

Distillation Apparatus



General Description

The Distillation Apparatus offered by Hach consists of an Electromantle Heater with a support rod and clamps and three glassware packages. Of the glassware packages, one, the General Purpose Set, is required for all distillations. Specialty sets for arsenic and cyanide recovery provide additional items that are not included in the General Purpose Set. All the glassware is threaded and is attached to the adjacent glassware with threaded connectors.

The heater is a single-element 200-W mantle with adjustable heat control and a variable speed, bi-directional, magnetic stirring motor incorporated. The heater block is sized for a 500-mL distillation flask. Operating controls and indicators for heater and stirrer motor operation are identified on the back page drawing of the Electromantle Heater.

Application

The Hach Distillation Apparatus can be adapted easily for a variety of test needs and makes simple distillations easy and safe to perform. It is adapted for all wastewater and water methods requiring pretreatment by sample distillation. Applications for the General Purpose Distillation Apparatus include fluoride, albuminoid and ammonia nitrogen, phenols, selenium and volatile acids. This setup uses a condenser requiring water flow through its jacket. Tap water should enter the bottom port and leave from the top port. The General Purpose Distillation Apparatus consists of a thermometer, distillation flask, J-tube, condenser, drip tube, 300-mL collection flask, necessary caps and threaded connectors.

Arsenic Accessories

For arsenic recovery, order the General Purpose Apparatus Set plus the accessory set for arsenic. The General Purpose Set consists of the distillation flask and J-tubes. The accessory set for arsenic consists of the gas scrubber, gas bubbler, and cylinder.

Cyanide Accessories

For cyanide recovery, order the General Purpose Apparatus Set plus the accessory set for cyanide. The General Purpose Set consists of a distillation flask, condenser, and J-tube. The accessory set for cyanide consists of the gas bubbler, cylinder, flow meter, filter flask and aspirator.

**GENERAL PURPOSE
DISTILLATION APPARATUS**

