





- · Random access instrument Up to 175 tests per hour
- · Reusable cells with wash station
- · Innovative Hi software
- · 30 reagent positions
- Easy maintenance
- · Handling of urgencies
- · Run with software







"Building on the proven success of the Echo line, and with its newly conceived design, Alcor embodies the technical improvements gained during the evolution of our classic models while incorporting the new techniques that have been developed



## **MADE IN ITALY**



Microbiology E.A. Ltd

Redefining Point of Care Testing.

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## "Less is More" Alcor 101

	Physical characteristics		Operation Features
SIZE / WEIGHT	Height: 40 cm (15.7 in) Weight: 32 kg (70.5 lbs) Depth: 67 cm (26.4 in) Width: 60 cm (23.6 in)	PIPETTING	Volume: sample, 2 - 300μL: reagent, 5-350 μL Precision: 1.5 CV% at 2 μL: 1 CV% at 4 μL Mixing by sample needle upon dispensation.
POWER SUPPLY	100-240 VAC, 50 / 60 Hrz, singlr phase with ground Independent on-off switch for refrigerated reagent plate Fuse compartment / fuses: 2 Amp @ 230 Vac, 4 Amp @ 115 Vac Power consumption: less than 200 VA (external PC excluded) Ground resistance: less than 0.10 Ohm	REACTION	Reaction volume, 210 - 350µL
		SAMPLE DILUTION	In-needle-dilution if allowed by method's sample volumes Automatic pre-dilution in a reaction cuvette, up to 1: 100
SAMPLING ARM	Leakage current: less than 2.5 mA  1 sampling needle, 80 mm needle stroke	TEMPERATURE CONTROL	Reagent refrigeration, circa 12 °C below room temperature Reaction cells, heating unit can be set from room temperature up to 42 °C ±0.2 °c (108 °F±0.5 °f)
DILUTER SYRINGE	Syringe capacity, 368 µL Syringe resolution 0.14 µL	TYPES OF TESTS	Endpoint, Bichromatic endpoint, Differential endpoint, Diffrential endpoint sample blank, Fixed Time, Kinetic
		TEST RUNS	Random / Urgent
HYDRAULIC SYSTEM	6 selfpriming persistaltic pumps ( life 1000hrs) with replaceable neoprene cassette ( life 500hrs) 2 vacuum pumps Pinch valve Manifold Containers*: Water, 5L; Cleaning solution, 2L; Waste, 5L	MEASUREMENT RATES	100 tests/hour for double reagent run 175 tests/hour in single reagent mode Maximum incubation + reading time: 660 seconds Typical precision, endpointbn 2.0 CV% kinetic 2.0 CV% Carry-over, lower that 15 parts per million
WASH STATION	* equipped with level sensor and safety connections  Needles: 4 dispensing, 5 aspiration, 1 cleaning	START-UP	The start-up procedure is run daily: self test, reader offset of optics, wash and check of all cuvettes
	(8 step washing sequence for each cuvette)	CALIBRATION	Reagent blank subtraction, 1 to 8 standards per test method
REAGENTS TRAY	Removable rack 30 bottles, 38 mL or 24 mL (up to 1140 mL total)		Linear: factor, linear, linear regression (standards"s repetitions) Non linear (3 interpolation types): cubic-spline, poly-linear and logit-log four parameters
SAMPLES TRAY	Removable tray, 30 + 20 numbeed positions, 30 tubes of 12 x 75 mm / 20 cups (3,5 ml type)		Free standard / control positions on all the sample plate Results can be recalculated when changing factor or curve
CUVETTE ROTOR REACRION CELLS	80 washable BIONEX® cuvettes which allow up to 30 000 tests per rotor Optical path 6 mm, 210 - 35µL reaction volume 100W heating resistance, temperature sensor, safety thermosta	_	Procedures programmed by componenet life counters
		PRINTING at REPORTS	Single test, complete sample, work sheet, method and Qcs Autiomatic sample reports upon test completion if requested
	1 halogen lamp ( 6 V, 10W) with extended UV emission 2 focusing lenses, optical glass 10 position filter disk 8 positions provided with interference filters of 340, 405, 505, 546, 578, 600, 650, 700 nm wavelenghts 1 free position and 1 solid posituion for dark reading Direct reading reaction cuvettes 6mm optical path ±2 nm on peak wavelength, band pass of±10 nm	NEEDLE WASHING	Sampling needle washed internally and externally with sysytem solution after every operation
			Connections
		POWER	Standard VDE removable power cord
PHOTOAMPLIFIER	R Photoelectric detector Signal amplifier Response range, 320 nm to 900 nm Photometric range, 0 to 2.5 Abs Linearity, ±0.5% full scale	EXTERNAL PC	USB port
		HOST/LIS	Ethernet LAN (samples, work list, results0 Standard ASTM ASCII protocol
	Precision: 0.5 CV% (0.050 to 1.500 Abs) Stability: daily reader offset less than 1% drift per day		
CONTROL	Real-time multitasking micrioprocessor based control		Database
EXTERNAL COMPUTER	Easy access to the electronics  (Minimum requirements0 CPU: dual Core, 1.7 Ghz RAM: 2GB I/O: USB 2.0 port Display: minimum resolution 1280x900 OS: Windows® 7, 8, 8.1, 10 Framework: .NE Tramework 4.0	WORKLIST/ SAMPLES	For each worklist: unlimited number of samples, unlimited number of tests, up to 99 sheets of tests per worklist Sample patient ID codes
		TEST METHODS	Unlimited number of methods in PC memory 50 active methods
		QUALITY CONTROL	Three-level controls per test, one month monitoring Reagent/calibrator/control lot monitoring, Exclusion of failing results from graphic and statistics
		ERROR LOG	Automatically stored at run-time, can be viewed or printed Powerful on-line monitoring

