

Shell & Tube / Double Tube Heat Exchangers

Heat exchangers are considered as very important equipment in oil and gas and some other industries. Of their specific applications is heat-waste recovery in chemical processes by which heat transfer between fluids inside the tubes and shell is used for increasing or decreasing fluid temperatures in either normal or corrosive environments.

Heat exchangers made by Machine Sazi Arak (MSA) are mainly of shell & tube and double tube types. They are designed as per internationally recognized codes such as TEMA, ASME, API 660; further, advanced engineering software including HTRI, HTFS, ASPEN is used for thermal & mechanical analysis including thermal expansion and contraction, pressure drop, tube vibration, etc and FINGLOW, PV-ELITE, and MICRO PROTON for mechanical design. Employing advanced QC equipment, conducting various DT and NOT tests such as RT, UT, PT, and hydrostatic test has caused our company to export a remarkable number of these products to foreign countries. Materials used in fabrication of heat exchangers include CS, SS, Ti, alloy steel, and clad material. It should be noted that for highly corrosive services cladding of shell and tube side is possible as ordered by customers.

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