

AGOWA genomics' magnetic particle manipulators

Our 3 sep™ boxes **sep 96 x 0.2**, **sep 72 x 1.4** and **sep 24 x 5.0** are software driven devices for manipulating magnetic microparticles used in molecular biology or biochemistry applications.

The magnetic particle manipulators can be integrated onto any automated lab equipment to combine magnetic microparticle handling with liquid handling. The software supplied with AGOWA genomics' magnetic particle manipulators enables the devices to be programmed and controlled by the software running the robotic system.

These compact and robust systems is optimised for use with the AGOWA genomics' range of magnetic bead-based DNA extraction kits (mag™ and sbeadex® series).



sep 96 x 0.2

A 96-well magnetic particle manipulator designed for handling a maximum reaction volume of 180 µl and utilises 200 µl microtiterplates, strips or single reaction tubes.



sep 72 x 1.4

A 72-well magnetic particle manipulator designed for handling a maximum reaction volume of 1 ml and utilises 1.4 ml standard strips or single reaction tubes.



sep 24 x 5.0

A 24-well magnetic particle manipulator designed for handling a maximum reaction volume of 4 ml and utilises 5 ml standard tubes (dia: 12 mm, round bottom).

Advantages

- Neodymium iron boron magnets mean short collection times for the magnetic microparticles
- Integration onto automated liquid handling is possible via compatible software
- Variable temperature control (between 15 °C and 85 °C), allows for the customisation of protocol to the assay (e.g. elution of oligodT immobilised mRNA)
- Standard disposable plasticware (tubes and plates) can be used
- Small foot print saves space on robotic worktables
- Low maintenance
- Depending on application and device, working volumes between 50 µl and 4 ml are able to be processed
- Optimised for use with our DNA extraction kits



*Setting standards
in analytical science*

Technical specifications

	sep 96 x 0.2	sep 72 x 1.4	sep 24 x 5.0
Maximum number of samples *	96	72	24
Maximum working volume	180 µl	1.0 ml	4.0 ml
Disposable plasticware required	Standard 0.2 ml PCR tubes	1.2 ml 8-tube strips	5 ml standard tubes (dia: 12 mm)
Dimensions (l x w x h in mm)	166 x 105 x 124	166 x 105 x 124	166 x 105 x 124
Weight	approx. 3 kg	approx. 3 kg	approx. 3 kg
Power supply	24V DC	24V DC	24V DC
Maximum heating temperature	85 °C	85 °C	85 °C
Active cooling option	yes	yes	yes
Maximum water pressure	12 bar	12 bar	12 bar
Water consumption (during the cooling phase)	ca. 300 ml / min	ca. 300 ml / min	ca. 300 ml / min
Time needed until appliance is ready for operation	2 sec	2 sec	2 sec
Acoustic error alarm	yes	yes	yes
Time to heat from 20 °C to 55 °C	4 min	4 min	6 min
Time to cool from 55 °C to 20 °C **	5 min	5 min	6 min
Number of magnet positions	3	3	7
Robot compatible software	yes	yes	yes
Stand alone application	possible	possible	possible
Serial port ***	RS232	RS232	RS232
Scope of delivery			
Cooling hose	10m	10m	10m
Cooling option adapter	1	1	1
Power supply (110 V / 220 V)	1	1	1
Software package (for stand alone and integrated use)	1	1	1
Disposables plasticware starter pack	Standard 0.2 ml PCR tube	1.4 ml storage tube	5 ml standard tube
Manual	1	1	1
Ordering information			
Cat. No.	45300	45400	45500

* The number of samples can easily be scaled up by the parallel use of multiple magnetic particle manipulators.

** When applying the active cooling option

*** USB adapter available



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