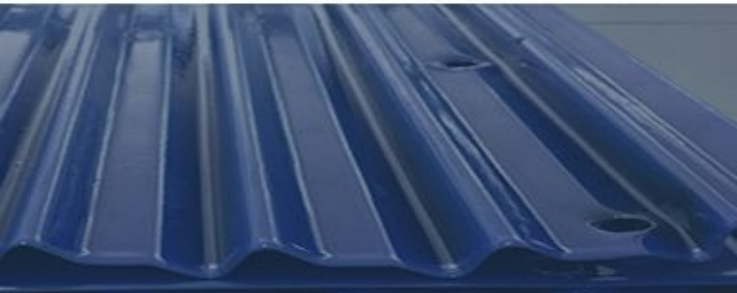


COLD LAYER BASKETS



HOT AND INTERMEDIATE LAYER BASKETS



PETRO EYESUN SANE CO.

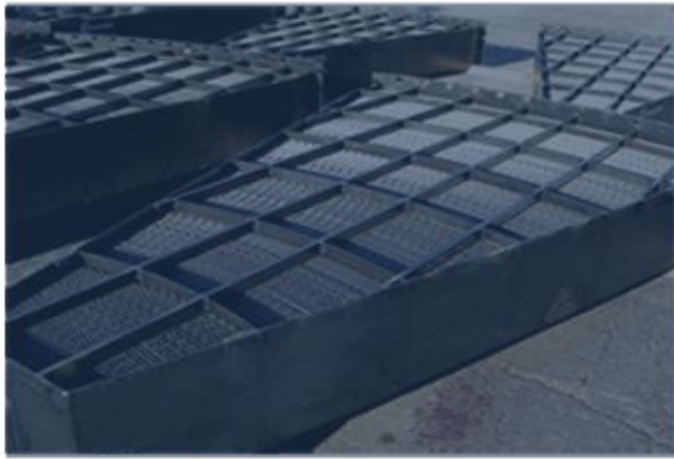
AIR PREHEATER BASKETS PRODUCTION

REPUTATION FOR QUALITY

After transferring great extent of energy content of flue gas in hot layer, cold layer baskets are the last stage where heat recovery happens. The flue gas coming out of the furnace is dust-laden containing acidic contaminants. As hot flue gas transfers heat to cold elements, it reaches the dew point and condensation of acidic exhaust gas occurs, making the environment aggressive and highly corrosive; Therefore the elements of cold layer baskets have to be more strengthened. Use of anti-acid enamels has been developed to cover the surface of elements, providing an insusceptible element and guaranteeing more durability. Low carbon steel sheets are cut in required size, coated with anti-acid enamel and fired in furnace to serve this purpose.

As the exhaust gas flows into the airpreheater, it meets the first layer of baskets that absorb great amount of heat from the flue gas. As the result the temperature of first layer rises more than the layers below. Flue gas drops in temperature but it doesn't reach its dew point. COR-TEN steel sheets are vastly used as the main material of the hot and intermediate Layer basket elements. Combination of favorable heat conductivity and reasonable mechanical properties ensures proper and durable function of air preheater.

Today PETRO EYESUN SANE Co is the largest manufacturer of air preheater baskets in Iran and with its full automatic line of production has executed orders for various large organizations including numerous power plants and refineries such as Besat power plant, Tabriz power plant, Sahand power plant, Montazeri power plant of Isfahan, etc. COR-TEN steel and enamels used in Air preheater baskets have the best quality and are of the very high standard. Other materials are also available upon request.



AIR PREHEATER ELEMNTS

Ljungström Boiler air preheater is a regenerative type of heat exchanger used mainly in thermal power plants, and preheats the intake air by resorting the heat of hot exhaust gas burned in boiler furnace. Notable amount of fuel and energy is saved throughout the world by using this kind of air preheater, making it requisite part of thermal power plants. It consists of compact corrugated metal sheets arranged in segments that form a circular section altogether. Each of these segments and their contained metal elements are called baskets. Ljungström air preheater usually has three layers: hot, intermediate and cold layer.

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