Shell and Tube Heat Exchanger
C - Series
Introduction:
- Dry All has launched Dry All-ONDA Shell and Tube heat exchangers, used as condensers.
- Recommended for use with all refrigerants provided they are compatible with the material used for construction.
- The dimensional data present in this catalogue have to be taken as purely Indicative, since they are subjected to manufacturing tolerances.

Materials:
The standard construction of these condensers consists of the following materials:
- Cast iron or carbon steel for headers
- Copper for Heat exchanger tubes
- Carbon steel for tube-sheets, shell, support baffles and refrigerant connections
- Rubber or asbestos free gaskets
- Alloys steel bolts and nuts

Different versions with special materials are also available, as for example:
- Stainless steel AISI 316L and CuNi 90/10 Heat exchanger tubes
- Stainless steel AISI 316L shell
- Stainless steel AISI 316L, CuNi cladded or titanium cladded tube-sheets
Technical Specification:

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Capacity (TR)</th>
<th>No.of Passes</th>
<th>Length mm</th>
<th>Dia. Shell mm</th>
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<tr>
<td>2</td>
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<td>4</td>
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<tr>
<td>9</td>
<td>33.8</td>
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</table>

*Capacity Chart is based on testing with R134a Refrigerant

At Standard Conditions:
- Water Inlet temp. 30°C
- Water Outlet temp. 35°C
- Condensing temp. 40°C
- Sub cooling 3K
- Fouling Factor 0.000043 k/w

Note:
- In standard conditions, Dry All-ONDA have “C” Series shell & tube condensers have a heat capacity from 2 TR to 34 TR.
- Customized versions are available as per customer specification.
- The higher capacity up to 2 MW is available against order.

Key Application:
The main applications of “C” series Shell & Tubes condensers are the condensation of refrigerant gas in the air conditioning and refrigeration plants, and heat recovery. Used in following HVAC&R Systems.

- Water Source Heat Pump
- Heat Recovery
- HVAC&R
- Water Coolers
- Swimming Pool
- Chillers
- Cascade heat Exchanger in Multistage Refrigeration system

Engineering Support:
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