

Applications and design

Process:	Indirect Heated Vacuum Thermal Desorption / Vacuum Distillation
Source:	Tank cleaning sludge from crude oil tanks Oil lagoons, oil pits, sedimentation ponds Solid phase from centrifugation Drill cuttings, oil based mud (OBM) Contaminated materials from pipeline leakage
Input Material:	Sludges with varying viscosities, semi-solids, solids, soils



Key facts

Evaporating system:	Dryer heated with thermal oil, certified for ATEX operation
Heating system fired by:	Fuel oil, diesel, natural gas, biofuels, recovered mineral oil fraction
Evaporation conditions:	app. 450 °C boiling point (< 50 mbar absolute pressure at 350 °C)
C10-C40 concentration output:	Below 1 %, < 0.1 % possible – according to EN 14039
Treatable by-products:	VOC, POP, lubricants, water, mercury
Plant design:	Fixed or mobile execution, 0.5 ... > 5 t/h throughput capacity
Optional:	Remoistening, cooling and stabilisation of cleaned solid output

Greatest benefits of the VacuDry technology

- Turn-key, skid-mounted mobile or stationary mounted, custom made solutions
- Defined separation of reusable hydrocarbons by gradual heating
- Utilisation of recovered mineral oil fraction for burning inside the thermal oil unit
- Highest operational availability due to self-cleaning dryer
- Highest quality of recovered oil due to indirect heating under vacuum, no cracking processes
- Reuse of the condensed, clean water for the re-moistening of treated mineral solid output
- Emission and dust free system by encapsulated treatment of exhaust vapours and solids
- Optional engineering service for mechanical pretreatment by centrifugation
- VacuDry system meets fully EN health&safety and environmental standards

Imagine – **Zero** industrial waste ... !