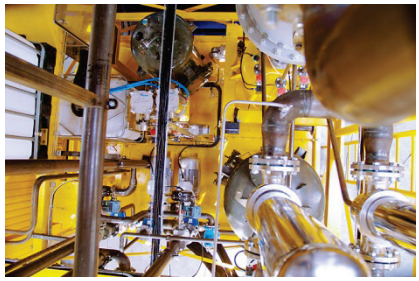
VOC & POP contaminated sites

Applications and design

Process:	Indirect Heated Vacuum Thermal Desorption / Vacuum Distillation
Source:	Abandoned, multi-contaminated hazardous waste landfills Brownfields, old industrial production facilities, coke oven plant sites contaminated with toxic substances, such as Dioxins, PCB, PAH Chlorinated organic compounds, organic lead compounds Residues from petrochemical processes or pesticide production
Input material:	Debris, soils, dust, sludges with varying moisture contents prior mechanical pre-treatment, e.g. crushing and sieving as required


Key facts

Plant design:	Turn-key, fixed or mobile execution (mobilisation 1 … 8 weeks)
Equipment execution:	Heavy duty and wear resistant Use of robust metals is common practice
Throughput capacities:	0.5 … > 10 t/h, e.g. depending on mobilisation requirements
Operational availability:	24 h/d; 7.000 h/a; supported by remote monitoring
Operating resources:	Electricity; fuel (heating oil, diesel, natural gas, biofuels)
Operating parameters:	Evaporation of contaminants at boiling points up to 450 °C
Cleaning level:	Individual process design according to national criterias
Emissions:	Acc. to EU criteria; total cleaned process exhaust below 500 m³/h
Delivery time:	Depending on customer requirements between 6 to 12 months

Greatest benefits of the VacuDry technology

- Approved treatment method operating since more than 10 years with numerous applications
- Environmentally friendly, fully enclosed separation process for volatile contaminants
- Single process approved to be operated with multi-contaminated input materials
- High temperatures and low vacuum to ensure an in-depth cleaning effect
- Lowest energy consumption through efficient heat transfer and controlled power requirements
- Emission and dust free system by final, encapsulated treatment of exhaust vapours and solids
- Optional stabilisation/solidification of cleaned solids after thermal treatment

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