



# SPECIAL COOLERS FOR INDUSTRIAL RADIATORS

## OIL COOLERS



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We have been an OEM supplier of Fin Tubes and Turbulators to the Industry for the last seven years. Given that wire wound fin tubes are the most efficient for oil cooler applications, we started manufacturing three years ago, complete Coolers from the same fin tubes. These coolers are manufactured as per our customer requirements/drawings. Depending on the application, turbulators are also used in these coolers. The variation in loop density of the turbulator facilitates oils of high viscosities to be cooled within allowable pressure drop limits.

To design a cooler for you, all we need is the design data given below:

- a) Heat Rejection
- b) Flow rate
- c) Process fluid Inlet/Outlet Temperature
- d) Air Temperature
- e) Air Velocity
- f) Allowable Pressure Drop for Process fluid.
- g) Allowable Pressure Drop for Air
- h) Size limitations – If any.

## RIGID TURBULATORS GENERALLY USED IN WIRE WOUND FIN TUBES SPECIALLY IN OIL COOLERS



In this type of a turbulator, Wire fins are soldered to a solid center rod. The turbulator is then soldered to the inner surface of the tubes. These "Turbulated Tubes" then can be finned on the outside using any desired type of fins like Wire Wound, Crimped, L, LL, KL etc. Needless to say the soldering of the turbulator and the tubes provides a superior bond giving in turn a larger tube side heat transfer area in addition to turbulation.

These Turbulators increase the overall heat transfer co-efficient of the Tubes. They are highly efficient in cooling oil at High pressure which substantially reduces the overall length of the cooler.

### Application:

Fin Tubes with these Turbulators are mainly used for Oil coolers in Mobile Equipments like Concrete Transit Mixers, Concrete Pumps, Cranes, Harvesters, Grain Handlers, Off-Road & Construction Machines etc.

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