

VTD unit to be installed at Brooklyn VIC

SYSTEM BY ECON INDUSTRIES



Reinhard Schmidt - CEO at econ industries

Indirect heated vacuum thermal desorption (VTD) – also called ‘vacuum distillation’ - has been applied for a number of industrial waste recycling and soil remediation projects in Europe since the 1970’s.

Due to the ever more stringent environmental legislations and increasing energy costs this technology is becoming more and more important for the treatment of

hazardous industrial wastes as well as contaminated soils.

Indirect heated vacuum thermal desorption is essentially a thermally induced physical separation process. The solid material is heated up and a vacuum is applied to reduce the boiling points of contaminants.

Water and contaminants vaporise depending on their boiling points at different stages and enter into the gas stream. This gas stream is led off and subsequently treated while passing through a specially designed condensation unit.

Within the condensation unit the gas stream is cooled down, leading to a liquefaction of water and contaminants. Due to variances of specific boiling points, different compounds evaporate at different times, making it possible to collect different substances such as mercury, oil and water separately.

The condensation and the solid residues from the process are collected, processed and reused or recycled.

The VTD unit for Brooklyn will mainly be used for waste filter cake, sludges and hydrocarbon contaminated soils. ■



3D Model of Brooklyn VacuDry® unit

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