HAD
High efficient separator
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Our WIIT HAD is a unique, high efficiency separator, that allows you increase the refrigerant charge in the existing separator to a maximum. The HAD is ideally suited to the expansion of existing systems or wherever an absolutely dry return line is required (also at dry expansion systems). The installation can usually be integrated in the existing piping layout without great effort.

Easy handling
Positioning the HAD is flexible and offers a compact, space-saving solution that is easily installed and good to insulate.

Economical
No need for expensive expansion of the machinery room size, when using conventional surge drum systems. The increased compressor efficiency leads to an improved (minimised) operational expenditure.

Technically mature
Take advantage of our long-term experience. We guarantee a complete and reliable separation.

Compact
Retrofitting additional capacity into existing systems is mostly not possible due to space restrictions. The HAD fits in restricted rooms and takes care of reliable refrigerant separation, keeping the suction line absolutely dry. A dry suction line is essential to avoid liquid hammer. Furthermore an optimum performance of the dry suction line will increase the efficiency and lifetime of compressors.

Scope of supply
• HAD-vessel in steel, manufactured per AD2000 and PED Module H1
• Connection for pump return line, inlet
• Connection for suction gas, outlet
• Connection for condensate, outlet
• Connection DN25, reserve
• 2 mounting brackets, U-profile
• Top mounting lugs

* Refrigerant: NH₃, T₀ = -10 °C, Tₐ = +35 °C  ** Refrigerant: NH₃, T₀ = -40 °C, Tₐ = +35 °C

<table>
<thead>
<tr>
<th>HAD 250</th>
<th>HAD 400</th>
<th>HAD 550</th>
</tr>
</thead>
<tbody>
<tr>
<td>capacity *</td>
<td>650</td>
<td>1400</td>
</tr>
<tr>
<td>[kW]</td>
<td>320</td>
<td>690</td>
</tr>
<tr>
<td>diameter [mm]</td>
<td>250</td>
<td>400</td>
</tr>
<tr>
<td>height [mm]</td>
<td>1520</td>
<td>1780</td>
</tr>
<tr>
<td>connection DN [bar]</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>weight [kg]</td>
<td>90</td>
<td>200</td>
</tr>
</tbody>
</table>

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High-quality refrigeration components

- **HRP** Hermetic refrigerant pumps
- **GP** Open refrigerant pumps
- **HR & HS** High side float regulators
- **WP3HR** High side float regulators for heat pumps up to 65 bar
- **ECO** Economizer
- **BDP** Automatic oil recovery
- **NGX** Maximum level switch
- **HDB 3** Stainless steel oil drain vessel
- **HAD** High efficient separator
- **Pumping stations**
- **SAV** Standard-separator-evaporator-unit
- **DB** Pressure vessel units
- **NH₃/CO₂** Cascades