

DESIGN OF AN AIR CONDITIONING SYSTEM

FOR A BUILDING

by

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Project Report

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## SUMMARY

The aim of this project is to Design an Air Conditioning System for a Multi-Storey Building, in Larnaca.

Architectural drawings for the building were provided. Design conditions were selected from Handbooks, while ambient conditions were based on data collected from Cyprus Meteorological Services' Department.

Energy conservation and noise control were considered as a major factor in the design of the system.

This project has been separated into three major parts.

The first part deals with the calculation of the cooling and heating loads.

The second part deals with the selection of the system to be employed and the sizing of equipment and piping as well as the selection of equipment from manufacturer's catalogues.

The third part provides an estimated cost analysis for the entire system employed and a scheme of maintenance for the equipment used.

A complete set of detailed mechanical drawings is being provided in which the location of all air conditioning equipment (including piping and controls) is illustrated.

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