

Kjeldahl Digestion & Distillation Unit **(NIN/ST/12/ Kjeldahl instrument/2017-18)**

Specifications:Distillation Unit:

- ❖ Automatic dilution, alkali addition, distillation and tube emptying provide ease of use
- ❖ Bellow pumps for accurate dispensing of reagents
- ❖ Variable output steam generator broadens application area to other volatile components
- ❖ Alkali resistant Poly Propylene Plastic Splash head for long life time
- ❖ Steam Addition for Equilibration feature for safe distilling of tubes with acid/salt cake contents.
- ❖ Built-in safety systems for user protection
- ❖ Possibility to pre-program alkali addition and distillation time supports the production of accurate results, independent of operator.

- ❖ The Distillation unit should equipped with sensors for safety door, tube platform, distillate temperature as well as level and overpressure sensors for the variable output steam generator.

- ❖ Distillation Time :3.5minutes at 30 mg N (6.5 minutes at 200 mg N)
- ❖ Reproducibility : 1% RSD (Including the Digestion Step)
- ❖ Recovery :> 99.5% at nitrogen levels between 1 – 200 mg N
- ❖ Reagent pump volumes: 0 – 150 ml
- ❖ Delay: 0 – 1800 seconds
- ❖ Steam addition for equilibrium : 0 – 15 seconds

Block Digestor:

- ❖ 8 Place digestion system with built –in Electronic Temperature Control 100-440⁰ C with anddigital display
- ❖ Temperature setting: 1 degree C
- ❖ Temperature readout : digital
- ❖ Over temperature protection
- ❖ Time setting per step : 1 - 1199 min
- ❖ Provision for measurement of actual temperature using external thermometer
- ❖ Exhaust system for handling tubes along with water aspirator, tube rack, heat shields &retainer plate.
- ❖ Safety features: Audible “ready” or “cycle over” alerts advice the user when the digestion application is completed. Audible “alarm” alerts advice the user when errors/interruptions occur within the running application program.
- ❖ Two set of tubes (16 No.) and tube racks two numbers
- ❖ Digital burette.
- ❖ Operating voltage AC 220 V, 50 Hz.
- ❖ Warranty : 3 years comprehensive warranty along with 2 years extended warranty.

Optional accessory:

SCRUBBER:

- ❖ Should be convenient to use and to remove reagents with handles in the container.
- ❖ Container should be of glass with implosion resistant.
- ❖ Scrubber should not need tap water for operation to reduce dependency on water for analysis