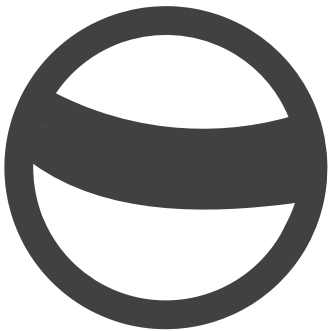


CORE - ES00004-A - CLASSIC SERIES



CORE

WHERE FULL AUTOMATION  
STARTS



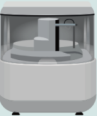
REF: ES00004-A

UDI-ID: 80536089401026

Up to 145 tests/hour



CLASSIC SERIES:



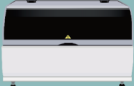
CORE

145  
Tests/hour



ALCOR

175  
Tests/hour



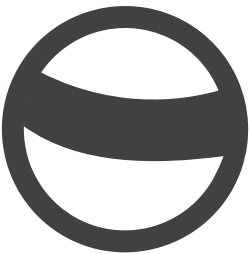
SPHERA

200  
Tests/hour



DUO

300  
Tests/hour



CORE



REF: ES00004-A

UDI-ID: 80536089401026

Up to 145 tests/hour



| Physical chracteristics      |                                                                                                                                                                                                                                                                                                                                           | Operation features  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIZE / WEIGHT                | Height: 40 cm (15.7 in)<br>Depth: 60 cm (23.6 in)<br>Width: 38 cm (14.9 in)<br>Weight: 20 kg (41.8 lbs)                                                                                                                                                                                                                                   | PIPETTING           | Volume: sample, 2 - 300 µL; reagent, 2-350 µL<br>Precision: 1.5 CV% at 2 µL; 1 CV% at 4 µL<br>Mixing by sample needle upon dispensation                                                                                                                                                                                                                                                                                             |
| POWER SUPPLY                 | 100 - 240 Vac, 50 /60 Hrz, single phase with ground<br><br>Fuses: 2.5A @ 230 Vac, 3.15Amp @ 115 Vac<br><br>Power consumption: less than 150 VA (external PC excluded)<br>Ground resistance: less than 0.1 Ohm<br>Leakage current: less than 2.5 mA                                                                                        | REACTION            | Reaction volume, 300 - 500 µL                                                                                                                                                                                                                                                                                                                                                                                                       |
| SAMPLING ARM                 | 1 sampling needle, 75 mm needle stroke<br>Capacitive liquid level detector                                                                                                                                                                                                                                                                | SAMPLE DILUTION     | In-needle dilution if allowed by method's sample volumes<br>Automatic pre-dilution in a reaction cuvette, up to 1:200                                                                                                                                                                                                                                                                                                               |
| DILUTER SYRINGE              | Long life plunger<br>Syringe capacity, 368 µL /<br>Syringe resolution, 0.07 µL                                                                                                                                                                                                                                                            | TEMPERATURE CONTROL | Reagents and samples refrigeration, about 12 °C below room temperature<br>Reaction cells, heating unit can be set from room temperature up to 42 °C ±0.2 °C                                                                                                                                                                                                                                                                         |
| HYDRAULIC SYSTEM             | 2 self-priming peristaltic pumps with replaceable neoprene tube cassette<br>Optional 3 <sup>rd</sup> peristaltic pump + aspiration needle to empty reaction cuvettes<br>Pinch valve<br>Containers: Water, 2 L; Waste, 2 L<br>Water average consumption: 5 mL / test                                                                       | TYPES OF TESTS      | Endpoint, Bichromatic endpoint, Differential endpoint, Differential endpoint sample blank<br><br>Fixed Time, Kinetic, Kinetic Bichromatic                                                                                                                                                                                                                                                                                           |
| REAGENTS TRAY                | Removable reagent rack 20 bottles, 38 mL or 15 mL<br>Optional multiple reagent trays with worklist automatically managed by the software                                                                                                                                                                                                  | TEST RUNS           | Random / Urgent (sample attribute)                                                                                                                                                                                                                                                                                                                                                                                                  |
| SAMPLES TRAY                 | Removable tray, 10 numbered positions, tubes of 12 - 13 mm, 3 - 5 mL/ cups of 1 mL (cups requires a metal adapter for level detection)<br><br>Optional configuration: 10 reagent positions and 20 sample positions                                                                                                                        | MEASUREMENT RATES   | 145 tests/hour<br><br>Maximum incubation + reading time: 675 or 1350 seconds<br>Typical precision, endpoint 2.0 CV% / kinetic 2.0 CV%                                                                                                                                                                                                                                                                                               |
| CUVETTE ROTOR REACTION CELLS | 4 reaction segments of 24 optical cuvettes (single use) total 96<br>Optical path 9.5 mm, 300-500 µL reaction volume<br>100W heating resistance, temperature sensor                                                                                                                                                                        | CALIBRATION         | Reagent blank subtraction, 1 to 8 standards per test method, unlimited repetitions on every calibration point<br>Linear: factor, linear, linear regression<br>Non linear (5 interpolation types): cubic-spline, poly-linear, multi-parameter, logit-log four parameters and five parameters<br>Free standard / control positions (5 mL tubes or 1 mL cups)<br>Results can be recalculated when changing factor or calibration curve |
| OPTICAL GROUP                | 1 halogen lamp (6 V, 10 W) with extended UV emission<br>2 focusing lenses, optical glass<br>10-position filter disk: 8 positions provided with interference filters of 340,405, 505, 546, 578, 600, 650, 700 nm wavelengths,<br><br>1 free position and 1 solid position for dark reading , ±2 nm on peak wavelength, band pass of ±10 nm | MAINTENANCE         | Procedures programmed by component life counters<br>Simple yearly maintenance procedure                                                                                                                                                                                                                                                                                                                                             |
| PHOTOAMPLIFIER               | Photoelectric detector<br>Signal amplifier<br><br>Response range, 340 nm to 900 nm<br>Photometric range, 0 to 3 Abs<br><br>Linearity, 0.5% from 0.1 to 1.5 Abs<br>Precision: 1% CV or 1 mAbs min. (From 0.1 to 1.5 Abs)<br>Stability: daily reader offset, less than 1% drift per day                                                     | PRINTING REPORTS    | Single test, complete sample, work sheet, method and QCs<br>Automatic sample reports upon test completion if requested                                                                                                                                                                                                                                                                                                              |
| CONTROL                      | Real-time multitasking microprocessor based control Easy access to the electronics                                                                                                                                                                                                                                                        | NEEDLE WASHING      | Sampling needle washed internally and externally with system solution after every operation                                                                                                                                                                                                                                                                                                                                         |
| EXTERNAL COMPUTER            | (Minimum requirements for Software  v.1.5)<br><br>CPU: Intel i3 or superior<br>RAM: 8GB<br><br>SSD: 100GB Hard Disk<br>I/O: USB 2.0 port<br>Display: minimum resolution 1280x768<br>OS: Microsoft Windows® 10 or 11<br>Framework: .NET framework 4.6 | <b>Connections</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                              |                                                                                                                                                                                                                                                                                                                                           | POWER               | Standard VDE removable power cord                                                                                                                                                                                                                                                                                                                                                                                                   |
|                              |                                                                                                                                                                                                                                                                                                                                           | EXTERNAL PC         | USB port                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                              |                                                                                                                                                                                                                                                                                                                                           | HOST/ LIS           | Ethernet LAN (samples, work list, results)<br><br>Standard ASTM ASCII protocol                                                                                                                                                                                                                                                                                                                                                      |
|                              |                                                                                                                                                                                                                                                                                                                                           | <b>Database</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                              |                                                                                                                                                                                                                                                                                                                                           | WORKLIST/ SAMPLES   | For each worklist: unlimited number of samples, unlimited number of tests, up to 99 sheets of tests per worklist.<br>Tests archive with powerful search tools<br>Patient management                                                                                                                                                                                                                                                 |
|                              |                                                                                                                                                                                                                                                                                                                                           | TEST METHODS        | Unlimited number of methods in PC memory<br>80 active methods                                                                                                                                                                                                                                                                                                                                                                       |
|                              |                                                                                                                                                                                                                                                                                                                                           | QUALITY CONTROL     | Three-level controls per test, one month monitoring<br>Reagent/calibrator/control lot monitoring,<br>Exclusion of failing results from graphic and statistics                                                                                                                                                                                                                                                                       |
|                              |                                                                                                                                                                                                                                                                                                                                           | ERROR LOG           | Automatically stored at run-time, can be viewed or printed. Powerful on-line monitoring                                                                                                                                                                                                                                                                                                                                             |