

TurboStripper™

100% Non-Clogging Air Stripper

The challenge in air stripper design was to develop a technology that could maintain high removal efficiencies with a minimum of residence time, at equivalent energy consumption levels to that of a packed tower air stripper, **while at the same time eliminating the maintenance factor.**

The TurboStripper™ has been developed to meet these requirements. The TurboStripper™ uses a fluidized bed process in which Turboids™ (packing elements) are continually moving and violently participating in a three phase turbulent interaction of: **Turboids™, air and contaminated water.**



This new, fluidized bed process creates a high rate of mass transfer with out forfeiting cost efficiency.

The controlled turbulence within the fluidized bed effectively increases the interfacial area (IA) equivalent to ten times that of the Turboid™ packing surface.

The rapid shearing actions generated by both the air and water also naturally enhance the side turbulent diffusion mass transfer, thereby increasing the mass transfer coefficient (K).



The combined effect of the increase in both **IA** and **K**, minimizes TurboStripper™ size and maximizes stripping efficiency!

The shearing actions of the Turboid™ packing produce yet another benefit: both bed scaling agents such as iron and calcium, and bacteria are prevented from building up upon the rapidly mobile Turboid™ packing; thus creating a completely non-Clogging Air Stripper!

The Turboid™ packing is self cleaning

- Downtime is eliminated
- Maintenance costs are greatly reduced
- The TurboStripper™ is able to maintain **consistent removal efficiencies** through out the life of project, effectively accelerating site clean up