



CHEMISTRY ANALYSERS

Fully automated Chemistry Analysers



Autolyser 100

Autolyser

Autolyser 450



Specifications

Throughput:	100 tests / hr.	250 tests / hr.	420 tests / hr.
I.S.E.:	no	optional	optional
I.S.E. parameters:	-	Na, K, Cl, CO ₂ (indirect)	Na, K, Cl, CO ₂ (indirect)
Total throughput with ISE:	-	220 tests / hr.	600 tests /hr.
Sample positions:	9 (variable)	78	100
Number of reagents:	26	24 double / 48 mono reagents	40 double / 80 mono reagents
Analysis modes:	Endpoint, Kinetic, Fixed time, Sample blank	Endpoint, Kinetic, Fixed time, Sample blank	Endpoint, Kinetic, Fixed time, Sample blank
Tests modes:	Sequential access, Batch, STAT	Random access, Batch, STAT	Sequential access, Batch, STAT
Calibration process:	With factor, One-point linear, Multi-point linear, Multi-point non linear, Log linear, Exp linear, Log-logit 4, Log-logit 5, Parabola, Cubic spline	With factor, One-point linear, Polynomial, Cubic spline, Multi points, Log-logit 4, Log-logit 5, Least curve, Line 2 points, Semi-log	With factor, one-point linear, Polynomial, Cubic spline, Multi points, Log-logit 4, Log-logit 5, Best fit, Line 2 points, Semi-log
Reusable cuvettes:	no	yes	yes
Cuvette material:	Plastic	Glass	Glass
No. of reaction cuvettes:	90	32	84
Photometer type:	Filter wheel	Solid state	Solid state
No. of optical filter:	8	10	14
Wavelength [nm]:	340, 405, 450, 510, 546, 578, 630, 670	340, 380, 405, 436, 480, 510, 546, 578, 630, 700	340, 380, 405, 436, 478, 510, 546, 578, 600, 630, 660, 700, 740, 800
Absorbance range [Abs]:	0.000 – 3.500	0.000 – 3.000	0.000 – 3.000
Tungsten halogen lamp:	12 V / 20 W	12 V / 35 W	12 V / 50 W
Sampling arms:	1	1	3
Stirring arms:	1	0	0
Pipetting volume samples:	3.0 – 45 uL	1.8 – 100 uL	1.8 – 200 uL
Reaction volume:	180 – 500 uL	180 – 400 uL	180 – 400 uL
Reagent cooling:	no	yes	yes
Std.and Control cooling:	no	no	yes
Reaction temperature:	RT / 37 °C	RT / 30 / 32 / 37 °C	RT / 37 °C

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Cuvette washing system:	no	yes	yes
Online water support:	no	no	no
Canister water support:	yes	yes	yes
Sample pre-/postdilution:	yes	yes	yes
Calibrator predilution:	no	yes	yes
Reagent preheating:	yes	yes	yes
Clot Sensor:	no	no	yes
Quality control program:	Real time QC chart, Daily QC chart, Cumulative chart	3 levels, Westgard, Youden, Levey-Jennings, Trender, Histogram, Statistic histogram, Data sequence	3 levels, Westgard, Youden, Levey-Jennings, Trender, Histogram, Statistic histogram, Data sequence
Patient archive:	yes	yes	yes
Water consumption:	< 3000 mL / hr.	1125 mL / hr.	Water: 4000 mL / hr Detergent: 950 mL / hr
Equipped with computer:	yes (internal w. touchscreen)	no	no
LIS:	yes (mono direction only)	yes	yes
Barcode reader:	no	optional	yes
System packs:	no	yes	yes
Power supply:	100-240 VAC 50/60 Hz, 350 W	100-240 VAC 50/60 Hz, 300 W	100-240 VAC 50/60 Hz, 550 W
Physical dimensions:	630 x 480 x 510 mm	780 x 580 x 510 mm	1270 x 770 x 1190 mm
Weight net/gross:	70 / 80 kg	53 / 88 kg	162 / 265 kg
CE certified:	yes	yes	yes



Semi automated Chemistry Analysers



Photometer DTN-405



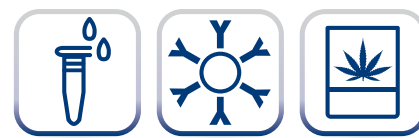
Photometer DTN-510K



Specifications

Analysis modes:	Endpoint, Bichromatic, Linear regression, Multi-calibration, Two-point, Kinetic	Endpoint, Bichromatic, Linear regression, Multi-calibration, Two-point, Kinetic
Wavelength range:	300 - 800 nm	300 - 800 nm
Filters:	5 standard filters 340, 405, 505, 546, 578 nm 3 free slots for optional filters	7 standard filters 340, 405, 450, 500, 546, 578, 670 nm 1 free slot for optional filters
Photometric range:	0.000 to 2.500 Abs	0.000 to 2.500 Abs
Light source:	Tungsten halogen lamp, 6V / 10W	Tungsten halogen lamp, 6V / 10W
Band width:	8 nm	8 nm
Data memory:	Up to 60 protocols, 1000 results	Up to 130 protocols, 1000 results
QC function:	2 controls per test	Westgard multirule, Levey Jennings plot, 2 controls per test
Display:	6" LCD	7" color LCD
Testing mode:	Flow-cell or cuvette	Flow-cell or cuvette
Flow cell:	30 µL Quartz flow-cell	30 µL Quartz flow-cell
Temperature control:	25° / 30° / 37° C	25° / 30° / 37° C
Interface:	2 x RS232 for service and data transfer 1 x Parallel port for external printer (optional)	1 x USB for mouse (equipped) 1 x USB for external keyboard or printer (optional) 1 x RS232 for data transfer
LIS connection:	yes	yes
Internal printer:	yes	yes
Languages:	English, Spanish	English, Spanish
Power supply:	100-240 VAC, 50/60 Hz, 80 Watt	100-240 VAC, 50/60 Hz, 80 Watt
Physical dimensions:	360 x 318 x 160 mm	350 x 330 x 165 mm
Weight net/gross:	7 kg / 8.5 kg	8 kg / 9.5 kg
CE certified:	yes	yes

Order Information for semi automated Chemistry Analysers



Product	Data Processing	REF
Photometer DTN-405	English software	20720
	Spanish software	20820
Photometer DTN-510K	English software	212510
	Spanish software	212511

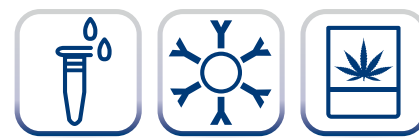
Order Information for fully automated Chemistry Analysers

Product	Description	Data Processing	REF
Autolyser 100	w/o barcode reader	Built-in	217100
Autolyser	sample and reagent barcode reader	w/o PC	20010C
	reagent barcode reader	w/o PC	20010B
	sample barcode reader	w/o PC	20010E
	w/o barcode reader	w/o PC	20010D
	open system w/o barcode reader	w/o PC	U2011D
	open system, sample barcode reader	w/o PC	U2111E
	open system, reagent barcode reader	w/o PC	U21410
Autolyser ISE	open system, sample & reagent barcode reader	w/o PC	U2211C
	sample and reagent barcode reader	w/o PC	U16201
	reagent barcode reader	w/o PC	U16203
	sample barcode reader	w/o PC	U16202
Autolyser 450	w/o barcode reader	w/o PC	U16200
	with I.S.E.	w/o PC	U23455
	w/o I.S.E.	w/o PC	U12450

Order Information for Consumables & Accessories

PHOTOMETER DTN-405 AND PHOTOMETER DTN-510K	Package Size	REF
Reaction cuvettes	30 pcs.	212358
Washing solution 30%	4x 125 mL	212367
Lamp assembly	1 pc.	212336
Flow-cell (metal base)	1 pc.	212330
Sampling tube	1x 25 cm	212332
Pump tube	1x 9.6 cm	212334
Drain / transfer tube	1x 30 cm	212335
Printer paper	1 pc.	212947

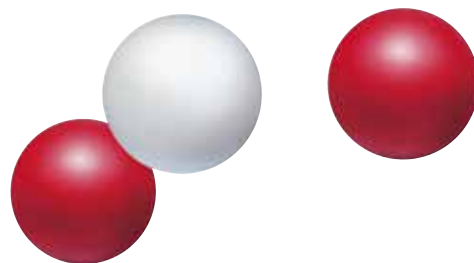
Order Information for Consumables & Accessories



AUTOLYSER 100	Package Size	REF
Reagent bottle 20 mL	50 pcs.	217202
Reagent bottle 40 mL	50 pcs.	217201
Reaction cuvettes	900 tests	217200
Sample cups	500 pcs.	217204
Cleanser	1 x 1000 mL	217206

AUTOLYSER AND AUTOLYSER ISE	Package Size	REF
Reagent bottle 10 mL	100 pcs.	U10126
Reagent bottle 20 mL	100 pcs.	U10125
Reagent bottle 50 mL	100 pcs.	U10124
Sample cups	1000 pcs.	U10122
Tensioactive solution	2 x 50 mL	U10117
	1 x 1000 mL	U14117
Cuvette Washing solution	1 x 1000 mL	U10118
Extra Washing solution	2 x 100 mL	U10119
Enzymatic solution	3 x 10 mL	U17201
Buffer conc.	3 x 10 mL	U17202
Reference conc.	3 x 10 mL	U17203
Reference solution	2 x 125 mL	U17204
Calibrator ISE low	2 x 20 mL	U17205
Calibrator ISE high	2 x 20 mL	U17206
Reference sensor	1 pc.	U13384
Na sensor	1 pc.	U13385
K sensor	1 pc.	U13386
Cl sensor	1 pc.	U13387
CO ₂ sensor	1 pc.	U13388
ISE washing solution	3 x 10 mL	U15100

AUTOLYSER 450	Package Size	REF
Reagent bottle 10 mL	100 pcs.	U10126
Reagent bottle 20 mL	100 pcs.	U10125
Reagent bottle 50 mL	100 pcs.	U10124
Sample cups	1000 pcs.	U10122
Tensioactive solution	2 x 50 mL	U10117
	1 x 1000 mL	U14117
Cuvette Washing solution	1 x 1000 mL	U10118
Extra Washing solution	2 x 100 mL	U10119
Multi-Cleaning solution	1 x 1000 mL	U14119
Enzymatic solution	3 x 10 mL	U17201
Buffer conc.	3 x 10 mL	U17202
Reference conc.	3 x 10 mL	U17203
Reference solution	2 x 125 mL	U17204
Calibrator ISE low	2 x 20 mL	U17205
Calibrator ISE high	2 x 20 mL	U17206
Reference sensor	1 pc.	U13384
ISE washing solution	3 x 10 mL	U15100



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