

## Air - coolers

One of the most important equipment used in refineries, petrochemical plants, gas compressor stations, and other industries are air coolers which reduce flowing fluid temperature by blowing air onto the finned tubes. This fluid may be natural gas, petroleum liquids, or water. Air coolers especially their headers require high - tech and are designed and fabricated in induced I forced draft as per TEMA,ASME, and API-661.

Following features are considered in air coolers:

Auto variable louvers to control outlet temperature

Steam coils to prevent fluids from freezing in cold climate

Auto variable pitch fans Variable speed drive systems Control valve systems

### Samples of Air Coolers Made by Machine SaziArak (MSA)

South Pars Project- Phase 1: 16 units weighing 748 tons

South Pars Project- Phase 4 & 5: 78 units

South Pars Project- Phase 14: 52 units weighing 3200 tons

Yasouj Gas Compressor Station:

69 units of S1 & S2 tube bundles with a design pressure of 91 barg weighing 1100 tons

NIOC Project: 18 units of tube bundle with a design pressure of 150 psi weighing 36 tons

4 Lavan Project: 10 units of tube bundle with different design pressures ranging from 20 to 38.7 barg weighing 138 tons

Ramshir Project: 3 units of air coolers with a design pressure of 304 barg weighing 50 tons

4 Sarkhun Project: 1 unit of air cooler with a design pressure of 13.92 barg weighing 10 tons

Esfahan Mobarakeh Steel Company: 2 units of air coolers with a design pressure of 3 barg weighing 271tons

Arak Petrochemical Company: 1 unit of air cooler with a design pressure of 79.3 barg weighing 370 tons

Bandar Abbas Refinery: 16 units of tube bundles with a design pressure of 79.3 barg weighing 200 tons

Ilam Petrochemical Company:17 units of tube bundles with a design pressure of 30 barg weighing 500 tons

Shiraz Petrochemical Company (Lavan): 6 units of tube bundles weighing 56 tons

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