

chemagic 360-D instrument (2024-0020)
 Dimensions: 800 x 800 x 900 mm (L/W/H).
 Available with three different rod heads.



chemagic™ 360 instrument

Compact High Volume, High Throughput Nucleic Acid Isolation

Based on PerkinElmer patented magnetic bead technology the chemagic 360 instrument represents the ideal solution for nucleic acid isolation in a huge variety of research market segments including but not limited to Human Genetics, Biobanking, HLA Typing, Virus and Bacteria Detection.

Experience the revolutionary compact benchtop design of our new developed chemagic 360 instrument. Based on the well established chemagen Technology, the system offers a flexible solution for different sample processing and throughput needs. Configurable with three kinds of chemagic Rod Heads the system can process sample volumes from 10 µl - 10 ml (see table below). To support your automation needs, the system is equipped with the chemagic Software and the chemagic Dispenser 360 unit. These allow LIMS-compatible bar code reading/sample tracking and automated buffer filling for all volume applications. Due to its modular set up, the chemagic 360 instrument can be integrated with standard liquid handling units.

Key features

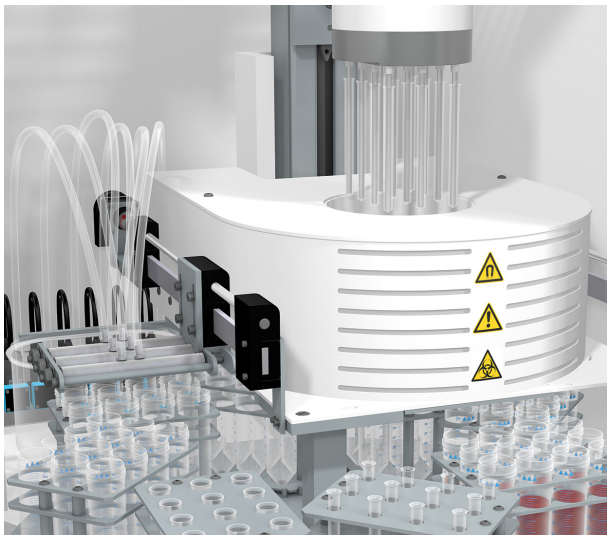
- Sample volumes from 10 µl - 10 ml
- High throughput
- Huge kit portfolio
- No cross contamination
- Various sample materials in one run
- Integrates with liquid handling platforms

Benefits

- Revolutionary compact benchtop design
- Convenient and improved sample management
- Intuitive Software
- Bar code reading for sample tracking
- LIMS compatible log files
- Patented technology and kits

chemagic Rod Head	No. of Samples	Samples Volumes	Tubes/Plates	Processing Time
12	1 -12	0.5 ml - 10 ml	50 ml tubes	e.g. for 10 ml blood ~ 55 min
24	1 - 24	200 µl - 4 ml	24 well plates XL	e.g. for 4 ml blood ~ 55 min
96	1 - 96	10 µl - 400 µl	96 well plates	e.g. for 400 µl blood ~ 55 min

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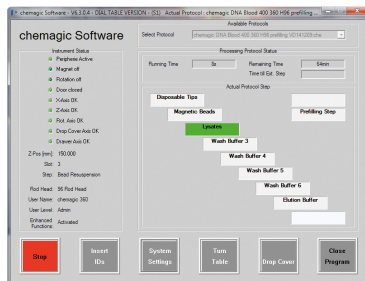
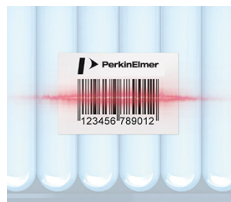
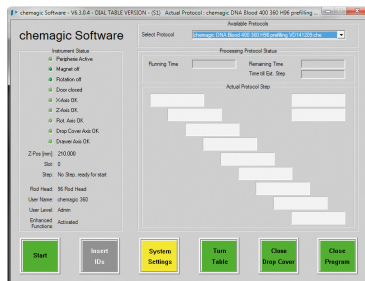
CHEMAGIC 360 FEATURES

chemagic Software

The intuitive **chemagic Software** is the ideal solution for laboratories who require high quality assurance while they use the chemagic 360 instrument for nucleic acid isolation. For ease of operation and advanced QA needs the chemagic Software generates log files, which can be easily intergrated in LIMS systems.

Features at a glance

- Bar code reading/sample tracking
- LIMS compatible log files
- Easy navigation and set up
- Pre-installed protocols
- Tracking the progress of a running protocol



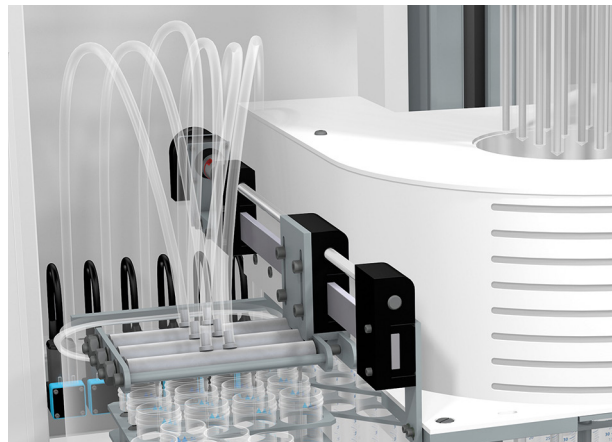
The protocol status shows within the main window of the chemagic Software: the running time, remaining time and the actual protocol step while running the protocol enabling the complete tracking of the process.

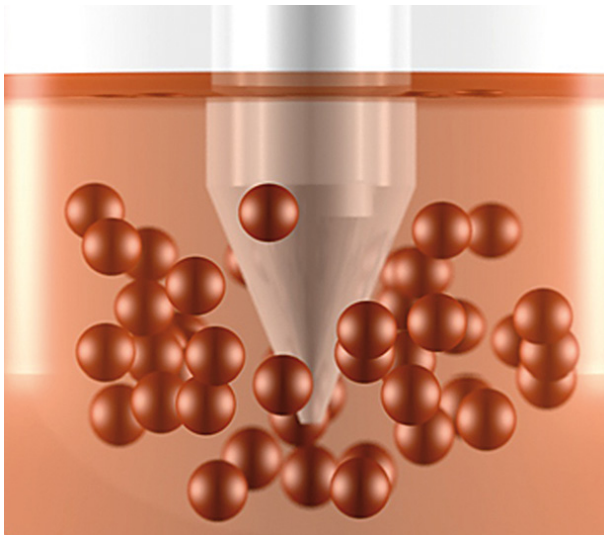
chemagic Dispenser 360 unit

The use of the chemagic 360 instrument simplifies and improves time consuming sample preparation steps in nucleic acid isolation significantly, by using the **chemagic Dispenser 360 unit**. The chemagic Dispenser 360 unit notably reduces hands-on time when preparing a chemagic 360 instrument run. Independent of the amount of needed buffer, the additional unit prefills tubes/ plates quickly and accurately. Variants of the chemagic Dispenser 360 unit are available to suit the corresponding chemagic Rod Head formats (12 and 24/96).

Features at a glance

- Reduces hands-on time
- Cost-efficient through optimal buffer dispensing
- Fast and reliable membrane pump technology
- Fully integrated in the chemagic 360 software





MAGNETIC BEAD BASED NUCLEIC ACID ISOLATION

Magnetic Separation

The **magnetic separation** is based on the use of metal rods that are lowered into a process solution **(A)**. To collect beads from the solution, the rods are magnetized. Pellets form at the tips of the rods, and the rods are withdrawn from the solution with the pelleted beads attached.

Resuspension into the next process solution, for example, wash or elution buffer, is achieved by switching off the magnetism while rotating the rods **(B)**. This normally difficult step is thus performed quickly and thoroughly, resulting in isolation products with high yields and purities.

Unique property of the chemagic Separation Process

- The transfer of magnetic beads instead of liquids ensures no cross contamination of the samples during the isolation process.
- Smooth and efficient resuspension technology ensures the isolation of long DNA fragments up to 200 kb.

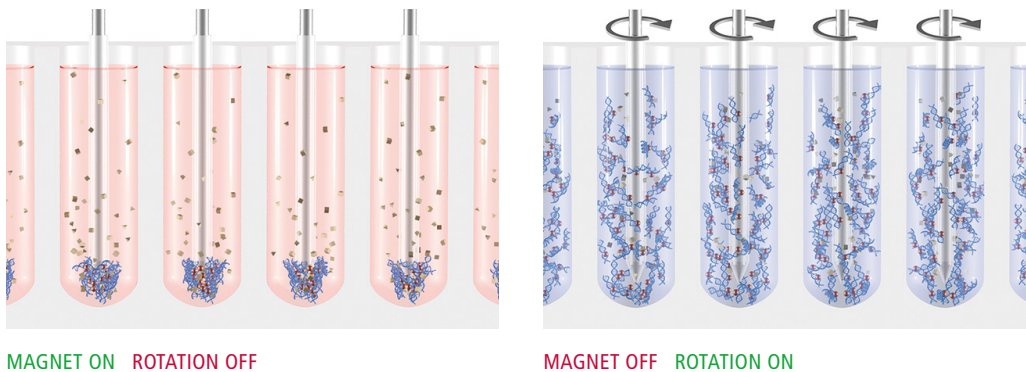


Fig.: Magnetic separation technology

Ordering Information

Product Number	Product Name
2024-0020	chemagic 360 instrument
CMG-371	chemagic 360 12 Rod Head Set
CMG-376	chemagic 360 24 Rod Head Set
CMG-370	chemagic 360 96 Rod Head Set

chemagic Kits Selection – Ordering Information and Kit Performance

The chemagic Kit portfolio comprises a large amount of kits for the isolation of gDNA, total RNA, viral and bacterial nucleic acids.

Ideal Solutions for your Human Genetics Research and Biobanking

Cat. No.	Product Name	Samples/Run	Samples size	Typical Yield [μg]	Stand. Elution Vol. [μl]	Typical Conc. [$\text{ng}/\mu\text{l}$]
CMG-1091	chemagic DNA Blood Kit special	1 - 96	200 - 400 μl	8 - 16	250	32 - 64
CMG-1074	chemagic DNA Blood Kit special	1 - 24	2 - 4 ml	80 - 160	300 - 500	250 - 1,000
CMG-704	chemagic DNA Blood Kit special	1 - 12	7 - 10 ml	200 - 400	500	400 - 800
CMG-729	chemagic DNA Buffy Coat Kit special	1 - 96	100 μl , obtained from max. 1 ml blood	5 - 10	200	25 - 50
CMG-1037	chemagic DNA Saliva Kit special	1 - 96	600 μl	Up to 50 μg , depending on donor	200 - 300	150 - 250, depending on donor
CMG-1081	chemagic DNA Saliva Kit special	1 - 24	4 ml	Up to 150 μg , depending on donor	300 - 500	300 - 500, depending on donor
CMG-748	chemagic DNA Buccal Swab Kit special	1 - 96	1 swap/prep.	1 - 3	100 - 200	10 - 20
CMG-1099	chemagic FPPE DNA Kit special	1 - 96	10 μm section or equivalent	Depending on sample material	50 - 100	n.a.
CMG-1090	chemagic Circulating NA Kit special	1 - 24	4 ml plasma	n.a.	60 - 100	n.a.
CMG-1081	chemagic DNA Amniotic Fluid Kit special	1 - 12	1 ml	0.5 - 3	100	5 - 30

chemagic Kits for the Isolation of total RNA

Cat. No.	Product Name	Samples/Run	Samples size	Typical Yield [μg]	Stand. Elution Vol. [μl]	Typical Conc. [$\text{ng}/\mu\text{l}$]
CMG-1084	chemagic RNA Blood Kit special	1 - 24	2.5 ml stabilized blood	7 - 16	200	35 - 80
CMG-1212	chemagic RNA Tissue Kit special	1 - 96	10 mg or equivalent of tissue, fresh buffy coats and RNA protected blood samples	Depending on sample material	50 - 100	n.a.

chemagic Kits for the Isolation Nucleic Acids in Pathogen Detection

Cat. No.	Product Name	Samples/Run	Samples size	Typical Yield [μg]	Stand. Elution Vol. [μl]	Typical Conc. [$\text{ng}/\mu\text{l}$]
CMG-1033	chemagic Viral DNA/RNA Kit special	1 - 96	300 μl of any blood free body fluids, e.g. serum/plasma, swabs, feces suspensions	n.a.	50 - 100	n.a.
CMG-1049	chemagic Viral NA/gDNA Kit special	1 - 96	200 μl of body fluids (e.g. whole blood, serum/plasma, swabs, feces suspensions, urine), bacterial o/n cultures	n.a.	50 - 100	n.a.

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