

UDK Distillation

VELP UDK Distillation Units offer a complete range of programmed functionality designed to meet the most diversified laboratory needs. Four models, from basic to automatic, are available for the determination of ammoniacal nitrogen, protein nitrogen (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction), phenols, volatile fatty acids, cyanides, sulfur dioxide, alcohol content, etc., according to official procedures.

Product features

- Patented steam generator uses deionized water for maintenance-free operation
- Innovative titanium condenser maintains water temperature below critical value, avoiding nitrogen loss—provides outstanding heat exchange and precise results
- Alkali-resistant technopolymer splash head ensures long operating life



UDK 142

connected to various, external titration units. That's UDK

(external)—as well as the ability

final result calculations.



UDK 127

low throughput and university settings. But don't think "basic"

is as innovatively designed as its

UDK 152

residues aspiration and final result calculations. With 30 predefined





1000 results, you'll save time and



UDK 132



- Audible alarm alerts
- RS-232 connectivity to computer monitor, keyboard and printer (not available in Model UDK 127)
- Additional connectivity includes:
 - Model UDK 142 has an additional port for direct connectivity to a Metrohm titrator
 - Model UDK 152 has an additional port as well as USB connectivity that enables direct connection to an analytical balance

				
Model	UDK 152	UDK 142	UDK 132	UDK 127
Catalog No.	017005052	017005042	017005032	017005011
Includes				
Keyboard	●	●		
Internal colorimetric titrator	●			
Three 10 L reagent containers and caps	●	●	●	●
Test tube, 42 x 300 mm	●	●	●	●
Collecting flask, 250 ml	●	●	●	●
Pincer for test tubes	●	●	●	●
Inlet and reagent tubes	●	●	●	●
Technical specifications				
Max. burette standard volume	25 ml			
Min. burette volume	2 ml/step			
Reproducibility	≤ 1%		≤ 1%	
Recovery	≥ 99.5% at nitrogen levels between 1 and 200 mg N		≥ 99.5% at nitrogen levels between 1 and 200 mg N	
Detection limit	≥ 0.1 mg N		≥ 0.1 mg N	
Time delay for Devarda alloy analysis	0 – 30 min			
Power	2,200 W	2,100 W	2,100 W	2,100 W @ 220 V 1,700 W @ 115 V
Power supply	220V/50 Hz–60 Hz		220 V/50 Hz–60 Hz	220 V or 115 V/50 Hz–60 Hz
Weight	99 lb	77 lb	73 lb	50.6 lb
Dimensions (W x H x D)	17.3 x 30.5 x 18.5 in	13 x 30.5 x 18.5 in	13 x 30.5 x 18.5 in	12.5 x 30.3 x 15.2 in
Performance				
Number of programs	30 predefined methods, 10 programmable	20 programmable	10 programmable	
Analysis time	Starting at 4:00 min	3 min to collect 100 ml of distillate	4 min to collect 100 ml of distillate	5 min to collect 100 ml of distillate
Sodium hydroxide addition	Automatic 0 – 100 ml		Automatic 0 – 100 ml	Automatic 0 – 100 ml
Dilution water addition	Automatic 0 – 200 ml		Automatic 0 – 200 ml	Manual
Boric acid addition	Automatic 0 – 100 ml		Manual	
Steam flow regulation	10% – 100%		10% – 100%	
Tap water consumption	0.5 L/min at 15°C; 1 L/min at 30°C		0.5 L/min at 15°C; 1 L/min at 30°C	
Connects to				
External titration devices		●		
Balance	●			
Computer monitor	●	●	●	
Printer	●	●	●	
Keyboard	●	●	●	

Ordering Information

Catalog No.	Description
Accessories	
017001472	Test tubes, 42 x 300 mm, 250 ml, set of 3
071001468	Test tubes, 26 x 300 mm, 100 ml, set of 6
071001410	Test tube, 48 x 260 mm, 300 ml
017002216	Test tube, 80 x 300 mm for alcohol determination
017002219	Adapter for 26 mm and 48 mm test tubes and 500 ml balloon flask
017002186	Spacer for test tube 48 x 260 mm

Catalog No.	Description
Optional titration accessories for UDK 142	
020684201	Vessel kit for Titrino
020684213	Vessel kit for Titrando
017002140	Cable, UDK to Metrohm remote

