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.

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.

---

**Table: Expansion Tank and Buffer Characteristics**

<table>
<thead>
<tr>
<th>QTY</th>
<th>SEQ NO</th>
<th>Material ID</th>
<th>Material Name</th>
<th>Standard Material Standard</th>
<th>Weight (GR/NET)</th>
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<tr>
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<td>021</td>
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<td>BUFFER</td>
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**WIN GD**

**Surface Protection See Group 0144**

Tolerancing Principle ISO 8875

General Tolerances According to ISO 2768-mk

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**Central Cooling Water System**

Zentrumkuehlwassersystem
Tank Proposal

Connections for:

- Compressed air supply from control air valve, DN50 with blank flange
- Pressure indicator, DN25 with blank flange
- Safety and relief valve adjustment 5.5 bar, DN50 with blank flange
- Level alarm high, with blank flange
- Level alarm low, with blank flange
- Compensation, DN50 with blank flange
- Drain, DN50 with blank flange
- Feed, DN50 with blank flange
- Flanges for level indicator
- Valve for level indicator, self-closing type
- Level indicator
- Level switch high, with blank flange
- Level switch low, with blank flange

Working pressure: 5 bar

Wall thickness and test pressure: according to relevant classification society/rules

Service temperature: max. 95°C

** Tank volume between LSH and LSL shall be no less than 150 litres.
### Table 1: Tank dimensions

<table>
<thead>
<tr>
<th>IT tank capacity</th>
<th>W (mm)</th>
<th>X (mm)</th>
<th>Y (mm)</th>
<th>Z (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>800</td>
<td>800</td>
<td>330</td>
<td>640</td>
</tr>
<tr>
<td>0.75</td>
<td>800</td>
<td>1200</td>
<td>500</td>
<td>960</td>
</tr>
<tr>
<td>1.0</td>
<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>1480</td>
</tr>
<tr>
<td>2.0</td>
<td>1000</td>
<td>2000</td>
<td>830</td>
<td>1600</td>
</tr>
</tbody>
</table>

Remark:
- Level indicator can be omitted if an alternative is fitted.
- 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)

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**TRACK CHANGES**

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