EU Declaration of Conformity
Ecodesign
Manufacturer:

Johnson Controls Denmark ApS, SABROE Factory
Christian X's Vej 201, 8270 Højbjerg, Denmark
Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2015/1095 for low (-25°C) and medium (-8°C) temperatures and CR 2016/2281 for high temperatures (+7°C).

The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation.

Water/Brine pumps are fictive and not included in the delivery. Pump power is according to EN 14511-3, Annex H.3.

Value tolerances for selection tools comply with EN 12900.

Capacity control is variable.

Degradation coefficient Cc = 0.9

Unit: ChillPAC28V-A
Refrigerant: R717
Compressor: CMD 28 V
Evaporator: ESRE 700451
Condenser: CRRE 700321
GWP = 0

<table>
<thead>
<tr>
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<th>PLoad</th>
<th>DPower</th>
<th>Ti_evap</th>
<th>To_evap</th>
<th>F1_evap</th>
<th>PP_evap</th>
<th>Ti_cond</th>
<th>To_cond</th>
<th>F1_cond</th>
<th>PP_cond</th>
<th>Motor</th>
<th>COP</th>
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<tbody>
<tr>
<td>[%]</td>
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<td>kw</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>eff.</td>
<td>incl. pump</td>
</tr>
<tr>
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<td>12.0</td>
<td>7.0</td>
<td>31.37</td>
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<td>9.0</td>
<td>14.0</td>
<td>33.61</td>
<td>0.510</td>
<td>0.947</td>
</tr>
</tbody>
</table>

COP(SEPR) = 9.30
COP(SEPR LEGAL LIMIT) = 5.85
ANNUAL ELECTRICITY CONSUMPTION = 1822360.14 kWh/Year

Torben P. Hansen
Signed for and on behalf of
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Ecodesign
Manufacturer:

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Capacity control is variable.
Degradation coefficient \( C_c = 0.9 \)

Unit: ChillPAC28V-C
Refrigerant: R717
Compressor: CMO 28 V
Evaporator: ESRE 700401
Condenser: CRCR 7000021
\( G_{\text{w}} = 0 \)

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<th>( T_{\text{evap}} )</th>
<th>( T_{\text{To_evap}} )</th>
<th>( F_{\text{evap}} )</th>
<th>( P_{\text{evap}} )</th>
<th>( T_{\text{cond}} )</th>
<th>( T_{\text{To_cond}} )</th>
<th>( F_{\text{cond}} )</th>
<th>( P_{\text{cond}} )</th>
<th>Motor</th>
<th>COP</th>
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<tbody>
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<td>24.62</td>
<td>0.375</td>
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<td>-8.0</td>
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<td>0.939</td>
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<td>13.87</td>
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<td>9.0</td>
<td>14.0</td>
<td>17.53</td>
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<td>6.09</td>
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\[ \text{COP( SEPR) = 5.05} \]
\[ \text{COP( SEPR LEGAL LIMIT) = 2.57} \]
\[ \text{ANNUAL ELECTRICITY CONSUMPTION = 166634.09 kWh/Year} \]

Signed for and on behalf of

Torben P. Hansen
EU Declaration of Conformity
Ecodesign
Manufacturer: Johnson Controls Denmark ApS, SABROE Factory
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Value tolerances for selection tools comply with EN 12900.
Capacity control is variable.
Degradation coefficient Cc = 0.9

<table>
<thead>
<tr>
<th>Unit</th>
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</thead>
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<tr>
<td>Compressor:</td>
<td>SMC 112LV</td>
<td></td>
</tr>
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<td>Evaporator:</td>
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<th>DPower</th>
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<th>To_evap</th>
<th>Fl_evap</th>
<th>PP_evap</th>
<th>Ti_cond</th>
<th>To_cond</th>
<th>Fl_cond</th>
<th>PPCond</th>
<th>Motor</th>
<th>COP</th>
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<tbody>
<tr>
<td>%</td>
<td>kW</td>
<td>kW</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>eff.</td>
<td>incl. pump</td>
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<tr>
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<td>28.0</td>
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<td>153.72</td>
<td>0.683</td>
<td>0.952</td>
<td>12.61</td>
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</table>

COP(SEPR) = 9.40
COP(SEPR LEGAL LIMIT) = 6.75
ANNUAL ELECTRICITY CONSUMPTION = 837414.44 kWh/Year

Signed for and on behalf of

Torben P. Hansen
EU Declaration of Conformity

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Water/Brine pumps are fictive and not included in the delivery. Pump power is according to EN 14511-3, Annex H.3.

Value tolerances for selection tools comply with EN 12900.

Capacity control is variable.

Degradation coefficient CC = 0.9

Unit: ChillPAC112LV-C
Refrigerant: R717
Compressor: SMC 112LV
Evaporator: ESRE 701801
Condenser: CRRE 700711
GWP = 0

| Load | P_load | D_Power | Ti_evap | To_evap | Fl_evap | PP_evap | Ti_cond | To_cond | Fl_cond | PP_cond | Motor | COP
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[%]</td>
<td>kW</td>
<td>kw</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>eff.</td>
<td>incl. pump</td>
</tr>
<tr>
<td>[A]</td>
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<td>-8.0</td>
<td>82.17</td>
<td>0.445</td>
<td>30.0</td>
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<td>0.704</td>
<td>0.952</td>
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<td>[B]</td>
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<td>75.00</td>
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<td>102.85</td>
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<td>14.0</td>
<td>82.50</td>
<td>0.628</td>
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</table>

COP(SEPR) = 5.00
COP(SEPR LEGAL LIMIT) = 3.42
ANNUAL ELECTRICITY CONSUMPTION = 783965.19 kWh/Year

Signed for and on behalf of

Torben P. Hansen

---------------------
**EU Declaration of Conformity**

**Ecodesign**

**Manufacturer:**

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Capacity control is variable.  
Degradation coefficient Cc = 0,9

<table>
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<tr>
<th>Unit:</th>
<th>ComPAC-151LR-A</th>
<th>Refrigerant:</th>
<th>R717</th>
<th>Compressor:</th>
<th>SAB 151LR</th>
<th>Evaporator:</th>
<th>ESRE 701901</th>
<th>Condenser:</th>
<th>CARE 701251</th>
<th>GnP = 0</th>
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<td>DPower</td>
<td>Ti_evap</td>
<td>To_evap</td>
<td>Fl_evap</td>
<td>PP_evap</td>
<td>Ti_cond</td>
<td>To_cond</td>
<td>Fl_cond</td>
<td>PP_cond</td>
</tr>
<tr>
<td>%</td>
<td>kW</td>
<td>kW</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
</tr>
<tr>
<td>[A]</td>
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<td>181.81</td>
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<td>138.73</td>
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<td>138.41</td>
<td>0.596</td>
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<td>21.0</td>
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</table>

| COP(SEPR LEGAL LIMIT) | 8.02 |
| ANNUAL ELECTRICITY CONSUMPTION | 861452.50 kWh/Year |

Torben P. Hansen  
[Signature]

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Ecodesign
Manufacturer:

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Value tolerances for selection tools comply with EN 12900.
Capacity control is variable.
Degradation coefficient $C_c = 0.9$

Unit: ComPAC-151LR-C
Refrigerant: R717
Compressor: SAB 151LR
Evaporator: ESRE 701801
Condenser: CRRE 700631
$G_W = 0$

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<th>$T_{cond}$</th>
<th>$T_{evap}$</th>
<th>$P_{cond}$</th>
<th>$P_{evap}$</th>
<th>Motor</th>
<th>COP</th>
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</thead>
<tbody>
<tr>
<td>[A] 100</td>
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<td>-8.0</td>
<td>79.90</td>
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<td>[B] 93.476.00</td>
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<td>-8.0</td>
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<td>14.0</td>
<td>80.16</td>
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</table>

**COP(SEPR) = 4.68**
**COP(SEPR LEGAL LIMIT) = 3.42**
**ANNUAL ELECTRICITY CONSUMPTION = 829201.38 kwh/Year**

Torben P. Hansen
Signed for and on behalf of
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Ecodesign
Manufacturer:
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Water/Brine pumps are fictive and not included in the delivery. Pump power is according to EN 14511-3, Annex H.3.
Value tolerances for selection tools comply with EN 12900.
Capacity control is variable.
Degradation coefficient Cc = 0,9

Unit: SAB 193L
Refrigerant: R717
Compressor: SAB 193LR
Evaporator: EFSM 740224
Condenser: CARE 702361
GWP = 0

<table>
<thead>
<tr>
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<th>PLoad</th>
<th>DPower</th>
<th>Ti_evap</th>
<th>To_evap</th>
<th>Fl_evap</th>
<th>PP_evap</th>
<th>Ti_cond</th>
<th>To_cond</th>
<th>Fl_cond</th>
<th>PP_cond</th>
<th>Motor</th>
<th>COP</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>kW</td>
<td>kw</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m3/h</td>
<td>eff.</td>
<td>eff. incl. pump</td>
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<td>0.730</td>
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<td>6.29</td>
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<tr>
<td>[C] 87</td>
<td>254.79</td>
<td>136.88</td>
<td>12.0</td>
<td>7.0</td>
<td>232.61</td>
<td>0.653</td>
<td>16.0</td>
<td>21.0</td>
<td>238.45</td>
<td>0.708</td>
<td>0.959</td>
<td>8.79</td>
</tr>
<tr>
<td>[D] 80</td>
<td>151.41</td>
<td>83.11</td>
<td>12.0</td>
<td>7.0</td>
<td>209.99</td>
<td>0.626</td>
<td>9.0</td>
<td>14.0</td>
<td>211.18</td>
<td>0.678</td>
<td>0.959</td>
<td>13.29</td>
</tr>
</tbody>
</table>

COP(SEPR) = 9.77
COP(SEPR LEGAL LIMIT) = 6.75
ANNUAL ELECTRICITY CONSUMPTION = 1105002.38 kWh/Year

Torben P. Hansen
Signed for and on behalf of
**EU Declaration of Conformity**

**Ecodesign**

**Manufacturer:**

Johnson Controls Denmark ApS, SABROE Factory  
Christian X's Vej 201, 8270 Højbjer, Denmark  
Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2015/1095 for low (-25°C) and medium (-8°C) temperatures and CR 2016/2281 for high temperatures (+7°C).

The harmonized standards EN 14511 series and EN 14025 have been used for testing and calculation.

Water/Brine pumps are fictive and not included in the delivery. Pump power is according to EN 14511-3, Annex H.3.

Value tolerances for selection tools comply with EN 12900.

Capacity control is variable.

Degradation coefficient $C_c = 0,9$

**Unit:** ComPAC-193LR-C  
**Refrigerant:** R717  
**Compressor:** SAB 193LR  
**Evaporator:** ESRE 702801  
**Condenser:** CRCRE 701801  
**GWP = 0**

<table>
<thead>
<tr>
<th>Load</th>
<th>$P_{Load}$</th>
<th>$P_{Power}$</th>
<th>$Ti_{evap}$</th>
<th>$To_{evap}$</th>
<th>$F1_{evap}$</th>
<th>$PP_{evap}$</th>
<th>$Ti_{cond}$</th>
<th>$To_{cond}$</th>
<th>$F1_{cond}$</th>
<th>$PP_{cond}$</th>
<th>Motor</th>
<th>COP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% $kW$</td>
<td>kW</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m³/h</td>
<td>eff.</td>
<td>deg.C</td>
<td>deg.C</td>
<td>m³/h</td>
<td>eff.</td>
<td>eff.</td>
<td>incl. pump</td>
</tr>
<tr>
<td>[A] 100</td>
<td>794.49</td>
<td>258.19</td>
<td>-2.0</td>
<td>-8.0</td>
<td>123.43</td>
<td>0.511</td>
<td>30.0</td>
<td>35.0</td>
<td>161.90</td>
<td>0.733</td>
<td>0.959</td>
<td>2.05</td>
</tr>
<tr>
<td>[B] 93</td>
<td>732.79</td>
<td>197.59</td>
<td>-2.0</td>
<td>-8.0</td>
<td>114.58</td>
<td>0.476</td>
<td>23.0</td>
<td>28.0</td>
<td>147.48</td>
<td>0.711</td>
<td>0.959</td>
<td>3.56</td>
</tr>
<tr>
<td>[C] 87</td>
<td>685.41</td>
<td>149.82</td>
<td>-2.0</td>
<td>-8.0</td>
<td>106.45</td>
<td>0.451</td>
<td>16.0</td>
<td>21.0</td>
<td>136.37</td>
<td>0.694</td>
<td>0.959</td>
<td>4.39</td>
</tr>
<tr>
<td>[D] 80</td>
<td>628.96</td>
<td>105.55</td>
<td>-2.0</td>
<td>-8.0</td>
<td>98.65</td>
<td>0.424</td>
<td>9.0</td>
<td>14.0</td>
<td>123.34</td>
<td>0.671</td>
<td>0.959</td>
<td>5.71</td>
</tr>
</tbody>
</table>

**COP(SEPR) =** 4.72

**ANNUAL ELECTRICITY CONSUMPTION =**

| 1247696.50 | kWh/Year |

**Signed for and on behalf of**

Torben P. Hansen
EU Declaration of Conformity
Ecodesign
Manufacturer:
Johnson Controls Denmark ApS, SABROE Factory
Christian X's Vej 201, 8270 Højbjerg, Denmark
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We hereby declare under our sole responsibility that the assembly cited below is according to CR 2016/2281 for comfort water chillers driven by compressor with electric motor. The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation.

Water pumps are fictive and not included in the delivery.
Electric pump power is according to EN 14511-3, Annex H.3. and included in the SEER calculation.
Electrical conversion coefficient = 2,5
and degradation for temperature control = 3%
Degradation coefficient Cdc = 0,9
Value tolerances for selection tools comply with EN 12900.
Capacity control is variable.
Sound power Level to be found in operating manual for the chiller.
Specific EER and eta_S,C are included in the operating manual.
Oil reservoir and crankcase heater: 0,500 kW
Low temperature application used as standard rating condition (+12/+7 deg.C)

Unit: ChillPAC28V-A
Refrigerant: R717
Compressor: CMS 28 V
Evaporator: ESRE 700451
Condenser: CRRE 700321
GWP = 0

<table>
<thead>
<tr>
<th>Tj</th>
<th>Pdc</th>
<th>EERd</th>
</tr>
</thead>
<tbody>
<tr>
<td>deg.C</td>
<td>kW</td>
<td>%</td>
</tr>
<tr>
<td>35.0</td>
<td>228.56</td>
<td>4.74</td>
</tr>
<tr>
<td>30.0</td>
<td>168.32</td>
<td>5.96</td>
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<td>25.0</td>
<td>105.93</td>
<td>7.08</td>
</tr>
<tr>
<td>20.0</td>
<td>46.18</td>
<td>6.77</td>
</tr>
</tbody>
</table>

Prated,c (kW) = 228.56
Eta_s,c (actual %) = 252.
Eta_s,c (legal %) = 196.

Torben P. Hansen
Signed for and on behalf of
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We hereby declare under our sole responsibility that the assembly cited below is in accordance to CR 2016/2281 for comfort water chillers driven by compressor with electric motor.

The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation.

Water pumps are fictive and not included in the delivery.

Electric pump power is according to EN 14511-3, Annex H.3. and included in the SEER calculation.

Electrical conversion coefficient = 2,5

Degradation coefficient temperature control = 3%
Degradation coefficient Cdc = 0,9

Value tolerances for selection tools comply with EN 12000.

Capacity control is variable.

Sound power level to be found in operating manual for the chiller.

Specific EER and eta_5,C are included in the operating manual.

Oil reservoir and crankcase heater: 0,500 kW

Low temperature application used as standard rating condition (+12/+7 deg.C)

Unit: ChillPAC112LV-A
Refrigerant: R717
Compressor: SMC 112LV
Evaporator: ESRE 702121
Condenser: CRRE 701321

GWP = 0

<table>
<thead>
<tr>
<th>Tj deg.C</th>
<th>Pdc kW</th>
<th>EERd %</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.0</td>
<td>060.96</td>
<td>5.01</td>
</tr>
<tr>
<td>30.0</td>
<td>781.32</td>
<td>6.06</td>
</tr>
<tr>
<td>25.0</td>
<td>487.78</td>
<td>7.90</td>
</tr>
<tr>
<td>20.0</td>
<td>211.05</td>
<td>8.07</td>
</tr>
</tbody>
</table>

Prated,c (kW) = 060.96

Eta_s,c (actual %) = 279.

Eta_s,c (legal %) = 227.

Torben P. Hansen
Signed for and on behalf of
EU Declaration of Conformity
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Tel +45 87 36 70 00 Fax +45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2016/2283 for comfort water chillers driven by compressor with electric motor. The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation.
Water pumps are fictive and not included in the delivery.
Electric pump power is according to EN 14511-3, Annex H.3, and included in the SEER calculation.
Electrical conversion coefficient = 2,5
and degradation for temperature control = 3%
Degradation coefficient Cdc = 0,9
Value tolerances for selection tools comply with EN 12900.
Capacity control is variable.
Sound power level to be found in operating manual for the chiller.
Specific EER and eta_s,C are included in the operating manual.
Oil reservoir and crankcase heater: 0,500 kW
Low temperature application used as standard rating condition (+12/+7 deg.C)

<table>
<thead>
<tr>
<th>Unit:</th>
<th>ComPAC-151LR-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant:</td>
<td>R717</td>
</tr>
<tr>
<td>Compressor:</td>
<td>SAB 151LR</td>
</tr>
<tr>
<td>Evaporator:</td>
<td>ESRE 701901</td>
</tr>
<tr>
<td>Condenser:</td>
<td>CRRE 701251</td>
</tr>
</tbody>
</table>

| GWP = 0 |

<table>
<thead>
<tr>
<th>Tj (deg.C)</th>
<th>Pdc (KW)</th>
<th>EERd (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.0</td>
<td>927.48</td>
<td>4.65</td>
</tr>
<tr>
<td>30.0</td>
<td>683.98</td>
<td>5.55</td>
</tr>
<tr>
<td>25.0</td>
<td>433.09</td>
<td>6.68</td>
</tr>
<tr>
<td>20.0</td>
<td>247.49</td>
<td>6.78</td>
</tr>
</tbody>
</table>

\[
Prated,\text{c} (KW) = 927.48 \\
E\text{ta}_{s,c} (actual \%) = 242. \\
E\text{ta}_{s,c} (legal \%) = 227. \\
\]

Torben P. Hansen
Signed for and on behalf of
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Ecodesign
Manufacturer:
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Christian X’s Vej 201, 8270 Højbjerg, Denmark
Tel 45 87 36 70 00 Fax 45 87 36 70 05

We hereby declare under our sole responsibility that the assembly cited below is according to CR 2016/2281 for comfort water chillers driven by compressor with electric motor.
The harmonized standards EN 14511 series and EN 14825 have been used for testing and calculation.
Water pumps are fictive and not included in the delivery.
Electric pump power is according to EN 14511-3, Annex H.3. and included in the SEER calculation.
Electrical conversion coefficient = 2,5
and degradation for temperature control = 3%
Degradation coefficient Cdc = 0.9
Value tolerances for selection tools comply with EN 12900.
Capacity control is variable.
Sound power level to be found in operating manual for the chiller.
Specific EER and eta_s,C are included in the operating manual.
Oil reservoir and crankcase heater: 0,500 kW
Low temperature application used as standard rating condition (+12/7 deg.C)

Unit: ComPAC-193LR-A
Compressor: SAB 193LR
Evaporator: EPHS 7/54#H
Condenser: CREE 702361
Gnp = 0

<table>
<thead>
<tr>
<th>Tj (deg.C)</th>
<th>Pdc (kw)</th>
<th>EERd (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.0</td>
<td>455.06</td>
<td>4.99</td>
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<tr>
<td>30.0</td>
<td>467.70</td>
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<td>25.0</td>
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<td>7.18</td>
</tr>
<tr>
<td>20.0</td>
<td>433.67</td>
<td>7.25</td>
</tr>
</tbody>
</table>

Prated,c (kw) = 455.06
Etha_s,C (actual %) = 265.
Etha_s,C (legal %) = 227.

Torben P. Hansen
Signed for and on behalf of