ACCURATE AND POWERFUL
Passionately enabling chemists to create a better world since 1910. From A to Z.
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, excludes wear parts

Find out more about IKA and order our fascinating products online: www.ika.com.
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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eMail: sales.lab-ana@ika.my, web: www.ika.com

Technical specifications may be changed without prior notice.
# Temperature control products

## The right temperature control product for every application

### Comparison of all temperature control products

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

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### TEMPERATURE RANGE

-30 °C - 0 °C - 20 °C +100 °C +150 °C +200 °C +250 °C

- RC 2 basic | RC 2 control° | RC 2 basic |
- IC basic and control, HRC 2 basic and control |
- ICC basic and control, ICC pro Package** |
- ICC eco Package* |
- CBC 5 basic and control° |
- IC pro Package** |
- IC basic and control |
- HRC 5 basic and control |
<table>
<thead>
<tr>
<th>IC</th>
<th>IC pro Package**</th>
<th>HBC 5</th>
<th>HBC 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating range</td>
<td>+20 °C to +250 °C</td>
<td>RT + 10 °C to +250 °C</td>
<td>RT + 10 °C to +250 °C</td>
</tr>
<tr>
<td>Temperature stability</td>
<td>± 0.02 K</td>
<td>± 0.01 K</td>
<td>± 0.02 K</td>
</tr>
<tr>
<td>Heating power</td>
<td>2,000 W</td>
<td>2,000 W</td>
<td>2,500 W</td>
</tr>
<tr>
<td>Cooling power</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Pump pressure side</td>
<td>0.3 bar</td>
<td>0.61 bar</td>
<td>0.3 bar</td>
</tr>
<tr>
<td>Pump suction side</td>
<td>0.2 bar</td>
<td>0.45 bar</td>
<td>0.2 bar</td>
</tr>
<tr>
<td>Max. flow rate</td>
<td>18 l/min</td>
<td>31 l/min</td>
<td>18 l/min</td>
</tr>
<tr>
<td>External temp.</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Solenoid valve control</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Applications**

- **IC basic | control**
  - 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 pro Package**
  - 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.
  - 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.
  - 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.

*Pump connection set required for external applications. Find out more on our "Accessories" page.*

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**Relative Pressure and Volume Flow**

- **IC, HBC 5 | 10, CBC 5, RC 5**
  - HRC 2
  - IC, RC 2

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* Plastic baths (eco packages) can be used at temperatures of up to +100 °C (H2O 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).
<table>
<thead>
<tr>
<th>CBC 5 basic</th>
<th>control</th>
<th>HRC 2 basic</th>
<th>control</th>
<th>RC 2 basic</th>
<th>control</th>
<th>RC 5 basic</th>
<th>control</th>
</tr>
</thead>
<tbody>
<tr>
<td>-25 °C to +200 °C</td>
<td>-20 °C to +100 °C</td>
<td>-20 °C to RT</td>
<td>-30 °C to RT</td>
<td>-30 °C to RT</td>
<td></td>
<td>-30 °C to RT</td>
<td></td>
</tr>
<tr>
<td>±0.02 K</td>
<td>±0.01 K</td>
<td>±0.1 K</td>
<td>±0.05 K</td>
<td>±0.1 K</td>
<td>±0.05 K</td>
<td>±0.1 K</td>
<td>±0.05 K</td>
</tr>
<tr>
<td>2,500 W</td>
<td>1,500 W</td>
<td>400 W (at +20 °C)</td>
<td>400 W (at +20 °C)</td>
<td>400 W (at +20 °C)</td>
<td>400 W (at +20 °C)</td>
<td>1,400 W (at +20 °C)</td>
<td></td>
</tr>
<tr>
<td>0.61 bar</td>
<td>0.5 bar</td>
<td>0.2 bar</td>
<td>0.2 bar</td>
<td>0.3 bar</td>
<td>0.2 bar</td>
<td>0.3 bar</td>
<td>0.61 bar</td>
</tr>
<tr>
<td>0.45 bar</td>
<td>0.2 bar</td>
<td>21 l/min</td>
<td>18 l/min</td>
<td>21 l/min</td>
<td>18 l/min</td>
<td>21 l/min</td>
<td>0.45 bar</td>
</tr>
<tr>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

- 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**

- RS 232
- USB
- PT 100