

## OsmoMATE<sup>Cryo</sup>

### Technical specifications :

Principle of measurement	: Cryoscopic, freezing point.
Sample type	: Serum, plasma, urine and aqueous solutions.
Sample volume	: 50µl standard
Sample capacity	: Single sample
Calibration	: Automatic, free selection of three point or a two point
Test duration	: <50 seconds for most samples.
Sample throughput	: ~ 50 tests per hour.
Warm-up time	: < <b>10</b> minutes.
Range	: 0 to 3000 <sup>+</sup> mOsmol/kg
Units	: mOsmol/kg or Osmol/kg H <sub>2</sub> O.
Resolution	: One mOsmol/kg
Linearity	: Less than ± 1% in the range of calibration.
Repeatability	: (i) 0 to 400 mOsmol/kg ≤ ± 2 digits (ii) 400 -1500 mOsmol/kg ≤ ± 0.5% mOsmol/kg (iii) 1500 to 3000 mOsmol/kg ≤ ± 1% mOsmol/kg H <sub>2</sub> O.
Display	: 5.7 inch LCD colour touch screen.
Sample cooling	: Air cooled independent peltier elements for quick sample cooling, and ice crystal format with special blower for heat dissipation, no coolant fluid.
Data interface output	: (i) 2 x RS232 for external printer or PC (ii) 2x USB for external printer/barcode (iii) Dedicated position for built-in LIS (iv) Data download with USB to LIS or pen drive.

## Communication

(a) Options	: (i) Built-in dot matrix ribbon printer, economical to use, permanent record of data. (ii) External inkjet or dot-matrix printer with RS232 or USB ports.
(b) Data input	: Bar code reader (optional, reader)
On board storage	: Vast memory to store 4000 test results with calibration and control data for storage and review and download
Operating temperature	: Ambient +5 to 35°C
Power supply	: 220 V ( $\pm 10\%$ ) 50 Hz
Power consumption	: 60W
Dimension ( W $\times$ D $\times$ H ) mm	: (220 x 265 x 385 )
Weight	: 10.5 Kg
Standard supplies	: Main unit, 230V cable, pack of 100 sample cup, 100 ml FlowClean, lint free cloth, pack of 25, fuse : 1 no., 10 ampoules (10x1ml) of calibration standards 300 and 850 mOsmol/kg.