

SUMMARY

This bachelor thesis describes the utilization of geothermal energy by using heat pumps. Emphasis was placed on the characteristics of different types of heat pumps and how to use them in relation to different types of rock environment, with respect to the construction of the primary circuit of the heat pump. In the early chapters of this work is generally characterized geothermal energy itself, its origins, geothermal systems and geofactors, which indicates its presence.