Comparison table UDK Series
Distillation Units

CHIMICA CENTRO
ADDED VALUE LAB SOLUTIONS

velp®

		UDK 129	UDK 139	UDK 149	UDK 159	UDK 169
Analysis time		5 min for 100 ml of distillate	4 min for 100 ml of distillate	3 min for 100 ml of distillate	From 4 min (titration included)	From 4 min (titration included)
Measuring range		0.04 - 220 mg N	0.04 - 220 mg N	0.04 - 220 mg N	0.04 - 220 mg N	0.04 - 220 mg N
Reproducibility (RSD)		≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%
Recovery		≥ 99.5 %	≥ 99.5 %	≥ 99.5 %	≥ 99.5 %	≥ 99.5 %
Limit of detection (LOD)		> 0.015 mg N	> 0.015 mg N	> 0.015 mg N	> 0.015 mg N	> 0.015 mg N
Sodium hydroxide addition		Automatic	Automatic	Automatic	Automatic	Automatic
Water addition		-	Automatic	Automatic	Automatic	Automatic
Boric acid addition		-	-	Automatic	Automatic	Automatic
Distillation residues removal		-	Automatic	Automatic	Automatic	Automatic
Titration residues removal		-	-	Automatic	Automatic	Automatic
Titration vessel cleaning		-	-	Automatic	Automatic	Automatic
External titrator connection		-	-	Yes	-	-
Internal colorimetric titration		-	-	-	Yes	Yes
Autocarousel connection (Autokjel)		-	-	-	-	Yes
Selectable distillation time		Yes	Yes	Yes	Not necessary	Not necessary
Steam flow regulation		-	10 - 100 %	10 - 100 %	10 - 100 %	10 - 100 %
Delay time (Devarda alloy analysis)		00 sec - 99 min 59 sec	00 sec - 99 min 59 sec	00 sec - 99 min 59 sec	00 sec - 99 min 59 sec	00 sec - 99 min 59 sec
Water consumption		From 0,5 L / min to 15 °C From 1 L / min to 30 °C	From 0,5 L / min to 15 °C From 1 L / min to 30 °C	From 0,5 L / min to 15 °C From 1 L / min to 30 °C	From 0,5 L / min to 15 °C From 1 L / min to 30 °C	From 0,5 L / min to 15 °C From 1 L / min to 30 °C
Display		LCD display	7" color touch screen	7" color touch screen	7" color touch screen	7" color touch screen
Distillation in series		-	-	Yes	Yes	Yes
User management		-	Yes	Yes	Yes	Yes
Barcode technology		-	-	Yes	Yes	Yes
Language selection		-	Yes	Yes	Yes	Yes
Programs		1 customizable	10 customizable	20 customizable	32 standard + 24 customizable	32 standard + 24 customizable
Archive (On-board data storage)		-	-	Yes	Yes	Yes
21 CFR part 11 compliance		-	-	-	Yes, accessory	Yes, accessory
Autosampler connection						
Interfaces		-	2 x USB; Ethernet	2 x USB; Ethernet; RS232 (external titrator)	2 x USB; Ethernet	2 x USB; Ethernet
Connectivity to Velp Ermes		No	Yes, via Wi-Fi or LAN	Yes, via Wi-Fi or LAN	Yes, via Wi-Fi or LAN	Yes, via Wi-Fi or LAN
Power input		1700 W at 115 V; 2200 W at 230 V	2200 W	2200 W	2200 W	2300 W
Weight	kg	25	26	27	31	31
	lb	55	57.3	59.5	68.3	68.3
Dimensions (WxHxD)	mm	385x780x416	385x780x416	385x780x416	385x780x416	385x780x416
	in	15.2x30.7x16.4	15.2x30.7x16.4	15.2x30.7x16.4	15.2x30.7x16.4	15.2x30.7x16.4