SPECIFICATION which must be met:

OUTLET - Cooling water for Scavenge air cooler
- Cooling water volume flow: according to GTD specification, adjusted by orifice in outlet pipe on plant side.

OUTLET - Cylinder cooling water air venting
- To be vented outside of engine room.

INLET - Cylinder cooling water
- Cooling water pressure: 4.0 - 5.0 bar
- Cooling water volume flow: according to GTD specification
- Cooling water (freshwater) has to be treated according to WinGD specification.
- A buffer unit must be installed.
- The static pressure at engine inlet must be adjusted by buffer unit pressure setting.

OUTLET - Cylinder cooling water
- Cooling water temperature
  - Controller set-point: 80 °C
  - Steady state condition: 80 ± 2 °C
  - Transient condition: 80 ± 4 °C

INLET - Cooling water for Scavenge air cooler
- Cooling water pressure: 2.0 - 4.0 bar
- Cooling water temperature: controller set point: 25 °C, max. 36 °C when seawater temperature at 32 °C.
- Cooling water volume flow: according to GTD specification
- Cooling water (freshwater) has to be treated according to WinGD specification.

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X92DF

FREE END

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107.245.419.500 EXPANSION TANK 107.245.419 0.001
107.245.626.500 BUFFER 107.245.626 0.001


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CENTRAL COOLING WATER SYSTEM
Zentralkuehlwassersystem

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Units: mm kg nx Basic Material
NX: 0.0005 Weight: 0.001

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Specifications:
- Compressed air supply from control air valve, DN150 with blank flange.
- Safety and relief valve adjustment 5.3 bar, DN150 with blank flange.
- Level alarm high, with blank flange.
- Level alarm low, with blank flange.
- Feed, DN50 with blank flange.
- Flanges for level indicator.
- Valve for level indicator, self-closing type.
- Service temperature: max. 95°C.
- Tank volume between LSH and LSL shall be no less than 150 litres.

Connections:
- 01 Compressed air supply from control air valve, DN150 with blank flange.
- 02 Pressure indicator, DN50 with blank flange.
- 03 Safety and relief valve adjustment 5.3 bar, DN150 with blank flange.
- 04 Level alarm high, with blank flange.
- 05 Level alarm low, with blank flange.
- 06 Compensation, DN50 with blank flange.
- 07 Drain, DN50 with blank flange.
- 08 Feed, DN50 with blank flange.
- 09 Flanges for level indicator.
- 10 Valve for level indicator, self-closing type.
- 12 Level indicator.
- 13 Level switch high, with blank flange.
- 14 Level switch low, with blank flange.

Working pressure: 5 bar.
Table 1: Tank dimensions

<table>
<thead>
<tr>
<th>LT tank capacity (m³)</th>
<th>W (mm)</th>
<th>X (mm)</th>
<th>Y (mm)</th>
<th>Z (mm)</th>
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<tr>
<td>0.5</td>
<td>800</td>
<td>800</td>
<td>330</td>
<td>640</td>
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<tr>
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</tr>
<tr>
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<td>800</td>
<td>1600</td>
<td>670</td>
<td>1280</td>
</tr>
<tr>
<td>1.25</td>
<td>1000</td>
<td>1250</td>
<td>530</td>
<td>1000</td>
</tr>
<tr>
<td>1.5</td>
<td>1000</td>
<td>1500</td>
<td>630</td>
<td>1200</td>
</tr>
<tr>
<td>1.75</td>
<td>1000</td>
<td>1750</td>
<td>730</td>
<td>1400</td>
</tr>
<tr>
<td>2.0</td>
<td>1000</td>
<td>2000</td>
<td>830</td>
<td>1600</td>
</tr>
</tbody>
</table>

Drawn for 0.75 m³ capacity

Remarks:
1) Level indicator can be omitted if an alternative is fitted.
2) Other designs like hinged covers, etc., are also possible.

- For required tank capacity and pipe diameters refer to drawing “Central cooling water system”
MIDS WinGD-X92DF_Cooling-Water-System (DG9721)

Track Changes

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<th>Date</th>
<th>Subject</th>
<th>Description</th>
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<td>Drawing Set</td>
<td>First web upload</td>
</tr>
<tr>
<td>2018-10-18</td>
<td>DAAD095643</td>
<td>System drg – new revision</td>
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<tr>
<td>2018-12-13</td>
<td>DAAD095802</td>
<td>Main and system drg – new revision</td>
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<tr>
<td>2019-08-29</td>
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<td>System drg – new revision</td>
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<tr>
<td>2020-09-02</td>
<td>107.245.419</td>
<td>System drg – new revision</td>
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