HEAT RECOVERY VENTILATORS FOR RESIDENTIAL USE

MODEL

**VL-100U5-E**
Pull-string switch type

**Energy Saving**
Reduced heat loss contributes to lower air conditioning costs.

**Fresh Air**
Simultaneous air supply/exhaust function ensures efficient ventilation.

**Quiet Operation**
Equipped with sound insulation for even quieter operation.

**Simple Installation**
Easy installation through boring of 2 installation holes.

**Stylish Design**
Designed to match any interior decor.

Total-Heat-Exchange Concept

**Operation in Winter**

- **18°C** Fresh warm air (indoor supply air)
- **4°C** Stale cold air (exhaust)
- **20°C** Stale warm air (indoor return air)

**Operation in Summer**

- **23.8°C** Fresh cool air (indoor supply air)
- **32.2°C** Stale hot air (exhaust)
- **0°C** Fresh cold air (indoor return air)
- **21°C** Stale cool air (indoor return air)
- **35°C** Fresh hot air (outdoor air)

**Heat-exchange Temp. equation**
Indoor supply-air
Indoor temperature(°C) | Outdoor temperature(°C) | Temp exchange | Efficiency(%) |
--- | --- | --- | --- |
Calculation example: 16°C = (20°C - 0°C) x 80% + 0°C (Low fan speed)

**Heat-exchange Temp. equation**
Indoor supply-air
Indoor temperature(°C) | Outdoor temperature(°C) | Temp exchange | Efficiency(%) |
--- | --- | --- | --- |
Calculation example: 23.8°C = 35°C - (35°C - 21°C) x 80% (Low fan speed)
Specifications

VL-100U5-E (White)

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current (A)</th>
<th>Fan speed</th>
<th>Air volume (m³/h)</th>
<th>Power consumption (W)</th>
<th>Temp. exchange efficiency (%)</th>
<th>Noise (dB)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>50</td>
<td>LD-1</td>
<td>105</td>
<td>72</td>
<td>60</td>
<td>25</td>
<td>7.5</td>
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<tr>
<td>230</td>
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<td>72</td>
<td>60</td>
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<tr>
<td>240</td>
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<td>25</td>
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</tr>
</tbody>
</table>

- Simple installation through boring of 2 installation holes.
- Low-noise (less than 30dB at low fan speed).
- 1-motor 2-fan system.
- Air-volume: low/high fan speeds.

Dimensions

VL-100U5-E

Wiring Diagram

VL-100U5-E

Optional parts

High performance filter
P-100HF5-E

- Upgraded high-performance filter.

Replacement filter
P-100F5-E

- Standard grade replacement filter.

Extension Pipe
P-100P-E

- Total length when connected to the pipe extension coupling is 300mm.

Extension Pipe Coupling
P-100PJ-E

- Screw-in method