

**SPECIFICATION –For Automatic Kjeltch nitrogen analyser with accessories**

Distillation time: 3.5 min at 30 mg N (6.5 min 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 in steps of 10 ml

Delay: 0 – 1800 seconds

Steam addition for equilibrium: 0 – 15 seconds

Power consumption: 2 200 W

Steam generator should not be metal block.

Condenser should not be metallic .

Condenser should not have any joints to avoid leak.

Water consumption (during distillation only): 2 l/min at water temp of 30°C, 1 l/min at water temp of 15°C

Corrosion free coloured plastic cabinet.

Variable output steam generator

Water saving system

Cooling water flow control

Distillate temperature monitor

Polypropylene splash head

Bellow pumps for reagent addition /or pump with positive displacement.

20L reagent tanks fitted with proper capping and reagent sensors from manufacturer.

Reagent sensors for Water/Alkali/Waste /Reciever

Automatic addition of all reagent and auto waste removal .

Instrument should be upgradable to system with inbuilt colorimetric titration system if required at a later date.

**Block digester** (as per below specification ) with all the accessories and catalyst tablets.

Number of samples: 08

Temperature range : 100 to 440 degree C

Temperature setting repeatability : 1 degree C

Temperature readout : digital

Over temperature protection

Time setting per step : 1 - 1199 min

Test Tube 40 numbers of 250 ml .

**Scrubber to neutralise fumes**: It should not need running tap water during digestion.

It should have inbuilt pump .It should have Glass bottle for reagents. It should have trap between pump and scrubbing area to avoid fumes.

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