



# Magister C24

The world's first small fully automated  
blood group analyser



BECAUSE SMALL  
IS OUR CHALLENGE!

## For labs with low throughput

Magister C24 is specifically designed for labs with a low throughput that want to work fully automated. With its capacity to handle up to 50 samples per day, Magister C24 is perfect for low-volume labs, satellite laboratories and STAT laboratories.

## Work as safe as possible

Magister C24 now provides the safety of an automated system to labs with low throughput. It fulfils all requirements for in vitro diagnostics and it complies with the stringent quality standards necessary in blood transfusion.



Sample and reagents area with 32 positions for sample tubes and 20 positions for reagents



Centrifuge with a capacity of 12 Cellbind gel cards



Incubator at 37°C and pipetting station for 12 Cellbind gel cards



High resolution reader and storage for 24 Cellbind gel cards



# Technical Specifications

## Dimensions

- Length maximum 85cm
- Depth maximum 85cm
- Height door closed 85cm / door open 115cm
- Weight approximately 80kg

## Power

- Self-regulating power supply, 100 - 240V AC
- Power consumption maximum 1000W

## Operating Conditions

- Temperature 15 - 30°C
- Relative humidity 10 - 85% at 30°C or below
- Heat release < 300W
- Noise production < 60dBA

## Liquid and Waste system

- External system liquid consisting of demineralised water (5L capacity)
- Detergent consisting of 0.4 – 0.5% Decon
- Level detection by weight with acoustic signal
- External waste

## Pipetting Channels

- Two independent probes that can move simultaneously
- Pipetting range 5µL - 1mL
- Pipetting precision CV range 5% (5µL) - < 1% (> 50µL)
- Pipetting accuracy ≥ 99%
- Carry over < 10<sup>-7</sup>
- Liquid level detection
- Clot detection

## Barcode Reader

- While loading samples and reagents
- Barcode types 1D bar codes: Code 128, EAN UPC, Code 39, 2/5 Interleaved, Codabar
- Maximum barcode length 25 digits

## Sample Area

- Capacity 32 samples
- Removable racks
- 2 sample racks of maximum 16 positions each
- Tube size diameter 10 - 16mm, height 80 - 100mm
- Paediatric tubes



#### Reagents Area

- Capacity 20 reagents (including Cellbind LISS)
- 2 reagent racks of maximum 10 positions each

#### Removable Racks

- Stirring function with real time stirring efficiency check on both racks
- Vial size diameter maximum 26mm / height maximum 100mm

#### Centrifuge

- Capacity of 12 cards
- Maximum 1800RCF

#### Safety and Security

- Instrument is completely closed
- System pauses automatically upon opening
- Software user level definition to prevent unauthorised changing of parameters/data
- Dynamic process control for real time monitoring of actions, tasks, logging events, warnings and errors
- Dynamic error management to automatically recover tasks
- Advanced hardware and software safety features to avoid failures on critical components

#### Incubator

- Incubator capacity 12 gel cards
- Incubator at constant temperature of 37°C

#### Reader

- Reader sensor of 5Mpx
- USB Interface

#### Software Interface and Operating System

- New generation, user-friendly application and programming software
- Software runs under Microsoft® Windows 8 and 7
- Compatible with touchscreens
- Translation tool available
- Appearance can be customised

#### Connection to Host PC

- Bi-directional connection to host PC
- HL7 Manager functionality possible
- Storage of results including image of the Cellbind gel card
- Storage of sample information, Cellbind gel card information and reagent information (including article number, lot number and expiry date)

SMALL THROUGHPUT REQUIRES A **TRUE SMALL SIZED ANALYSER**

## Personalise your protocols

Magister C24 offers you a wide range of basic, frequently used protocols. For protocols that are unique for your lab or even for one specific situation, the software of Magister C24 is designed to allow you to create any protocol you require.

## A size that fits your needs

With its bench-top design and its small dimensions, Magister C24 easily fits in every lab. Its small size also enables you to combine multiple analysers to optimise your daily routine.



IS YOUR FUTURE  
SMALL ENOUGH?



Sanquin Reagents is part of Sanquin Blood Supply Foundation and has been active in diagnostics for nearly 40 years. Our approach is to think with people, not for people, as no one is alike. We understand that all laboratories need a solution that suits their demands and we strive to support this by offering a solution that fits. Even if this means challenging the status quo. We do this with Magister C24, developed for laboratories with low throughput, as we believe this can help them forward. Small is our challenge, and we will prove it!

## Sanquin Divisions

Blood Bank

Diagnostic Services

Plasma Products

Research

Reagents

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*Any information contained herein is of a general nature, depending on the applicable circumstances certain elements of the information may deviate from the information provided in this folder.*

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**Mast  
Group**



**Magister C24**  
*because small is our challenge!*