

# Using Heat for Cooling

## Sustainable Refrigeration Technology by Baelz



Bee



up to 50 kW



Bumblebee



up to 160 kW



Hornet



up to 500 kW

Absorption Chillers  
Baelz-absorpdynamic®

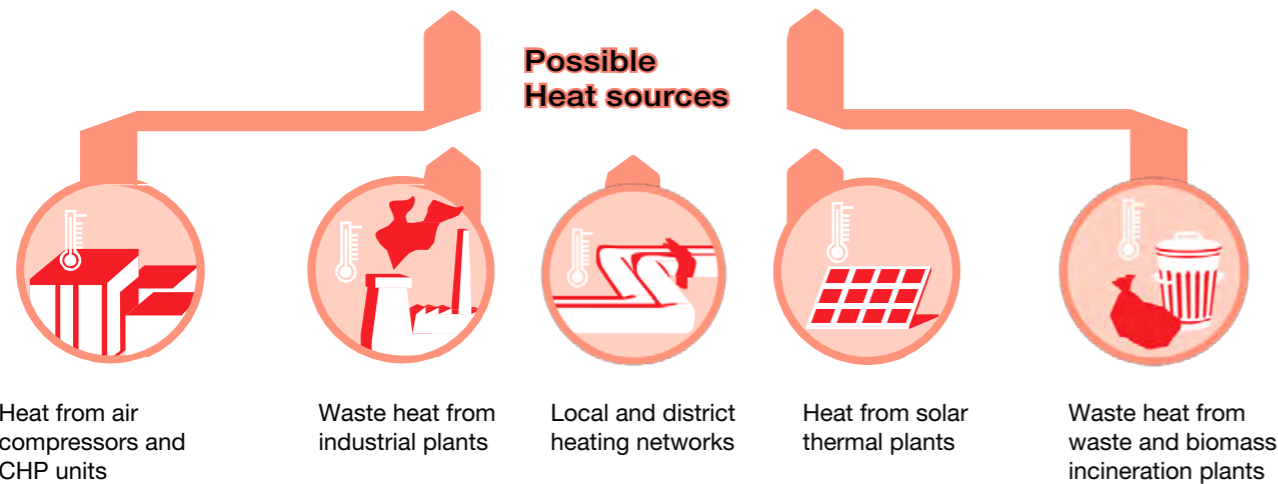
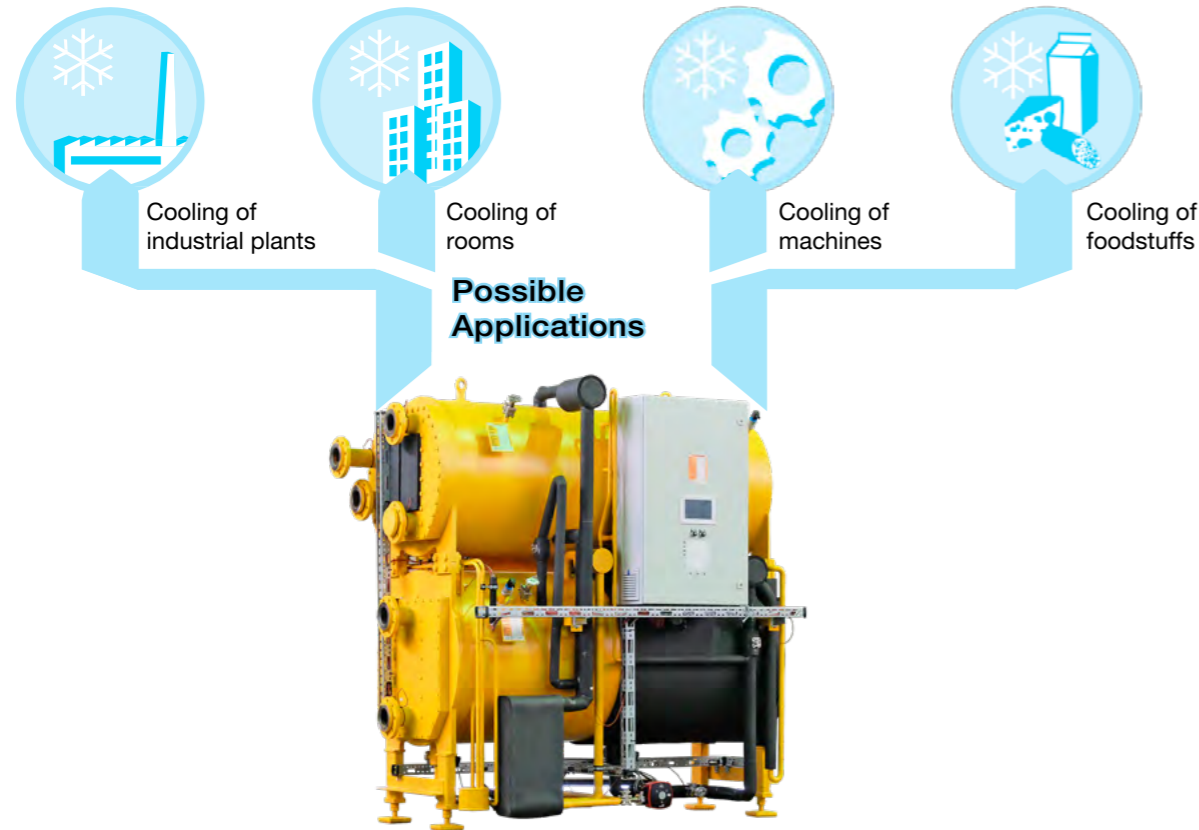


Heat

Cooling

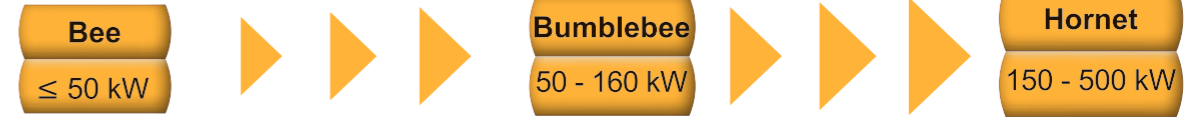


Energy-efficient supply of cold water for processes or room cooling.  
 Waste heat instead of electricity as the main energy source for cooling.  
 Reduce energy costs and CO<sub>2</sub> emissions by cooling with waste heat!



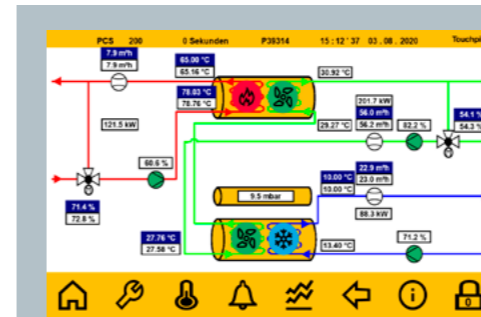
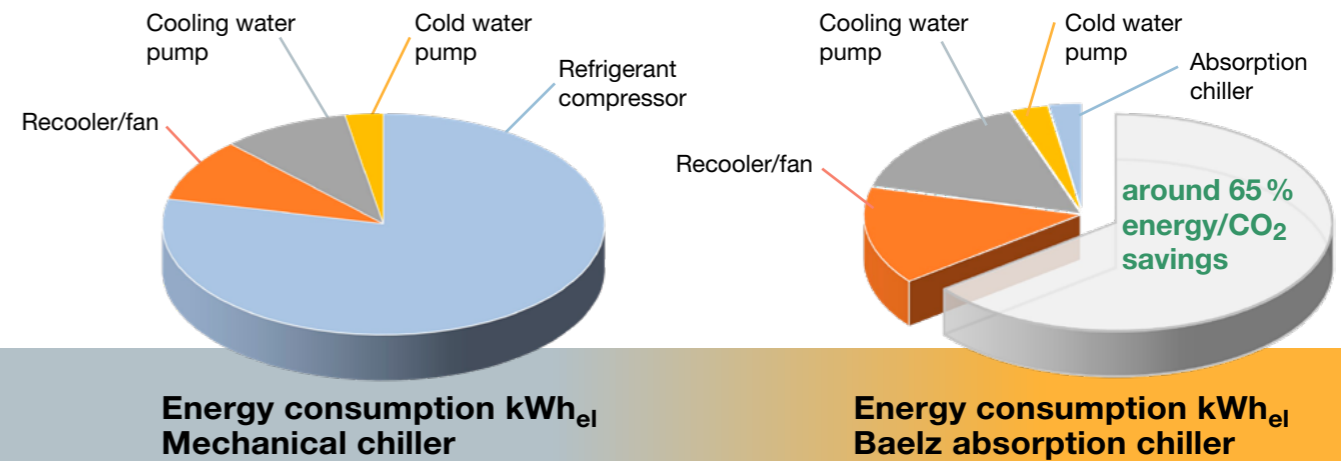
from < 50 kW

to 500 kW



- ✓ Approx. 65 % less power consumption than conventional chillers
- ✓ High thermal process efficiency with COP up to 0.80, even at partial load!
- ✓ Driving source temperatures as low as 65 °C
- ✓ Fast response: setpoint temperature reached in just 10 minutes
- ✓ Use as a heat pump for heating systems up to 40 °C
- ✓ Fits through doorways (Bee), < 0,97 m x 1,60 m x 2,05 m
- ✓ Efficient system control for minimized operating and energy costs
- ✓ CO<sub>2</sub>-neutral refrigerant

Make the comparison and save energy and CO<sub>2</sub> emissions!



Touchpilot® - clear and simple

This operating software is specially developed by Baelz to control our absorption chillers. With intuitive handling and a clear user interface for quick navigation, it combines functionality and user-friendliness.



Are you interested in saving energy and money with a durable and reliable absorption refrigeration system? We would be happy to design a system to suit your individual operating conditions. Please fill out our inquiry form, which you can access under <https://www.baelz.de/en/baelz-active/inquiry>.

**Enquiry form**  
**Absorption Chiller**

Please fill in this form as thoroughly and accurately as possible so that we can provide you with a suitable quotation promptly. Many thanks.

<b>Enquiry date</b>	<input type="text"/>
<b>Quote date</b>	<input type="text"/>
<b>1. Sender</b>	
<b>Company</b>	<input type="text"/>
<b>Address</b>	<input type="text"/>
<b>Contact</b>	<input type="text"/>
<b>Email</b>	<input type="text"/>
<b>Telephone</b>	<input type="text"/>

**2. Technical Data**

Every absorption refrigeration system has at least six degrees of freedom in its operation. With three external circuits (hot, cold and cooling water), there are eleven variables. Six parameters are required for the design. Please enter your system specifications in the table below.

Use of cold	Heat energy for desorbers
Cooling requirement (kW)	Heat output (kW)
Cold water inlet (°C)	Hot water inlet (°C)
Cold water outlet (°C)	Hot water outlet (°C)
Cold water flow rate (m³/h)	Hot water flow rate (m³/h)
Cooling water inlet* (°C)	
Cooling water outlet (°C)	
Cooling water volume flow (m³/h)	
Available space (H/W/D)	Existing storage tank (m³)
Existing refrigeration system?	Collector surface? (flat / tubes)

\*Cooling water inlet temperature or, if a recooling unit is required, the nominal ambient temperature and information on whether dry, adiabatic or cooling tower recooling is required. If no specification is made, we select the most practical solution.

Other, more complex approaches are also possible depending on customer requirements. For example, the available cooling capacity for the desired cold water temperature can be offered for a given heating capacity and hot water temperature. We would be pleased to advise you based on your specific needs.

Subject to technical changes
Send to Baelz
Note the ISO 16016 protection notice

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Baelz Headquarters

**Germany**

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Frankfurt, Nürnberg, Aalen,  
Ulm, München

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**Baelz provides energy saving solutions for:**



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