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# World Commercial Refrigeration Equipment

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Industry Study with Forecasts for **2012 & 2017**

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*A growing number of food retailers and restaurants -- especially fast food chains -- will contribute to growth, since these outlets utilize a wide range of commercial refrigeration equipment.*

## Global demand to rise 4.6% yearly through 2012

World demand for commercial refrigeration equipment is projected to rise 4.6 percent per year (including price increases) through 2012 to \$29.3 billion, with developing nations expected to register the strongest gains. A growing number of food retailers and restaurants will contribute to growth. The ongoing expansion of fast food chains will be especially beneficial, since these outlets utilize a wide range of commercial refrigeration equipment.

## Reach-in, walk-in coolers to be fastest growing

Reach-in and walk-in coolers and freezers are expected to be the fastest growing product group, due to their widespread use in all of the major markets. These appliances are used by food processors, restaurants and food retailers, and are expected to post solid gains in developing regions. Display cases will benefit from a growing middle class, which will spur gains in the food and beverage retail segment. Growth in demand for ice machines will be due to the increasing number of restaurants globally. Beverage equipment demand will benefit from a growing number of restaurants, especially in the fast food segment, and from continued gains in nonresidential building construction, which will boost demand for refrigerated water coolers.



## Strongest opportunities in Latin America, Asia

Strongest opportunities are in Latin America and Asia, where faster population growth and improved standards of living will stimulate demand for commercial refrigeration equipment in markets such as food and beverage distribution, retailing and restaurants. China will record some of the strongest increases, with demand rising nearly ten percent annually through 2012. India will also post strong gains, as the nation improves the efficiency of its food distribution network.

The developed nations of North America, Western Europe, and the Asia/Pacific

region (i.e., Australia, Hong Kong, Japan, New Zealand, Singapore, South Korea) comprise mature markets for commercial refrigeration equipment. The US will remain the largest market in the world, as replacement demand continues to create opportunities. Japan and Western Europe will register below average gains through 2012, although Japan will see improvement over its performance in the 2002-2007 period.

The fastest growth in production will be in industrializing parts of the world. China has been posting the strongest annual output gains, a trend that is expected to continue due both to rising domestic demand and increasing exports.

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## Sample Text, Table & Chart

### ASIA/PACIFIC

gradual maturing of the Chinese market, but the country will outpace the average rate of increase worldwide. Ongoing improvements in the standard of living and a growing middle class will create present opportunities.

Opportunities will exist in the hotel and motel market, national tourism will boost gains. China has become a major destination for business travelers due to its impressive economic growth, recreational tourism is expected to benefit from the excitement China gained during the 2008 Beijing Olympics.

Shipments of commercial refrigeration equipment from China will increase through 2012 to \$1.5 billion, continuing to outpace the rest of the world, resulting in a growing trade surplus. China's economic growth will be fueled by healthy domestic market conditions and increasing demand in a number of export markets. Foreign multinationals in China and Chinese commercial plants will also help boost domestic manufacturing.

Among the major domestic manufacturers are Dalian Bingshan, Yantai Moon and Zhejiang Lianfeng. Companies that maintain manufacturing activities in China include Ali SpA, Daikin, Danfoss, Dunham-Bush, Emerson Electric, Fukushima, GEA, IMI, Ingersoll-Rand (via Hussmann), John Bean Technologies, Johnson Controls, Manitowoc, Parker-Hannifin, Sanden, SANYO and Tecumseh. In October 2007, Frigoglass SAIC opened a plant in Guangzhou, Guangdong that has an annual production capacity of 120,000 merchandisers. Multinationals often participate in China through the use of joint ventures. For example, Dalian and SANYO have a joint venture which produces refrigerated food retail equipment and biomedical refrigeration equipment.

TABLE VI-5

### CHINA COMMERCIAL REFRIGERATION EQUIPMENT SUPPLY & DEMAND (million dollars)

Item	1997	2002	2007	2012	2017
Population (million persons)					
per capita GDP					
Gross Domestic Product (bil 2006\$)					
% GFI					
Gross Fixed Investment (bil 2006\$)					
\$ comm refrig equip/capita					
\$ comm refrig equip/000\$ GDP					
\$ comm refrig equip/000\$ GFI					
Comm Refrigeration Equip Demand					
net exports					
Comm Refrigeration Equip Shipments					

SAMPLE TABLE

SAMPLE TEXT

CHART VIII-1

### COMMERCIAL REFRIGERATION EQUIPMENT MARKET SHARE BY COMPANY, 2007 (\$23.4 billion)

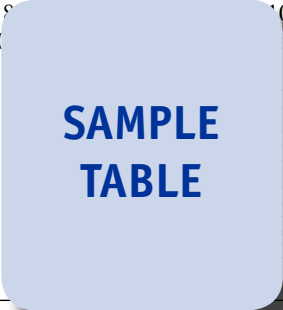


SAMPLE CHART

## Sample Profile, Table & Forecast

**TABLE VI-6**  
**CHINA COMMERCIAL REFRIGERATION EQUIPMENT DEMAND BY TYPE**  
 (million dollars)

Item	1997	2002	2007	2012	2017
Gross Fixed Investment (bil 2006\$)					105
\$ comm refrig/000\$ GFI					81
Commercial Refrig Equip Demand					70
Reach-in & Walk-ins					35
Display Cases					35
Beverage Refrigeration Equip					35
Ice Machines					50
Parts					50
Others					25



**COMPANY PROFILES**

---

**Frigoglass SAIC**  
 15, A. Metaxa Street  
 145 64 Kifisia, Athens  
 Greece  
 30-210-6  
 http://ww

**SAMPLE PROFILE**

Sales: \$  
 Employr  
 Key Proc

Frigoglass manufactures commercial refrigeration equipment, packaging materials and other products. The Company operates through four segments: Ice Cold Merchandise (ICM) Operation; Glass Operation; Plastic Operation; and Crowns, PET and Other Operation.

The Company participates in the world commercial refrigeration equipment market via the ICM Operation segment. In 2007, the segment generated sales of \$537 million, including intersegment eliminations, of which Europe represented 82 percent, Africa/Mideast accounted for twelve percent, Asia represented six percent, and other regions accounted for less than one percent. Among the products manufactured by Frigoglass through the ICM Operation segment are refrigerated display merchandisers.

Frigoglass' display merchandisers are employed by the retail beverage industry, and are marketed worldwide under such brand names as FRIGOREX, NORCOOL and COLDWELL. The Company also markets certain merchandisers under the HUSKY brand name in Africa. Examples of the Company's display merchandisers are countertop,

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“Demand for commercial refrigeration equipment in China is projected to grow at a 10.6 percent annual pace through 2012 to \$3.3 billion. Annual gains will slow from the 2002-2007 period, reflecting a moderation in fixed investment spending and the ...”

--Section VI, pg. 139



**OTHER STUDIES**

**World Insulation**

This study analyzes the global insulation industry. It presents historical demand data for the years 1997, 2002 and 2007 and forecasts for 2012 and 2017 by insulation material (e.g., foamed plastic, fiberglass, mineral wool), market (construction; industrial, HVAC and OEM), world region (e.g., North America, Asia/Pacific, Western Europe) and major national market. The study considers market environment factors, details industry structure, evaluates company market share and profiles industry players.

#2434 ..... 01/2009..... \$5800

**World Electric Lighting**

This study analyzes the global market for electric lighting. It presents historical demand data (1997, 2002, 2007) and forecasts for 2012 and 2017 by type (e.g., incandescent lamps, fluorescent lamps, HID and other discharge lamps, LEDs), market (construction, manufactured goods), world region (e.g., Asia/Pacific, North America, Western Europe) and major national market. The study also considers market environment factors, details industry structure, evaluates market share and profiles competing manufacturers.

#2442 ..... 12/2008..... \$5600

**Commercial Refrigeration Equipment**

US commercial refrigeration equipment demand will rise 3.9% yearly through 2012, driven in part by the ongoing addition of foodservice operators and food retailers. Foodservice will remain the largest market, while food and beverage distribution grows the fastest. Cryogenic equipment and display cases are among the best opportunities. This study analyzes the \$7.6 billion US commercial refrigeration equipment industry, with forecasts for 2012 and 2017 by market and product. It also details market share and profiles industry players.

#2365 ..... 07/2008..... \$4500

**World HVAC Equipment**

Global demand for HVAC equipment will rise 5.8% annually through 2012. Demand in the Asia/Pacific region will outpace the world average, led by China and India. Opportunities also exist in developed areas, most notably the US and Western Europe. Cooling equipment will continue to outpace heating equipment. This study analyzes the \$63.1 billion world HVAC equipment industry, with forecasts for 2012 and 2017 by product, world region and for 18 countries. It also evaluates market share and profiles 30 industry participants.

#2336 ..... 05/2008..... \$5600

**World Major Household Appliances**

Global white goods demand will grow 3.1% yearly through 2011. India will lead gains based on low penetration rates and rising living standards. Replacement demand will spur growth in developed areas as users replace broken appliances and trade up for newer models like more efficient "green" types. This study analyzes the 413 million unit world white goods industry, with forecasts for 2011 and 2016 by product, world region and for 25 countries. It also evaluates market share and profiles major players.

#2279 ..... 01/2008..... \$5800

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