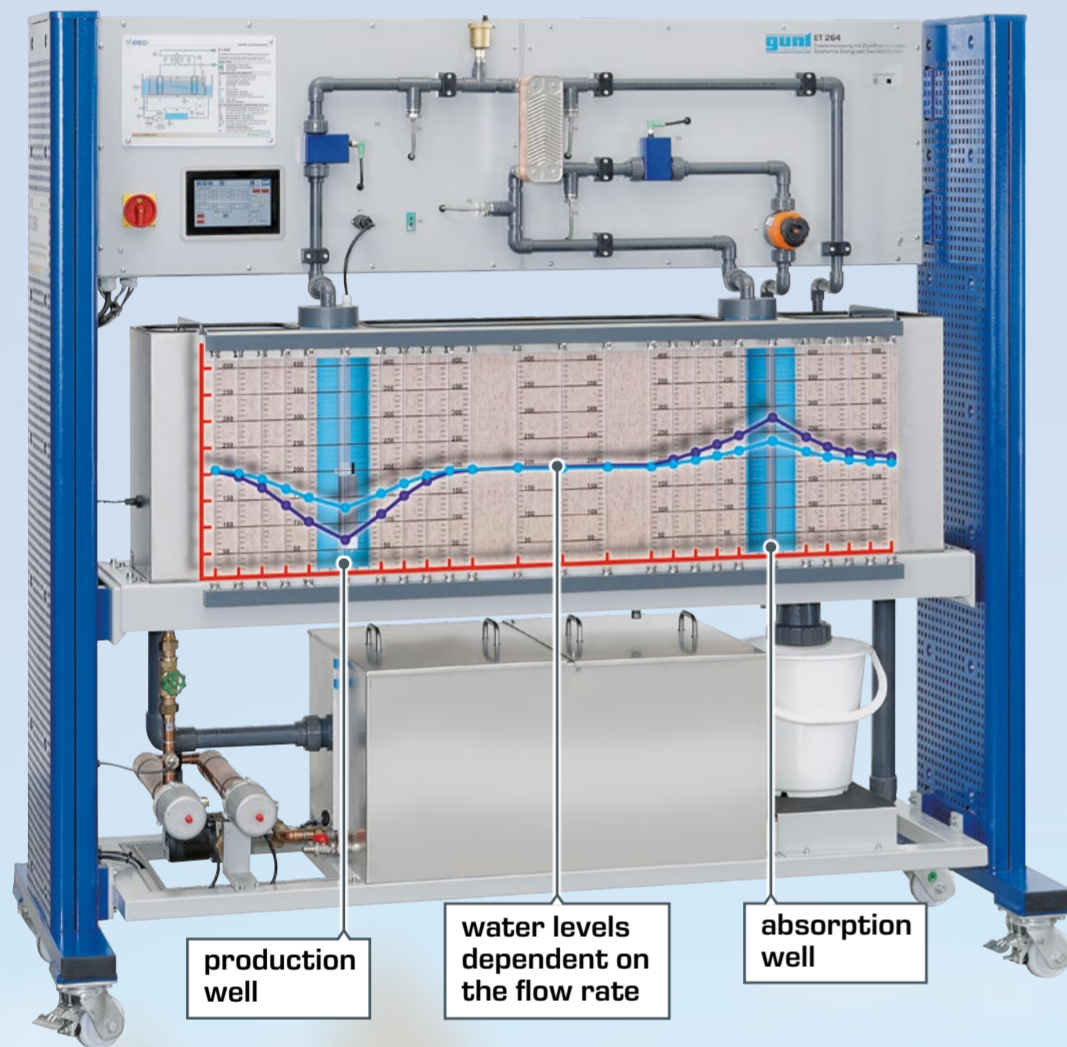


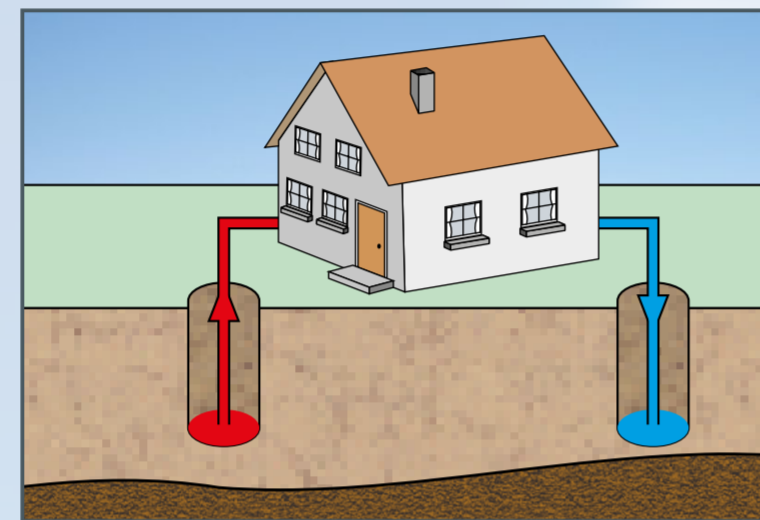
Sustainable technology for environmental protection

# Geothermal energy in technical education

## ET 264 Geothermal energy with two-well system

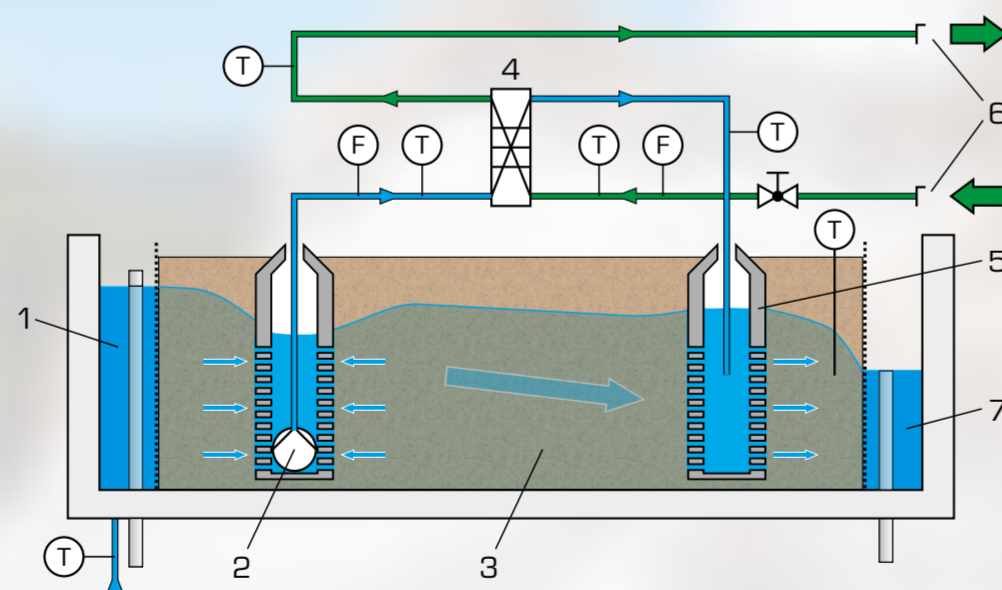


production well  
water levels dependent on the flow rate  
absorption well



Two-well system

- fundamentals of geothermal use
- operating behaviour of a two-well system
- hydraulic and thermal properties of the ground
- determination of the usable heat capacity
- fundamentals and energy balance of a heat pump

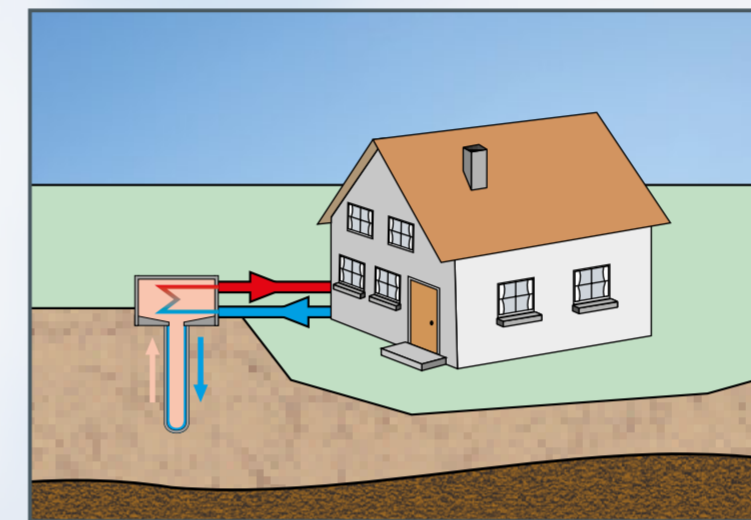


1 feed chamber, 2 production well, 3 experimental section, 4 heat exchanger, 5 absorption well, 6 working medium connection, 7 drain chamber; F flow rate, T temperature, blue: water, green: working medium



GUNT software for device control and measurement data acquisition via PC

## ET 262 Geothermal probe with heat pipe principle

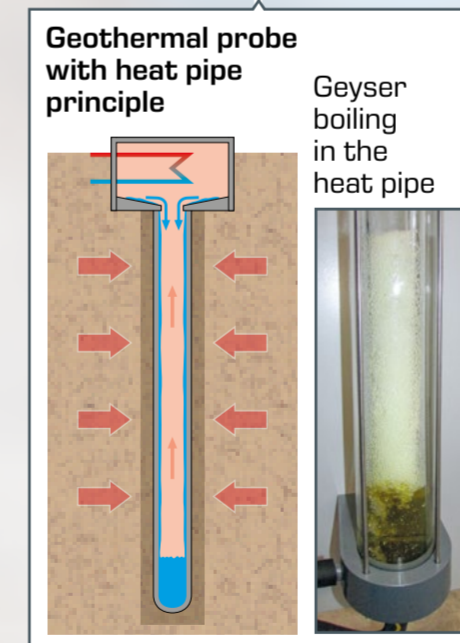


Heat pipe principle

- operating behaviour of a geothermal probe with heat pipe principle
- examination of the radial temperature profile in a sand sample and determination of the thermal conductivity
- evaluation of the potential thermal performance of a geothermal well
- GUNT software for device control and measurement data acquisition via PC



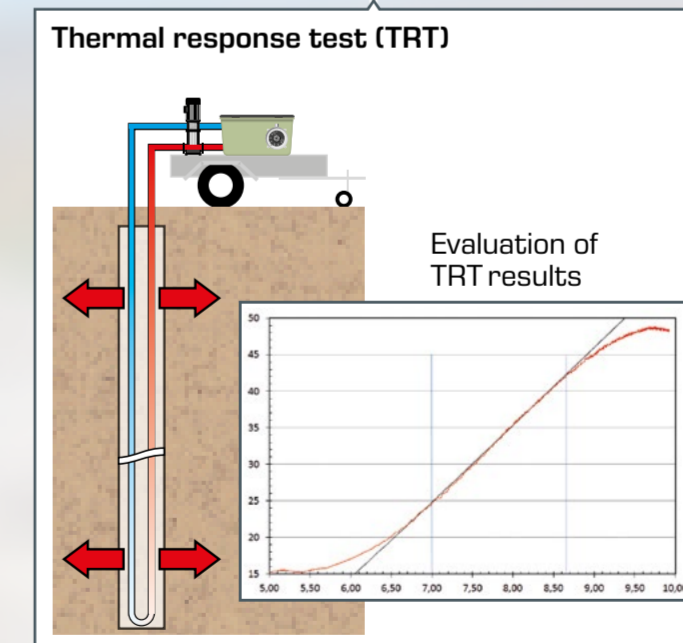
GWP = 1



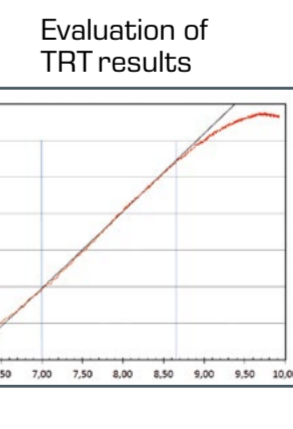
Geothermal probe with heat pipe principle



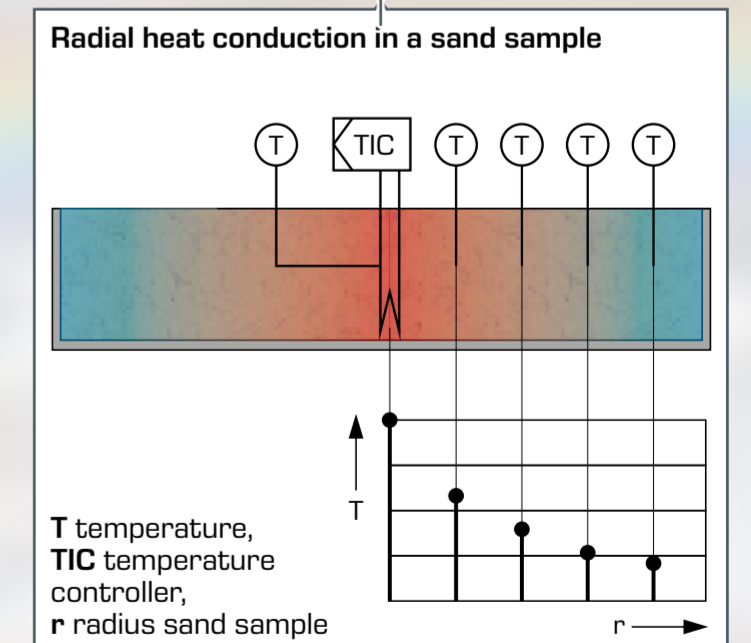
Geyser boiling in the heat pipe



Thermal response test (TRT)



Evaluation of TRT results



Radial heat conduction in a sand sample

T temperature, TIC temperature controller, r radius sand sample

Arrange a qualified demonstration with us.

