

PARTS LIST

COMPLETE EVAPORATORS, ACCESSORIES AND REPLACEMENT PARTS LIST

Part No.	Description	Price
40451	Rotary Vacuum Evaporator, with H-Stand, 1 Liter Flasks, for 115 VAC, 50/60 Hz	See Price List
40452	Rotary Vacuum Evaporator, with H-Stand, Quick Action Manual Jack, 1 Liter Flasks, for 115 VAC, 50/60 Hz	
Accessories and Replacement Parts		
40453	Stainless Steel Water Bath with Adjustable Temperature Control — Ambient to 371°C (700°F) — 115 VAC, 50/60 Hz, 750 Watts	
40454	Quick Action Manual Jack	
40455	Cold Trap Condenser (for Freeze Drying, etc.)	
40456	Standard Coil Condenser	
40457	Vapor Duct	
40458	Feed and Aeration Tube	
40459	Evaporator Flask, 1 Liter	
40460	Evaporator Flask, 2 Liter	
40461	Receiving Flask, 1 Liter	
40462	Receiving Flask, 2 Liter	
40463	Vacuum Seal and Rulon Gasket	
40464	Quick Action Joint Clip, 29/42	



POPE WIPED-FILM STILL

A unique glass still for vacuum concentration/evaporation or molecular distillation of heat sensitive, viscous or low thermal conductive materials.

Special slotted wiper blades spread the distilland evenly over the entire evaporative surface in a thin film to provide efficient heat transfer and rapidly propel it downward to limit heating time. In most other processes, such as with the rotary evaporator, the distilland is constantly heated.

Similar to large industrial process equipment, the Pope still provides more accurate scale-up data than other types, and is highly recommended for use in chemical, petrochemical, plastic, pharmaceutical and food industries.

Available in 2" (323 cm² evaporating surface), 4" (1,079 cm² evaporating surface) and 6" (2,194 cm² evaporating surface) models. Write for additional information.

pope

rotary vacuum evaporator



pope

SCIENTIFIC, INC.

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Telephone: (414) 251-9300
TWX: 910-260-3630 (POPESCI)

Fast vacuum concentration of small and large volumes

rotary vacuum evaporator.

GENERAL DESCRIPTION

The Pope Rotary Vacuum Evaporator is ideally suited for rapid distillation, freeze drying, or other operations. Heat sensitive compounds can be processed without decomposition. High boiling solvents are quickly evaporated. Dry, solvent free residues are easily obtainable.

The solution to be concentrated is placed in a pear-shaped flask which is rotated in a heating bath. The rotation mixes the solution in the flask, preventing overheating and providing a larger evaporating surface and even heat distribution for fast evaporation rates. Speed of rotation is electronically controlled, providing uniformly high torque throughout the whole speed range. Careful control of rotation speed and heat input minimizes bumping and foaming.

Vapors pass through the rotating vapor tube into the condenser, and distillate is collected in the receiving

flask. Evaporating flasks are pear-shaped for optimum residue extraction. A feed tube passing through the condenser provides intermittent and continuous feed, or aeration of the evaporating flask.

Liquids and vapor contact only glass and an inert Rulon seal to prevent contamination.

The rotary evaporator comes complete with drive, stand (with or without quick action manual jack), condenser, evaporating flask, receiver flask, feed and aeration tube, vapor tube, vacuum seal and easy-to-use and efficient quick action joint clips for the flasks.

Accessories are available, including heating bath with temperature control and cold trap condenser for freeze drying. The cold trap condenser is also useful when evaporating low boiling solvents or when the temperature of the cooling water is too high to condense vapors in the regular condenser.

FEATURES

Features of the Pope Rotary Vacuum Evaporator include:

- Electronically Controlled Drive
- Variable Speed (0 to 190 RPM)
- High Torque Over All Speeds
- Easy Assembly
- Easy Replacement of Vacuum Seal (no tools required)
- Continuous or Intermittent Feed to Evaporating Flask
- Highly Stable Stand
- Quick Action Manual Jack
- Easily Replaceable Inert Fluorocarbon Seal
- Deflector Ring (prevents leakage of vapors or liquid into drive unit)
- Available with 1 or 2 Liter Flasks
- Interchangeable Glass Apparatus, Including Accessory Cold Trap Condenser
- Quick Action Joint Clips to Secure Flasks

NEW! 10 Liter Capacity ROTARY VACUUM EVAPORATOR

Pope Scientific is pleased to announce a new 10 Liter Rotary Vacuum Evaporator, for pilot plant and small scale production use. This larger evaporator can be used for the same applications as the smaller Pope model, such as concentration of heat sensitive or viscous compounds, concentration for crystallization, degassing of resins and oils, etc.

Models with larger capacities (20L, 50L, and 100L) are also available. Write for specific information.

Features:

- Speed control from 0 to 130 rpm
- Accommodates batch loading, continuous feed or intermittent feed
- Temperature control to 120° C
- Stainless steel water bath
- Mechanical lowering device for water bath
- Media contacts only glass or PTFE
- Glass parts are easily assembled and disassembled
- Compact size (38" W x 17 1/4" D x 64 1/4" H)

Specifications

Evaporator Flask Capacity	10 Liters
Receiver Flask	5 Liters (Side Outlet)
Drive Unit	120VAC, 30W
Condenser Cooling Surface	0.5 Sq. Meters
Electric Water Heater	120VAC, 2.5KW
Dimensions	38" W x 17 1/4" D x 64 1/4" H



PRICE LIST

Part No.	Description	Price
40497	10 Liter Rotary Vacuum Evaporator, Complete	\$5,995.00

NOTE: Prices of components on request.

IMPORTANT: We repair glass components in our own fully equipped glass shop. We also can modify the glass components to suit your special requirements.

POPE SCIENTIFIC, INC.

N90 W14337 COMMERCE DRIVE • MENOMONEE FALLS, WISCONSIN 53051
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TELEPHONE: (414) 251-9300 TWX 910-260-3630 (POPESCI)



N90 W14337 COMMERCE DRIVE
P.O. BOX 495
MENOMONEE FALLS, WISCONSIN 53051
TELEPHONE 251-9300 AREA CODE 414

Para concentrar al vacío volúmenes grandes y pequeños

Evaporadora de vacío rotativa

DESCRIPCION GENERAL

La evaporadora de vacío rotativa Pope resulta ideal para la destilación rápida, la liofilización (secado por congelación) y para otras operaciones. Los ingredientes sensibles al calor pueden manejarse sin que se descompongan. Los solventes de alto punto de ebullición se evaporan rápidamente. Se obtienen fácilmente residuos secos, libres de solventes.

La solución que se desea concentrar se coloca en un frasco en forma de pera que se hace rotar en un baño calefaciente. La rotación hace que la solución se mezcle en el frasco, impidiendo que se sobrecaliente y ofreciendo a la vez una mayor superficie de evaporación y una distribución más pareja del calor, lo que permite una mayor velocidad de evaporación. La velocidad de rotación está controlada electrónicamente y ofrece una fuerza de torsión uniformemente alta en toda la gama de velocidades. La cuidadosa regulación de la velocidad de rotación y del calor aplicado reduce a un mínimo los golpes y la formación de espuma.

Los vapores pasan al condensador a través del tubo rotante de vapor y el destilado se recoge en el frasco receptor.

Los frascos de evaporación tienen forma de pera, de modo que la extracción de residuos sea óptima. Un tubo de alimentación