PHNIX Advanced Heat Pump Technology

- Energy Saving up to 30%
  With the use of inverter compressors, brushless DC fan motors and PFC control method, the units can regulate the running capacity. With no frequent start-ups and stop runnings, the units work in stable condition with high efficiency. The energy consumption is 30% less than that of common fixed speed heat pump units.

- 0.5°C Precise Control
  The units can change the operating frequency of the compressors automatically according to the heating or cooling demand. When the target temperature is reached, the units run at a lower frequency, and the temperature control accuracy can be as precise as 0.5°C.

- Speed up Heating/Cooling Time
  When there is a large difference between the actual temperature and the programmed temperature, the unit can run at a higher frequency to make fast heating or cooling to increase or decrease the temperature rapidly.

- Intelligent Defrosting
  **Traditional Defrosting Method**
  Traditional defrosting method is with fixed defrosting time and start temperature. Once the ambient temperature reaches or is lower than -7°C, the unit will start defrosting. It’s easy to cause energy wasting when there is no defrost and will reduce the heating performance at the same time.

  **Intelligent Defrosting Method**
  Hero series intelligent defrosting uses the pressure sliding defrosting technology to figure out the exact defrosting time and start pressure according to the real ambient temperature. It saves energy and makes the heat pump work in high efficiency.

- No Frosting in the Bottom of Air Exchanger
  With the use of the special liquid distribution technology, in heating mode, the temperature of refrigerant in the air exchanger’s bottom copper tube will not decrease in order to ensure smooth drainage with no ice.
## Parameter

<table>
<thead>
<tr>
<th>Model</th>
<th>Heating Capacity Range</th>
<th>Heating Power Input Range</th>
<th>Cooling Capacity Range</th>
<th>Cooling Power Input Range</th>
<th>Frequency</th>
<th>ErP Level (35oC)</th>
<th>ErP Level (55oC)</th>
<th>Power Supply</th>
<th>Electric Heater</th>
<th>Max. Running Current</th>
<th>Refrigerant Type</th>
<th>Compressor Brand</th>
<th>Water Pump Brand</th>
<th>Water Connection</th>
<th>Water Flow</th>
<th>Water Pressure Drop</th>
<th>DC Motor Power Input (max)</th>
<th>DC Motor Power Input (min)</th>
<th>DC Fan Speed (max)</th>
<th>DC Fan Speed (min)</th>
<th>Pressure Sensor 1</th>
<th>Pressure Sensor 2</th>
<th>Noise</th>
<th>Net Weight</th>
<th>Gross Weight</th>
<th>Net Dimension(L/W/H)</th>
<th>Shipping Dimension (L/W/H)</th>
<th>Operation Ambient Temp.</th>
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<td>1.6~5.4</td>
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<td>1.5~3.4</td>
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The data above is only for reference. For model specifications, please refer to the nameplate on the unit.