Air cooled scroll inverter chiller
EWAQ-BAWN/BAWP

› High efficiency with leader-of-class ESEER
› Minimal starting currents and short payback times
› Daikin scroll compressor

› Large operation range (ambient temperature up to 43°C)
› Centralised monitoring and control via sequencing controller and RTD-W Modbus interface
### EWAQ-BAWN/BAWP

<table>
<thead>
<tr>
<th>Capacity control</th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Method</td>
<td>Inverter controlled</td>
<td>Inverter controlled</td>
<td>Inverter controlled</td>
<td>Inverter controlled</td>
</tr>
<tr>
<td>Minimum capacity</td>
<td>% 25</td>
<td>% 25</td>
<td>% 25</td>
<td>% 25</td>
</tr>
<tr>
<td>EER</td>
<td>3.11 (1) / 2.86 (2)</td>
<td>2.99 (1) / 2.73 (2)</td>
<td>2.78 (1) / 2.54 (2)</td>
<td>2.48 (1) / 2.29 (2)</td>
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<tr>
<td>ESEER</td>
<td>4.33 (1) / 4.21 (2)</td>
<td>4.08 (1) / 3.88 (2)</td>
<td>3.85 (1) / 3.62 (2)</td>
<td>3.94 (1) / 3.72 (2)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Unit Height mm</th>
<th>1,684</th>
<th>1,371</th>
<th>1,644</th>
<th>2,358</th>
<th>2,980</th>
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<tbody>
<tr>
<td>Weight</td>
<td>Unit kg</td>
<td>264</td>
<td>317</td>
<td>397</td>
<td>571</td>
<td>730</td>
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<tr>
<td>Operation weight</td>
<td>kg</td>
<td>267</td>
<td>320</td>
<td>401</td>
<td>577</td>
<td>738</td>
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<thead>
<tr>
<th>Water heat exchanger</th>
<th>Type Brazed plate</th>
<th>57</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water volume</td>
<td>l</td>
<td>1.9</td>
</tr>
<tr>
<td>Water flow rate</td>
<td>Cooling Nom. l/min</td>
<td>50</td>
</tr>
<tr>
<td>Water pressure drop</td>
<td>Cooling Total kPa</td>
<td>20</td>
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<table>
<thead>
<tr>
<th>Compressor</th>
<th>Type Hermetically sealed scroll compressor</th>
<th>6</th>
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<tbody>
<tr>
<td>Quantity</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Fan</th>
<th>Type Axial</th>
<th>4</th>
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<tbody>
<tr>
<td>Quantity</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Air flow rate</td>
<td>Cooling Nom. m³/min</td>
<td>171</td>
</tr>
<tr>
<td>Sound power level</td>
<td>Cooling dB(A)</td>
<td>78</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Type / GWP R-410A / 2.0875</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td>Control</td>
<td>Electronic expansion valve</td>
<td>4</td>
</tr>
<tr>
<td>Circuits</td>
<td>Quantity 1</td>
<td>1</td>
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<table>
<thead>
<tr>
<th>Refrigerant charge</th>
<th>Per circuit kg</th>
<th>7.6</th>
<th>9.6</th>
<th>15.2</th>
<th>19.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per circuit</td>
<td>TCO Eq 15.9</td>
<td>20.0</td>
<td>31.7</td>
<td>40.1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water circuit</th>
<th>Piping connections diameter inch</th>
<th>1-1/4&quot; (female)</th>
<th>1-1/4&quot; (female)</th>
<th>2&quot; (female)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piping</td>
<td>inch 1-1/4&quot; (female)</td>
<td>1-1/2&quot; (female)</td>
<td>1-1/2&quot; (female)</td>
<td>1-1/2&quot; (female)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Unit</th>
<th>Maximum starting current A</th>
<th>0</th>
<th>77.7</th>
<th>78.7</th>
<th>88.7</th>
<th>99.8</th>
<th>101.9</th>
<th>120.7</th>
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<tbody>
<tr>
<td>Maximum running current A</td>
<td>22.2</td>
<td>25.3</td>
<td>26.4</td>
<td>35.2</td>
<td>47.4</td>
<td>49.6</td>
<td>67.2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Phase/Frequency/Voltage Hz/V</th>
<th>3N~/50/400</th>
</tr>
</thead>
</table>

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**Cooling only**

<table>
<thead>
<tr>
<th>EWAQ-BAWN/BAWP</th>
<th>016</th>
<th>021</th>
<th>025</th>
<th>032</th>
<th>040</th>
<th>050</th>
<th>064</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling capacity Nom. kW</td>
<td>17.4 (1) / 16.6 (2)</td>
<td>21.7 (1) / 20.7 (2)</td>
<td>25.8 (1) / 24.7 (2)</td>
<td>32.3 (1) / 30.9 (2)</td>
<td>43.4 (1) / 41.5 (2)</td>
<td>51.8 (1) / 49.7 (2)</td>
<td>64.5 (1) / 62.3 (2)</td>
</tr>
<tr>
<td>Power input Cooling Nom. kW</td>
<td>5.60 (1) / 5.80 (2)</td>
<td>7.25 (1) / 7.59 (2)</td>
<td>9.29 (1) / 9.74 (2)</td>
<td>10.0 (1) / 10.5 (2)</td>
<td>14.7 (1) / 15.4 (2)</td>
<td>18.8 (1) / 19.7 (2)</td>
<td>26.4 (1) / 27.4 (2)</td>
</tr>
</tbody>
</table>

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**Daikin Europe N.V.**

**Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)**

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- Cooling only EWAQ-BAWN/BAWP
  - 0.02 kW
  - 0.05 kW

- EER 3.11 (1) / 2.86 (2)
  - 2.99 (1) / 2.73 (2)
  - 2.78 (1) / 2.54 (2)

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  - 730

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  - Type Brazed plate
  - Water volume l
  - 1
  - 1.9
  - 2.9
  - 3.8
  - 5.7

- Water flow rate Cooling Nom. l/min
  - 50
  - 62
  - 74
  - 93
  - 124
  - 148
  - 185

- Water pressure drop Cooling Total kPa
  - 20
  - 30
  - 42
  - 30
  - 42
  - 30

- Air heat exchanger
  - Type Hi-XSS
  - Air flow rate Cooling Nom. m³/min
  - 171
  - 185
  - 233
  - 370
  - 466

- Sound power level Cooling Nom. dB(A)
  - 78
  - 80
  - 81
  - 83

- Operation range
  - Water side Cooling Min.–Max. °CDB
  - 5–20
  - 5–43

- Sound power level Cooling Nom. dB(A)
  - 78
  - 80
  - 81
  - 83

- Refrigerant
  - Type R-410A / 2.0875
  - GWP 2,087.5

- Compressor
  - Type Hermetically sealed scroll compressor
  - Quantity 1 2 3 4 6

- Fan
  - Type Axial
  - Quantity 1 2 4

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  - Electronic expansion valve
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  - 1-1/2" (female)
  - 2" (female)

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  - Phase/Frequency/Voltage Hz/V
  - 3N~/50/400

---

(1) EWAQ-BAWN: Standard version (2) EWAQ-BAWP: Version with pump
Condition Ta 35°C - LWE 7°C (Dt=5°C) | Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

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