



Radiation

RECUPERATORS

EASTERN
recuperators.in

FOR HIGH TEMPERATURE AND DUSTY FLUE GASES

40+ Years Experience | 4500+ Installations Worldwide | 100% Custom Designed



Radiation Recuperators For High Temperature Furnaces. Reduce Fuel Costs With Waste Heat Recovery.

Double shell radiation recuperators are suitable for high temperature flue gases, especially with high dust content. Flue gas flows through the inner shell, unhindered and combustion air to be preheated passes in the annular space between the inner and outer shells. Heat transfer is through the wall, hot flue gas and clean combustion air are not mixed.

OUR RANGE

STANDARD SERIES

Suitable for furnaces using 15 to 1500 lit/hr oil, gas or equivalent. It is generally used for Forging Furnaces, Pot Melting Furnaces for Aluminium and Zinc and also for small Glass Melting Furnaces.

STACK SERIES

Designed to suit large furnaces, it is installed as a part of the chimney, suitable for Large Aluminium Melting Furnaces, Soaking Pits and Glass Furnaces.

TUBULAR RADIATION

This comprises of a tube bundle arranged cylindrically which hangs freely and forms the heat transferring surface with air passing through the tubes. It is best suited for high temperature glass furnaces and high dust applications.

COMBINED SERIES

This has the benefit of the standard series and the tubular recuperator for a high air preheat. It has a wide range of applications with dust laden flue gases in the temperature range of 700°C to 1300°C and hence adaptable to Aluminium and Non-Ferrous Metal Melting Furnaces and Forging Furnaces.

CERAMET SERIES

This combines the benefits of heat and corrosion resistance of ceramics and strengths of metal alloys. It is suitable for dust laden flue gasses upto 1500°C and suitable for glass melting furnaces, aluminium melting, forging and high temperature incineration.

ADVANTAGES

LONGER LIFE

HIGH FUEL SAVING UPTO 30%

CAN OPERATE WITH HIGH AIR PRESSURE

NEGLIGIBLE MAINTENANCE REQUIREMENT

SUITABLE FOR HIGH WASTE-GAS TEMPERATURES

NEGLIGIBLE PRESSURE DROPS ON WASTE GAS SIDE

PERFECT COMBUSTION AND HIGH FLAME TEMPERATURES

UNINTERRUPTED OPERATIONS EVEN WITH HIGH DUST LADEN FLUE GASES



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