KJELDAHL UNIT







AUTOMATIC KJELDAHL DISTILLATION

The Revolve Automation Kjeldahl Distillation Unit is a unique solution for quantifying nitrogen/protein content using the Kjeldahl method, featuring an automated analyzer with premium performance that delivers the highest sample throughput, increased boiler capacity, and is the most productive system available.

It complies with various official steam distillation methods for applications such as determining ammoniacal nitrogen, protein content, nitrogen content (both direct and indirect), nitric nitrogen (after reduction with Devarda's Alloy), and alcohol content.



RV-AKD-50

AUTOMATIC KJELDAHL DISTILLATION

Steam addition	Automatic		
Distilled water addition	Automatic		
Alkali addition	Automatic		
Acid addition	Automatic		
Display	7" touch screen		
Tube capacity (ml)	250 ml / 400 ml		
Steam power (adjustable)	10 - 100%		
Maximum distillation time (mins)	408 x 350 x 99 mm		
Reagent level sensor	20		
Anytime alkali addition	Yes		
Tube error detection	Yes		
One point calibration alkali and distilled water pump	Yes		
Two point calibration for acid pump	Yes		
Real time monitoring of process parameters	Yes		
SELV protection	Yes		
User editable programs	No. of programme		
PC connectivity	Yes		
Print readout	Yes		
Auto Drain	Yes		
N/P recovery	>99.5%		
Nitrogen reproducibility	±1%		
RSD <1%	<1%		
LOD	1- 200 mg with of >0.1 mg of nitroger 0.1% nitrogen & 0.2% protein		
Current consumption (A)	10		
Power consumption (W)	1500		
Dimensions (L X B X H) mm	470 X 470 X 830 mm		
Ordering information	RV-AKD-50		

KJELDAHL FUME SCRUBBER



Sulfur dioxide fumes, a by-product of digestion, can lead to environmental pollution and potential health hazards if not properly managed. The fume scrubber system by Revolve effectively eliminates the need for a fume hood by addressing these concerns.

The simple assembly design ensures that all components are easily accessible, and the protective front shield provides added protection to the scrubber body.

RV-KSC-10

The scrubber neutralizes toxic fumes through its four-stage mechanism:

- Stage 1 Condensation using a condenser
- Stage 2 Neutralization with distilled water
- Stage 3 Neutralization with alkali
- Stage 4 Final neutralization using a carbon filter

PRODUCT SPECIFICATION

Current Consumption	1A
Pump delivery Rate	28 Ltr/Min
Dimensions (WxDxH)	365 X 375 X 480 mm
Ordering information	RV-KSC-10

KJELDAHL BLOCK DIGESTER



The KBD digesters series features heating via aluminum blocks, convenient sample handling, a suction hood, test tubes, a test tube rack, and a drip tray, providing a steady, gradual rise in temperature for excellent sample digestion, and includes an extremely bright graphical display that is easy to read, offering all fundamental parameters at a single glance.

RV-KBD-6

DIGESTION SYSTEM

It helps to achieve fast, safe and complete digestion of samples through aluminum blocks.

These blocks allow for precise control of temperature profiles, enabling **automated**, **unsupervised digestion**.

It can easily monitor process parameters and pre-set sample cycles.

Ideal for industries and laboratories that handle high volumes of samples daily.

our system ensures complete and consistent digestion across all tubes.

KJELDAHL BLOCK DIGESTER

No. Of Position	250ml x 6	
Material Of Construction	SS304, FRP & MS-Powder Coated	
Dimensions (WxDxH) in mm	427 x 490 x 700mm	
Temperature Controller	Available	
Temperature Range	Ambient to 450° C	
Temperature Precision	+/- 50C	
Timer	Available	
Timer Range	Each ramp 300min	
Heating Source	Cartridge heater, SS304	
Max. Heating Element Temperature	450° C	
Heating Chamber Unit	Aluminium Block, machined - 1060	
Power Consumption	1300W	
Current Consumption	6A	
Voltage	230V	
Frequency	50Hz	
Test Tube Material	Borosilicate Glass	
Fume Extractor Material	Borosilicate Glass	
Ambient Temperature	100°C to 450°C	
Safety & Efficiency	Auto OFF After safety time is completed	
Ordering information	RV-KBD-6	

REVOU/E

CHILLER

The Revolve chiller features a temperature range from -10°C to ambient -5°C and boasts an ergonomic, compact design that allows it to be positioned at eye-level on the desk. It includes a large, bright LED display with reliable microprocessor PID temperature control, ensures economic and environmentally friendly operation, and offers a simple operation with an easy-to-navigate menu.



CHILLER

PRODUCT SPECIFICATION

Tank capacity (L)	10		
Tank size (mm)	325mm x 265mm x 200mm		
Cooling capacity (Watt)	1000		
Weight	52		
Pump flow rate (LPM)	12		
Display	LED		
Temperature stability	±1°C		
Temperature range	-10 to 25°C		
Flow rate	12 LPM		
Overall size (LxWxH) mm	594mm x 396mm x 723mm		
Ordering information	RV-CHL-10		

COOLING CAPACITY CHART

TEMP (°C)	20	10	0	-10
COOLING CAPACITY (W)	1000	800	600	350

GET IN TOUCH

REVOUVE

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