

OmniPure

Sub-Boiling Distillation System



High Purity Acid Preparation

The OmniPure allows on-demand production of high purity inorganic acids (e.g. HNO_3 , HCl , HF) from less expensive reagent grade materials. Cost savings can be significant compared with purchase of commercial high purity acids.

The OmniPure is a fully automated unit with all wetted parts composed of inert, high-purity PFA and FEP. The distillation assembly consists of a directly heated distillation container and an air-cooled condensation bottle. No external cooling system is required.



OmniPure Sub-Boiling Distillation System

Technical Specifications

Throughput: 70% HNO₃, 12 hours

Temp (°C)	Volume (mL)
60	160
70	210
80	250
90	315
100	375

Distillation Container: 1 L Teflon® PFA jar, 500 mL capacity

Collection Container: 500 mL Teflon® PFA bottle

Temperature Range: 50°C to 110°C; 1°C increments

Timer Range: up to 99 hr, 59 min; 1 min increments

Power Requirements: 100 - 240 VAC, 50/60 Hz, 6A

Distillation Unit Dimensions:

Height: 73.7 cm (29")

Width: 43.5 cm (17.1")

Depth: 38.6 cm (15.2")

Electronic Control Module Dimensions:

Height: 11.4 cm (4.5")

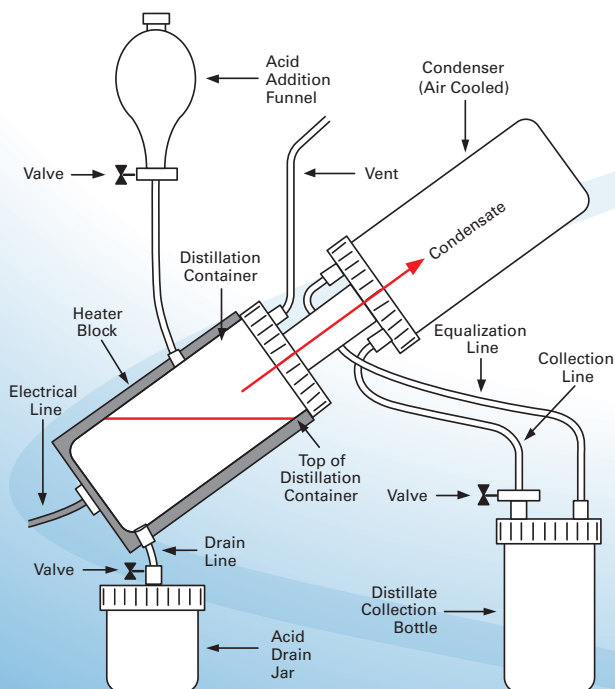
Width: 15.8 cm (6.2")

Depth: 22.8 cm (9.0")

Total Weight: 21.1 kg (46.4 lbs)

Warranty: 12 month limited

OmniPure Schematic



Features

- All wetted parts composed of fluoropolymers
- Heating to 110°C
- Cooling system not required
- Programmable temperature settings
- Programmable time settings
- Automatic shutoff with double safety thermal control
- Electronics module separated from reagent environment
- Closed collection design
- Standard storage bottle used for collection
- Easy disassembly for cleaning or exchange of still
- Removable bottle rack with built-in spill tray

Inert Construction

All wetted parts are composed of high-purity fluoropolymers such as Teflon® PFA and FEP. In addition, the OmniPure support stand is composed of polypropylene and the heater block is Teflon® coated.

Remote Operation

The electronic control module is connected to the OmniPure via a 1.5 m Teflon® coated power cable. This feature allows system operation from outside the fume hood and away from corrosive liquids and vapors.

Easy-To-Use



Programmable electronic control module allows the user to quickly define heating temperature and distillation time for unattended operation and automatic shutoff.

Economical

Prepare high-purity inorganic acids directly from less expensive reagent grade material.

Easy Maintenance

The OmniPure is designed for easy removal, cleaning and exchange of distillation components. A sliding bottle rack with a built-in tray provides further ease-of-use while protecting against accidental liquid spills.