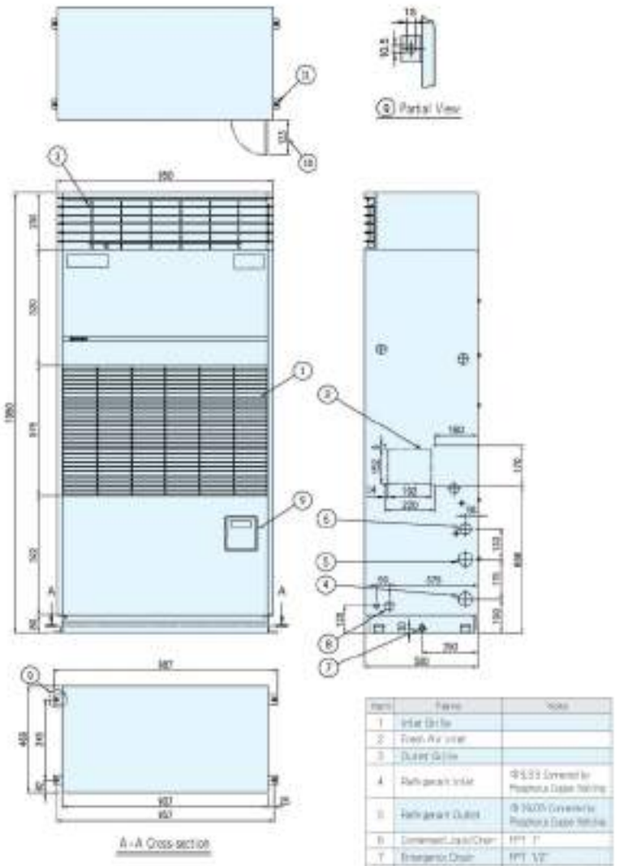
| Product Type | | Model | Horsepower ( HP ) | Page Number |
|---|---|---|---|---|
| Water Cooled | Free-Blow Model | RP-NP51WB | 5 | 13 |
| | | RP-NP31W | 3 | 13 |
| | | RP-NP41W | 4 | 14 |
| | | RP-NP51W<br>RP-NP51WE | 5 | 14 |
| | | RP-NP81W<br>RP-NP81WE | 8 | 15 |
| | | RP-NP101W<br>RP-NP101WE | 10 | 16 |
| | | RP-NP151W<br>RP-NP151WE | 15 | 17 |
| | Duct Model | RP-NP51WL<br>RP-NP51WEL | 5 | 15 |
| | | RP-NP81WL<br>RP-NP81WEL | 8 | 16 |
| | | RP-NP101WL<br>RP-NP101WEL | 10 | 17 |
| | | RP-NP151WL<br>RP-NP151WEL | 15 | 18 |
| | | RP-NP221W<br>RP-NP221WE | 22 | 18 |
| | | RP-NP301W<br>RP-NP301WE | 30 | 19 |
| | | RP-NP401W<br>RP-NP401WE | 40 | 19 |

## AIR COOLED

### RPS-NP51AB+RAC-NP51AB

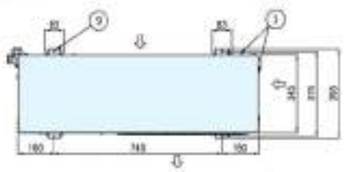
Cooling Capacity : 16.0kW
Compressor Motor Output: 3.75kW

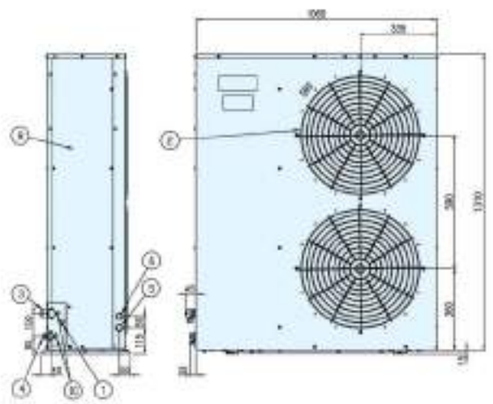
Indoor Unit RPS-NP51AB




| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Fresh Air Inlet | |
| 3 | Outlet Grille | |
| 4 | Refrigerant Inlet | Φ9.53 Connected by Phosphorus Copper Welding |
| 5 | Refrigerant Outlet | Φ 15.05 Connected by Phosphorus Copper Welding |
| 6 | Condensed Liquid Drain | PT 1" |
| 7 | Emergency Drain | PT 1/2" |
| 8 | Wiring Hole for Power Line | Φ40.5 (Knock out Hole) |
| 9 | Operation Cover | |
| 10 | Opening Width of Operation Cover | |
| 11 | Installation Fixture Hole | 4-Φ10.0x15 |

Outdoor Unit RAC-NP51AB





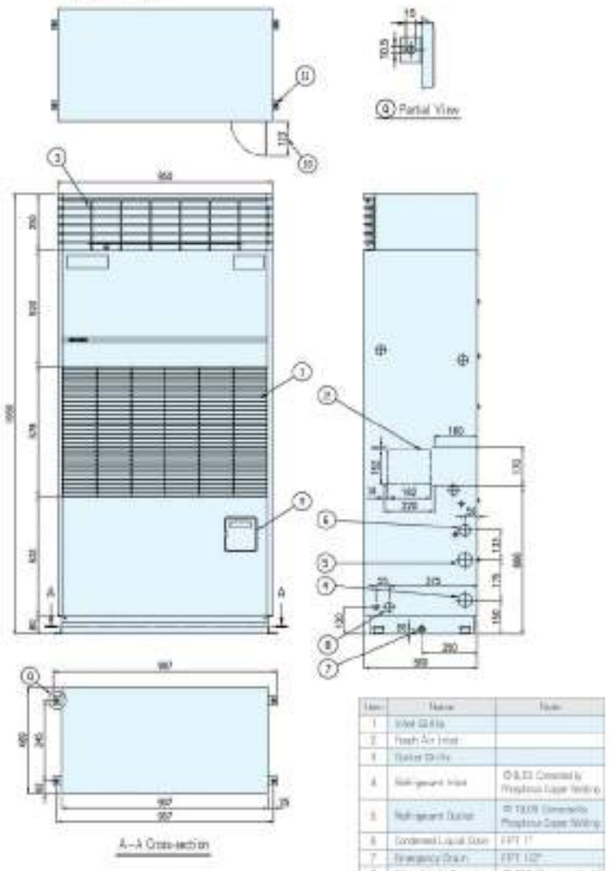
| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet | Φ 15.05 Connected by Flare Nut |
| 4 | Refrigerant Outlet | Φ 9.53 Connected by Flare Nut |
| 5 | Wiring Hole for Power Line | Φ 33 |
| 6 | Service Cover Fixing Hole | Φ 30 |
| 7 | Ground Wire Screw | M5 |
| 8 | Service Cover | |
| 9 | Installation Screw Hole | 4-Φ 10 |
| 10 | Connecting Joints | |

## AIR COOLED

### RPS-NP51A+RAC-NP51A
### RPS-NP51AE+RAC-NP51AE

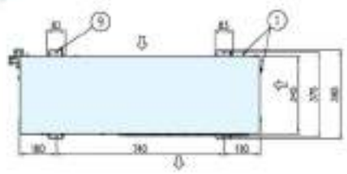
Cooling Capacity:16.0kW
Compressor Motor Output:3.75kW

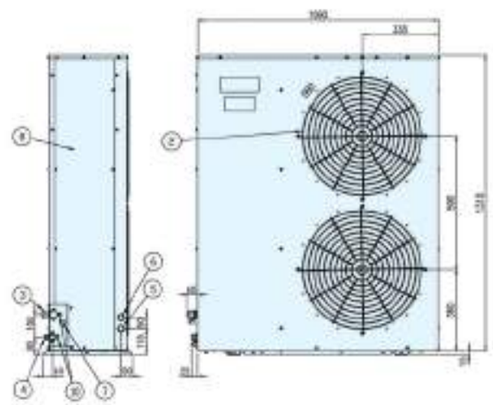
Indoor Unit RPS-NP51A
RPS-NP51AE




| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Fresh Air Inlet | |
| 3 | Outlet Grille | |
| 4 | Refrigerant Inlet | Φ 9.53 Connected by Phosphorus Copper Welding |
| 5 | Refrigerant Outlet | Φ 15.05 Connected by Phosphorus Copper Welding |
| 6 | Condensed Liquid Drain | PT 1" |
| 7 | Emergency Drain | PT 1/2" |
| 8 | Wiring Hole for Power Line | Φ 40.5 (Knock out Hole) |
| 9 | Operation Cover | |
| 10 | Opening Width of Operation Cover | |
| 11 | Installation Fixture Hole | 4-Φ 10.0x 15 |

Outdoor Unit RAC-NP51A
RAC-NP51AE





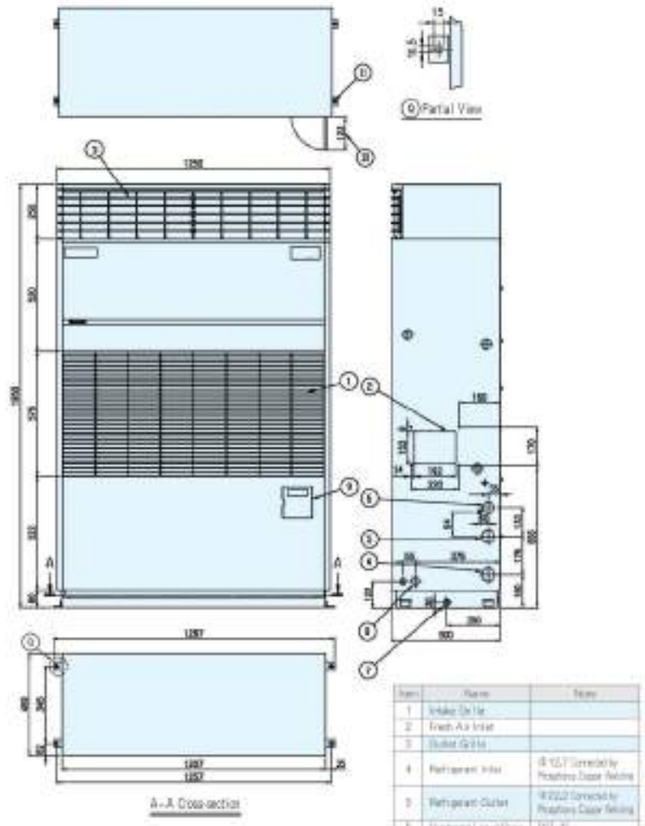
| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet | Φ 15.05 Connected by Flare Nut |
| 4 | Refrigerant Outlet | Φ 9.53 Connected by Flare Nut |
| 5 | Wiring Hole for Power Line | Φ 33 |
| 6 | Service Cover Fixing Hole | Φ 30 |
| 7 | Ground Wire Screw | M5 |
| 8 | Service Cover | |
| 9 | Installation Screw Hole | 4-Φ 10 |
| 10 | Connecting Joints | |

## AIR COOLED

### RPS-NP81A+RAC-NP81A
### RPS-NP81AE+RAC-NP81AE

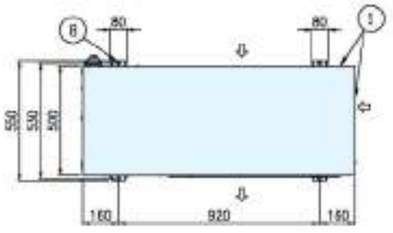
Cooling Capacity:25.0kW
Compressor Motor Output:6.4kW

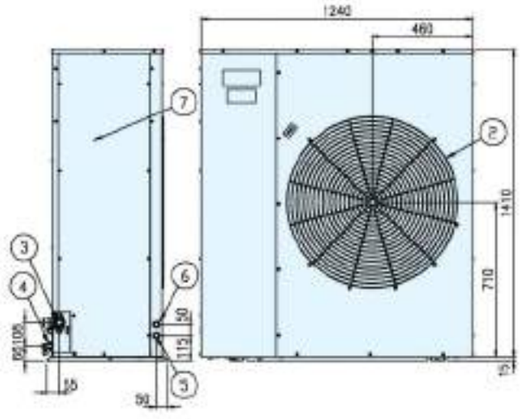
Indoor Unit RPS-NP81A
RPS-NP81AE




| Item | Name | Note |
|---|---|---|
| 1 | Intake Grille | |
| 2 | Fresh Air Inlet | |
| 3 | Outlet Grille | |
| 4 | Refrigerant Inlet | Φ12.7 Connected by Phosphorus Copper Welding |
| 5 | Refrigerant Outlet | Φ22.2 Connected by Phosphorus Copper Welding |
| 6 | Condensate Liquid Drain | PT 1" |
| 7 | Emergency Drain | PT 1/2" |
| 8 | Wiring Hole for Power Line | Φ40.5 (Knock-out Hole) |
| 9 | Operation Cover | |
| 10 | Opening Width of Operation Cover | |
| 11 | Installation Fixture Hole | 4-Φ10.5x15 |

Outdoor Unit RAC-NP81A
RAC-NP81AE





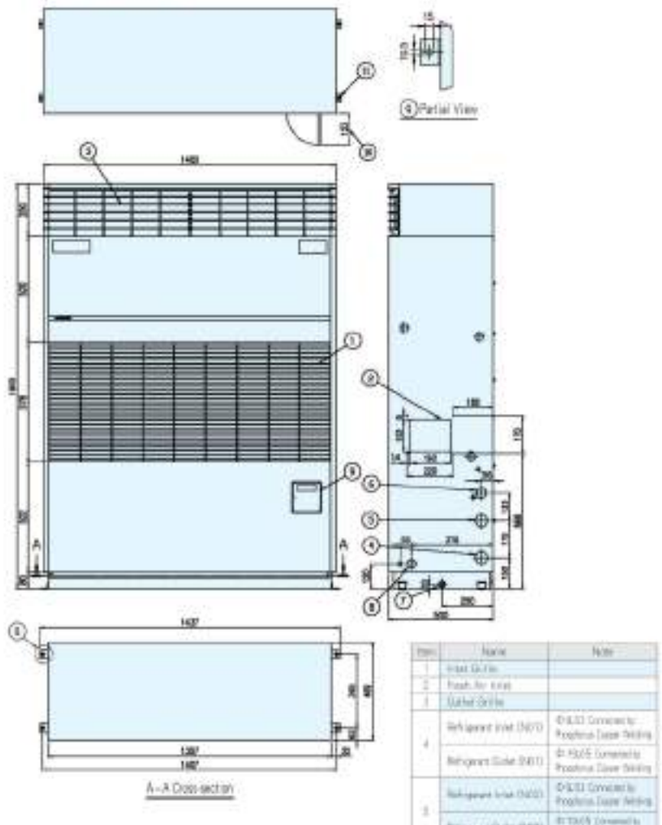
| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet | Φ22.2 Connected by Flarer Nut |
| 4 | Refrigerant Outlet | Φ12.7 Connected by Flare Nut |
| 5 | Wiring Hole for Power Line | Φ32 |
| 6 | Operation Circuit Wiring Hole | Φ20 |
| 7 | Service Cover | |
| 8 | Installation Screw Hole | 4-Φ10 |

## AIR COOLED

### RPS-NP101A+RAC-NP101A
### RPS-NP101AE+RAC-NP101AE

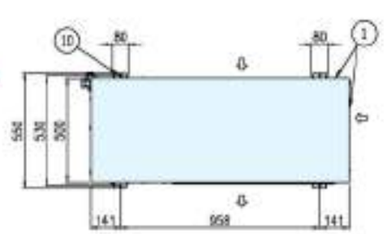
Cooling Capacity:32.0kW
Compressor Motor Output:3.75kWx2

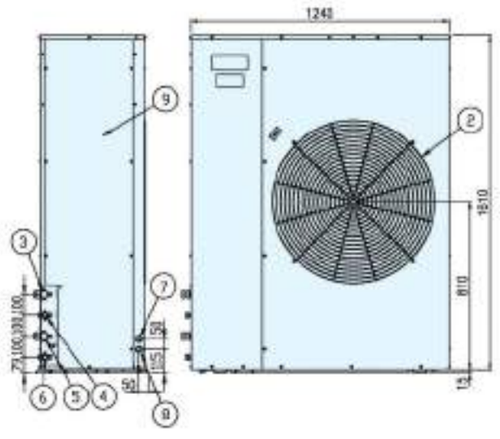
Indoor Unit RPS-NP101A
RPS-NP101AE




| Item | Name | Note |
|---|---|---|
| 1 | Intake Grille | |
| 2 | Fresh Air Inlet | |
| 3 | Outlet Grille | |
| 4 | Refrigerant Inlet (NG1) | Φ15.88 Connected by Phosphorus Copper Welding |
| | Refrigerant Outlet (NG1) | Φ9.52 Connected by Phosphorus Copper Welding |
| 5 | Refrigerant Inlet (NG2) | Φ15.88 Connected by Phosphorus Copper Welding |
| | Refrigerant Outlet (NG2) | Φ12.7 Connected by Phosphorus Copper Welding |
| 6 | Condensate Liquid Drain | PT 1" |
| 7 | Emergency Drain | PT 1/2" |
| 8 | Wiring Hole for Power Line | Φ40.5 (Knock-out Hole) |
| 9 | Operation Cover | |
| 10 | Opening Width of Operation Cover | |
| 11 | Installation Fixture Hole | 4-Φ10.5x15 |

Outdoor Unit RAC-NP101A
RAC-NP101AE





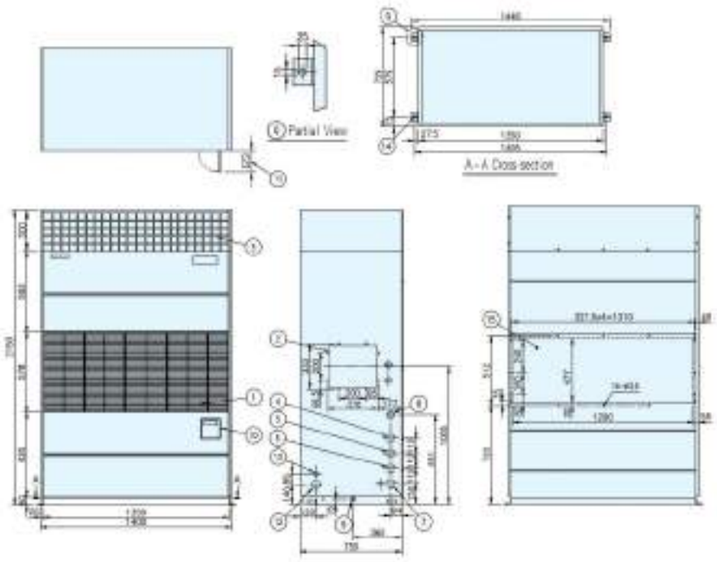
| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet (NG1) | Φ15.88 Connected by Flare Nut |
| 4 | Refrigerant Outlet (NG1) | Φ9.52 Connected by Flare Nut |
| 5 | Refrigerant Inlet (NG2) | Φ15.88 Connected by Flare Nut |
| 6 | Refrigerant Outlet (NG2) | Φ9.52 Connected by Flare Nut |
| 7 | Wiring Hole for Power Line | Φ40 |
| 8 | Operation Circuit Wiring Hole | Φ20 |
| 9 | Service Cover | |
| 10 | Installation Screw Hole | 4-Φ10 |

## AIR COOLED

### RP-NP151A+RCR-NP151A
### RP-NP151AE+RCR-NP151AE

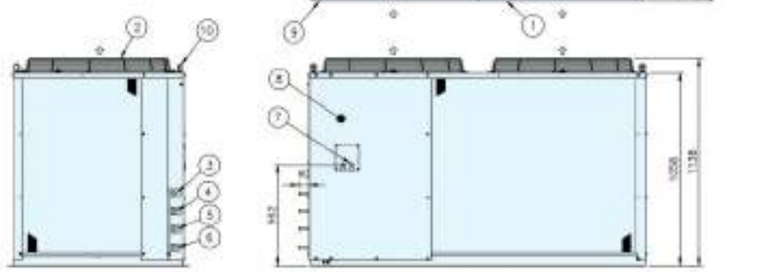
Cooling Capacity:48.0kW
Compressor Motor Output:6.4kW*4.9kW

Indoor Unit
RPS-NP151A
RPS-NP151AE



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Fresh Air Inlet | |
| 3 | Outlet Grille | |
| 4 | Refrigerant Inlet (NG1) | Φ12.7 Connected by Flare Nut |
| 5 | Refrigerant Outlet (NG1) | Φ15.88 Connected by Flare Nut |
| 6 | Refrigerant Inlet (NG2) | Φ12.7 Connected by Flare Nut |
| 7 | Refrigerant Outlet (NG2) | Φ15.88 Connected by Flare Nut |
| 8 | Condensed Liquid Drain | PPT 1" |
| 9 | Emergency Drain | PPT 1/2" |
| 10 | Operation Cover | |
| 11 | Opening Width of Operation Cover | |
| 12 | Wiring Hole for Power Line | Φ42 (Knock-out Hole) |
| 13 | Wiring Hole for Outdoor Unit | Φ33 (Knock-out Hole) |
| 14 | Installation Fixture Hole | 4-Φ15x25 |
| 15 | Backside Intake | |

Outdoor Unit
RAC-NP151A
RAC-NP151AE



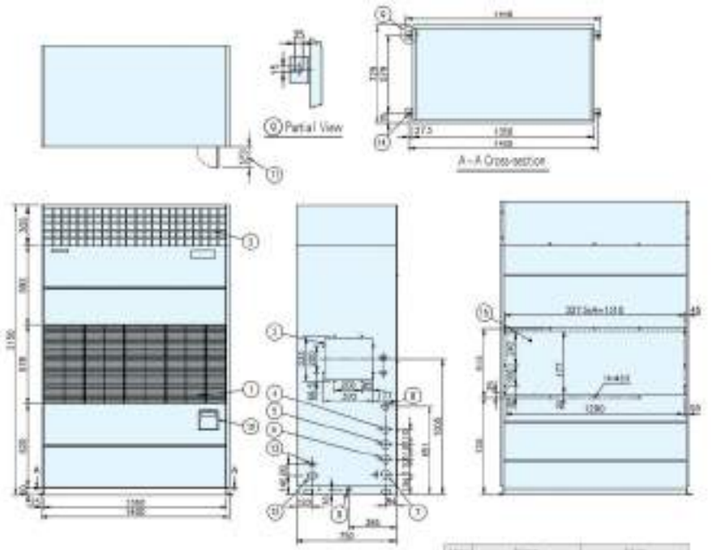
| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet (NG1) | Φ12.7 Connected to Phosphorus Copper Welding |
| 4 | Refrigerant Outlet (NG1) | Φ15.88 Connected to Phosphorus Copper Welding |
| 5 | Refrigerant Inlet (NG2) | Φ12.7 Connected to Phosphorus Copper Welding |
| 6 | Refrigerant Outlet (NG2) | Φ15.88 Connected to Phosphorus Copper Welding |
| 7 | Wiring Hole for Fan | Φ10 |
| 8 | Service Cover | |
| 9 | Installation Screw Hole | 6-Φ10.5 |
| 10 | Hook Bolt | |

## AIR COOLED

### RP-NP151AL+RCR-NP151A
### RP-NP151AEL+RCR-NP151AE

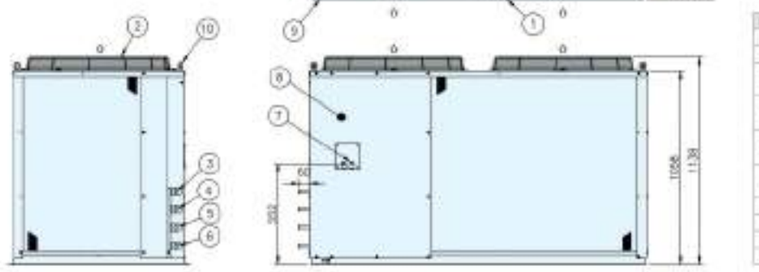
Cooling Capacity:48.0kW
Compressor Motor Output:6.4kW*4.9kW

Indoor Unit
RPS-NP151AL
RPS-NP151AEL



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Fresh Air Inlet | |
| 3 | Outlet Grille | |
| 4 | Refrigerant Inlet (NG1) | Φ12.7 Connected by Flare Nut |
| 5 | Refrigerant Outlet (NG1) | Φ15.88 Connected by Flare Nut |
| 6 | Refrigerant Inlet (NG2) | Φ12.7 Connected by Flare Nut |
| 7 | Refrigerant Outlet (NG2) | Φ15.88 Connected by Flare Nut |
| 8 | Condensed Liquid Drain | PPT 1" |
| 9 | Emergency Drain | PPT 1/2" |
| 10 | Operation Cover | |
| 11 | Opening Width of Operation Cover | |
| 12 | Wiring Hole for Power Line | Φ42 (Knock-out Hole) |
| 13 | Wiring Hole for Outdoor Unit | Φ33 (Knock-out Hole) |
| 14 | Installation Fixture Hole | 4-Φ15x25 |
| 15 | Backside Intake | |

Outdoor Unit
RAC-NP151A
RAC-NP151AE



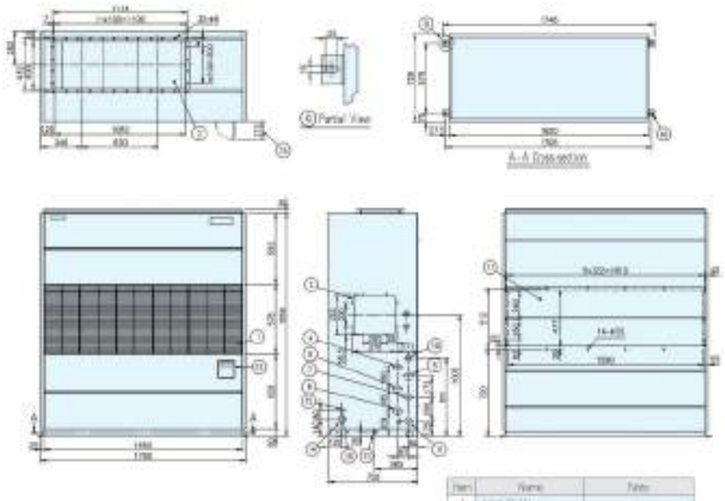
| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet (NG1) | Φ12.7 Connected to Phosphorus Copper Welding |
| 4 | Refrigerant Outlet (NG1) | Φ15.88 Connected to Phosphorus Copper Welding |
| 5 | Refrigerant Inlet (NG2) | Φ12.7 Connected to Phosphorus Copper Welding |
| 6 | Refrigerant Outlet (NG2) | Φ15.88 Connected to Phosphorus Copper Welding |
| 7 | Wiring Hole for Fan | Φ10 |
| 8 | Service Cover | |
| 9 | Installation Screw Hole | 6-Φ10.5 |
| 10 | Hook Bolt | |

## AIR COOLED

### RP-NP221A+RCR-NP221A
### RP-NP221AE+RCR-NP221AE

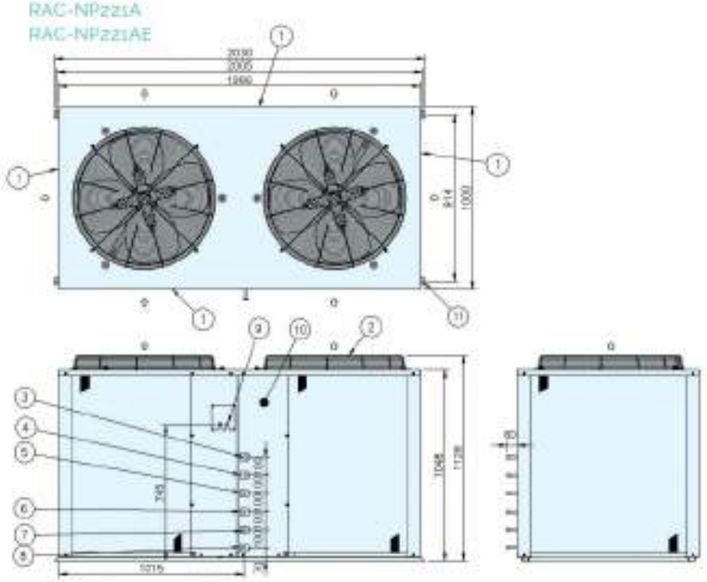
Cooling Capacity:72kW
Compressor Motor Output:6.4kWx2+3.75kW

Indoor Unit
RPS-NP221A
RPS-NP221AE



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Outlet | |
| 3 | Fresh Air Inlet | |
| 4 | Refrigerant Outlet (GO1) | Φ15.88 Connected by Flare Nut |
| 5 | Refrigerant Inlet (GI01) | Φ12.7 Connected by Flare Nut |
| 6 | Refrigerant Outlet (GO2) | Φ12.7 Connected by Flare Nut |
| 7 | Refrigerant Inlet (GI02) | Φ9.53 Connected by Flare Nut |
| 8 | Refrigerant Outlet (GO3) | Φ15.88 Connected by Flare Nut |
| 9 | Refrigerant Inlet (GI03) | Φ12.7 Connected by Flare Nut |
| 10 | Condensed Liquid Drain | PT 1" |
| 11 | Emergency Drain | PT 1/2" |
| 12 | Operation Cover | |
| 13 | Opening Width of Operation Cover | |
| 14 | Wiring Hole for Power Line | Φ62 (Knock out Hole) |
| 15 | Wiring Hole for Outdoor Unit | Φ33.5 (Knock out Hole) |
| 16 | Installation Fixture Hole | 4-Φ15x25 |
| 17 | Electricity Intake | |

Outdoor Unit
RAC-NP221A
RAC-NP221AE



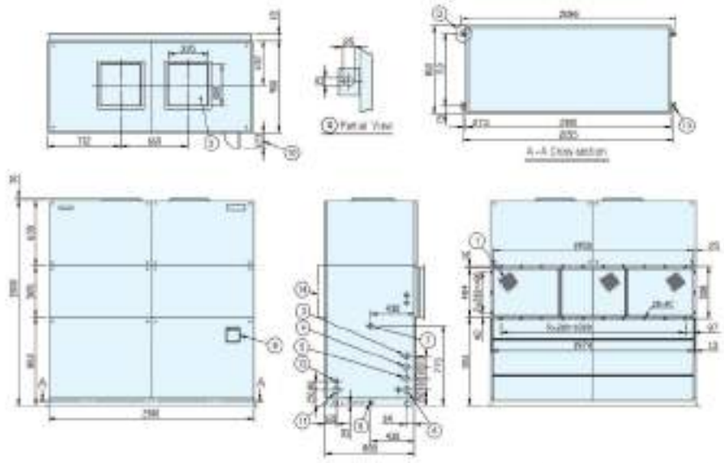
| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet (GI01) | Φ15.88 Connected by Phosphorus Copper Welding |
| 4 | Refrigerant Outlet (GO1) | Φ12.7 Connected by Phosphorus Copper Welding |
| 5 | Refrigerant Inlet (GI02) | Φ12.7 Connected by Phosphorus Copper Welding |
| 6 | Refrigerant Outlet (GO2) | Φ9.53 Connected by Phosphorus Copper Welding |
| 7 | Refrigerant Inlet (GI03) | Φ15.88 Connected by Phosphorus Copper Welding |
| 8 | Refrigerant Outlet (GO3) | Φ12.7 Connected by Phosphorus Copper Welding |
| 9 | Wiring Hole for Fan | Φ12 ~ Φ18 |
| 10 | Service Cover | |
| 11 | Installation Screw Hole | 6-Φ12.5 |

## AIR COOLED

### RP-NP301A+RCR-NP161Ax2
### RP-NP301AE+RCR-NP161AEx2

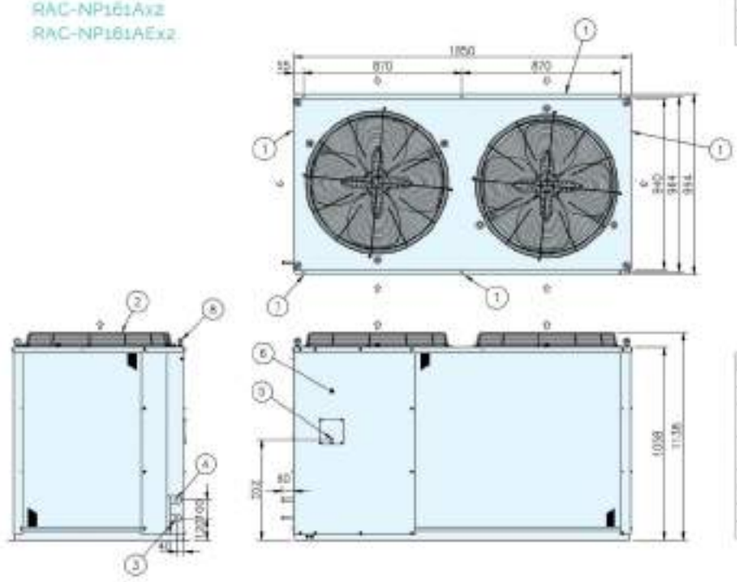
Cooling Capacity:98kW
Compressor Motor Output:11.2kWx2

Indoor Unit
RPS-NP301A
RPS-NP301AE



| Item | Name | Note |
|---|---|---|
| 1 | Return Air Inlet | |
| 2 | Outlet | |
| 3 | Refrigerant Inlet (GI01) | Φ15.88 Connected by Flare Nut |
| 4 | Refrigerant Outlet (GO1) | Φ15.88 Connected by Flare Nut |
| 5 | Refrigerant Inlet (GI02) | Φ15.88 Connected by Flare Nut |
| 6 | Refrigerant Outlet (GO2) | Φ15.88 Connected by Flare Nut |
| 7 | Condensed Liquid Drain | PT 1" |
| 8 | Emergency Drain | PT 1/2" |
| 9 | Operation Cover | |
| 10 | Opening Width of Operation Cover | |
| 11 | Wiring Hole for Power Line | Φ62 (Knock out Hole) |
| 12 | Wiring Hole for Outdoor Unit | Φ33.5 (Knock out Hole) |
| 13 | Installation Fixture Hole | 4-Φ15x25 |
| 14 | Electricity Intake | |

Outdoor Unit
RAC-NP161Ax2
RAC-NP161AEx2

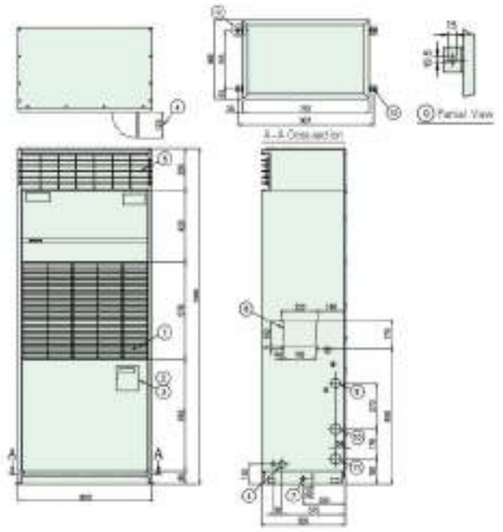


| Item | Name | Note |
|---|---|---|
| 1 | Air Inlet | |
| 2 | Air Outlet | |
| 3 | Refrigerant Inlet | Φ15.88 Connected by Phosphorus Copper Welding |
| 4 | Refrigerant Outlet | Φ15.88 Connected by Phosphorus Copper Welding |
| 5 | Wiring Hole for Fan | Φ12 |
| 6 | Service Cover | |
| 7 | Installation Screw Hole | 6-Φ12.5 |
| 8 | Handhold | |

## WATER COOLED

### RP-NP51WB

Cooling Capacity:16.0kW
Compressor Motor Output:3.75kW

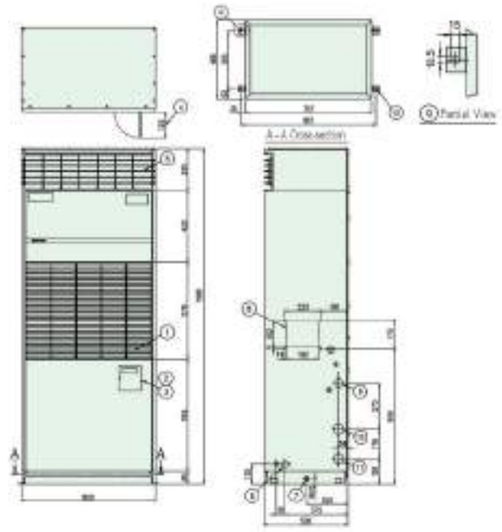


| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ43.5 (Knock out Hole) |
| 7 | Emergency Drain | PPT 1" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/4" |
| 11 | Cooling Water Inlet | PPT 1/4" |
| 12 | Installation Fixture Hole | 4-Φ11Dx15 |

### RP-NP41W

Cooling Capacity:14.0kW
Compressor Motor Output:3.0kW

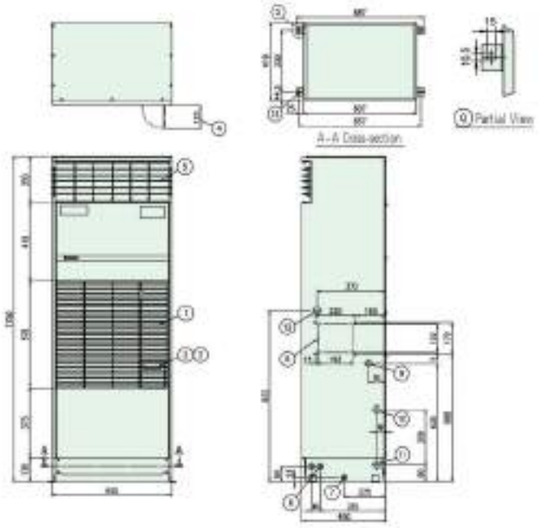


| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ43.5 (Knock out Hole) |
| 7 | Emergency Drain | PPT 1" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/4" |
| 11 | Cooling Water Inlet | PPT 1/4" |
| 12 | Installation Fixture Hole | 4-Φ11Dx15 |

### RP-NP31W

Cooling Capacity:10.0kW
Compressor Motor Output:2.2kW

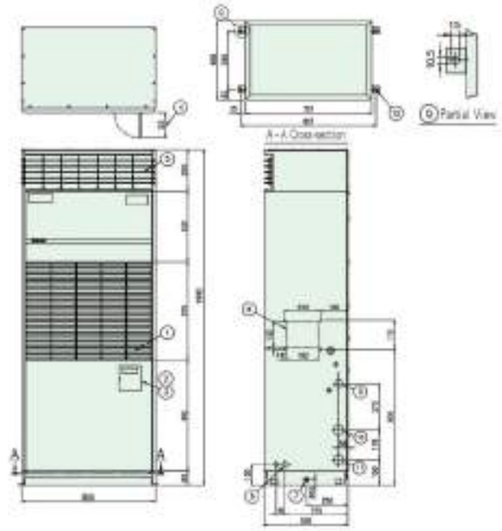


| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ38.5 |
| 7 | Emergency Drain | PPT 1(2)" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1" |
| 11 | Cooling Water Inlet | PPT 1" |
| 12 | Auxiliary Connection Hole | Φ40 (Knock out Hole) |
| 13 | Installation Fixture Hole | 4-Φ11Dx15 |

### RP-NP51W
### RP-NP51WE

Cooling Capacity:16.0kW
Compressor Motor Output:3.75kW



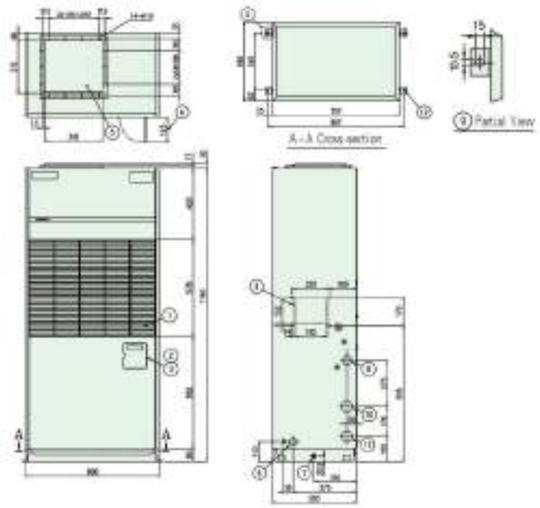
| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ43.5 (Knock out Hole) |
| 7 | Emergency Drain | PPT 1" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/4" |
| 11 | Cooling Water Inlet | PPT 1/4" |
| 12 | Installation Fixture Hole | 4-Φ11Dx15 |

## WATER COOLED

### RP-NP51WL
### RP-NP51WEL

Cooling Capacity:16.0kW
Compressor Motor Output:3.75kW

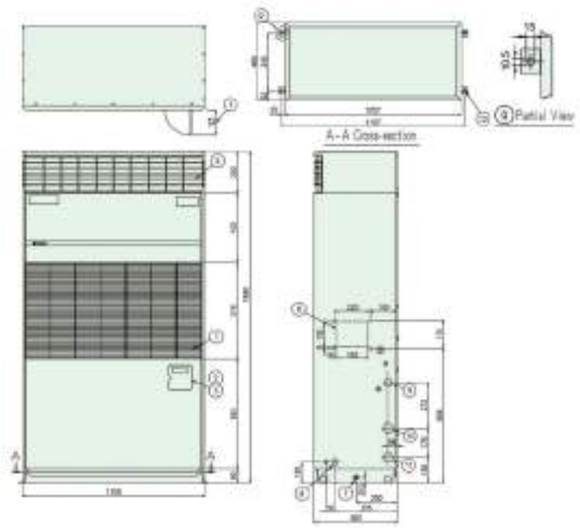



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ40(2) (Knock-out Hole) |
| 7 | Emergency Drain | PT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PT 1" |
| 10 | Cooling Water Outlet | PT 1/2" |
| 11 | Cooling Water Inlet | PT 1/2" |
| 12 | Installation Fixture Hole | 4-Φ10.5x15 |

### RP-NP81W
### RP-NP81WE

Cooling Capacity:25.0kW
Compressor Motor Output:6.4kW



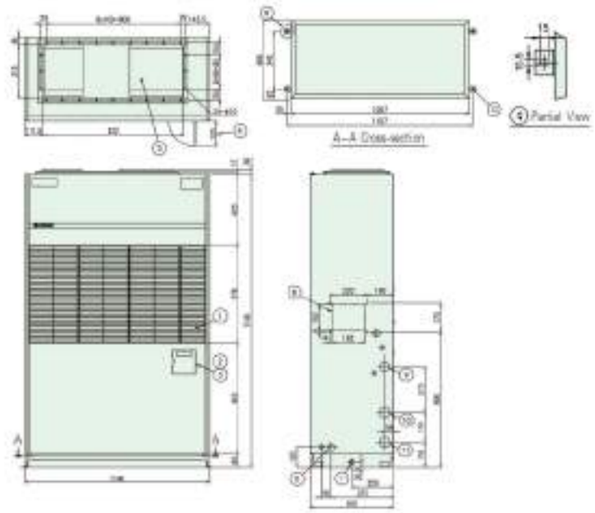

| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ40(2) (Knock-out Hole) |
| 7 | Emergency Drain | PT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PT 1" |
| 10 | Cooling Water Outlet | PT 1/2" |
| 11 | Cooling Water Inlet | PT 1/2" |
| 12 | Installation Fixture Hole | 4-Φ10.5x15 |

## WATER COOLED

### RP-NP81WL
### RP-NP81WEL

Cooling Capacity:25.0kW
Compressor Motor Output:6.4kW

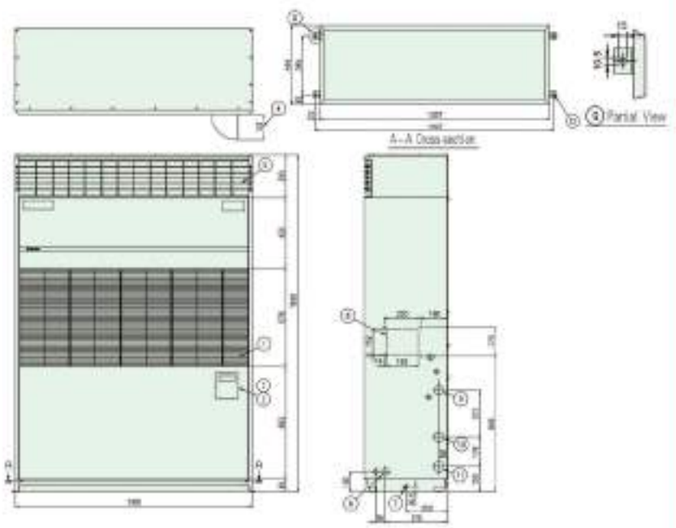



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ40(2) (Knock-out Hole) |
| 7 | Emergency Drain | PT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PT 1" |
| 10 | Cooling Water Outlet | PT 1/2" |
| 11 | Cooling Water Inlet | PT 1/2" |
| 12 | Installation Fixture Hole | 4-Φ10.5x15 |

### RP-NP101W
### RP-NP101WE

Cooling Capacity:32.0kW
Compressor Motor Output:3.75kWx2



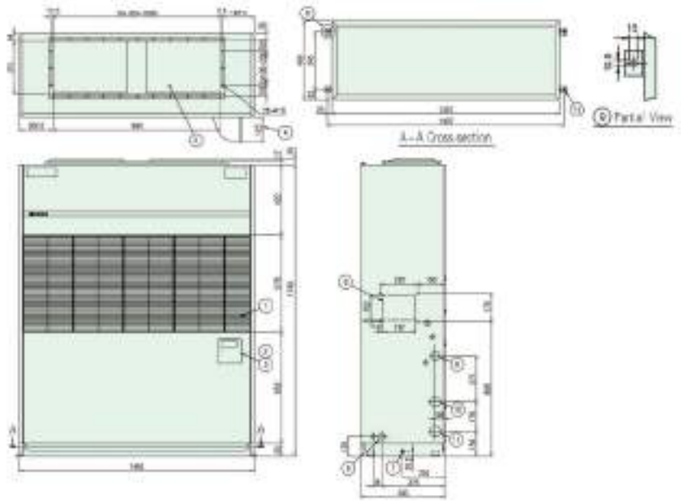

| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ40(2) (Knock-out Hole) |
| 7 | Emergency Drain | PT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PT 1" |
| 10 | Cooling Water Outlet | PT 1/2" |
| 11 | Cooling Water Inlet | PT 1/2" |
| 12 | Installation Fixture Hole | 4-Φ10.5x15 |

## WATER COOLED

### RP-NP101WL
### RP-NP101WEL

Cooling Capacity:32.0kW
Compressor Motor Output:3.75kWx2

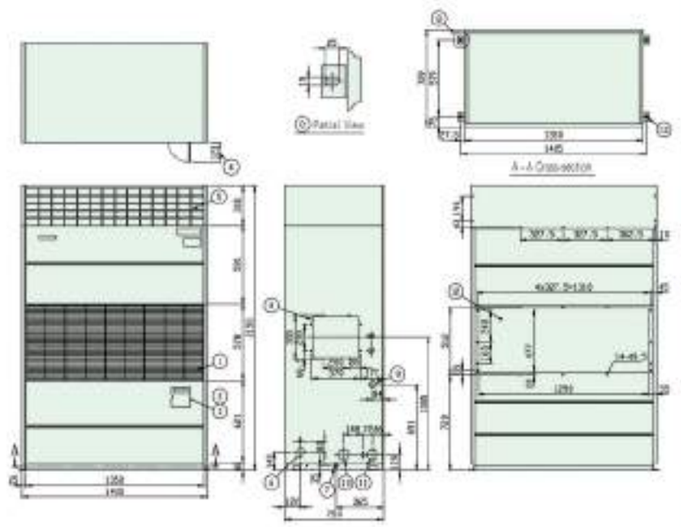



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Over/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/2" |
| 11 | Cooling Water Inlet | PPT 1/2" |
| 12 | Installation Fixture Hole | 4-Φ15x25 |

### RP-NP151W
### RP-NP151WE

Cooling Capacity:52.5kW
Compressor Motor Output:6.4kWx2



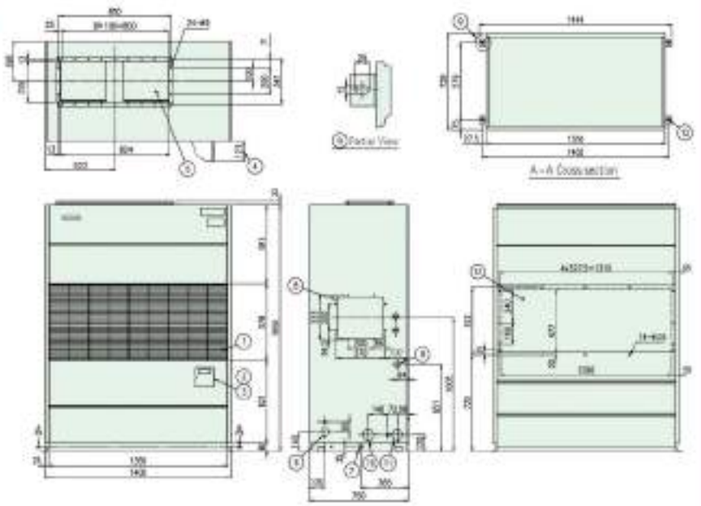

| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Over/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/2" |
| 11 | Cooling Water Inlet | PPT 1/2" |
| 12 | Installation Fixture Hole | 4-Φ15x25 |

## WATER COOLED

### RP-NP151WL
### RP-NP151WEL

Cooling Capacity:52.5kW
Compressor Motor Output:6.4kWx2

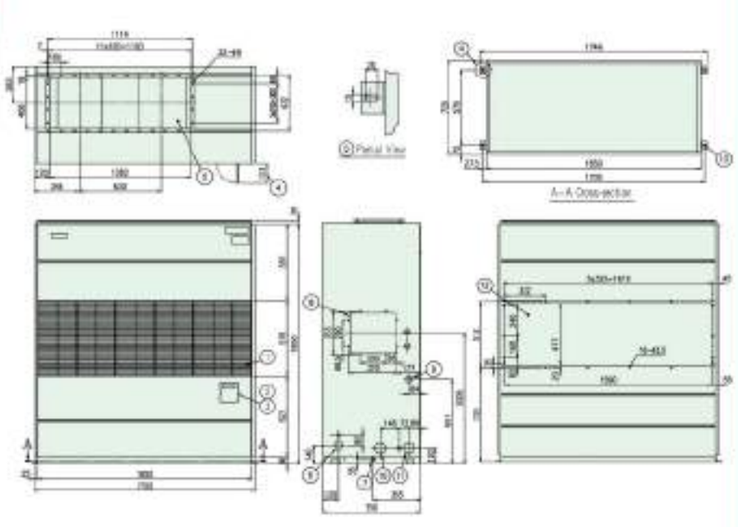



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Over/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/2" |
| 11 | Cooling Water Inlet | PPT 1/2" |
| 12 | Electrical Intake | |
| 13 | Installation Fixture Hole | 4-Φ15x25 |

### RP-NP221W
### RP-NP221WE

Cooling Capacity:72.0kW
Compressor Motor Output:
3.75kWx1+6.4kWx2



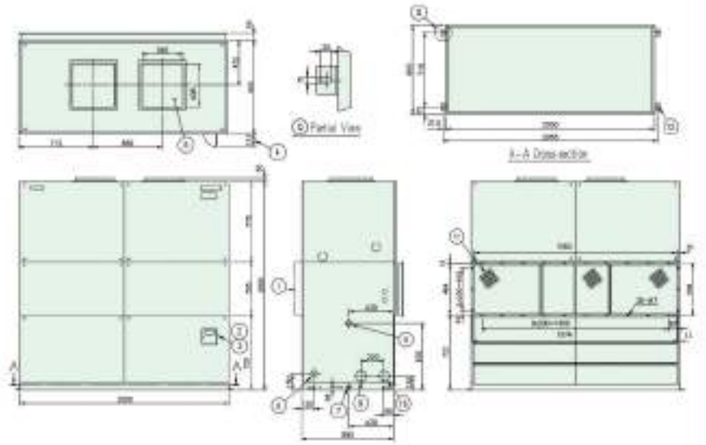

| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Over/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/2" |
| 11 | Cooling Water Inlet | PPT 1/2" |
| 12 | Electrical Intake | |
| 13 | Installation Fixture Hole | 4-Φ15x25 |

## WATER COOLED

### RP-NP301W
### RP-NP301WE

Cooling Capacity:11.0kW
Compressor Motor Output:11.0kW×2

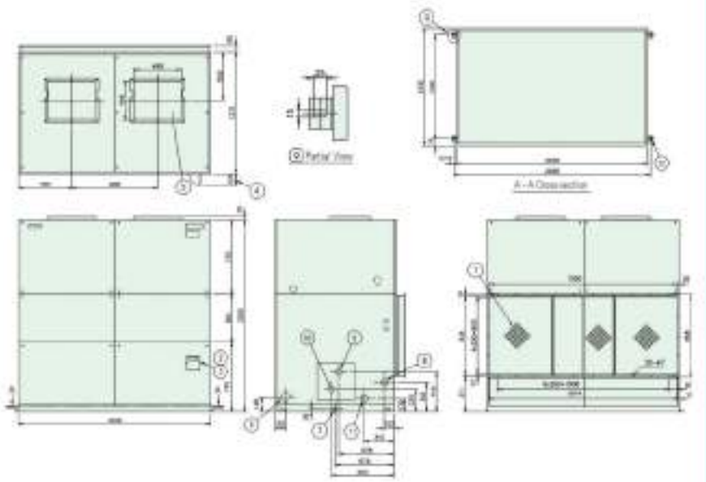


| Item | Name | Note |
|---|---|---|
| 1 | Front Side Intake | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Without Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ 62 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Condensed Liquid Drain | PPT 1" |
| 9 | Cooling Water Outlet | PPT 2 1/2" |
| 10 | Cooling Water Inlet | PPT 2 1/2" |
| 11 | Rear Side Intake | |
| 12 | Installation Fixture Hole | 4-Φ 15x25 |

### RP-NP401W
### RP-NP401WE

Cooling Capacity:14.0kW
Compressor Motor Output:
7.5kW×1+11.0kW×2



| Item | Name | Note |
|---|---|---|
| 1 | Intake | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Without Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ 80 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Condensed Liquid Drain | PPT 1" |
| 9 | Cooling Water Outlet | PPT 2 1/2" |
| 10 | Cooling Water Inlet | PPT 2 1/2" |
| 11 | Coolant Outlet | Φ 42 (Knock-out Hole) |
| 12 | Installation Fixture Hole | 4-Φ 15x25 |

## AIR COOLED SPECIFICATION TABLE (220V)

| Item | | Models | RPS-NP51AB | RAC-NP51AB | RPS-NP51A | RAC-NP51A | RPS-NP81A | RAC-NP81A | RPS-NP101A | RAC-NP101A | RP-NP151A | RCR-NP151A | RP-NP151AL | RCR-NP151A | RP-NP221A | RCR-NP221A | RP-NP301A | RCR-NP151A2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ※Cooling Capacity | | kW | 16.0 | | 16.0 | | 25.0 | | 32.0 | | 48.9 | | 48.9 | | 72.0 | | 98.0 | |
| Power Source | | – | AC 1Φ 220V 60Hz | | AC 3Φ 220V 60Hz | | | | | | | | | | | | | |
| Dimensions | Width | mm | 950 | 1060 | 950 | 1060 | 1250 | 1240 | 1400 | 1240 | 1400 | 1850 | 1400 | 1850 | 1700 | 1966 | 2000 | 1850 |
| | Depth | mm | 500 | 345 | 500 | 345 | 500 | 500 | 500 | 500 | 750 | 940 | 750 | 940 | 750 | 1020 | 900+65 | 940 |
| | Height | mm | 1950 | 1325 | 1950 | 1325 | 1950 | 1425 | 1950 | 1625 | 2150 | 1138 | 1880 | 1138 | 1880 | 1128 | 2000+30 | 1138 |
| | Separate Height | mm | 1730+250 | – | 1730+250 | – | 1738+250 | – | 1730+250 | – | 1880+300 | – | – | – | – | – | 1365+865 | – |
| ※Electrical Characteristics | Power Consumption | kW | 4.65 | | 4.74 | | 7.22 | | 9.7 | | 15.3 | | 15.6 | | 22.66 | | 32.67 | |
| | Operation Current | A | 22.5 | | 14.4 | | 23.4 | | 30.8 | | 48.3 | | 48.4 | | 70.5 | | 100 | |
| | Starting Current | A | 126 | | 129 | | 188 | | 129 | | 188 | | 188 | | 188 | | 305 | |
| Energy Efficiency Ratio (EER) | | W/W | 3.30 | | 3.28 | | 3.42 | | 3.30 | | 3.23 | | 3.15 | | 3.15 | | 3.00 | |
| Cooling Device | Compressor | Mode | – | High Efficiency Fully Enclosed Scroll Compressor | | | | | | | | | | | | | | |
| | | Power (Pole) | kW | – | 3.7(2) | – | 3.7(2) | – | 6.4(2) | – | 3.7(2) | 6.4(2)+4.9(2) | – | 6.4(2)+4.9(2) | – | 6.4(2)+3.7(2) | – | 11.2(2) | – |
| | | Quantity | – | – | 1 | – | 1 | – | 1 | – | 2 | 2 | – | 2 | – | 2+1 | – | 2 | – |
| | Condenser | | – | Multi-path Vortex Fin Tubing | | | | | | | | | | | | | | |
| | Evaporator | | – | Multi-path Vortex Fin Tubing | | | | | | | | | | | | | | |
| Coolant Control Device | | | – | Multi-path Capillary Tubing | | | | | | | | | | | | | | |
| Fan Device | Model | | – | Multi-blade Fan×1 | Propeller Fan×2 | Multi-blade Fan×1 | Propeller Fan×2 | Multi-blade Fan×2 | Propeller Fan×1 | Multi-blade Fan×2 | Propeller Fan×1 | Multi-blade Fan×1 | Propeller Fan×2 | Multi-blade Fan×1 | Propeller Fan×2 | Multi-blade Fan×2 | Propeller Fan×2 | Multi-blade Fan×2 | Propeller Fan×2 |
| | Motor Power (Pole) | | kW | 0.25(6) | 0.12(6)×2 | 0.25(6) | 0.12(6)×2 | 0.37(4) | 0.49(6) | 0.75(4) | 0.45(8) | 2.2(4) | 0.48(8)×2 | 2.2(4) | 0.49(8)×2 | 3.7(4) | 0.41(6)×2 | 3.5(4) | 0.36(6)×2 |
| | Motor Power Source | | – | AC 1Φ 220V 60Hz | | | | AC 3Φ 220V 60Hz | | | | | | | | | | | |
| | Air Volume (High/Low) | | CFM | 44/36 | 50×2 | 44/36 | 50×2 | 65 | 100 | 88 | 160 | 138 | 420 | 130 | 420 | 180 | 410 | 260 | 420 |
| | External Static Pressure | | mmAq | 0 | – | 0 | – | 0 | – | 0 | – | 0 | – | 50(5) | – | 50(5) | – | 80(8) | – |
| | Automatic Direction of Rotation | Direction of Rotation | – | Left-Right Wind Direction Auto Sweep | | | | – | | | | | | | | | | | |
| | | Motor Power | W | 3 | – | 3 | – | – | | | | | | | | | | | |
| Protective Devices | | | – | Over Current Relay(Fan Motor, except for RPS-NP51A, RPS-NP51AB), Internal Thermostat(Fan Motor, except for RPS-NP51A, RPS-NP51ABL Pressure Switch, Anti-freeze switch, outlet temperature switch (compressor), Over Current Relay (Compressor) | | | | | | | | | | | | | | |
| Dimension of Tubing | Refrigerant | Gas Line | mm | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ 19.05 | | | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ 22.2 | | Welding for Indoor Unit/Flare Nut to Outdoor Unit Φ 19.05 +Φ 19.05 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ 15.88 +Φ 15.88 | | Welding for Indoor Unit/Flare Nut to Outdoor Unit Φ 15.88 +Φ 12.7 +Φ 15.88 | | Welding for Indoor Unit/Flare Nut to Outdoor Unit Φ 19.05 +Φ 19.05 | |
| | | Liquid Line | mm | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ 9.53 | | | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ 12.7 | | Welding for Indoor Unit/Flare Nut to Outdoor Unit Φ 9.53 +Φ 9.53 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ 12.7 +Φ 12.7 | | Welding for Indoor Unit/Flare Nut to Outdoor Unit Φ 12.7 +Φ 12.7 +Φ 12.7 | | Welding for Indoor Unit/Flare Nut to Outdoor Unit Φ 15.88 +Φ 15.88 | |
| | Condensed Liquid Drain | | – | PPT 1 | | | | | | | | | | | | | | |
| | Emergency Drain | | – | PPT 1/2 | | | | | | | | | | | | | | |
| Wiring | Power Source Connection | | – | Outdoor unit | | | | | | | | Indoor unit | | | | | | |
| | Indoor and Outdoor Power Source Line | | mm² | 2 Cores (1.25) | | | | 3 Cores (1.25) | | | | 6 Cores (1.25) | | | | 3 Cores×2 (1.25) | | |
| | Indoor and Outdoor Control Line | | mm² | 6 Cores (0.75) | | | | | | 10 Cores (0.75) | | – | | | | | | |
| Product Weight | | | kg | 115 | 130 | 115 | 130 | 155 | 175 | 155 | 195 | 420 | 190 | 390 | 190 | 330 | 270 | 665 | 185 |

**Note :** (1).※The nominal cooling capacity is based on the standard of ENS. Evaporate Air inlet temperature 27℃ DB, 19℃ WB, Condenser Air inlet 35℃ DB, one way coolant tubing between indoor and outdoor units being 7.5m).

(2).※※Electrical Characteristics are values obtained by testing at ENS conditions (specified above). For actual electrical properties, please apply a 1.2 multiplier.

(3).Changes made to specification in the table may be made without notice.

(4).Operation Range(Evaporator Intake Air Temperature (standard air volume):

Maximum: 32℃ DB/23℃ WB

Minimum: 21℃ DB/13℃ WB

Condenser Intake Air Temperature: Maximum 43℃ DB/ Minimum 21℃ DB

## AIR COOLED SPECIFICATION TABLE (380V)

| Item | | | Model | RPS-NP51AE | RAC-NP51AE | RPS-NP81AE | RAC-NP81AE | RPS-NP101AE | RAC-NP101AE | RP-NP151AE | RCR-NP151AE | RP-NP151AEL | RCR-NP151AE | RP-NP221AE | RCR-NP221AE | RP-NP301AE | RCR-NP161A60 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ※Cooling Capacity | | | kW | 16.0 | | 25.0 | | 32.0 | | 48.9 | | 45.9 | | 72.0 | | 98.0 | |
| Power Source | | | — | AC 3Φ 380V 60Hz | | | | | | | | | | | | | |
| Dimensions | | Width | mm | 950 | 1060 | 1250 | 1240 | 1400 | 1240 | 1480 | 1850 | 1400 | 1850 | 1700 | 1980 | 2000 | 1850 |
| | | Depth | mm | 500 | 345 | 580 | 500 | 500 | 500 | 750 | 940 | 758 | 940 | 750 | 1000 | 930+65 | 940 |
| | | Height | mm | 1990 | 1325 | 1950 | 1425 | 1950 | 1625 | 2150 | 1138 | 1880 | 1138 | 1888 | 1128 | 2000+30 | 1158 |
| | | Separable Height | mm | 1730+250 | — | 1730+250 | — | 1730+250 | — | 1880+300 | — | — | — | — | — | 1365+665 | — |
| ※※Electrical Characteristics | | Power Consumption | kW | 4.74 | | 7.32 | | 9.7 | | 15.3 | | 15.6 | | 22.86 | | 32.67 | |
| | | Operation Current | A | 8.3 | | 12.5 | | 16.8 | | 26.5 | | 27.6 | | 40 | | 57.7 | |
| | | Starting Current | A | 62 | | 88 | | 62 | | 88 | | 88 | | 88 | | 194 | |
| Energy Efficiency Ratio (EER) | | | W/W | 3.38 | | 3.42 | | 3.30 | | 3.20 | | 3.15 | | 3.15 | | 3.00 | |
| Cooling Device | Compressor | Model | — | High Efficiency Fully Enclosed Scroll Compressor | | | | | | | | | | | | | |
| | | Power (Pole) | kW | — | 3.75(2) | — | 6.4(2) | — | 3.75(2) | 6.4(2)+4.9(2) | — | 6.4(2)+4.9(2) | — | 6.4(2)+3.75(2) | — | 11.3(2) | — |
| | | Quantity | — | — | 1 | — | 1 | — | 2 | 2 | — | 2 | — | 2+1 | — | 2 | — |
| | Condenser | | — | Multi-path Vortex Fin Tubing | | | | | | | | | | | | | |
| | Evaporator | | — | Multi-path Vortex Fin Tubing | | | | | | | | | | | | | |
| Coolant Control Device | | | — | Multi-path Capillary Tubing | | | | | | | | | | | | | |
| Fan Device | Model | | — | Multi-blade Fan x1 | Propeller Fan x2 | Multi-blade Fan x2 | Propeller Fan x1 | Multi-blade Fan x2 | Propeller Fan x1 | Multi-blade Fan x1 | Propeller Fan x2 | Multi-blade Fan x1 | Propeller Fan x2 | Multi-blade Fan x2 | Propeller Fan x2 | Multi-blade Fan x2 | Propeller Fan x2 |
| | Motor Power (Pole) | | kW | 0.25(6) | 0.125(6)x2 | 0.37(4) | 0.49(6) | 0.75(4) | 0.45(8) | 2.2(4) | 0.49(6)x2 | 2.2(4) | 0.49(6)x2 | 3.7(4) | 0.415(6)x2 | 5.5(4) | 0.37(6)x2 |
| | Motor Power Source | | — | AC 1Φ 220V 60Hz | | AC 3Φ 380V 60Hz | | | | | | | | | | | |
| | Air Volume (High/Low) | | ft³/min | 44/38 | 50x2 | 65 | 150 | 88 | 150 | 130 | 420 | 138 | 420 | 160 | 410 | 250 | 420 |
| | External Static Pressure | | mm (inch) | 0 | — | 8 | — | 0 | — | 0 | — | 50(5) | — | 50(5) | — | 80(8) | — |
| | Automatic Direction of Rotation | Direction of Rotation | — | Left-Right Wind Direction Automatic Sway | | — | | | | | | | | | | | |
| | | Motor Power | W | 3 | | — | | | | | | | | | | | |
| Protective Devices | | | — | Current Overload Relay (Fan, except for RPS-NP51AE), Hidden temperature switch (Fan, except for RPS-NP51AE), Pressure Switch, Anti-freeze switch, outlet temperature switch (compressor), Current Overload Relay (Compressor) | | | | | | | | | | | | | |
| Dimensions of Tubings | Refrigerant | Gas Line | mm | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ19.05 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ22.2 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ19.05 +Φ19.05 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ15.88 +Φ15.88 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ15.88 +Φ12.7 +Φ15.88 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ19.05 +Φ19.05 | | | |
| | | Liquid Line | mm | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ9.53 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ12.7 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ9.53 +Φ9.53 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ12.7 +Φ12.7 | | Welding for Indoor Unit/Flare Nut for Outdoor Unit Φ12.7 +Φ9.53 +Φ12.7 | | Welding for Indoor Unit/ Outdoor Unit Φ15.88 +Φ15.88 | | | |
| | Condensed Liquid Drain | | — | FPT 1 | | | | | | | | | | | | | |
| | Emergency Drain | | — | FPT 1/2 | | | | | | | | | | | | | |
| Wiring | Power Source Connection | | — | Outdoor unit | | | | | | Indoor unit | | | | | | | |
| | Indoor and Outdoor Power Source Line | | mm² | 2 Cores (1.25) | | 3 Cores (1.25) | | | | 6 Cores (1.25) | | | | | | 3 Cores x 2 (1.25) | |
| | Indoor and Outdoor Control Line | | mm² | 8 Cores (0.75) | | 8 Cores (0.75) | | 10 Cores (0.75) | | — | | | | | | | |
| Product Weight | | | kg | 115 | 130 | 155 | 175 | 155 | 185 | 420 | 190 | 398 | 190 | 530 | 270 | 665 | 185 |

**Note:** (1.)※The nominal cooling capacity is based on the standard of CNS. Evaporate Air inlet temperature 27℃ DB, 19℃ WB. Condenser Air inlet 35℃ DB, one-way coolant tubing between indoor and outdoor units being 7.5m).
(2.)※※Electrical Characteristics are values obtained by testing at CNS conditions (specified above). For actual electrical properties, please apply a 1.2 multiplier.
(3.)Changes made to specification in the table may be made without notice.
(4.)Operation Range/Evaporator Intake Air Temperature (standard air volume):
Maximum: 32℃ DB/23℃ WB
Minimum: 21℃ DB/15℃ WB
Condenser Intake Air Temperature: Maximum 43℃ DB/ Minimum 21℃ DB

## WATER COOLED SPECIFICATION TABLE (220V)

| Item | | | Model | RP-NP51WB | RP-NP31W | RP-NP41W | RP-NP51W | RP-NP51WL | RP-NP81W | RP-NP81WL | RP-NP101W | RP-NP101WL | RP-NP151W | RP-NP151WL | RP-NP221W | RP-NP301W | RP-NP401W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ※Cooling Capacity | | | kW | 16.0 | 10.0 | 14.0 | 16.0 | 16.0 | 25.0 | 25.0 | 32.0 | 32.0 | 52.5 | 52.5 | 72.0 | 116.0 | 140.0 |
| Power Source | | | — | AC 1Φ 220V 60Hz | AC 3Φ 220V 60Hz | | | | | | | | | | | | |
| Dimensions | | Width | mm | 800 | 650 | 800 | 800 | 800 | 1100 | 1100 | 1400 | 1400 | 1400 | 1400 | 1700 | 2080 | 2080 |
| | | Depth | mm | 500 | 450 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 750 | 750 | 750 | 980+65 | 1270+65 |
| | | Height | mm | 1990 | 1750 | 1990 | 1990 | 1770 | 1990 | 1770 | 1990 | 1770 | 2150 | 1858+30 | 1850+30 | 2000+30 | 2000+30 |
| | | Separable Height | mm | 1770+250 | — | 1770+250 | 1770+250 | — | 1770+250 | — | 1770+250 | — | 1880+300 | — | — | 1225+805 | 1225+805 |
| ※※Electrical Characteristics | | Power Consumption | kW | 3.65 | 2.28 | 2.96 | 3.65 | 3.81 | 5.71 | 6.10 | 7.37 | 7.90 | 12.1 | 13.0 | 17.8 | 27.8 | 36.8 |
| | | Operation Current | A | 18.9 | 6.8 | 9.5 | 11.3 | 11.8 | 17.4 | 18.6 | 22.8 | 24.4 | 36.9 | 36.0 | 54.3 | 83.5 | 126.5 |
| | | Starting Current | A | 126 | 74 | 114 | 121 | 121 | 171 | 171 | 135 | 135 | 185 | 185 | 190 | 313 | 338 |
| Energy Efficiency Ratio (EER) | | | W/W | 4.38 | 4.38 | 4.70 | 4.38 | 4.20 | 4.38 | 4.10 | 4.34 | 4.05 | 4.34 | 4.05 | 4.05 | 3.96 | 3.83 |
| Cooling Device | Compressor | Model | — | High Efficiency Fully Enclosed Scroll Compressor | | | | | | | | | | | | | |
| | | Power (Pole) | kW | 3.75(2) | 2.2(2) | 3.0(2) | 3.75(2) | 3.75(2) | 6.4(2) | 6.4(2) | 3.75(2) | 3.75(2) | 6.4(2) | 6.4(2) | 6.4(2)+3.75(2) | 11.9(2) | 11.9(2)+7.5(2) |
| | | Quantity | — | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2+1 | 2 | 2+1 |
| | Condenser | | — | Coiled DOUBLE Tube | | | | | | | | | | | | | Shell and Tube |
| | Evaporator | | — | Multi-path Vortex Fin Tubing | | | | | | | | | | | | | |
| Coolant Control Device | | | — | Multi-path Capillary Tubing | | | | | | | | | | | | | |
| Fan Device | Model | | — | Bilateral Intake Multi-blade Fan x1 | | | | | Bilateral Intake Multi-blade Fan and One-side Intake | | Bilateral Intake Multi-blade Fan x2 | | | | | | |
| | Motor Power (Pole) | | kW | 0.26(6) | 0.10(6) | 0.13(6) | 0.26(6) | 0.25(6) | 0.20(6) | 0.37(6) | 0.38(6) | 0.57(6) | 2.2(4) | 2.2(4) | 3.7(4) | 5.5(4) | 7.5(4) |
| | Motor Power Source | | — | AC 1Φ 220V 60Hz | | | | | AC 3Φ 220V 60Hz | | | | | | | | |
| | Air Volume (High/Low) | | ft³/min | 44/38 | 25/22 | 36/22 | 44/38 | 44 | 66 | | 88 | | 130 | | 180 | 260 | 360 |
| | External Static Pressure | | mm (inch) | 0 | | | | 30(3) | 0 | 39(3) | 0 | 39(3) | 0 | 50(5) | 80(8) | 80(8) | 200(20) |
| | Automatic Direction of Rotation | Direction of Rotation | — | Left-Right Wind Direction Auto Sway | | | | | — | | | | | | | | |
| | | Motor Power | W | 3 | | | | | — | | | | | | | | |
| Protective Devices | | | — | Over Current Relay (Compressor), Anti-freeze Switch, Outlet Temperature Switch (Compressor), Pressure Switch, Over Current Relay (Fan Motor, Limited to RP-NP51W/RP-NP41W), Internal Thermostat (Fan Motor, Limited to RP-NP51W/RP-NP101WL) | | | | | | | | | | | | |
| Cooling Water | Water Volume (at temperature of 35℃) | | ft³/h | 3.5 | 2.2 | 3.0 | 3.5 | 3.5 | 5.5 | 7.0 | 11.4 | | 15.6 | 22.8 | 30.5 | | |
| | Head Loss | | kPa (inch) | 49(4.8) | 25(2.5) | 49(4.0) | 49(4.8) | 49(4.8) | 49(4.5) | 67(6.7) | 32(3.2) | | 39(5.6) | 98(8.0) | 49(4.5) | | |
| Dimensions of Tubings | Condensed water | | — | FPT1 | | | | | | | | | | | | | |
| | Emergency Drain | | — | FPT1/2 | | | | | | | | | | | | | |
| | Cooling Water | Inlet | — | FPT1 1/4 | FPT1 | FPT1 1/4 | | | FPT1 1/2 | | | FPT2 | | | FPT2 1/2 | | |
| | | Outlet | — | FPT1 1/4 | FPT1 | FPT1 1/4 | | | FPT1 1/2 | | | FPT2 | | | FPT2 1/2 | | |
| Product Weight | | | kg | 190 | 160 | 190 | 190 | 185 | 280 | 290 | 340 | 325 | 470 | 490 | 630 | 810 | 1200 |

**Note:** (1.)※Capability of air conditioners are values when operating at CNS conditions(indoor intake air of dry bulb temperature at 27℃, indoor intake air of dry bulb temperature at 19℃, one-way coolant tubing between indoor and outdoor units being 7.5m).
(2.)※※Electrical Characteristics are values obtained by testing at CNS conditions (specified above). For actual electrical properties, please apply a 1.2 multiplier.
(3.)Changes made to specification in the table may be made without notice.
(4.)Operation Range/Evaporator Intake Air Temperature (standard air volume):
Maximum: 32℃ DB/23℃ WB
Minimum: 21℃ DB/15℃ WB
Condenser Intake Air Temperature: Maximum 38℃ DB/ Minimum 21℃ DB

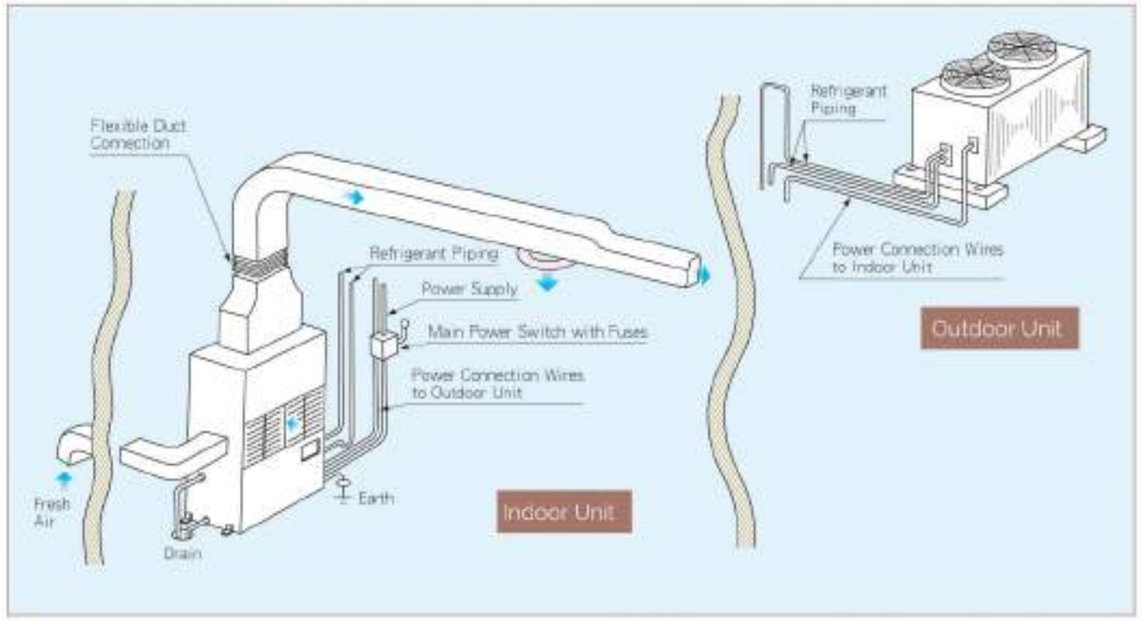
## WATER COOLED SPECIFICATION TABLE (380V)

| Item | | | Model | RP-NP51WE | RP-NP51WEL | RP-NP81WE | RP-NP81WEL | RP-NP101WE | RP-NP101WEL | RP-NP151WE | RP-NP151WEL | RP-NP221WE | RP-NP301WE | RP-NP401WE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ※Cooling Capacity | | | kW | 16.0 | 16.0 | 25.0 | 25.0 | 32.0 | 32.0 | 52.5 | 52.5 | 72.0 | 110.0 | 140.0 |
| Power Source | | | — | AC 3Φ 380V 60Hz | | | | | | | | | | |
| Dimensions | Width | | mm | 800 | 800 | 1100 | 1100 | 1400 | 1400 | 1400 | 1400 | 1100 | 2000 | 2000 |
| | Depth | | mm | 500 | 500 | 500 | 500 | 500 | 500 | 750 | 750 | 750 | 800+65 | 1270+65 |
| | Height | | mm | 1990 | 1770 | 1990 | 1770 | 1990 | 1770 | 2190 | 1850+30 | 1850+30 | 2030+30 | 2020+30 |
| | Separately Height | | mm | 1770+250 | — | 1770+250 | — | 1770+250 | — | 1880+300 | — | — | 1225+805 | 1225+805 |
| ※※Electrical Characteristics | | Power Consumption | kW | 3.65 | 3.81 | 5.71 | 6.10 | 7.37 | 7.90 | 12.1 | 13.0 | 17.8 | 27.0 | 36.6 |
| | | Operation Current | A | 6.51 | 6.81 | 10.09 | 10.79 | 13.2 | 14.12 | 21.4 | 22.9 | 31.4 | 50.9 | 68.8 |
| | | Starting Current | A | 63 | 63 | 89 | 89 | 68 | 68 | 105 | 105 | 110 | 148 | 163 |
| Energy Efficiency Ratio (EER) | | | W/W | 4.38 | 4.20 | 4.38 | 4.10 | 4.34 | 4.05 | 4.43 | 4.05 | 4.05 | 3.96 | 3.83 |
| Cooling Device | Compressor | Model | — | High Efficiency Fully Enclosed Scroll Compressor | | | | | | | | | | |
| | | Power (Pole) | kW | 3.7(2) | | 6.4(2) | | 3.7(2) | | 6.4(2) | | 6.4(2)+3.7(2) | 11.8(2) | 11.9(2)+7.5(2) |
| | | Quantity | — | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2+1 | 2 | 2+1 |
| | Condenser | | — | Coiled DOUBLE Tube | | | | | | | | | | Shell and Tube |
| | Evaporator | | — | Multi-path Vortex Fin Tubing | | | | | | | | | | |
| Coolant Control Device | | | — | Multi-path Capillary Tubing | | | | | | | | | | |
| Fan Device | Model | | — | Bilateral Intake Multi-blade Fan x1 | | Bilateral Intake Multi-blade Fan and One-side Intake Multi-blade Fan, One Each | | Bilateral Intake Multi-blade Fan x2 | | | | | | |
| | Motor Power (Pole) | | kW | 0.26(6) | 0.26(6) | 0.21(6) | 0.37(6) | 0.38(6) | 0.57(6) | 2.2(4) | 2.2(4) | 3.7(4) | 5.5(4) | 7.5(4) |
| | Motor Power Source | | — | AC 1Φ 220V 60Hz | | AC 3Φ 380V 60Hz | | | | | | | | |
| | Air Volume (High/Low) | | ㎥/hr | 44/38 | 44 | 66 | | 98 | | 130 | | 190 | 260 | 360 |
| | External Static Pressure | | mmAq | 0 | 30(3) | 0 | 30(3) | 0 | 30(3) | 0 | 50(5) | 80(8) | 80(8) | 200(20) |
| | Automatic Direction of Rotation | Direction of Rotation | — | Left/Right Wind Direction Auto Swing | — | | | | | | | | | |
| | | Motor Power | W | 3 | — | | | | | | | | | |
| Protective Device | | | — | Over Current Relay (Compressor), Anti-freeze Switch, Outlet Temperature Switch (Compressor), Pressure Switch, Over Current Relay (Fan Motor, Limited to RP-NP81WE/RP-NP401WE), Internal Thermostat (Fan Motor, Limited to RP-NP51WE/RP-NP101WEL) | | | | | | | | | |
| Cooling Water | Water Volume (at temperature of 30℃) | | ㎥/h | 3.5 | | 5.5 | | 7.0 | | 11.4 | | 15.8 | 22.8 | 30.5 |
| | Head Loss | | kPa (mAq) | 48(4.8) | | 45(4.5) | | 67(6.7) | | 30(3.2) | | 56(5.6) | 80(8.0) | 49(4.9) |
| Dimensions of Tubing | Condensed water | | — | RPT1 | | | | | | | | | | |
| | Emergency Drain | | — | RPT 1/2 | | | | | | | | | | |
| | Cooling Water | Inlet | — | RPT1 1/4 | | RPT1 1/2 | | | | RPT2 | | | RPT2 1/2 | |
| | | Outlet | — | RPT1 1/4 | | RPT1 1/2 | | | | RPT2 | | | RPT2 1/2 | |
| Product Weight | | | kg | 160 | 165 | 260 | 250 | 340 | 325 | 410 | 450 | 630 | 810 | 1200 |

**Note :** (1).※Capability of air conditioners are values when operating at CNS conditions(indoor intake air of dry bulb temperature at 27℃,indoor intake air of dry bulb temperature at 19℃, one-way coolant tubing between indoor and outdoor units being 7.5m).
(2).※※Electrical Characteristics are values obtained by testing at CNS conditions (specified above). For actual electrical properties, please apply a 1.2 multiplier.
(3).Changes made to specification in the table may be made without notice.
(4).Operation Range(Evaporator Intake Air Temperature (standard air volume)):
Maximum 32℃ DB/23℃ WB
Minimum 21℃ DB/15℃ WB
Condenser Intake Air Temperature: Maximum 38℃ DB/ Minimum 21℃ DB

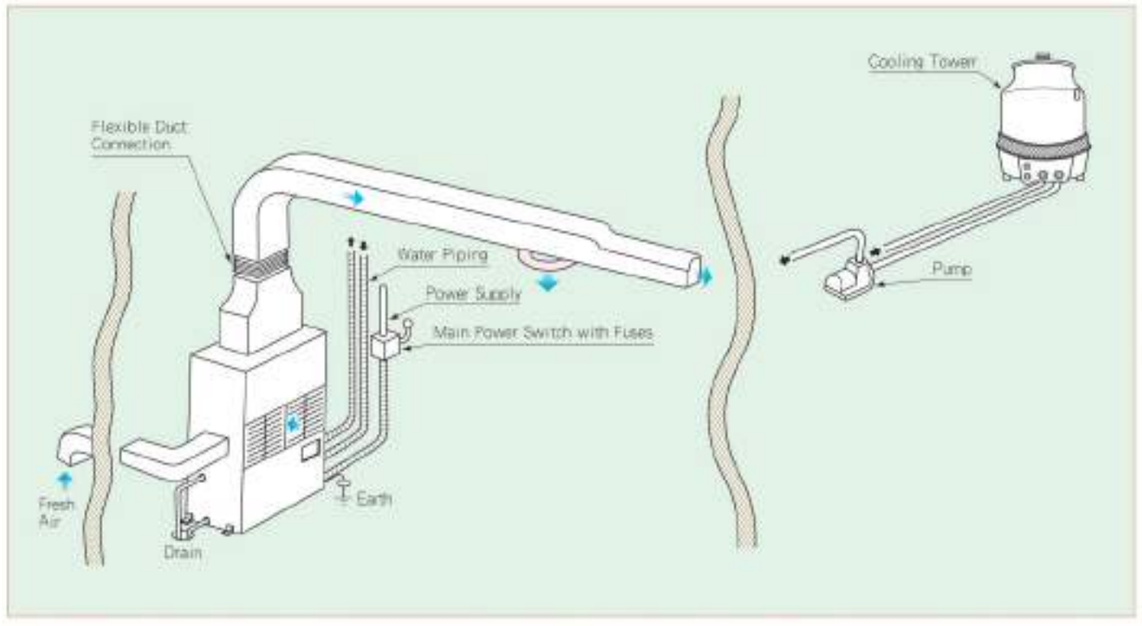
## AIR COOLED

### Air Cooled Installation Figure




## WATER COOLED

### Water Cooled Installation Figure



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Specifications in this catalog are subject to change without any notice in order that HITACHI may bring the latest innovations to our customers.

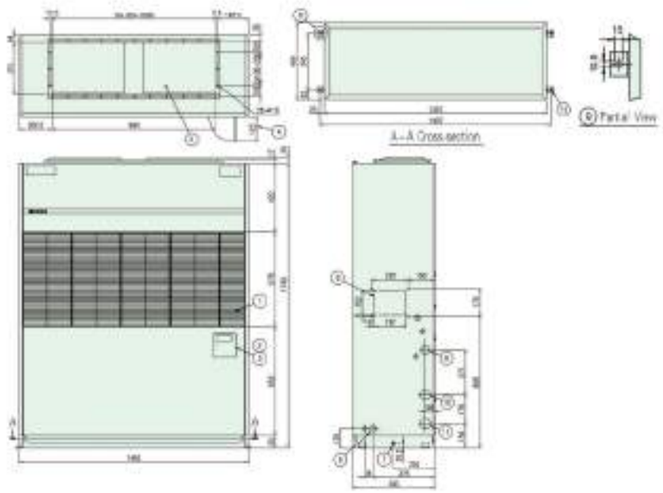
HAPP-RPT-1501

CUT FOLD CUT

## WATER COOLED

### RP-NP101WL
### RP-NP101WEL

Cooling Capacity:32.0kW
Compressor Motor Output:3.75kWx2

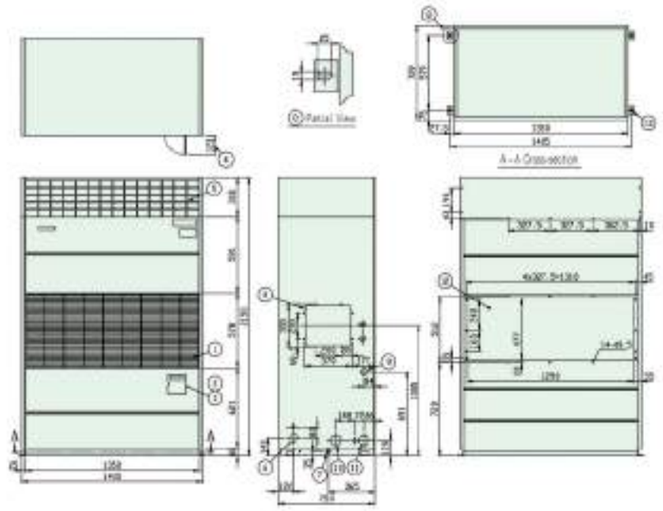



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 1/2" |
| 11 | Cooling Water Inlet | PPT 1/2" |
| 12 | Installation Fixture Hole | 4-Φ15x25 |

### RP-NP151W
### RP-NP151WE

Cooling Capacity:52.5kW
Compressor Motor Output:6.4kWx2



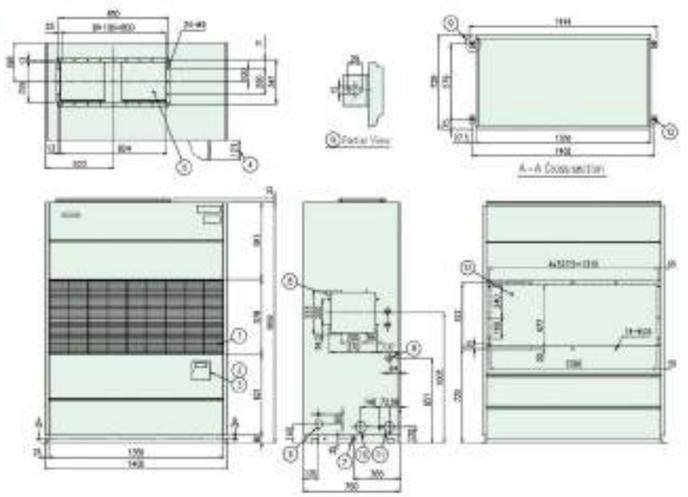

| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 2" |
| 11 | Cooling Water Inlet | PPT 2" |
| 12 | Electrode Intake | |
| 13 | Installation Fixture Hole | 4-Φ15x25 |

## WATER COOLED

### RP-NP151WL
### RP-NP151WEL

Cooling Capacity:52.5kW
Compressor Motor Output:6.4kWx2

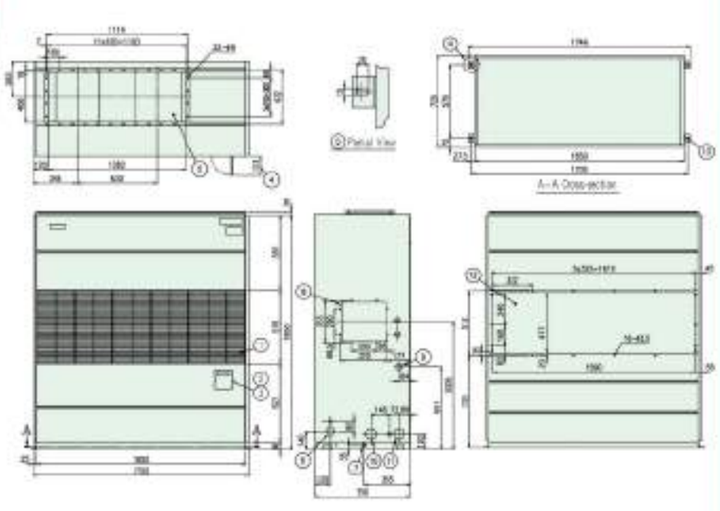



| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 11 | Cooling Water Outlet | PPT 2" |
| 11 | Cooling Water Inlet | PPT 2" |
| 12 | Electrode Intake | |
| 13 | Installation Fixture Hole | 4-Φ15x25 |

### RP-NP221W
### RP-NP221WE

Cooling Capacity:72.0kW
Compressor Motor Output:
3.75kWx1+6.4kWx2




| Item | Name | Note |
|---|---|---|
| 1 | Inlet Grille | |
| 2 | Electronic Operation Panel | |
| 3 | Operation Cover | |
| 4 | Opening Width of Operation Cover/Coolant Outlet | |
| 5 | Outlet Grille | |
| 6 | Wiring Hole for Power Line | Φ163 (Knock-out Hole) |
| 7 | Emergency Drain | PPT 1/2" |

| Item | Name | Note |
|---|---|---|
| 8 | Fresh Air Inlet | (Knock-out Hole) |
| 9 | Condensed Liquid Drain | PPT 1" |
| 10 | Cooling Water Outlet | PPT 2" |
| 11 | Cooling Water Inlet | PPT 2" |
| 12 | Electrode Intake | |
| 13 | Installation Fixture Hole | 4-Φ15x25 |

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