



LABORATORY HYBRID DISTILLATION STILL/FRACTIONAL COLUMN SYSTEM

LABORATORY HYBRID DISTILLATION SYSTEMS FOR HEAT-SENSITIVE MATERIALS

Heat-sensitive fine chemicals and other substances are safely and efficiently separated with Pope Scientific's Hybrid Still Technology. These systems combine the gentle short residence time evaporating principle of dynamically transported wiped thin films with the highly efficient separation capability of fractional distillation columns. Versatile design allows configuration for Molecular (short-path) Distillation, Evaporation, or Fractionation, plus choice of glass, 316L SS, Hastelloy, other materials. High vacuum operation is possible.

This is the technique of choice where the single theoretical plate of an evaporator alone does not provide required product purity, and where a conventional multiple theoretical plate distillation system alone causes thermal degradation. Typical examples include purification of edible and essential oils, pharmaceuticals, foods, flavors, fragrances, cosmetics, polymers, extracts, vitamins, waxes, silicones, specialty fine chemicals, and many others. The system shown is a complete turnkey laboratory model ideal for exploring the technology or for processing materials at feed rates from 10 – 800 gm/hr. Lab, pilot plant, and production systems with throughputs up to 1000 kg/hr are available. Applications assistance, feasibility testing and custom toll processing support is available.

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