

“Quality is the only way to maintain past, present and get new customers.”

Furnace

- Recover & utilize waste heat from furnace flue gas for preheating of combustion air. Every 210C rise in combustion air temperature results in 1% fuel oil savings.
- Control excess air in furnaces. A 10% drop in excess air amounts to 1% saving of fuel in furnaces. For an annual consumption of 3000 kl. of furnace oil. This means a saving of Rs 3 Lacs. (Cost of furnace oil-Rs. 10 per litre).
- Reduce heat losses through furnace openings. Observations show that a furnace operating at a temperature of 10000C having an open door (1500mm*750mm) results in a fuel loss of 10 lit/hr. For a 4000 hrs. furnace operation this translates into a loss of approx. Rs. 4 Lacs per year.
- Improve insulation if the surface temperature exceeds 200C above ambient. Studies have revealed that heat loss from a furnace wall 115mm thick at 6500C amounting to 2650 Kcal/m²/hr can be cut down to 850 kcal/m²/hr by using 65 mm thick insulation on the 115 mm wall.
- Proper design of lids of melting furnaces and training of operators to close lids helps reduce losses by 10-20% in foundries.



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