

# Geothermal drying & reducing installation



Geothermal installation produces heat by pumping hot water from several kilometers deep to the surface. At a few kilometers depth the gas is, under the high pressure of 200 bar, solved in the hot water. If the water is being pumped up to the surface the gas produces bubbles in the water. The gas bubbles reduce the heat transfer in the heat exchanger. This causes insufficient utilization of the geothermal well and the heat exchanger gets slightly blocked. Therefore the gas must be separated from the water before it comes into the heat exchanger.

## Geothermal drying installation

This installation removes the water from the natural gas and reduces the pressure so it can be reused.

The drying installation is built from the following parts:

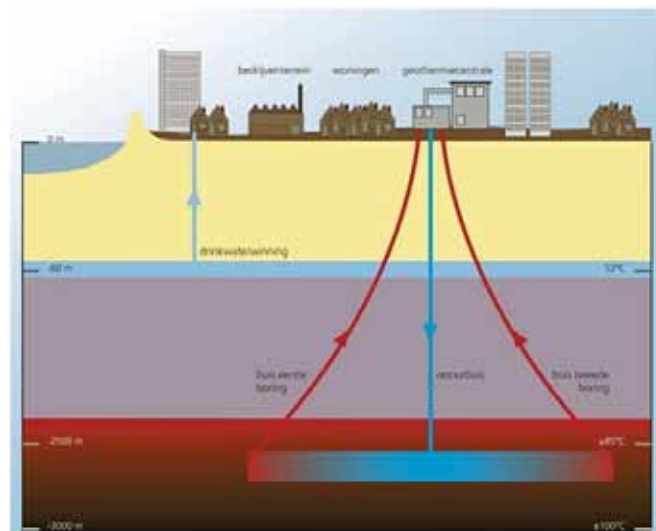
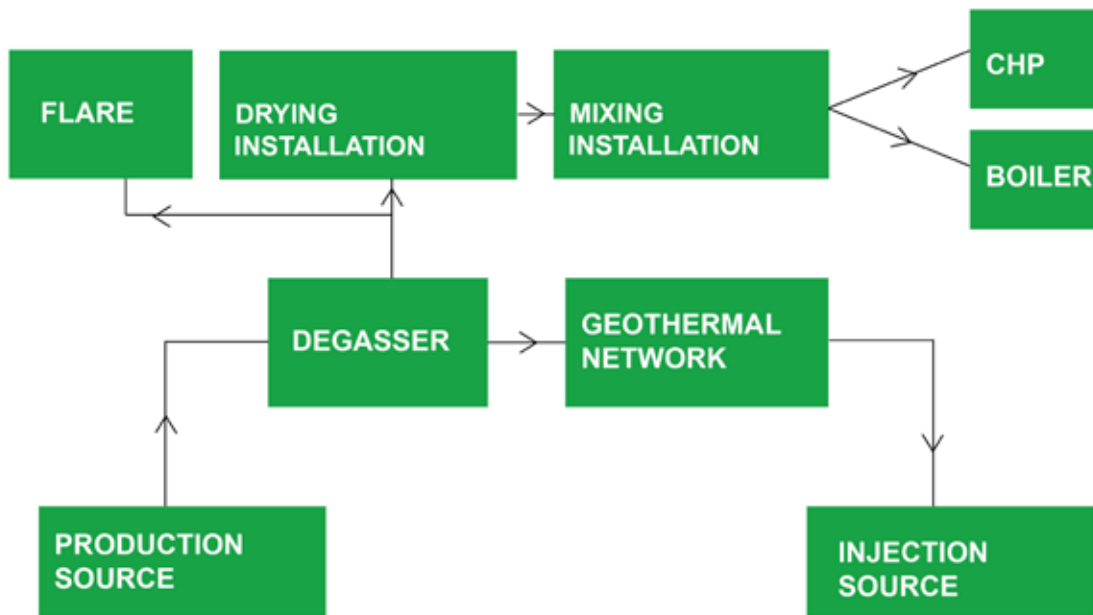
- Inlet valve
- Gas/gas heatexchanger
- Gas/water heatexchanger
- Cold water machine
- Coalescing filter
- Gas pressure regulation with safety shut off valve
- Outlet valve
- Pressure regulator and pneumatic blow down valve
- Condensate storage with pump
- Instrumentation (manometers etc.)
- Container



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At this moment geothermal heat is uses al lot in greenhouses. But also municipalities (like for example Den Haag) use geothermal heat wells for heating parts of the city.



Do you wish to submit a specific application, detailed specifications or do you simply have a query about our processes, products or services? Please contact our sales department: 0182-621890 or by email: [sales@gtsbv.com](mailto:sales@gtsbv.com).

More information about GtS and our products you find on our website: [www.gtsbv.com](http://www.gtsbv.com).