

Carpe Heat Transfer Private Limited

Your Partners in Heat Transfer and Heat Exchanger Technology

An ISO 9001 : 2008 Certified Company



Carpe's Air Cooled Condensers

Carpe Air Cooled Condenser features long-term mechanical and thermal integrity, excellent corrosion resistance, reliable operation and low maintenance, with highly efficient automatic fin cleaning system. Air Cooled Steam Condenser is required to condense the exhaust steam from the turbine into the condensate at constant pressure and temperature and required to maintain the backpressure at the turbine exhaust. The typical scope for an ACC installation includes the Tube Bundles, Supporting Structure, Steam ducting from the Steam Turbine, Auxiliaries like Condensate & Hotwell Tank, Condensate & Drain Pumps, Air Evacuation Units (Steam Jet Air Ejector or Vacuum Pumps) and related piping works and Instrumentation. Carpe Offers Air Cooled Steam Condensers with following characteristics: (a) Layout Flexibility (b) Strong Anti-Freezing Capability (c) System Modular Design,

which are designed, selected and optimised suitably to client's requirement with lowest capital expense & better pay back.

Carpe's basically offer two design technology for ACC :

Multi Row Finned Tube Technology :

Multi Rows Finned Tube Technology consists of multi row mainly 4 rows of tubes, and we used a row of tube to extract non-condensable gas and remainder steam. We can ensure to keep certain degree of vacuum and keep the working efficiency of the turbine. Multi Row Tube Bundles construction is rigid in nature i.e. tube nest, with self-supporting structure with C frame, Tube sheet and tube supports and associated structure. Tube bundle are with circular finned tubes. Finned surfaces of aluminium over Carbon steel tubes SA214/SA179.

Single Row Tube Technology for ACC :

The Single Row Tube Air Cooled Steam Condenser exchanger tube consists of flat steel tube, stainless steel aluminized on the outer surface, double-corrugated aluminium fin, permanently brazed to both sides of the flat sides of the tube. These finned heat exchanger tubes are robust and able to withstand the forces caused by the high pressure water jet during condenser surface cleaning.

Single Row Flat Tube yields best available performance in respect to

- eliminated air pockets
- low air side pressure drop
- good heat transfer co-efficient
- sharply reduced tube bundle weight
- easy to clean
- extremely good corrosion resistant.



EXTRUDED TYPE



ELLIPTICAL FINNED TYPE



SINGLE ROW TYPE



LL TYPE



G TYPE



L TYPE



KL TYPE



EXTRUDED FINNED TYPE

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