

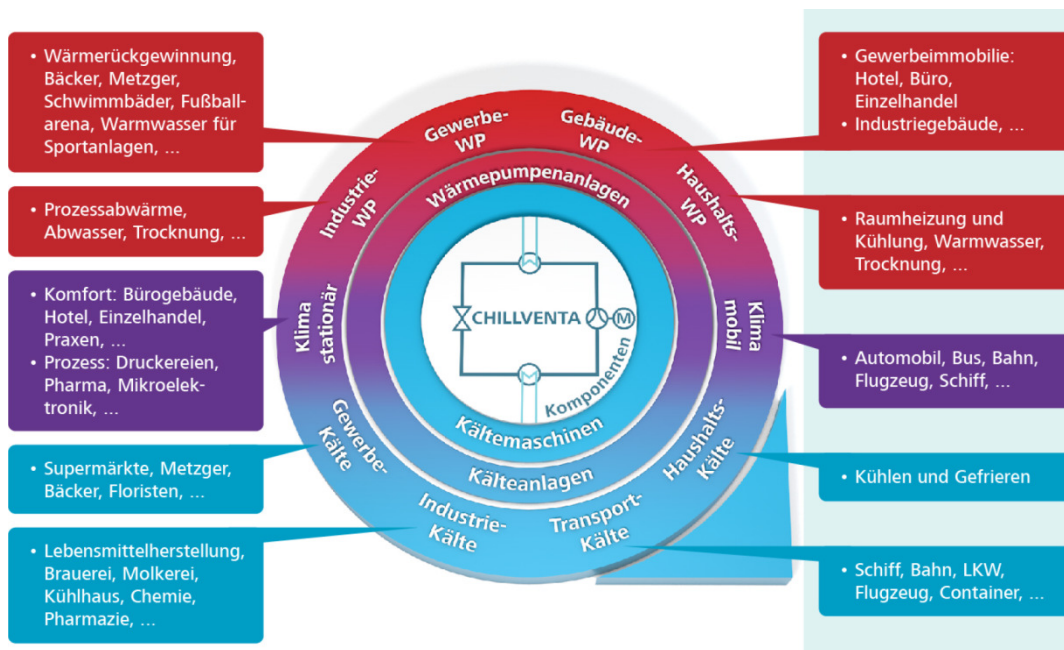
## PRESS RELEASE

October 2016

### Chillventa represents the global market for refrigeration technology

Although refrigeration technology was originally introduced to keep foods and beverages cool, the range of applications has grown substantially since then. A distinction can be made between two principal areas of application: improving living and ambient conditions for humans, and improving commercial and industrial manufacturing processes.

Chillventa has prepared a graphic that represents the generation process for heating and refrigeration and its application here: <https://www.chillventa.de/en/exhibition-info/exhibition-profile/product-range/kaeltekreislauf>



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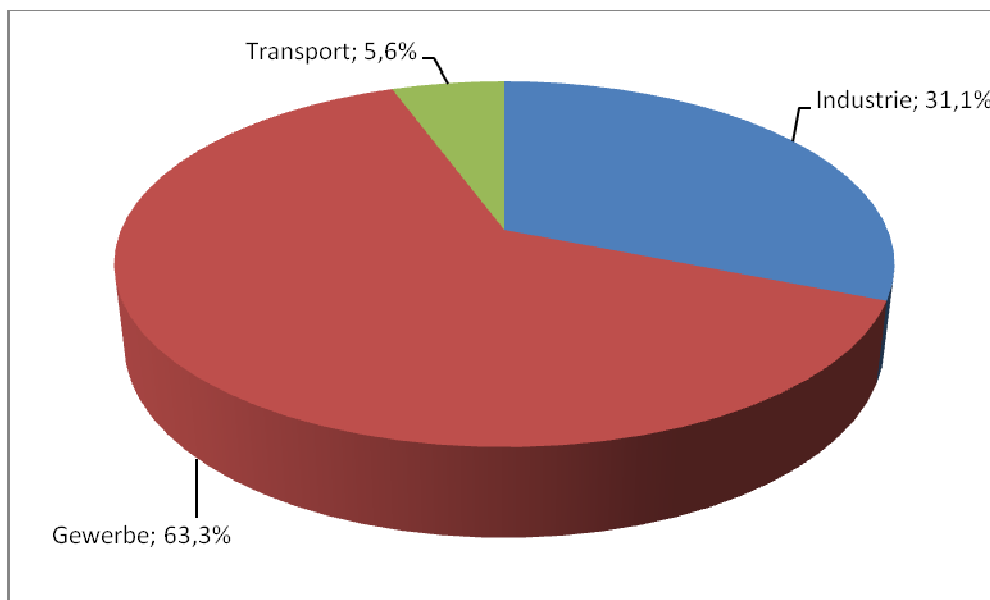
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The circle represents the segments benefiting from heating and cooling, e.g. domestic appliances and commercial refrigeration, or industrial heat pumps and mobile air conditioning. Typical applications are shown for each of these. A detailed description of many of the applications can be found in the Newsroom under Expert Knowledge > Downloads > “Back-up for Refrigeration Applications.”

The many applications for refrigeration, air-conditioning and heat pumps and the extensive globalisation of the many industries involved make it difficult to gather figures on the market. JARN\* described the “World Refrigeration Equipment Market” for the first time in a special edition in late September. These are some of the results:

### Global refrigeration market (products/installation/service)

The global market for refrigeration was forecast at US\$90 billion for 2015. This covered products, installation and service. The market was broken down into industrial, commercial and transportation, with commercial refrigeration accounting for the largest share, at \$57 billion. Industrial refrigeration amounted to \$28 billion, and refrigeration applications for the logistics sector, including container shipping, were in the order of \$5 billion.

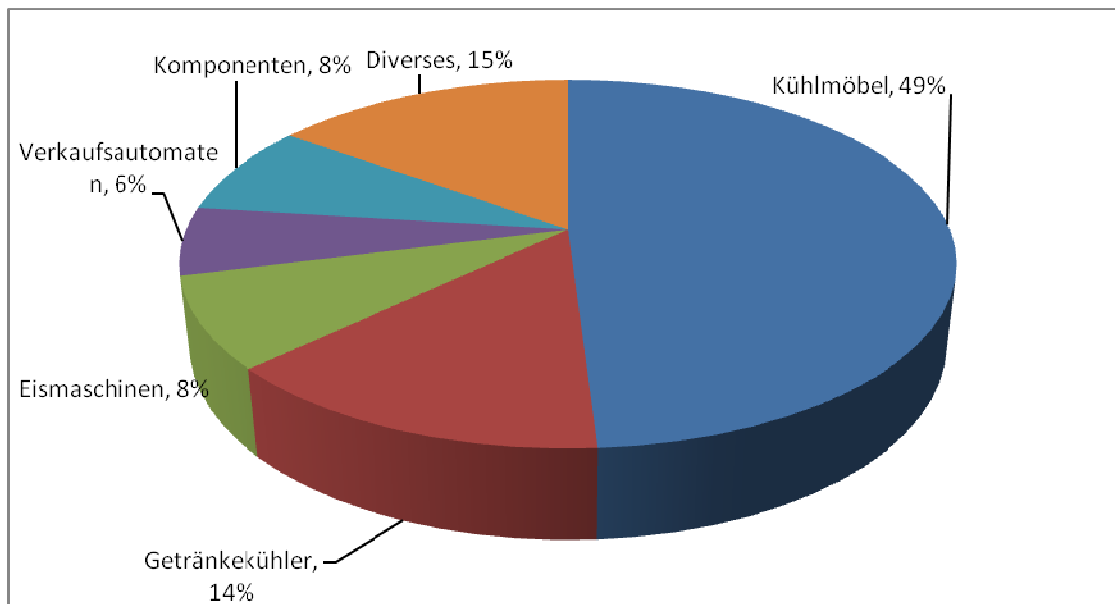


Transportation: 5.6%; Industrial: 31.1%; Commercial: 63.3%

The principal areas of the global market for refrigeration, representing a total volume of \$90 billion.

### Products in the global commercial refrigeration market

The total market for **commercial refrigeration for products** (excluding installation and service) was estimated at US\$38 billion. The greater share of this total, 49% (\$18.6 billion), involved refrigeration equipment. Drinks coolers represented 14% of the market (\$5.3 billion). Other areas of commercial refrigeration included ice machines (8%; \$3 billion), vending machines (6%; \$2.2 billion), other applications (15%; \$5.7 billion) and components (8%; \$3 billion).

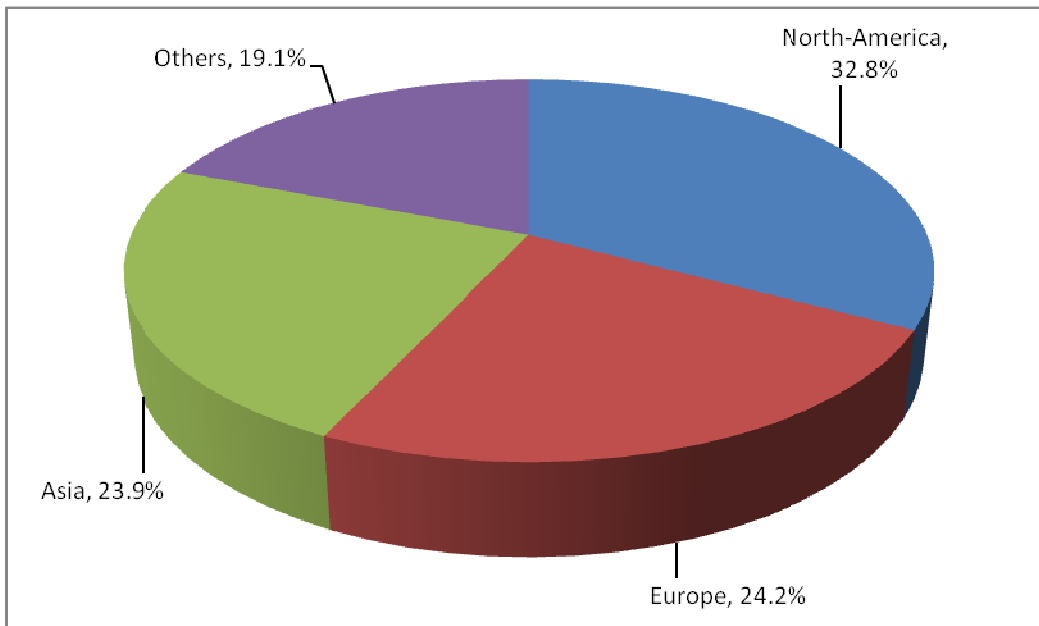


Refrigeration equipment: 49%, Drinks coolers: 14%, Ice machines: 8%, Vending machines: 6%, Components: 8%, Miscellaneous: 15%]

The principal areas of the global market for commercial refrigeration products, representing a total volume of \$38 billion.

## Global market for commercial refrigeration products, by region

North America was the largest market for commercial refrigeration, with a 32.8% share and a total volume of US\$12.5 billion. This was followed by Europe (24.2%; \$9.2 billion) and Asia (23.9%; \$9.1 billion).



The global market for commercial refrigeration products, representing a volume of \$38 billion.

\* About JARN: First published in February 1969, JARN is the only English-language magazine published in Japan that covers news from around the world on the HVAC&R industry, markets, products, new technology, major trade shows, and various promotional activities by global industry leaders. JARN is exhibiting at Chillventa in Hall 9-126.

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