

DESIGN OF THE HEATING AND
WATER TREATMENT SYSTEM
OF A SWIMMING POOL

by

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SUMMARY

The project deals with the design of a heating and water treatment system for a swimming pool. Today, with the increasing demand for construction of public and private swimming pools, this study based on energy conservation and the weather conditions of Cyprus, gives the answers to many questions concerning the design engineer, the constructor and the owner of the pool .

First, the heating requirements for the pool are calculated and after analysis of the various heating systems, a selection is done. Then, recirculation is analysed and a recirculating system is selected. The water treatment is examined and a plant is selected.

After the above theoretical analysis equipment and pipe sizing is done and selection from manufacturer catalogues.

The final steps are cost analysis and maintenance. Cost analysis gives an estimation for the suggested design. Maintenance describes the maintenance of equipment and machinery for preventing breakdowns, and ensuring proper and efficient operation of the plant.

C O N T E N T S

ACKNOWLEDGMENTS

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