Room Air Conditioner

SVC MANUAL (Exploded View)

MODEL: H2UC186FA0
      H3UC216FA0
      H3UC246FA0

CAUTION
Before Servicing the unit, read the safety precautions in General SVC manual. Only for authorized service personnel.
## 1. Specification

<table>
<thead>
<tr>
<th>Outdoor unit</th>
<th>HZUC186F00</th>
<th>HZUC218FA0</th>
<th>HZUC248FA0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling kW</td>
<td>2.93 – 6.30</td>
<td>10.00 – 21.50</td>
<td>10.00 – 21.50</td>
</tr>
<tr>
<td>Heating kW</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Nominal Input</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling kW</td>
<td>1.60 – 1.80</td>
<td>1.82</td>
<td>0.83 – 2.14</td>
</tr>
<tr>
<td>Heating kW</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Testing Combination</strong></td>
<td>HMNC126D4A0x1</td>
<td>HMNC096D4A0x2</td>
<td>HMNC096D4A0x1 + HMNC126D4A0x2</td>
</tr>
<tr>
<td><strong>Running Current(Rating)</strong></td>
<td>Cooling A</td>
<td>6.3</td>
<td>6.3</td>
</tr>
<tr>
<td>Heating A</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0V/Hz</td>
<td>1/220 – 240/50Hz</td>
<td>1/220 – 240/50Hz</td>
<td>1/220 – 240/50Hz</td>
</tr>
<tr>
<td><strong>Power Supply Cable(Outdoor)</strong></td>
<td>Ns × nef</td>
<td>3 × 2.5</td>
<td>3 × 2.5</td>
</tr>
<tr>
<td><strong>Power and Transmission Cable(Outdoors to Indoor or Outdoor to BD)</strong></td>
<td>Ns × nef</td>
<td>4 × 0.75(Indoors)</td>
<td>4 × 0.75(Indoors)</td>
</tr>
<tr>
<td><strong>Power and Transmission Cable(BD to Indoor)</strong></td>
<td>Ns × nef</td>
<td>4 × 0.75(Indoors)</td>
<td>4 × 0.75(Indoors)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>W × H × D mm(inch)</td>
<td>870×655×320(34.2×25.8×12.6)</td>
<td>870×655×320(34.2×25.8×12.6)</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>kg(lb)</td>
<td>52(115)</td>
<td>53(117)</td>
</tr>
</tbody>
</table>

### Max. Number of Connectable Indoor Units:
- Type: ROTARY
- Fan: Discharge Direction
  - Side: Side

### Compressor (1):
- Dy × Model: 1 × GP325PBA
- Motor type: Induction
- Oil charge volume: 700
- Oil type: 4GSI

### Compressor (2):
- Dy × Model: 1 × GP325PDA24C
- Motor type: Induction
- Oil charge volume: 410
- Oil type: 4GSI

### Refrigerant:
- Cycle A Charge (at 7.5m): 1,300(45.86)
- Cycle B Charge (at 7.5m): 1,300(45.86)

### Additional Refrigerant Charge:
- p(m2/ton): 30(0.32)

### Heat Exchanger:
- Rows × Column × FPI xNo.
  - (2R×30×21)×1
  - (2R×30×21)×1
  - (2R×21×18)×1

### Defrosting Method:
- YES

### Fan Flow Rate & No. of Fan
- OMM(tcm): 51(18.01) ×1
- Sound Level(Pa)
  - Sound Pressure: 54
  - Condensing unit: 6.35

### Service Valve
- mm(inch): 9.52

### Max. Inter-unit Piping Length
- Each Branch piping m 12
- Total piping m 30

### Max. Elevation Difference
- Outdoor Unit – Indoor Unit m 7.5
- Indoor Unit – Indoor Unit m 7.5

### Operation Range
- Cooling °C/°F 18 – 43
- Heating °C/°F 18 – 43

### Category Function
- Defrost / Deicing
- High pressure switch
- Low pressure switch
- Phase protection
- Restart delay (3 minutes)
- Self diagnosis
- Soft start
- Test function
- Auto operation(Artificial intelligence)
- Auto restart operation
- Network solution(LGAP)
- Auto operation(Artificial intelligence)
- Auto restart operation
- Low ambient operation
- Thermistor

### Note:
- Some of functions are slightly different depending upon models.
- The specification may be subject to change without prior notice for purpose of improvement.
- In case of breaker rating, please conform to local standards wherever necessary.

## 2 Room Air Conditioner
2. Piping Diagrams

H2UC186FA0

H3UC216FA0
2. Piping Diagrams

H3UC246FA0

- **Capillary**
- **Solenoid Valve**
- **L.E.V**
- **3-Way Valve**
- **2-Way Valve**

Th1: Thermistor for suction air temp.
Th2: Thermistor for Discharge air temp.
Th3: Thermistor for Room Out temp.

**Refrigerant pipe connection port diameters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Gas</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2UC186FA0</td>
<td>Ø9.52 X 2 EA</td>
<td>Ø6.35 X 2 EA</td>
</tr>
<tr>
<td>H3UC216FA0</td>
<td>Ø9.52 X 3 EA</td>
<td>Ø6.35 X 3 EA</td>
</tr>
<tr>
<td>H3UC246FA0</td>
<td>Ø9.52 X 3 EA</td>
<td>Ø6.35 X 3 EA</td>
</tr>
</tbody>
</table>
3. Wiring Diagram

Models: H2UC186FA0 / H3UC216FA0 / H3UC246FA0

![Wiring Diagram](image)

<table>
<thead>
<tr>
<th>Connector Number</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN_POWER</td>
<td>AC power supply</td>
</tr>
<tr>
<td>CN_COMP</td>
<td>Compressor output</td>
</tr>
<tr>
<td>CN_FAN</td>
<td>Fan motor output</td>
</tr>
<tr>
<td>CN_SV</td>
<td>Display</td>
</tr>
<tr>
<td>CN_TH1</td>
<td>Pipe sensor</td>
</tr>
<tr>
<td>CN_TH2</td>
<td>Cond &amp; Air sensor</td>
</tr>
<tr>
<td>CN_LGMV</td>
<td>LGMV input</td>
</tr>
<tr>
<td>CN_LEV</td>
<td>LEV output</td>
</tr>
<tr>
<td>CN_COM</td>
<td>Signal Output</td>
</tr>
</tbody>
</table>

PCB

![PCB Diagram](image)