

COMPACT AUTOMATION
FOR SMALLER LABORATORIES...



Monarch-240

INTECO
DIAGNOSTICS
UK

Monarch-240 - Clinical Chemistry Analyser

Order Code: MON0240S

- Fully Automated Random Access.
- 240 tests per hour.
- Cycle time of 15 Secs.
- Refrigerated reagent and sample compartments.
- 58 reagent positions and between 9-64 sample positions.
- 120 Optical plastic cuvettes.
- 8 stops and 12 steps rinsing system.
- Supports remote maintenance via LIS/HIS Interface.

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Monarch-240 - Technical Specifications

FEATURE	DESCRIPTION
TYPE OF ANALYSER	PATIENT ORIENTED, DISCRETE, BENCH TOP ANALYSER
GENERAL	
CHEMISTRY OPTIONS	END POINT, KINETIC, TWO POINT, TWO POINT KINETIC
ONLINE TESTS	58 REAGENT POSITIONS
THROUGHPUT	240 T/HR
CYCLE TIME	15 SECS
COMMUNICATION	BI DIRECTIONAL, HOST
CRT	COLOUR MONITOR, WINDOWS XP
OUT PUT	PRINTER, INTERFACE RS232, ON SCREEN
SAMPLING	
SAMPLE ID	MANUAL, ALPHANEUMERIC
SAMPLE CONTAINERS	CUPS, TUBES
SAMPLE TYPES	SERUM, PLASMA, URINE, CSF, HAEMOLYSATE
SAMPLING VOLUMES	3UL TO 35 UL (0.1UL INCREMENTS)
SAMPLING POSITIONS	MINIMUM 9 POSITIONS AND MAXIMUM 64 POSITIONS
NO. OF SAMPLE PROBES	1
SAMPLE PROBE CARRYOVER	<1%
AUTOMATIC PREDILUTION	YES
AUTOMATIC RERUN	YES
SAMPLE LOADING	CONTINUOUS LOADING
SAMPLING TECHNOLOGY	LIQUID LEVEL DETECTION, CRASH DETECTION, CAPACITANCE
REAGENTS	
REAGENT IDENTIFICATION	POSITION BASED
REAGENTS PER CHEMISTRY	ONE OR TWO PER TEST
REAGENT VOLUME	10-350 UL (1UL INCREMENTS)
REAGENT POSITIONS	SINGLE REAGENT DISC, 58 POSITIONS, 70ML, 20ML OR 100ML BOTTLES
REAGENT COOLING	5-10 °C
REAGENT BOTTLES	20/70/100ML
REAGENT DEAD VOLUME	1ML
MULTIPLE BOTTLES	MULTIPLE BOTTLES FOR A PARAMETER CAN BE LOADED FOR HIGH WORKLOAD TESTS
NO. OF REAGENT PROBES	1

Monarch-240 - Technical Specifications

FEATURE	DESCRIPTION
REACTION AREA	
REACTION CUVETTES	120 OPTICAL PLASTIC CUVETTES, OPTICAL DIAMETER OF 6MM
TEMPERATURE MAINTENANCE	CIRCULATING WATER BATH 37OC +/- 0.1OC
NUMBER OF CUVETTES	120
STIRRERS	1, PADDLE TYPE
LAUNDRY UNIT	8 STOPS, 12 STEPS AUTOMATIC CLEANING WITH WARM WATER, VACUUM DRAINING OF LIQUID AND HIGH PRESSURE WARM WATER CLEANING
PHOTOMETRY	MONOCHROMATOR WITH HOLOGRAPHIC CONCAVE FLAT FIELD GRATING, 12 WAYS PHOTODIODE ARRAY DETECTOR
WAVELENGTHS	340NM, 380NM, 405NM, 450NM, 480NM, 505NM, 546NM, 570NM, 600NM, 660NM, 700NM, 800NM
ABSORBANCE RANGE	0-3.3
REACTION TEMPERATURE	37°C
TOTAL REACTION VOLUMES	150 - 550 UL
CALCULATED TESTS	YES
CALIBRATION TRACE	YES
PROZONE CHECK	YES
CALIBRATION MODES	1 POINT LINEAR, 2 POINT LINEAR, MULTIPOINT LINEAR, ISOZYME P, ISOZYME Q, LOGIT LOG 3P, LOGIT LOG 4P, LOGIT LOG 5P, EXPONENTIAL, SPLINE, POLYGON
CONSUMABLES	
SAMPLE CUPS	CUPS AND TUBES
CUVETTES	OPTICAL PLASTIC CUVETTES
LAMPS	HALOGEN LAMP 12V/20W
LAMP LIFE	2000 HRS, SLEEP MODE TO SAVE LAMP LIFE
DATA INPUT AREA	
CALCULATED TESTS	FREE FORMULA BASED
PC	CPU >2.2 GHZ
OPERATING SYSTEM	WINDOWS XP
PATIENT DATA STORAGE CAPACITY	PC MEMORY - NO LIMIT
QC DATA STORAGE CAPACITY	PC MEMORY - NO LIMIT
INTERFACE	RS 232C
CPU REQUIREMENT	>2.2G
MEMORY REQUIREMENT	>256M
PRINTER	ANY
DIMENSIONS	998*752*517 MM (120 KGS)

Monarch-240 - Technical Specifications

FEATURE	DESCRIPTION
QUALITY CONTROLS	
STATISTICS	MEAN, SD, CV
REACTION VIEWING	REACTION GRAPHS ONLINE
QC MANAGEMENT	PERSONALISED
RULES	MULTI RULE, WESTGARD - CUSTOMISATION FOR INDIVIDUAL NEEDS
CUMULATIVE QC DATA	YES
GRAPHS	LEVY JENNINGS, CUSUM CHECK, TWIN PLOT

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