

Steam Stripping

Water / Volatile Organic Species Separation



Chemical Plants, Oil Refineries, Pharmaceuticals, Petrochemicals

Steam Stripping Applications

Solvents, Organics: Volatile Species as the Light Fraction – Water as the Heavy Fraction
Halogenated Organics Often are the Heavy Fraction – Water as the Light Fraction

Typical Species / Water Separations

Benzene, Xylene, Sour Water / Hydrogen Sulfide and Ammonia, Acetone
Oxygenates MTBE / Methyl Ethyl Ketone, Chloroform
Bromoform, Halogenated Organics, Ethanol, Propanol
Isopropanol, Alcohols, Butadiene
Hexane, Heptane, Solvent Recovery, Tetrahydrofuran, Ethylene / Propylene Splitters, Toluene

Steam Stripping Design Assistance

What We Need to Know

Organic / Volatile Species and Concentration – Percent Recovery / Removal Required
Heat Balance – Heat Recovery from Bottoms is Critical for Economic Viability
Optional: Reduce Pressure to Eliminate Heat Exchanger to Operate at Lower Temperature
BUT – Now Steam Rate Required is Increased also probably Vacuum Requirement
Is Organic Totally Miscible? If Not, Decanter Needed in Design
Typical of Aromatics and Halogenated Species – Much of the Separation Done in Decanter

What Raschig USA Can Supply to the Project

Engineering Staff: Complete Process Design with Needed Engineering

Contacting Column Details

Peripheral Equipment Specifications

Process Diagrams / Drawings

Extensive Database: Almost Any Strippable Species Included

Trays

Packings

Tower Internals

Correct Design

Suitable Materials of Construction

For more information and design assistance, please contact us at:

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