Applications
With a high-pressure design suitable for use in air-cooled condensing units for fluorocarbon refrigerants, the model serve small- to medium-scale deep freezing applications.

Reciprocating Compressor
[Two Stage] Open Type
WA-SERIES

High Reliability
A long-selling model with high reliability and track record, designed for tough applications subject to load fluctuation.

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>42WA</th>
<th>62WA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant</td>
<td>Ammonia / HFCs</td>
<td>R 404 A, R 507 A</td>
</tr>
<tr>
<td>Compressor type</td>
<td>Reciprocating, Open Type</td>
<td></td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>Low stage: 4, High stage: 2</td>
<td>Low stage: 6, High stage: 2</td>
</tr>
<tr>
<td>Bore</td>
<td>95 mm</td>
<td></td>
</tr>
<tr>
<td>Stroke</td>
<td>76 mm</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Low stage: 125 m³/h, High stage: 62.7</td>
<td>Low stage: 188 m³/h, High stage: 62.7</td>
</tr>
<tr>
<td>Rotation speed</td>
<td>800-1500 rpm</td>
<td></td>
</tr>
<tr>
<td>Drive method</td>
<td>Direct drive / V-belt</td>
<td></td>
</tr>
<tr>
<td>Capacity control (%)</td>
<td>100/50</td>
<td>100/66/33</td>
</tr>
</tbody>
</table>

*1. Specify the refrigerant by adding a prefix to the type code (N = Ammonia / F = Fluorocarbon).
*2. Rotation speed at 970 rpm
*3. The range of rotation speed varies by operating conditions. Please refer to the ranges of use stated in the operating instructions.

Performance charts

Ammonia

- Condensing temperature: 35°C
- Suction Superheat: 0°C
- Liquid Subcooling: 5°C
- Rotation speed: 970 rpm

Cooling capacity [kW]

Absorbed power [kW]

R404A

- Condensing temperature: 35°C
- Suction Superheat: 0°C
- Liquid Subcooling: 5°C
- Rotation speed: 970 rpm

Cooling capacity [kW]

Absorbed power [kW]

Outer dimensions

[Air cooled type (HFCs)]

Model (F) | Weight (kg) | W (mm) | L (mm) | H (mm)
---------|-------------|--------|--------|------
42WA     | 580         | 850    | 935    | 735  |
62WA     | 670         | 880    | 970    | 750  |

[Water cooled type (Ammonia)]

Model (N) | Weight (kg) | W (mm) | L (mm) | H (mm)
---------|-------------|--------|--------|------
42WA     | 600         | 990    | 935    | 840  |
62WA     | 700         | 1045   | 970    | 910  |

The outer dimension drawings illustrate the 6-cylinder model.
*1 The stop valve, companion flange, flywheel, V-pulley, and safety valve are not included. *2 The oil cooler is included.