

SERVICE MANUAL

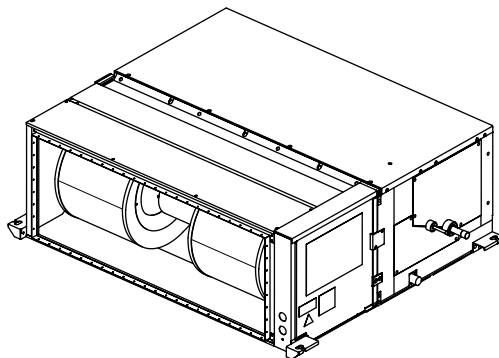
Ceiling Concealed

Model name

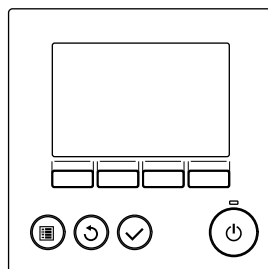
<Indoor unit>

PEA-RP200WKA

PEA-RP250WKA



INDOOR UNIT



REMOTE CONTROLLER (option)

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SPECIFICATION

| | | | | |
|----------------------|--|--------------------------|------------------------------|--------------------------|
| INDOOR UNIT | Model name | | PEA-RP200WKA | |
| | Mode | | Cooling | Heating |
| | Power supply | | Single phase, 50Hz, 220-240V | |
| | Input | *1 | kW | 0.66 |
| | Running Current | *1 | A | 3.57 |
| | External finish | | Galvanized sheets | |
| | Heat exchanger | | Plate fin coil | |
| | Fan | Fan (drive) × No. | | Sirocco fan × 2 |
| | | Fan motor output | kW | 0.87 |
| | | Airflow (Low-Mid-High) | m ³ /min (L/S) | 50-61-72 (833-1017-1200) |
| | | External static pressure | Pa | (60-75-100-)150 |
| | Booster heater | | kW | - |
| | Operation control & Thermostat | | Remote controller & built-in | |
| | Sound pressure level (Low-Mid-High) | (60Pa) | dB (A) | 34-37-40 |
| | | (75Pa) | | 35-38-41 |
| (100Pa) | | 36-39-42 | | |
| 150Pa | | 38-41-44 | | |
| Field drain pipe O.D | | mm | 32 | |
| Dimensions | W | mm | 1370 | |
| | D | mm | 1120 | |
| | H | mm | 470 | |
| Weight | | kg | 108 | |

*1 The value is measured at an external static pressure of 150 Pa.

| | | | | |
|----------------------|--|--------------------------|------------------------------|--------------------------|
| INDOOR UNIT | Model name | | PEA-RP250WKA | |
| | Mode | | Cooling | Heating |
| | Power supply | | Single phase, 50Hz, 220-240V | |
| | Input | *1 | kW | 0.80 |
| | Running Current | *1 | A | 4.34 |
| | External finish | | Galvanized sheets | |
| | Heat exchanger | | Plate fin coil | |
| | Fan | Fan (drive) × No. | | Sirocco fan × 2 |
| | | Fan motor output | kW | 0.87 |
| | | Airflow (Low-Mid-High) | m ³ /min (L/S) | 58-71-84 (967-1183-1400) |
| | | External static pressure | Pa | (60-75-100-)150 |
| | Booster heater | | kW | - |
| | Operation control & Thermostat | | Remote controller & built-in | |
| | Sound pressure level (Low-Mid-High) | (60Pa) | dB (A) | 36-39-42 |
| | | (75Pa) | | 37-40-43 |
| (100Pa) | | 38-41-44 | | |
| 150Pa | | 40-43-46 | | |
| Field drain pipe O.D | | mm | 32 | |
| Dimensions | W | mm | 1370 | |
| | D | mm | 1120 | |
| | H | mm | 470 | |
| Weight | | kg | 108 | |

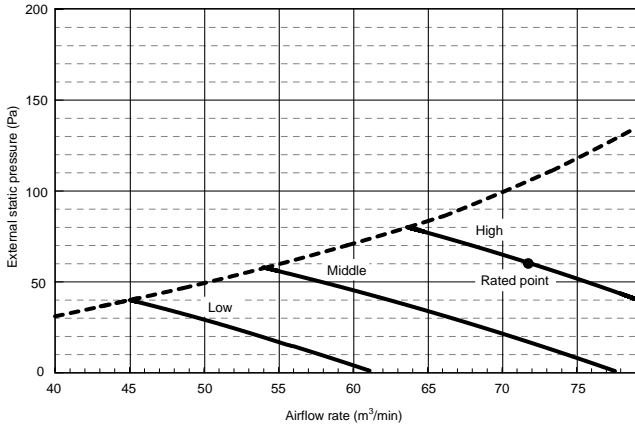
*1 The value is measured at an external static pressure of 150 Pa.

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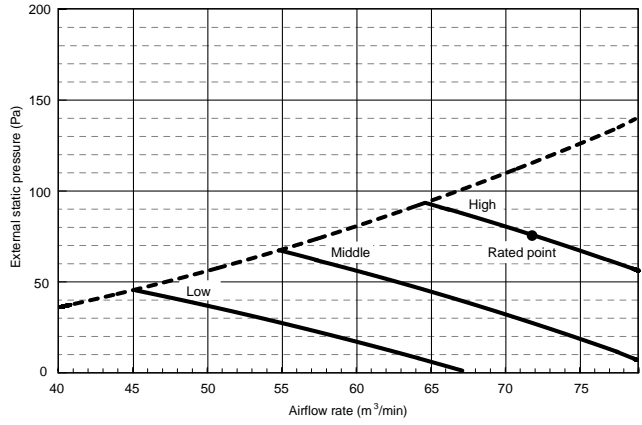
FAN PERFORMANCE AND CORRECTED AIR FLOW

PEA-RP200WKA

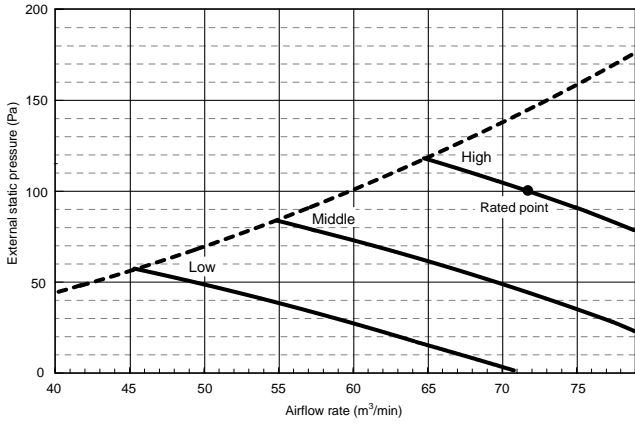
(External static pressure 60 Pa)



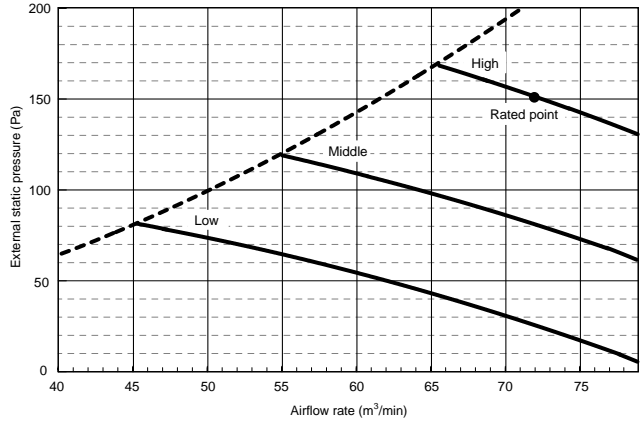
(External static pressure 75 Pa)



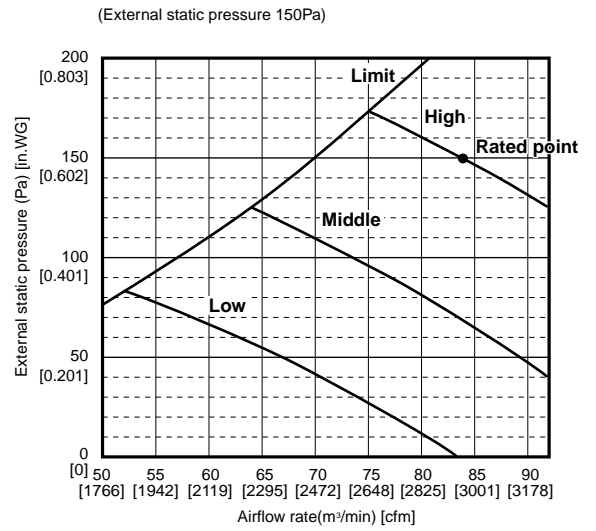
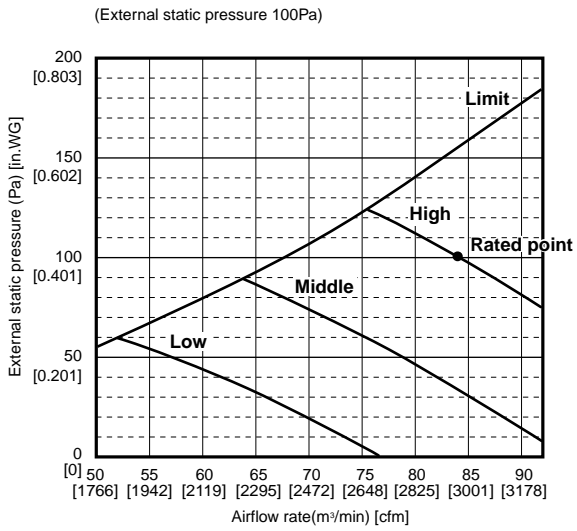
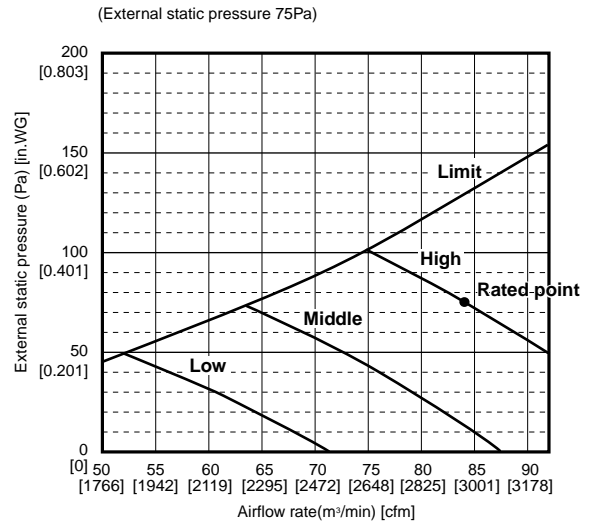
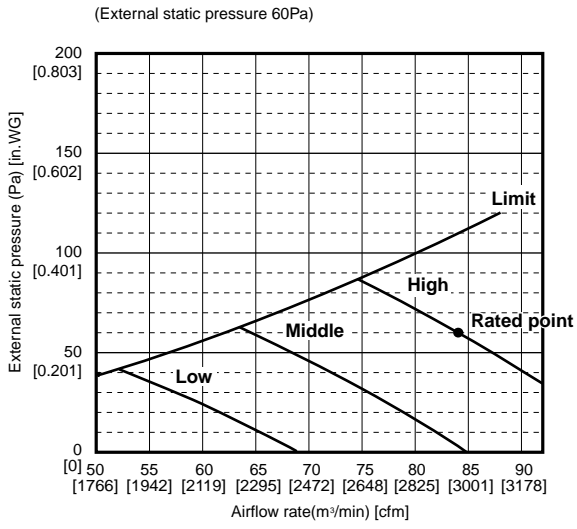
(External static pressure 100 Pa)



(External static pressure 150 Pa)



PEA-RP250WKA

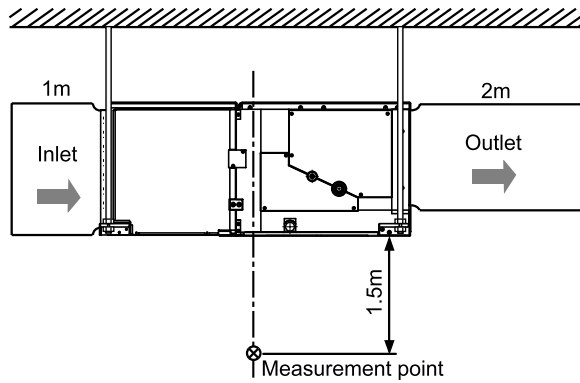


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SOUND PRESSURE LEVELS

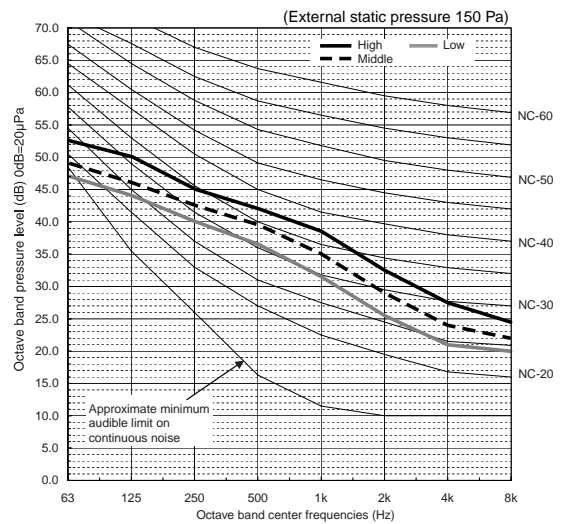
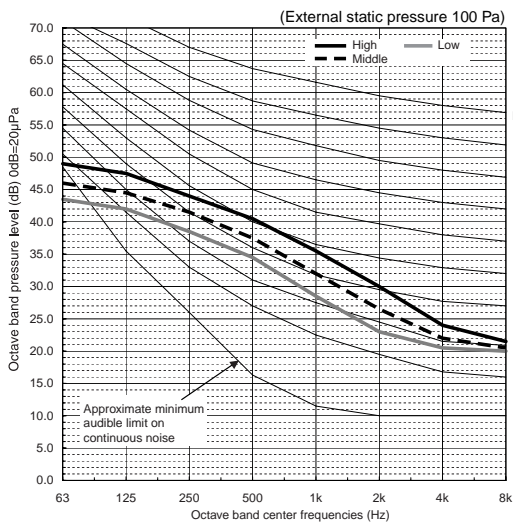
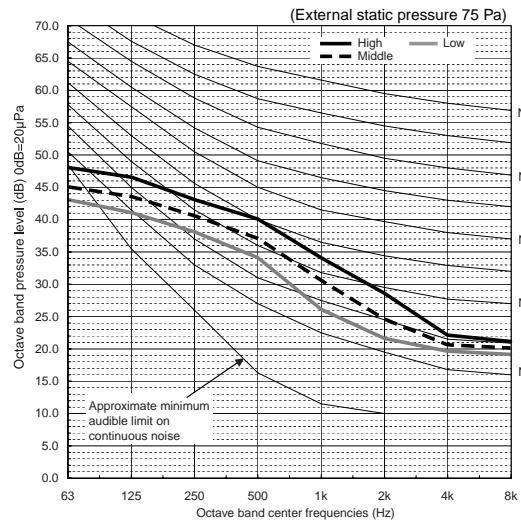
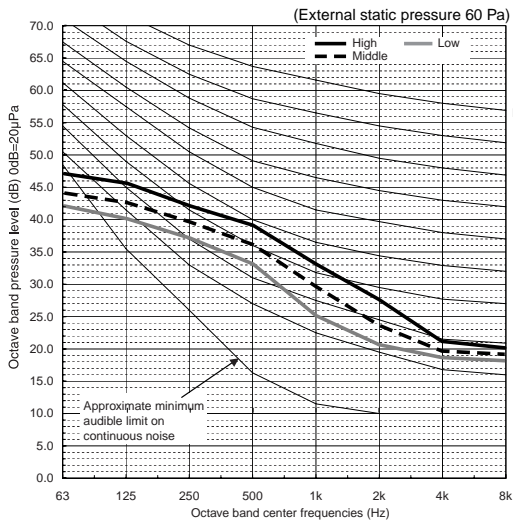
5-1. Sound pressure level

Ceiling concealed

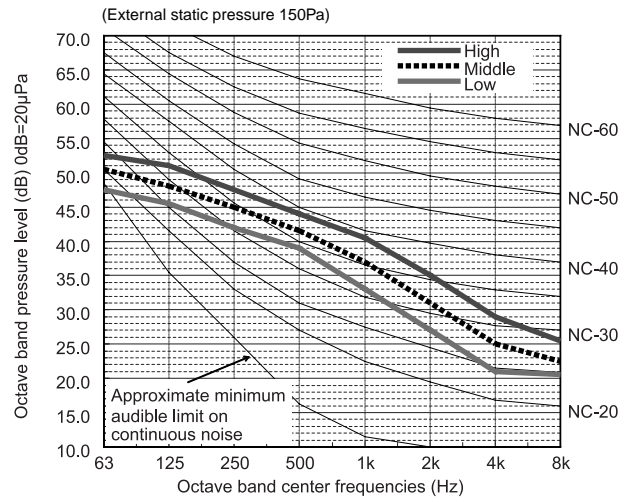
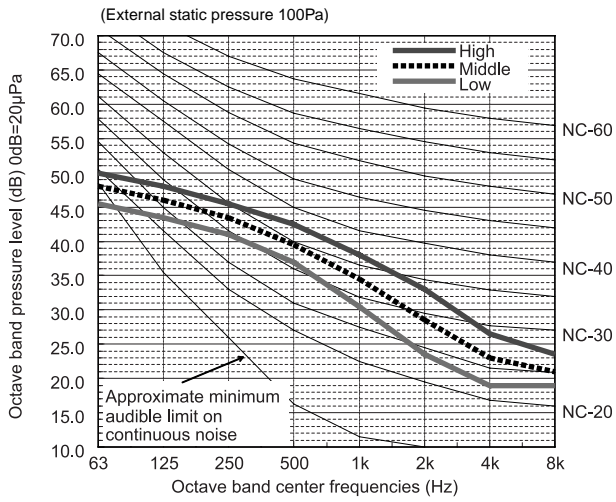
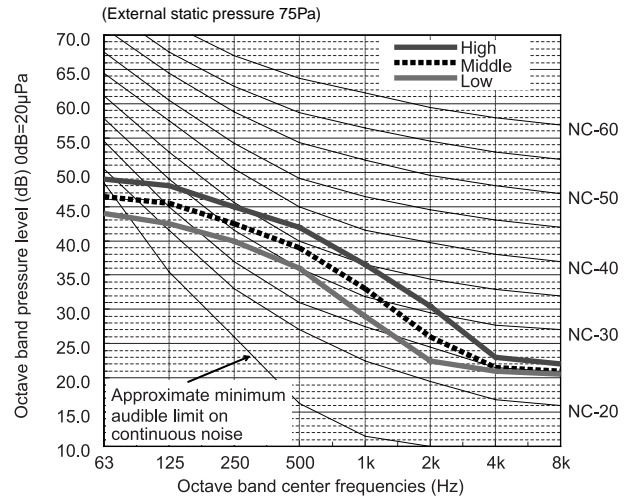
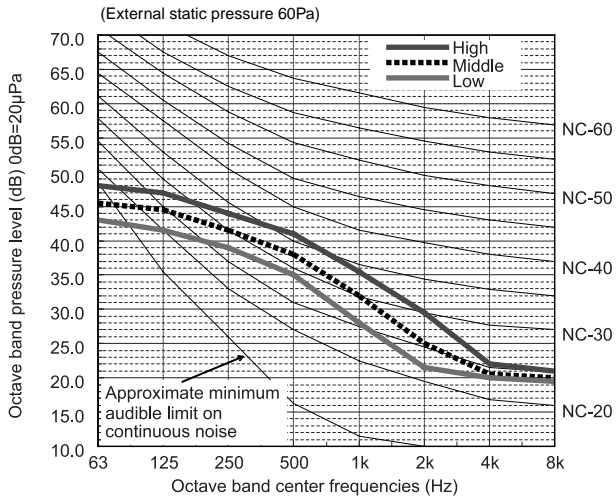


5-2. NC curves

PEA-RP200WKA



PEA-RP250WKA

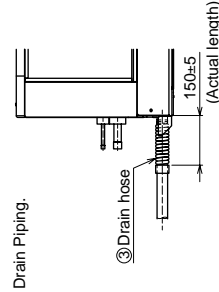
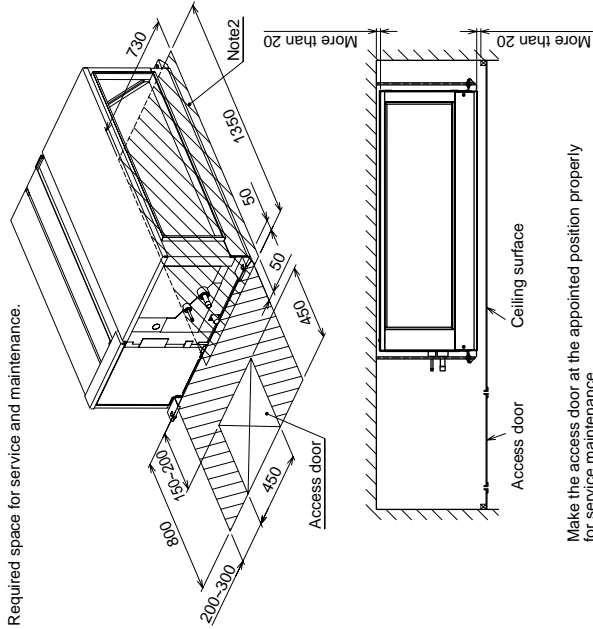


NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher than the displayed level during cooling and heating operation.

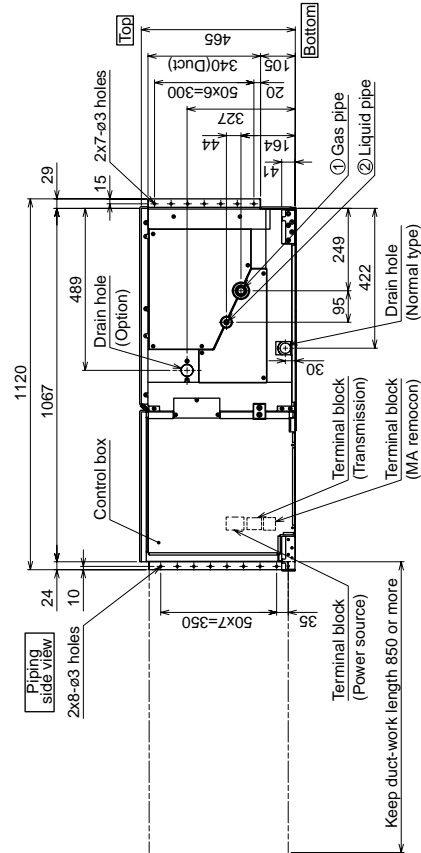
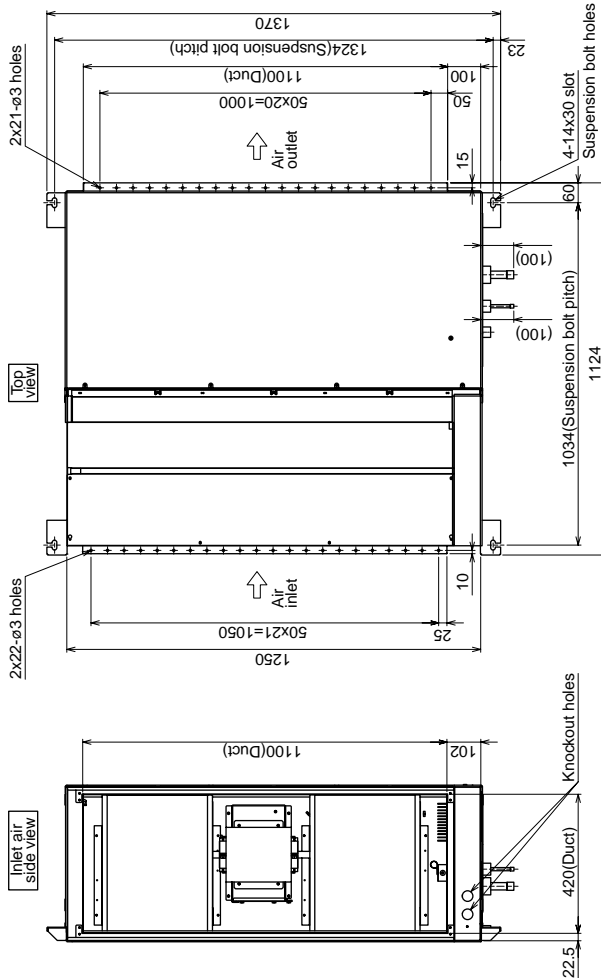
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OUTLINES & DIMENSIONS

INDOOR UNIT



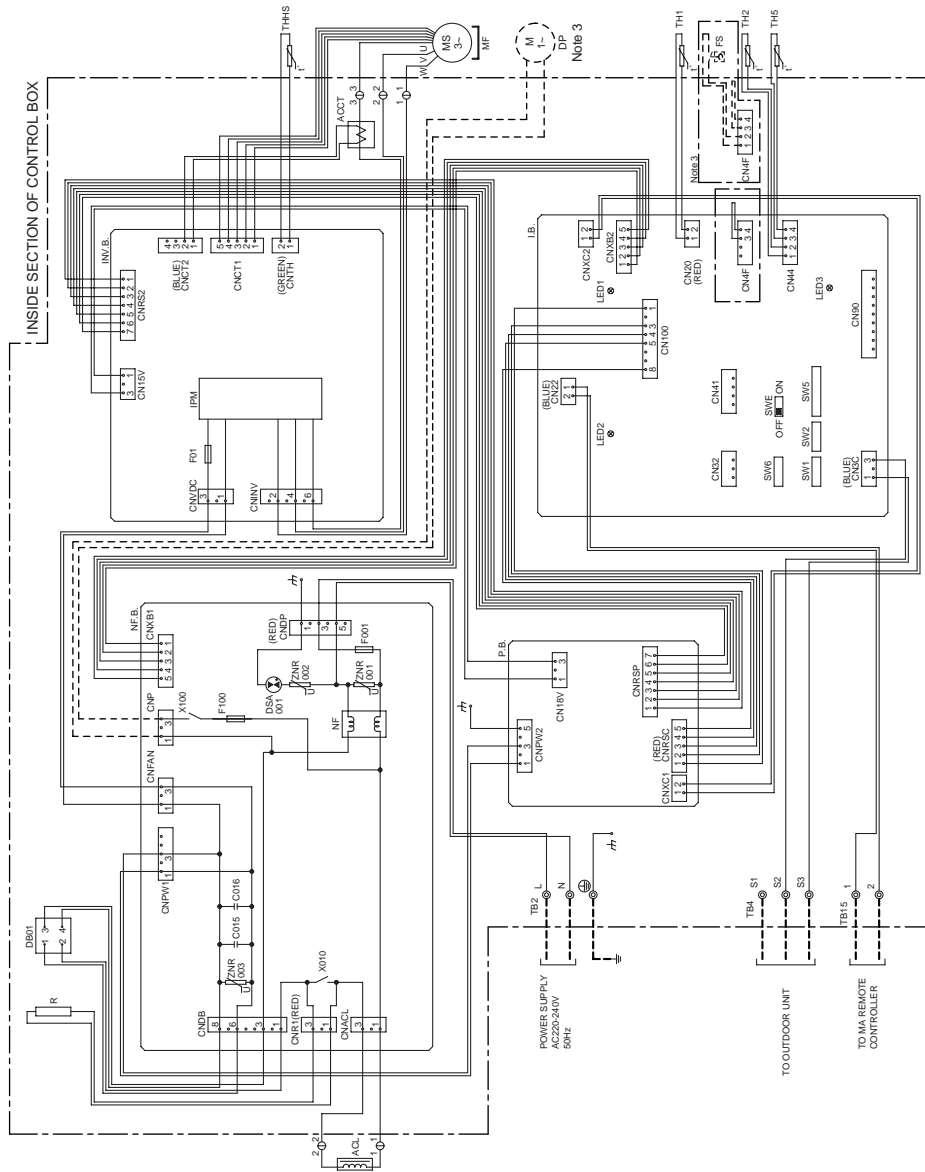
- Note 1. Use M10 screw for the suspension bolt (field supply).
 2. Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.
 3. Make sure to install the air filter (field supply) on the air intake side.
 In case field supplied air filter is used, attach it where the filter service is easily done.



| MODEL | ① Gas pipe | ② Liquid pipe | ③ Drain hose |
|--------------|------------|---------------|--------------------------------------|
| PEA-RP200WKA | ø9.52 | ø9.52 | Drain hose 32mm <flexible joints> |
| PEA-RP250WKA | ø25.4 | ø12.7 | <accessory> |

| SYMBOL | EXPLANATION | NAME |
|------------|--|------|
| I.B. | Indoor controller board | |
| P.B. | Power supply board | |
| INV.B. | Noise filter board | |
| INV.B. | Inverter board | |
| TB2 | Power source terminal block | |
| TB4 | Transmission terminal block | |
| TB15 | Transmission terminal block | |
| F001 | Fuse(AC250V /10A) | |
| F01 | Fuse(AC250V /5A) | |
| F100 | Fuse(3.15A) | |
| MF | Fan motor | |
| ACL | AC relay (Power factor improvement) | |
| R | Resistor | |
| DB01 | Diode bridge | |
| NF | Noise filter | |
| DSA001 | Arrester | |
| ZNR001 | Varistor | |
| -ZNR003 | Aux. relay | |
| X010.X100 | | |
| LED1 | LED (Power supply) | |
| LED2 | LED (Remote controller supply) | |
| LED3 | LED (transmission indoor-outdoor) | |
| TH1 | Thermistor(inlet air temp.detection) | |
| TH2 | Thermistor(piping temp.detection/liquid) | |
| TH5 | Thermistor(piping temp.detection/gas) | |
| THHS | Thermistor(heatsink) | |
| THCS | Current Sensor (AC) | |
| ACCT | Connector (HA terminal-A) | |
| CN41 | Connector (Wireless) | |
| CN80 | Connector (Wireless) | |
| SW1 (I.B.) | Switch (for mode selection) | |
| SW2 (I.B.) | Switch (for capacity code) | |
| SW5 (I.B.) | Switch (for model selection) | |
| SW6 (I.B.) | Switch (for model selection) | |
| SWE (I.B.) | Connector (emergency operation) | |
| IPM | Intelligent power module | |
| <DP> | Drain pump | |
| <FS> | Float switch | |

inside < > is the optional parts.



- NOTE:1. The wirings to TB2, TB4, TB15 shown in dotted line are field work.
 2. Mark ⊕ indicates terminal block (⊕) connector.
 3. The part of thin dotted line indicates the circuit for optional parts.
 4. To perform a drainage test for the drain pump turn on the SWE on the control board while the indoor unit is being powered.
 *Be sure to turn off the SWE after completing a drainage test or test run.

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REFRIGERANT SYSTEM DIAGRAM

