

Hach Digesdahl Digestion Apparatus



The Digesdahl Digestion Apparatus is designed to rapidly digest many organic and mineral samples for subsequent analysis by spectrophotometric, turbimetric or titrimetric methods. Use the Digesdahl to determine Kjeldahl nitrogen (crude protein), phosphorus, calcium, potassium, iron, copper, magnesium, manganese, lead, zinc, cadmium and chromium in a variety of solid and liquid samples.

Digestion on most samples is completed in 10 minutes.

Elimination of metal catalysts

Digestions are completed using sulphuric acid and hydrogen peroxide. The resulting digest is a clear solution suitable for performing complete elemental analysis with no ashing required.

Low reagent use

Digestions use only 4ml of sulphuric acid to char the sample and 10ml of peroxide reagent to complete the digestion.

Efficient fractionating column

Maximum nitrogen recovery is achieved by the unique fractionating column used for reagent addition and fume evacuation. A capillary funnel inserted into the top of the column permits a slow controlled addition of hydrogen peroxide during digestion allowing for complete sample digestion with minimum use of reagents and time.

No fume hood required*

Fumes are removed by connecting the column to either the supplied water aspirator or a mechanical blower system.

**Note: If a closed fume hood is not used a safety shield placed between the operator and the Digesdahl is required. Safety glasses are mandatory.*

Space-saving design

The unit requires a fraction of the bench space necessary for conventional digestion apparatus.

Hydrogen peroxide dispenser

The pour-out dispenser with spout and standard tapered joint fits a 500ml Erlenmeyer flask and is secured to the flask with springs. It helps analysts quickly and easily measure out exactly 10ml of hydrogen peroxide for the digestion procedure. When inverted the measuring tube in the dispenser fills with 10ml of hydrogen peroxide. When the dispenser is turned upright the aliquot can be poured out of the dispenser spout.

SPECIFICATIONS

Power consumption	250watts
Temperature control	Variable from 100 to 480°C
Dimensions	14 x 16.5 x 33.6cm. Requires total height clearance of 61cm when assembled.
Aspirator capacity	11.5L/min at a water flow rate of 6.5L/min
Water pressure	7.5psi minimum, drain required.
Weight	3.85kg

ORDERING INFORMATION

Digesdahl system complete with two digestion flasks, fractionating column and capillary funnel, aspirator, finger cots, safety glasses and assembly instructions. Hydrogen peroxide dispenser.

Reference: HH/23130-21 £1040.00
Reference: HH/22200-38 £150.20