IKA

designed for scientists

EN

ACCURATE AND POWERFUL

Passionately enabling chemists to create a better world since 1910.
From A to Z.

TEMPERATURE CONTROL PRODUCTS MADE BY IKA.

Heating and Cooling Temperature Control Instruments

/// Highly precise and full of power

All from one source: with our temperature control products we offer a wide range for all temperature control applications with the highest precision and with full power. We promise that you will not only be impressed by the above-average pressure and suction power of the pump.

From -30 °C to +250 °C: The temperature range of our temperature control products is meeting all challenges. And also your budgets: We offer affordable entry level devices as well as high-end products for the most demanding requirements.

In addition to the above-average and industry-inspiring pressure and suction power, our devices are intent on sustainability. For example, our topseller RC 2 basic/control is equipped with a compressor, which only runs if cooling is necessary.

Another highlight, besides the outstanding compatibility to many applications, is our Wireless Controller: It enables safe and remote control. A safety factor, but at the same time a very convenient way to control the IKA tempering systems in any position.

3-YEAR WARRANTY*

* 2 years + 1 year after registering, excludes wear parts

High-precision
Temperature control systems

/// Safe, powerful, intelligent and environmentally friendly

Control accuracy
The speed-regulated compressors provide a temperature stability of up to ± 0.01 K. Additionally, excellent PID control.

Bracket
Secures the base and protects the floats and tubular heater (ICC).

Recessed handles
Ergonomic handling (HBC and RC 2).

Detachable WiCo (wireless controller)
for simple and safe remote access from up to 10 m (30 ft.).

Energy efficiency – up to 60 % lower energy consumption during standard operation (compared to devices of competitors).

Safe and complete drainage of baths
The bath can be fully emptied of thermal fluids, in a simple and clean manner. The physical separation of the drain valve and the opening screw ensures that the user does not come into contact with the fluid.

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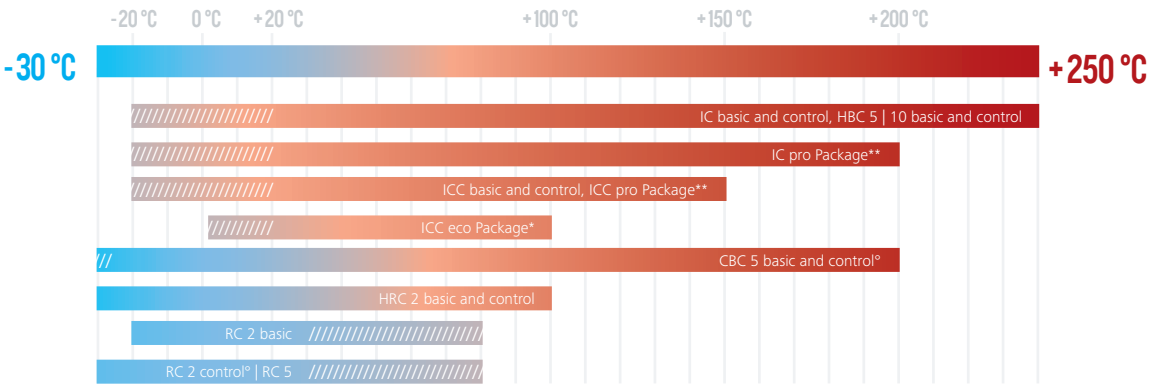
The right temperature control product for every application

/// Comparison of all temperature control products

	ICC basic | control	ICC eco Package* basic | control	ICC pro Package** basic | control
Working temperature range	RT +10 °C to +150 °C	RT +10 °C to +100 °C	RT +10 °C to +150 °C
Temperature stability	±0.02 K | ±0.01 K	±0.02 K | ±0.01 K	±0.02 K | ±0.01 K
Heating power	2,000 W	2,000 W	2,000 W
Cooling power	–	–	–
Pump power pressure side	0.3 bar	0.3 bar	0.3 bar
Pump power suction side	0.2 bar	0.2 bar	0.2 bar
Max. flow rate	18 l/min	18 l/min	18 l/min
External tempering	no | yes	no | yes	no | yes
Solenoid valve control	no	no	no
Applications	› Compact immersion circulator primarily for internal applications. › For tempering diverse samples, e.g. for analysis, material and food testing.	› Heating bath circulator for internal or simple external applications. › For tempering various samples, e.g. in test tubes with precise-fitting IKA immersion racks. › With pump connection set as well as suitable for tempering small analytical devices or reaction systems.	



IC basic | control	IC pro Package** basic | control	HBC 5 basic | control	HBC 10 basic | control
+20 °C to +250 °C	RT +10 °C to +250 °C	RT +10 °C to +250 °C	RT +10 °C to +250 °C
±0.02 K | ±0.01 K	±0.02 K | ±0.01 K	±0.02 K | ±0.01 K	±0.02 K | ±0.01 K
2,500 W	2,500 W	2,500 W	2,500 W
–	–	–	–
0.61 bar	0.61 bar	0.61 bar	0.61 bar
0.45 bar	0.45 bar	0.45 bar	0.45 bar
31 l/min	31 l/min	31 l/min	31 l/min
yes	yes	yes	yes
no | yes	no | yes	no | yes	no | yes

› Immersion circulator for demanding internal and external applications.

› Can be placed in different baths using removable bath bridge, e.g. for material testing in large, open baths or for external high-performance tempering of analytical devices.

› Heating bath circulator for demanding internal and external applications.

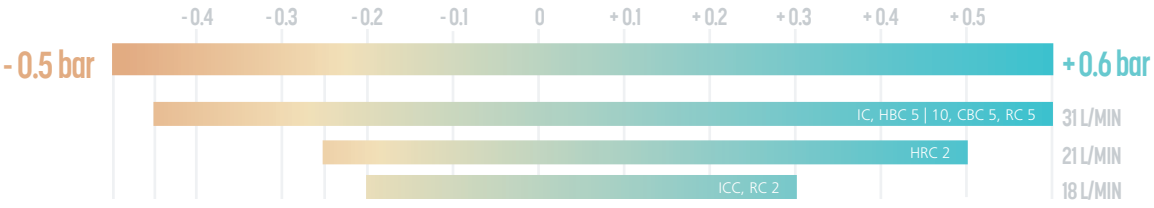
› IKA immersion racks can be used for tempering test tubes.

› Suitable for external tempering of double-walled vessels (e.g. lab reactors) with usable volumes greater than 3 liters.

› Powerful circulators for tempering external applications, e.g. for tempering double-walled lab reactors or distillation equipment.

› With IKA accessories, the HBC series circulators are also suitable for tempering large, external, open baths.

› For the determination of temperature-dependent material constants, e.g. viscosity or thermal conductivity in liquid-tempered test apparatuses.

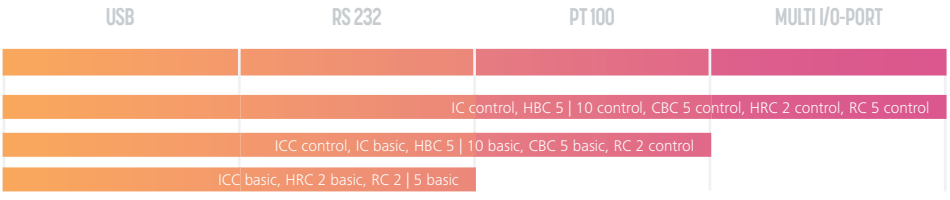


RELATIVE PRESSURE AND VOLUME FLOW

Pump connection set required for external applications. Find out more on our "Accessories" page.
* Plastic baths (eco packages) can be used at temperatures of up to +100 °C (H_2O only).
* Stainless steel baths (pro packages) can be used at temperatures of up to +200 °C.
° At 2,000 rpm up to -30 °C are possible.
/// = Operating temperature range (with external coolant). Advanced recirculating temperature (with external heating).




CBC 5 basic | control	HRC 2 basic | control	RC 2 basic | control	RC 5 basic | control
-25 °C to +200 °C	-20 °C to +100 °C | -30 °C to +100 °C	-20 °C to RT | -30 °C to RT	-30 °C to RT
±0.02 K | ±0.01 K	± 0.1 K | ± 0.05 K	± 0.1 K | ± 0.05 K	± 0.2 K | ± 0.1 K
2,500 W	1,500 W	–	–
350 W (at +20 °C)	400 W (at +20 °C)	400 W (at +20 °C)	1,400 W (at +20 °C)
0.61 bar	0.5 bar	0.3 bar	0.61 bar
0.45 bar	0.2 bar	0.2 bar	0.45 bar
31 l/min	21 l/min	18 l/min	31 l/min
yes	yes	no | yes	no | yes
no | yes	no | yes	no	no
› Powerful refrigerated circulators for external use. › Ideal for tempering double-walled reaction vessels, reaction systems and autoclaves. › Broad application options due to wide temperature range, e.g. in semi-conductors, packaging and plastics industries.	› Compact refrigerated and heating circulator for tempering external applications, such as bioreactors. › Usable in life science, medical, chemical, cosmetics and food industry labs (and many others). › For tempering analytical devices such as viscometers, rheometers and polarimeters.	› Recirculating chiller for mainly external uses. › For fast and efficient cooling of external devices such as rotary evaporators, soxhlet apparatuses, calorimeters and incubating shakers. › IKA accessories are also suitable for external, open baths.	



INTERFACES