



Email : sales@laboratoryinstrumentindia.com

Product Name :
Geothermal Energy With Two-Well System

Product Code :
LBNY-0005-1250009



Description :

A near-surface geothermal plant uses the thermal energy stored below the earth's surface. Using a two-well system, for example, thermal energy is extracted from the near-surface groundwater for heating purposes. The scope of geothermal energy is the study and use of the heat and the temperature distribution in the ground. It demonstrates the operation of such a two-well system.

Learning objectives/experiments:

Hydraulic properties of the ground
Determination of the usable heat capacity
Fundamentals of geothermal use
Fundamentals and energy balance of a simulated heat pump
Operating behaviour of a two-well system.

Technical Specification :

Demonstration and operation of a two-well system for using geothermal energy
Measurement of temperature and flow rate to determine the transmitted heat capacity
Multi-tube manometer for visualising the groundwater levels
Temperature-controlled groundwater circuit
Height-adjustable overflows for adjusting the groundwater flow
Calculation of the transmitted heat capacity and simulation of the energy balance of a heat pump
Adjustable flow rate of the pump in the production well
Supply of the working medium via laboratory supply or the water chiller.



Laboratory Instrument India