

Finned Tube Heat Exchanger Applications

All our Heat Exchangers are customized for each client's needs, thus providing the ability to service nearly every air cooler application. Our air coolers are installed throughout the world in the following applications:

- Hydrocarbon process and steam condensers
- Large engine radiators
- Turbine lube oil coolers
- Turbine intercoolers
- Natural gas and vapor coolers
- Combustion pre-heaters
- Flue gas re-heaters

Plate-fin heat exchanger is one of the most efficient compact heat exchanger. The gaps between constitute a fluid layer. A core is made of a great number of layers. The exchanger can be made of one or more cores. The number of plate and fin layers, the size of the plates and fin, the height of the fin and the type of fin are engineered for optimum performance. The core is assembled (stacked) and typically held together by tack welding a weld rod to the top and bottom layer of the core.

The stacked core is then placed within a fixture that exerts force on the individual pieces to keep them in contact. The part is then vacuum brazed in an environmentally-controlled room to ensure high quality and reliability. After brazing the core is typically heat treated or aged in order to increase its strength. Manifold ducting and mounting brackets are then welded in place as required, and any required paint or coating can be added.

Plate-fin heat exchangers can be designed for use with any combination of gas, liquid, and two-phase fluids.