

PRACTICAL

RUGGED

SMART

Kjeldahl Distillation with Autotitrator



Comfortable and reliable Labquest steam distillation unit designed predominantly *for Kjeldahl analysis*

Perform Kjeldahl nitrogen or protein determinations in the Food & Feed industries and several other applications in environmental control, agricultural produce, products, soil industries after having digested the sample accurately in the most cost-effective way

KDI050 is compliant with many official methods of steam distillation for different applications such as the determination of ammoniacal nitrogen, protein determination, nitrogen content (direct or indirect), nitric nitrogen (after reduction/Devarda's Alloy) and alcohol content.



EFFORTLESS USE

- Simple programming and straight forward operation
- Quick start option with favourite method menu



ENERGY SAVING

- Start and stop cooling water automatically during the distillation process with excellent insulation of internal parts.



COMPETENCE

- Robust acid resistant housing
- Compact footprint saves useful laboratory bench space.



SAFETY

- Brilliant supervision of all crucial functions
- Comprehensive built-in safety systems for operator protection

KDI060 is a solution to quantify the nitrogen/protein content with the Kjeldahl method. Automated with Inbuilt autotitration, offers the highest sample throughput without compromising on result accuracy and precision. The automated Kjeldahl analyzer is undoubtedly the most productive system available.

Sample analysis requires no monitoring.

The inbuilt N/Protein calculator with extraction of results makes the system versatile like never before



- Automatic dilution, steam, alkali, acid and test tube drain
- Anti corrosive FRP body construction
- 7" colored touch screen display
- Steam regulation (10-100%)
- Process kill switch to halt the process in case of accidental door opening
- Process resume from stop
- Detachable bottom drip tray for extra protection against acid attack
- Anytime alkali addition during the distillation cycle
- Tube sensor that enables safe operating conditions in event of tube damage
- Reagent refill level sensor to avert reagent dry out
- One point calibration of alkali and distilled water pumps
- Two point calibration for acid pump
- Real time monitoring of process parameters
- SELV protection
- Nitrogen reproducibility $\pm 1\%$
- RSD $< 1\%$
- LOD of 1-200mg with of ≥ 0.1 mg of Nitrogen
- Nitrogen recovery $> 99.5\%$

Technical details

Model Name	KDI060
Steam Addition	Automatic
Distilled water addition	Automatic
Alkali addition	Automatic
Residue drain	Automatic
Display	7" colored touch screen
Tube Capacity (ml)	250 / 400ml
Steam power regulation (Adjustable)	10 to 100%
Minimum distillation time (mins)	5
Reagent level sensor	Yes
Anytime alkali addition	Yes
Tube error detection	Yes
Door close sensor	Yes
Process resume from stop	Yes
One point alkali and distilled water pump	Yes
Two point calibration for acid pump	Yes
Real time monitoring of process parameter	Yes
SELV protection	Yes
Programs	40 preset, 10 user editable
PC Connectivity	Yes
Nitrogen recovery	>99.5%
Nitrogen reproducibility	0.01
RSD	<1%
LOD	1-200mg with of =0.1 mg of Nitrogen
Titration Type	pH base
Water Addition	Automatic
Distillation Residue Removal	Automatic
Titration Cleaning Vessel	Automatic
Detection Limit	0.1ml
Analysis time	upto 1min
Titration Residue Removal	Automatic
Boric Acid Addition	Automatic
Burette Resolution	0.03ml/drop
Power Supply	230V/50Hz
Current Consumption	10A
Power Consumption	1800 W
Dimension (L x B x H) mm	(480 × 470 × 820) mm
HS Code	84198990
Ordering code	BLFAKDI06000000000