

FLUE GAS COOLERS

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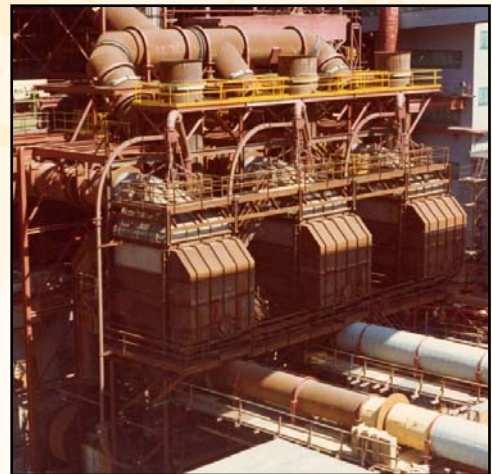
Thermal Transfer gas coolers find the widest application in the area of environmental control, where hot dirty emissions from industrial processes must be cooled for entry into pollution control equipment. Most of our coolers employ ambient air as the cooling medium, although water-cooled units are furnished as well. A prime consideration in the design of all Thermal Transfer coolers is the necessity for keeping the heat transfer surfaces clean: arrangements are largely selected to allow continuous *in situ* cleaning utilizing soot blowers, shot or chain cleaning systems. Combined cleaning methods can be used for especially heavy carryover situations.



A typical gas cooler is designed with the hot flue gas flowing vertically down over the outside of horizontal tubes, while cooling air passes inside the tubes. A large volume of cooling air is usually provided by multiple vane axial or panel fans mounted on the side of the cooler. A complete system is normally supplied including tube bundles, outer shells, cooling fans, ducts, hoppers, structural supports, walkways, etc. Other cooler arrangements and orientations are also available including designs with the hot flue gas passing inside the tubes.

Applications for gas coolers include the following:

- Electric arc furnaces
- Annealing furnaces
- Smelting furnaces
- Roasting furnaces
- Glass melting furnaces
- Cement kilns
- Steel furnaces
- Ferroalloy furnaces



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