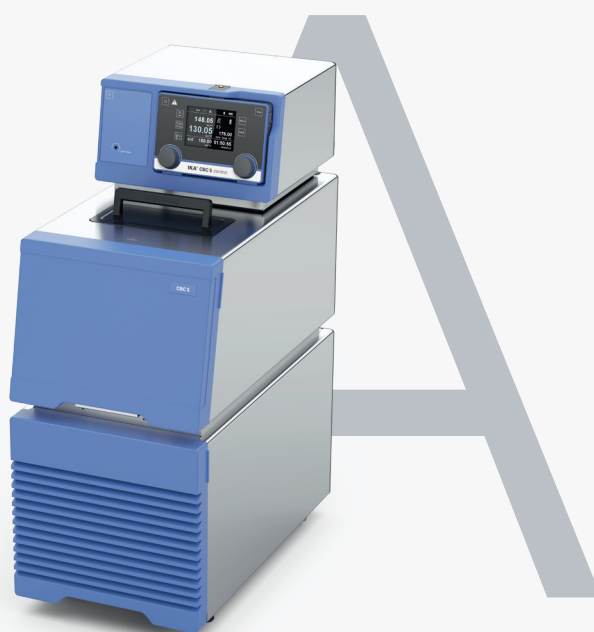




designed for scientists

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 on [www.ika.com/register](http://www.ika.com/register), 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  $\pm 0.01$  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).



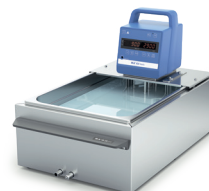
## Safe and complete drainage of baths

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.

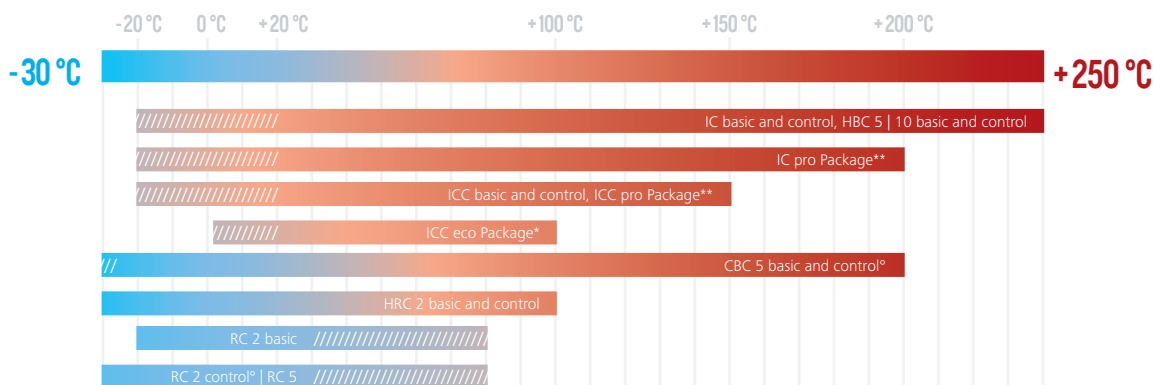


# The right temperature control product for every application

/// 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
<b>Applications</b>	<ul style="list-style-type: none"> <li>› Compact immersion circulator primarily for internal applications.</li> <li>› For tempering diverse samples, e.g. for analysis, material and food testing.</li> </ul>		
		<ul style="list-style-type: none"> <li>› Heating bath circulator for internal or simple external applications.</li> <li>› For tempering various samples, e.g. in test tubes with precise-fitting IKA immersion racks.</li> <li>› With pump connection set as well as suitable for tempering small analytical devices or reaction systems.</li> </ul>	

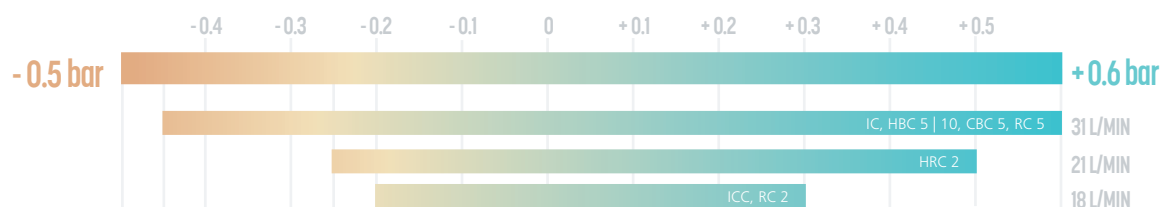


TEMPERATURE RANGE





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
<ul style="list-style-type: none"> <li>› Immersion circulator for demanding internal and external applications.</li> <li>› 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.</li> </ul>	<ul style="list-style-type: none"> <li>› Heating bath circulator for demanding internal and external applications.</li> <li>› IKA immersion racks can be used for tempering test tubes.</li> <li>› Suitable for external tempering of double-walled vessels (e.g. lab reactors) with usable volumes greater than 3 liters.</li> </ul>	<ul style="list-style-type: none"> <li>› Powerful circulators for tempering external applications, e.g. for tempering double-walled lab reactors or distillation equipment.</li> <li>› With IKA accessories, the HBC series circulators are also suitable for tempering large, external, open baths.</li> <li>› For the determination of temperature-dependent material constants, e.g. viscosity or thermal conductivity in liquid-tempered test apparatuses.</li> </ul>	



#### 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<sub>2</sub>O 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
<ul style="list-style-type: none"> <li>› Powerful refrigerated circulators for external use.</li> <li>› Ideal for tempering double-walled reaction vessels, reaction systems and autoclaves.</li> <li>› Broad application options due to wide temperature range, e.g. in semi-conductors, packaging and plastics industries.</li> </ul>	<ul style="list-style-type: none"> <li>› Compact refrigerated and heating circulator for tempering external applications, such as bioreactors.</li> <li>› Usable in life science, medical, chemical, cosmetics and food industry labs (and many others).</li> <li>› For tempering analytical devices such as viscometers, rheometers and polarimeters.</li> </ul>	<ul style="list-style-type: none"> <li>› Recirculating chiller for mainly external uses.</li> <li>› For fast and efficient cooling of external devices such as rotary evaporators, soxhlet apparatuses, calorimeters and incubating shakers.</li> <li>› IKA accessories are also suitable for external, open baths.</li> </ul>	

USB	RS 232	PT100	MULTI I/O-PORT
		IC control, HBC 5   10 control, CBC 5 control, HRC 2 control, RC 5 control	
	ICC control, IC basic, HBC 5   10 basic, CBC 5 basic, RC 2 control		
ICC basic, HRC 2 basic, RC 2   5 basic			

## INTERFACES



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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

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