



Best Simulator for Carbon Capture

With Capture-Specific Solvents



Post-combustion carbon capture's objective is limited CO₂ removal with minimal regeneration energy consumption.

ProTreat® lets you to simulate complex, highly heat-integrated flow sheets for CO₂ capture using all the standard amine solvents and their blends, plus

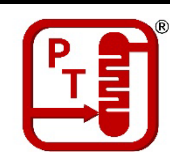
- AMP (2-amino-1-methyl propanol)
- Sodium glycinate (an amino acid)
- ION Solvents
- Solvents promoted with enzymes such as carbonic anhydrase
- High strength piperazine

Gas liquid contacting in absorption columns is the most common proposal. Huge volumes of low pressure gas need towers with the lowest pressure drop possible—perfect for structured packing.

ProTreat® is the only simulator that allows you to *predict* packed tower *mass transfer* performance, not just hydraulic rating. Proven, fundamental mass transfer performance information is available for 24 types of random and 7 types of structured packing from all major packing suppliers. If the packing you want to use isn't in ProTreat, we'll add it for you.

Mass transfer performance predictions have been validated against a large amount of full-scale plant performance data, and regeneration columns are simulated just as accurately as absorbers.

ProTreat® is 100% mass transfer rate based and uses detailed chemistry and mass transfer calculations to predict performance of real equipment without guesswork.



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