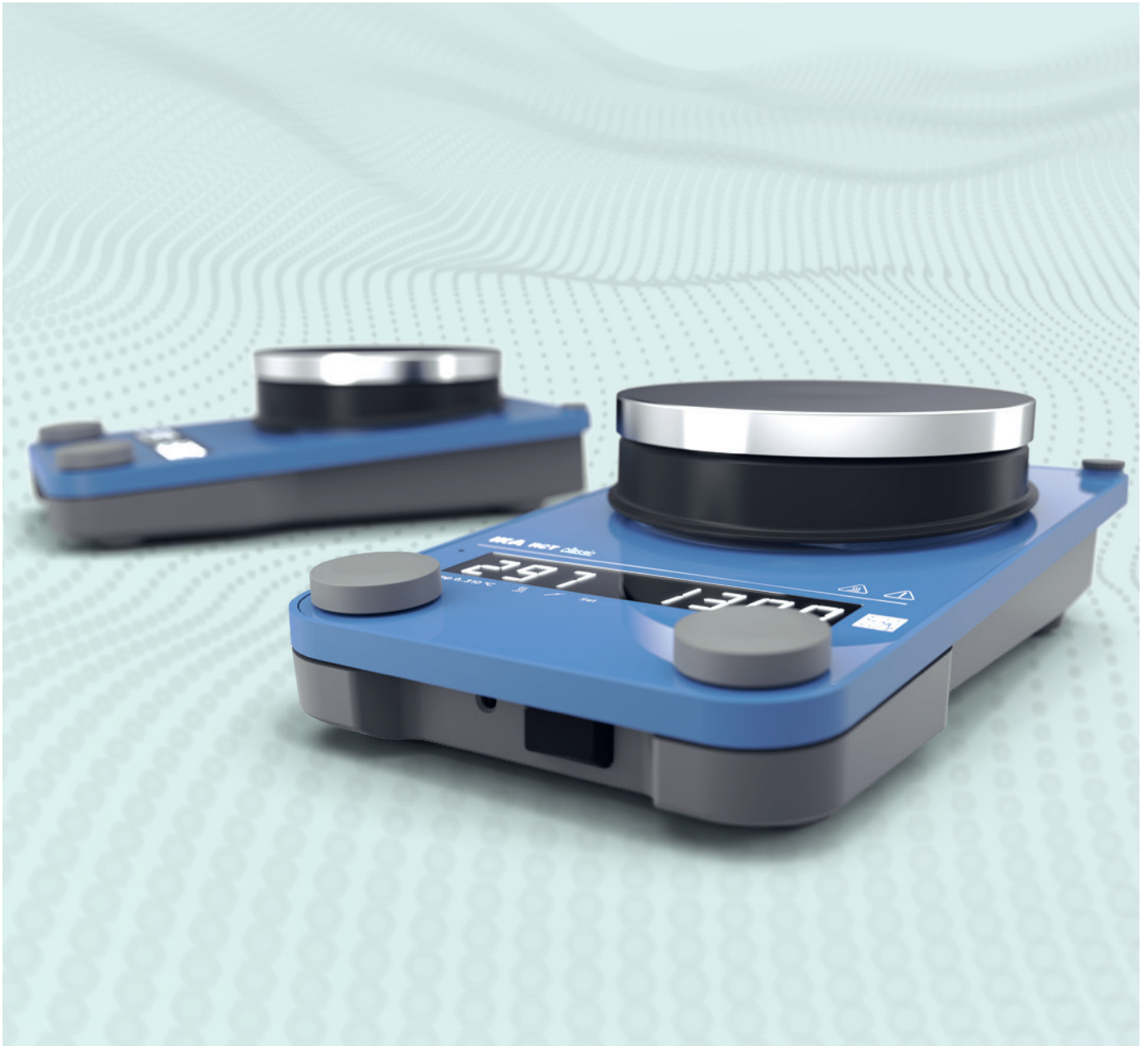


IKA

designed for scientists

EN



THE PROVEN CLASSIC | [RCT classic](#)



Customized Application Consulting

At the IKA Application Center, you can see for yourself the performance and capabilities of our magnetic stirrers. Our experts will demonstrate the application and show you the accessories.



One Service for Everything, Worldwide

Choosing an IKA magnetic stirrer also means choosing IKA's excellent technical service in your region. Our team is here to assist you worldwide with service and application questions. Spare parts are covered by a 10-year warranty.



Do you have any questions?

Our service team is available to assist you personally:

+49 7633 831 860

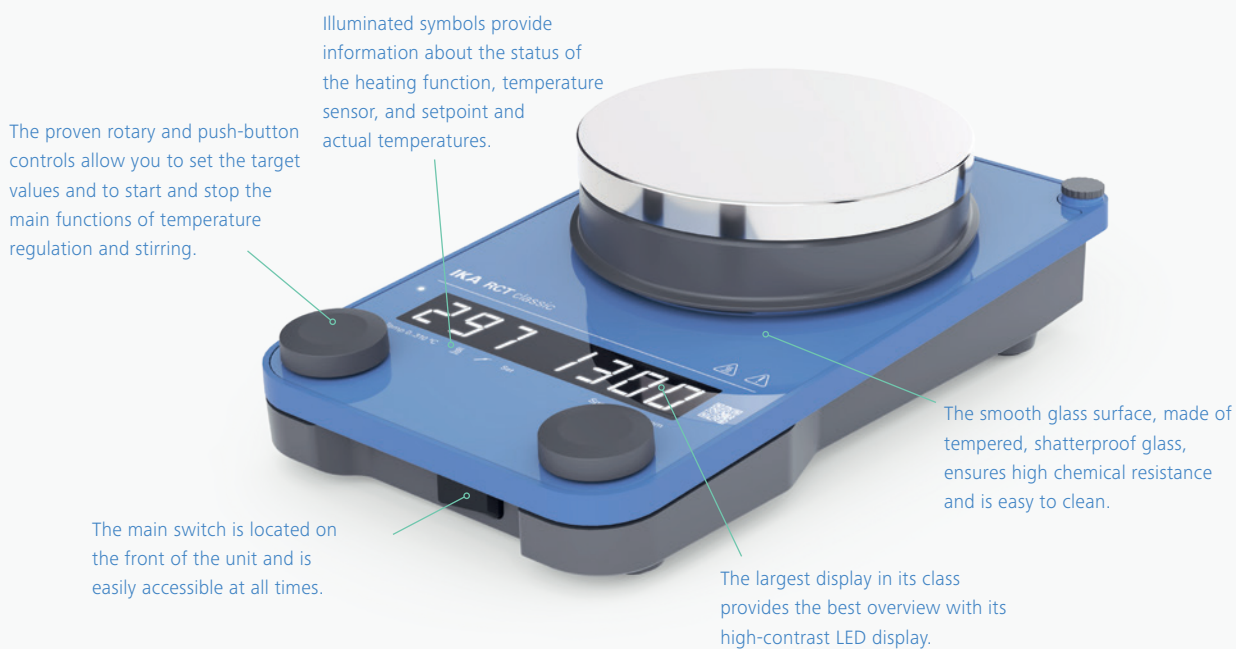
2+1 Year
Warranty*



*2+1 year warranty after registration at www.ika.com/register, wear-and-tear parts excluded

Redesigned

The first IKA magnetic stirrer was introduced at ACHEMA in 1950. It was a real crowd puller. For many years now, the RCT classic has been our best-selling magnetic stirrer. It is many things: the foundation for inventions and advancements, a popular entry-level model, a long-standing companion, and a perennial favorite in the lab. And: It provides safety for researchers. That's why no one willingly parts with it. Neither do we. But can we make it better? "That's always possible," our developers and designers concluded.



4

/// EVEN MORE RELIABILITY

5

/// EVEN MORE SAFETY

6

/// MORE FEATURES

7

/// TECHNICAL DATA

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/// ACCESSORIES

Even More Reliability

The RCT classic will serve you well in the lab for decades:

- › It features a powerful, maintenance-free EC motor.
- › The surface is made of tempered, shatterproof safety glass, making it chemical-resistant and easy to clean.
- › The housing is made of fire-resistant and robust die-cast aluminum with a high-quality powder coating.
- › Thanks to its sealed design (IP42 protection rating), it can be used even under extreme conditions in the laboratory, such as when stirring cold samples.
- › The electronic connections on the rear of the unit are protected by the special design.



Safety Shutdown of the Temperature Control Function

The signal transmitted by the sensor is automatically checked. For example, the system detects if the temperature sensor is not immersed in the medium or is defective. The time until the heating function is shut off can be set individually. The information is displayed as a message on the screen (Error 5).

Even Greater Safety



In accordance with the DIN EN 61010-2-010 standard, the RCT classic meets all safety requirements for laboratory equipment used to heat substances. The device monitors all safety-relevant components and is therefore suitable for unattended operation. User safety is guaranteed even in the event of a failure of individual components. As a result, the RCT classic is not only CE-certified but has also been tested and certified by TÜV SÜD.



Separate sensor for the safety temperature

In addition to the temperature sensors that measure directly in the sample and on the heating plate, there is an additional, independent sensor on the heating plate. This ensures that the critical temperature of the heating plate is not exceeded under any circumstances —not even if the temperature sensor in the medium or in the heating element fails.

Adjustable, independent safety temperature

The safety temperature of the heating plate can be adjusted with a tool independently of the setpoint temperature and is monitored by a separate electronic unit with its own temperature sensor. The set safety temperature is shown on the display.



Warning: Hot Surface

To protect against burns from the hot plate, the magnetic stirrer issues a warning as soon as the residual heat of the heating plate, with the heating function turned off, exceeds a temperature of 50 °C. The warning message on the display is shown even when the device is turned off.

Confirmation Mode

The lock function in operating mode D prevents unintentional changes to the set speed and temperature values. In addition to any setpoint change, the set safety temperature must also be confirmed when the device is restarted.



More Features

The RCT classic offers numerous new features:

Extended operating temperature range

Compared to the previous model, the RCT classic offers you an expanded operating temperature range. With an external sensor connected, temperatures as low as -20 °C can be displayed.

Sustainability in Mind

Optimal energy efficiency and reduced self-heating thanks to perfect insulation of the heating plate, EC motor, and electronic switching power supply.

Improved Temperature Control

Two optimized temperature control modes ensure particularly fast heating or particularly precise temperature control without overshoot.

And that remains

- › Long service life
- › Powerful motor
- › Excellent magnetic coupling
- › Soft start to prevent the magnetic rod from breaking during the start-up phase
- › Aluminum heating plate for optimal and uniform heat transfer
- › Suitable for unattended operation
- › Upgrade options thanks to compatibility with ETS-D contact thermometers



Ready for labworldsoft® 6

Integration with the labworldsoft® 6 laboratory software for digital networking, monitoring, and control.

QR Code

Simply scan to access device information, downloads, accessories, and warranty extensions. Or contact us directly.

RS232 and USB interfaces

Various interfaces for connecting to a PC. This allows the magnetic stirrer, for example, to be safely controlled remotely.

Technical Data

MIXING

Max. stirring volume (H ₂ O)	20 l
Speed range	50 – 1500 rpm
Self-heating Footprint due to max. stirring (RT: 22 °C / Duration: 1 h)	+13 K

TEMPERING

Heating capacity	600 W
Heating temperature range	RT + self-heating of the device – 310 °C
Adjustable safety circuit	50 – 360 °C
Connection for external Temperature sensor	PT 1000*, ETS-D5, ETS-D6
Temperature measurement with PT1000	-20 – 310 °C

GENERAL

Footprint Dimensions	Ø 135 mm
Footprint Material	Aluminum alloy
Dimensions (W x H x D)	160 x 85 x 270 mm
Weight	2.4 kg
USB / RS232 Interface	Yes
Permissible ambient temperature range	5 – 40 °C
Permissible relative humidity	80 %
Protection class according to DIN EN 60529	IP 42

*Included in delivery



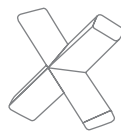
Accessories



IKAFLON 25 round (5 pcs.)
Dimensions (L x Ø): 25 x 8 mm
The round, cylindrical shape without a pivot ring ensures uniform mixing.
Ident. No.: 0004488900



TRIKA 55 (5 pcs.)
Dimensions (L x Ø): 55 x 14 mm
Suitable for mixing poorly soluble samples or for preventing sedimentation.
Ident. No.: 0004499500



IKAFLON 20 cross (5 pcs.)
Dimensions (L x Ø): 20 x 20 mm
The "cross" shape creates deep vortices for fast and efficient mixing
Ident. No.: 0004496400



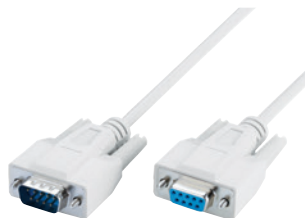
ETS-D5
Electronic contact thermometer with three patented operating modes. Ensures perfect temperature control without overshoot when used in liquid media.
Ident. No.: 0025008371



PT 1000.70 temperature probe, glass-sheathed for use in aggressive media such as acids and alkalis.
Material: Borosilicate glass: 3.3.
Ident. No.: 0003736000



PT 1000.90 temperature sensor, coated
Material: AISI 316 Ti, coated
Ident. No.: 0004480600



PC 1.1 Data Cable
Ident. No.: 0002616700
USB A-B Data Cable
Ident. No.: 0004220200



LABLIFT m
Manual laboratory lift for lifting and supporting small laboratory equipment or containers. Max. dynamic load: 7 kg
Ident. No.: 0004022400



H 105 Cover, material: silicone
Ident. No.: 0025008136



Synthesis heads
for round-bottom flasks, with or without a handle. Inserts for various volumes available separately.



HG 1000 Heating Jacket
to improve heat transfer into the medium and reduce heating times.
Ident. No.: 0020003415

Additional
accessories
can be found at
www.ika.com



designed for scientists

Everything for Your Lab

IKA is your reliable partner in laboratory, analysis and process technology. When it comes to applications in the areas of stirring, mixing, tempering, distilling or grinding, market leaders rely on our proven products and technology. We are continually working to further develop our portfolio according to the needs of our customers. Building on this, we network our products and services to create holistic, application-oriented solutions and enable our customers to achieve the best possible results and step into the digital age.



BIOREACTORS



MIXING



HEATING / COOLING /
TEMPERING



LIQUID HANDLING



MEASURING VISCOSITY



VACUUM TECHNOLOGY



CRUSHING



DIGITAL LAB SERVICES



SEPARATION



ELECTROCHEMISTRY



REACTOR SYSTEMS



CALORIMETRY

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Information on delivery not binding.