POPE DISTILLATION AND EVAPORATION SYSTEMS

For Laboratories, Pilot Plants and Production Processing

Wiped-Film Molecular Stills and Evaporators

▲ Designed for separations of heat-sensitive, high molecular weight or viscous materials.
▲ Throughput range of 0.1 to 1000 kg/hr.

Fractional Column Distillation Systems and Components

▲ Designed for purification, fractionation and solvent recovery.
▲ Throughput of range of 0.1 to 500 kg/hr.

Toll Processing Services

▲ Minimizing client’s process development costs, risk and time-to-market.
▲ Specialties in distillation and evaporation of heat-sensitive materials.
▲ 1 kg through truckload quantities – with quick turnaround.
▲ Fully equipped new facility.

APPLICATIONS

▲ Speciality Chemical Purification
▲ Pharmaceutical/Biomaterial Concentration
▲ Polymer Devolatilization
▲ Molecular Distillations of Esters, Fatty Acids, Mono, Di, Triglycerides
▲ Residue Removal/Decolorization
▲ Vitamin/Nutraceutical Isolation
▲ Wax Fractionation
▲ Oil Deodorization
▲ PCB, Insecticide Removal
▲ Water Removal - PPM Level
▲ Solvent Recovery, Many Others

Shown above: Multi-Stage Wiped-Film Processing Plant for flavors production with 12” Molecular Still, 12” Evaporator and 12” Fractional Column. Explosion proof

Stainless steel, high-purity, Fractional Distillation Batch System with 3” diameter column, 37-gallon boiling vessel

Multi-purpose, 20”, high-vacuum, Molecular Distillation Production System

2”, standard glass laboratory Molecular Still Unit for general R&D

Turnkey, 12”, stainless steel Wiped-Film Molecular Still Processing Plant with degassing stage, for edible oil deodorization

Turnkey, 12”, stainless steel Wiped-Film Evaporator for polymer devolatilization

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WIPED-FILM EVAPORATORS, MOLECULAR STILL AND HYBRID FRACTIONATORS

- A complete range of equipment for separations of thermally sensitive materials.
- Evaporator/Concentrator, Molecular Short-Path, and Fractional Column versions available for application-optimized processing.
- Consistent method scale-up from lab bench-top units, to pilot plants, to turnkey production processing systems. All available from Pope.
- Standard lab and pilot units in 2”, 4” and 6” diameters for 0.1 to 50kg/hr throughput feature reconfigurable modular design. Interchangeable components available in glass, stainless steel, Hastelloy, other materials.
- Production processing equipment in 12”, 20” and larger diameters for 25 to >1000 kg/hr throughput, available in stainless steel, Hastelloy, other materials.
- All still sizes are available as basic stand-alone units, partial systems, or as complete, custom-engineered multistage turnkey plants.
- High vacuum, short residence time for highest quality.
- Experienced staff on hand to assist with applications testing and process development, through equipment design, fabrication and system startup.

FRACTIONAL COLUMN DISTILLATION SYSTEMS AND COMPONENTS

- For purification, fractionation and solvent recovery.
- Sized for small to mid-sized processing, pilot plants and laboratory work. 1” to 12” diameters, 0.1 to 500kg/hr throughput.
- Batch or continuous configurations.
- Wide range of packings and internals, system designs and materials, including stainless steel, Hastelloy, glass, etc.
- Offered as: individual components, basic system or complete turnkey engineered systems.

TOLL PROCESSING SERVICES

- Custom evaporation, molecular distillation and fractionation operations.
- Specializing in heat-sensitive and difficult separations, including pharmaceuticals and foods.
- Lot sizes from 1 liter to truck loads.
- Fast turn-around time,
- Fully equipped new facility, experienced staff.