

DESIGN OF A HEAT RECOVERY SYSTEM

Project report submitted by

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The project deals with the design of heat recovery system due to the heat losses of the exhaust gases of a furnace which is located at Lykos Industries (Nicosia).

The project is divided in two parts:

PART A: Theory in Heat Recovery

PART B: Design of Heat Recovery Systems

Part A is referred to several methods for Heat Recovery and a thoroughly study of the performance characteristics of Shell and Tube Heat Exchangers. Then a mention is following about the maintenance of Heat Exchangers and the design of Chimney (draft). At last a study for the analysis of Air Conditioning load is carried out.

Part B is referred to the design and construction of three different methods for Heat Recovery.

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