

[CLICK TO VIEW](#)

[Table of Contents 2](#)

[List of Tables & Charts 3](#)

[Study Overview 4](#)

[Sample Text, Table
& Chart 5](#)

[Sample Profile, Table &
Forecast 6](#)

[Order Form & Corporate
Use License 7](#)

[About Freedonia,
Custom Research,
Related Studies, 8](#)



World Commercial Refrigeration Equipment

Industry Study with Forecasts for **2016 & 2021**

Study #2953 | December 2012 | \$6200 | 372 pages

www.freedoniagroup.com



The Freedonia Group

767 Beta Drive

Cleveland, OH • 44143-2326 • USA

Toll Free US Tel: 800.927.5900 or +1 440.684.9600

Fax: +1 440.646.0484

E-mail: info@freedoniagroup.com

Table of Contents

EXECUTIVE SUMMARY

MARKET ENVIRONMENT

General	4
World Population Outlook	5
World Urbanization Patterns	7
World Economic Overview	9
Recent Historical Trends	10
World Economic Outlook	12
World Fixed Investment Outlook	16
World Personal Income & Expenditures	21
World Food & Beverage Manufacturing	23
World Nonresidential Building Expenditures	25
Pricing Patterns	27
Legal & Regulatory Issues	29
Montreal Protocol	29
Kyoto Protocol	32
Technology & Product Development	33

OVERVIEW

General	36
Regional Markets	37
Products	41
Reach-In & Walk-In Coolers & Freezers	43
Display Cases	45
Beverage Refrigeration Equipment	47
Ice Machines	49
Refrigerated Vending Machines	51
Other Equipment	53
Parts	56
Production	57
International Trade	59

NORTH AMERICA

General	62
Supply & Demand	63
Product Outlook	65
United States	66
Canada	73
Mexico	78

WESTERN EUROPE

General	84
Supply & Demand	85
Product Outlook	87
France	89
Germany	94
Italy	99
Netherlands	104
Spain	109
United Kingdom	114
Other Western Europe	119

ASIA/PACIFIC

General	125
Supply & Demand	126

Product Outlook	128
Australia	130
China	135
India	141
Indonesia	146
Japan	151
South Korea	157
Taiwan	161
Thailand	166
Other Asia/Pacific	171

OTHER REGIONS

Central & South America	177
General	177
Supply & Demand	178
Product Outlook	180
Brazil	182
Other Central & South America	187
Eastern Europe	192
General	192
Supply & Demand	194
Product Outlook	195
Poland	197
Russia	202
Other Eastern Europe	207
Africa/Mideast	212
General	212
Supply & Demand	214
Product Outlook	215
Turkey	217
Other Africa/Mideast	222

INDUSTRY STRUCTURE

General	228
Industry Composition	229
Market Share	232
Mergers & Acquisitions	235
Product Development & Manufacturing	237
Marketing & Distribution	239
Cooperative Agreements	241

COMPANY PROFILES

AHT Cooling Systems	248
Air Products and Chemicals	250
Ali SpA	251
Brema Ice Makers	256
Bundy Refrigeration	257
Celli SpA	259
Crane Company	260
Daikin Industries	263
Daiwa Industries	266
Dalian Bingshan Group	267
Danfoss A/S	270
Dover Corporation	273
Dunham-Bush Holding Berhad	276
Electrolux AB	279
Emerson Electric	281
Fomento Economico Mexicano	285
Frigoglass SAIC	286
Fukushima Industries	288

GD Midea Holding	289
GEA Group AG	291
Hangzhou Kalifon Stainless Steel Kitchen Equipment	295
Heifi Kimay Electrical Appliance	296
Hoshizaki Electric	298
Husmann International	300
Illinois Tool Works	303
IMI plc	306
Ingersoll-Rand plc	308
Jiangsu Baixue Electric Appliances	311
Jiangsu Shuangliang Group	313
John Bean Technologies	314
Johnson Controls	316
Lennox International	319
Linde Group	323
Manitowoc Company	325
Metalfrio Solutions	331
Mueller (Paul) Company	333
Nakano Refrigerators	335
Panasonic Corporation	336
Parker-Hannifin Corporation	338
Perlick Corporation	340
Qingdao Aucma Company	342
Sanden Corporation	344
SPX Corporation	346
Standex International	348
Tecumseh Products	351
Thermo Fisher Scientific	353
United Technologies	356
Vector Industries	361
Vin Service	363
Volta Limited	365
Whirlpool Corporation	367
Yantai Moon Group	369
Zhejiang Huamei Electrical Appliance	371
Zhejiang Lianfeng Company	372

List of Tables/Charts

EXECUTIVE SUMMARY

1 Summary Table	3
-----------------------	---

MARKET ENVIRONMENT

1 World Population by Region	7
2 World Urban Population by Region	9
3 World Gross Domestic Product by Region	16
4 World Fixed Investment by Region	18
Cht Relationship Between Per Capita Investment & Per Capita Commercial Refrigeration Equipment Demand, 2011	20
5 World Per Capita GDP by Region	22
6 World Food & Beverage Manufacturing Value Added by Region	25
7 World Nonresidential Building Expenditures by Region	27
8 Commercial Refrigeration Equipment Pricing	29

(continued on following page)

List of Tables/Charts

(continued from previous page)

OVERVIEW

1 World Commercial Refrigeration Equipment Demand by Region	39
Cht World Commercial Refrigeration Equipment Demand by Region, 2011	40
Cht Change in Commercial Refrigeration Equipment Demand by Region, 2011-2016.....	41
2 World Commercial Refrigeration Equipment Demand by Product	43
3 World Reach-In & Walk-In Cooler & Freezer Demand by Region	45
4 World Refrigerated Display Case Demand by Region.....	47
5 World Beverage Refrigeration Equipment Demand by Region.....	49
6 World Ice Machine Demand by Region	51
7 World Refrigerated Vending Machine Demand by Region.....	53
8 World Other Commercial Refrigeration Equipment Demand by Region	55
9 World Commercial Refrigeration Equipment Parts Demand by Region.....	57
10 World Commercial Refrigeration Equipment Production by Region.....	59
11 World Commercial Refrigeration Equipment Net Exports by Region.....	61

NORTH AMERICA

1 North America: Commercial Refrigeration Equipment Supply & Demand.....	64
2 North America: Commercial Refrigeration Equipment Demand by Type	66
3 United States: Commercial Refrigeration Equipment Supply & Demand.....	70
4 United States: Commercial Refrigeration Equipment Demand by Type	73
5 Canada: Commercial Refrigeration Equipment Supply & Demand.....	76
6 Canada: Commercial Refrigeration Equipment Demand by Type	78
7 Mexico: Commercial Refrigeration Equipment Supply & Demand.....	81
8 Mexico: Commercial Refrigeration Equipment Demand by Type	83

WESTERN EUROPE

1 Western Europe: Commercial Refrigeration Equipment Supply & Demand.....	87
2 Western Europe: Commercial Refrigeration Equipment Demand by Type	89
3 France: Commercial Refrigeration Equipment Supply & Demand.....	92
4 France: Commercial Refrigeration Equipment Demand by Type	94
5 Germany: Commercial Refrigeration Equipment Supply & Demand.....	97

6 Germany: Commercial Refrigeration Equipment Demand by Type	99
7 Italy: Commercial Refrigeration Equipment Supply & Demand.....	102
8 Italy: Commercial Refrigeration Equipment Demand by Type	104
9 Netherlands: Commercial Refrigeration Equipment Supply & Demand.....	107
10 Netherlands: Commercial Refrigeration Equipment Demand by Type	109
11 Spain: Commercial Refrigeration Equipment Supply & Demand.....	112
12 Spain: Commercial Refrigeration Equipment Demand by Type	114
13 United Kingdom: Commercial Refrigeration Equipment Supply & Demand.....	117
14 United Kingdom: Commercial Refrigeration Equipment Demand by Type	119
15 Other Western Europe: Commercial Refrigeration Equipment Supply & Demand.....	122
16 Other Western Europe: Commercial Refrigeration Equipment Demand by Type.....	124

ASIA/PACIFIC

1 Asia/Pacific: Commercial Refrigeration Equipment Supply & Demand.....	128
2 Asia/Pacific: Commercial Refrigeration Equipment Demand by Type	130
3 Australia: Commercial Refrigeration Equipment Supply & Demand.....	133
4 Australia: Commercial Refrigeration Equipment Demand by Type	135
5 China: Commercial Refrigeration Equipment Supply & Demand.....	139
6 China: Commercial Refrigeration Equipment Demand by Type	141
7 India: Commercial Refrigeration Equipment Supply & Demand.....	144
8 India: Commercial Refrigeration Equipment Demand by Type	146
9 Indonesia: Commercial Refrigeration Equipment Supply & Demand.....	149
10 Indonesia: Commercial Refrigeration Equipment Demand by Type	151
11 Japan: Commercial Refrigeration Equipment Supply & Demand.....	154
12 Japan: Commercial Refrigeration Equipment Demand by Type	156
13 South Korea: Commercial Refrigeration Equipment Supply & Demand.....	159
14 South Korea: Commercial Refrigeration Equipment Demand by Type	161
15 Taiwan: Commercial Refrigeration Equipment Supply & Demand.....	164
16 Taiwan: Commercial Refrigeration Equipment Demand by Type	166
17 Thailand: Commercial Refrigeration Equipment Supply & Demand.....	169
18 Thailand: Commercial Refrigeration Equipment Demand by Type	171

19 Other Asia/Pacific: Commercial Refrigeration Equipment Supply & Demand.....	174
20 Other Asia/Pacific: Commercial Refrigeration Equipment Demand by Type	176

OTHER REGIONS

1 Central & South America: Commercial Refrigeration Equipment Supply & Demand.....	180
2 Central & South America: Commercial Refrigeration Equipment Demand by Type.....	182
3 Brazil: Commercial Refrigeration Equipment Supply & Demand.....	185
4 Brazil: Commercial Refrigeration Equipment Demand by Type	187
5 Other Central & South America: Commercial Refrigeration Equipment Supply & Demand.....	190
6 Other Central & South America: Commercial Refrigeration Equipment Demand by Type	192
7 Eastern Europe: Commercial Refrigeration Equipment Supply & Demand.....	195
8 Eastern Europe: Commercial Refrigeration Equipment Demand by Type	197
9 Poland: Commercial Refrigeration Equipment Supply & Demand.....	200
10 Poland: Commercial Refrigeration Equipment Demand by Type	202
11 Russia: Commercial Refrigeration Equipment Supply & Demand.....	205
12 Russia: Commercial Refrigeration Equipment Demand by Type	207
13 Other Eastern Europe: Commercial Refrigeration Equipment Supply & Demand.....	210
14 Other Eastern Europe: Commercial Refrigeration Equipment Demand by Type.....	212
15 Africa/Mideast: Commercial Refrigeration Equipment Supply & Demand.....	215
16 Africa/Mideast: Commercial Refrigeration Equipment Demand by Type	217
17 Turkey: Commercial Refrigeration Equipment Supply & Demand.....	220
18 Turkey: Commercial Refrigeration Equipment Demand by Type	222
19 Other Africa/Mideast: Commercial Refrigeration Equipment Supply & Demand.....	225
20 Other Africa/Mideast: Commercial Refrigeration Equipment Demand by Type.....	227

INDUSTRY STRUCTURE

1 World Commercial Refrigeration Equipment Sales by Company, 2011	231
Cht World Commercial Refrigeration Equipment Market Share, 2011	232
2 Selected Acquisitions & Divestitures	236
3 Selected Cooperative Agreements	244

[Click here to purchase online](#)

Demand will benefit from strong growth in a number of the world's larger developing nations, particularly in Asia, as China and India will continue to be the fastest growing markets.

World demand to increase 4.6% yearly through 2016

Global demand for commercial refrigeration equipment is forecast to rise 4.6 percent per year through 2016, an acceleration from the 2006-2011 pace, to \$32.5 billion. Demand will benefit from strong growth in a number of the world's larger developing nations, particularly in Asia, as China and India will continue to be the fastest growing national markets for commercial refrigeration equipment. The US market, which suffered during the 2007-2009 recession, will recover and post substantially stronger growth in demand, although gains will slightly trail the world average.

China to remain fastest growing national market

China was by far the fastest growing world market for commercial refrigeration products between 2001 and 2011, posting double-digit annual growth rates and quadrupling in size over those ten years. As economic growth in the country slows, demand growth for commercial refrigeration products will decelerate, but will remain the fastest in the world. India, despite its massive size, remains a relatively small market for commercial refrigeration equipment, with per capita demand ranking among the smallest in the world. However, heavy investment in electrical infrastructure and rising incomes will create strong poten-



tial for growth, and demand gains for these products in India will be the second fastest in the world. Other developing nations with strong growth prospects include Indonesia and Thailand.

United States to remain largest national market

Although demand gains for commercial refrigeration equipment are expected to be slower in developed countries, the outlook is still strong relative to the 2006-2011 period. The US is the world's largest market for these products, and will account for nearly a quarter of global sales growth through 2016. Gains will result from an improved macroeconomic

outlook, as rising consumer spending encourages food industry participants to expand the number of retail outlets and restaurants. In addition, food industry participants will be more willing to make equipment upgrades that had been deferred due to a weak economy. Japan was the third largest market for commercial refrigeration equipment in 2011, but has declined in size since 2006, reflecting both poor economic conditions and the maturity of the market. Demand for commercial refrigeration products in Japan is forecast to return to positive growth through 2016, but gains will be significantly slower than the world average.

Copyright 2012 The Freedonia Group, Inc.

[Click here to purchase online](#)

Sample Text, Table & Chart

ASIA/PACIFIC

India: Supply & Demand

Demand for commercial refrigeration equipment in India is the largest market in the Asia/Pacific region. The refrigeration market has grown rapidly with an annual growth rate from 2006 to 2011 of 12 percent. The demand for commercial refrigeration equipment is driven by growing industrialization and rising income levels. The diversity of product use -- especially in the food processing industry -- is low. Much of rural India lacks access to electricity, and low usage of household refrigerators further suppresses demand for products requiring refrigeration.

India's food distribution network has historically been plagued by inefficiencies. Food is often spoiled in transport, and most retail sales are undertaken by very small, independent merchants. Supermarkets represent a small percentage of the retail food and beverage industry. These factors have kept per capita commercial refrigeration equipment usage low, even by the standards of developing nations.

India's shipments of commercial refrigeration equipment totaled \$430 million in 2011, making the nation the fourth largest producer in the Asia/Pacific region. Advances in industry output outpaced those in domestic demand between 2006 and 2011, but the nation still registered a trade deficit equivalent to 12 percent of demand. Imports of commercial refrigeration equipment tend to come from other countries within the Asia/Pacific region, particularly China, Japan, and South Korea. India is the home base for Voltas, a producer of low end refrigerators, coolers, and other display cases. Other commercial refrigeration equipment suppliers active in the country include Danfoss (Denmark), Emerson Electric (US), Frigoglass (Greece), Panasonic (Japan), Carrier (US), and United Technologies (US).

143

Copyright 2012

TABLE VI-7

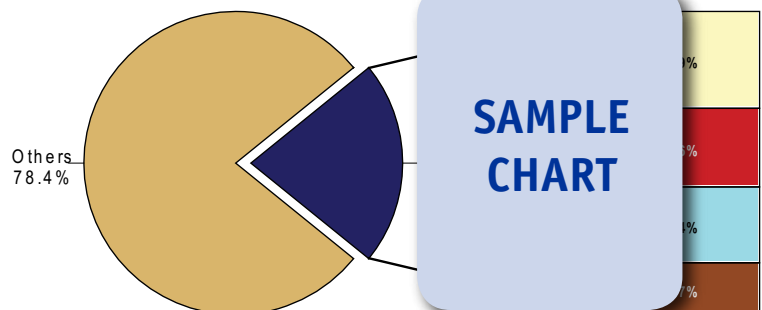
INDIA: COMMERCIAL REFRIGERATION EQUIPMENT SUPPLY & DEMAND (million dollars)

Item	2001	2006	2011	2016	2021
Population (million persons)					
\$ GDP/capita					
Gross Domestic Product (bil 2010\$)					
% GFI					
Gross Fixed Investment (bil 2010\$)					
\$ equipment/capita					
\$ equipment/000\$ GDP					
\$ equipment/000\$ GFI					
Commercial Refrig Equip Demand					
net exports					
Commercial Refrigeration Equip Shpts					

SAMPLE TABLE

CHART VIII-1

WORLD COMMERCIAL REFRIGERATION EQUIPMENT MARKET SHARE, 2011 (\$26.0 billion)



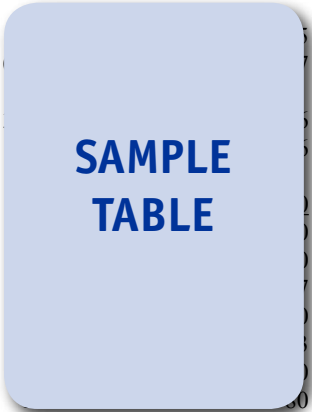
SAMPLE CHART

Sample Profile, Table & Forecast

TABLE VI-7

INDIA: COMMERCIAL REFRIGERATION EQUIPMENT DEMAND BY TYPE (million dollars)

Item	2001	2006	2011	2016	2021
Gross Fixed Investment (bil 2010\$) \$ equipment/000\$ GFI					
Food & Beverage MVA (bil 2010\$) \$ equipment/000\$ food & bev					
Commercial Refrigeration Equipment					
Reach-Ins & Walk-Ins					
Display Cases					
Beverage Refrigeration Equipment					
Ice Machines					
Refrigerated Vending Machines					
Other Equipment					
Parts					



COMPANY PROFILES

Brema Ice Makers SpA
 Via del'Industria, 10
 20020 Villa Cortese, Milano
 Italy
 39-03-31...
 http://ww...

SAMPLE PROFILE

Annual S...
 Employe...
 Key Pro...

Brema Ice Makers for hospitality, foodservice, supermarket, medical, industrial, and other applications. The Company is privately held.

The Company competes in the world commercial refrigeration industry via the production of ice makers. Among the Company's ice makers are ice cube- and ice finger-producing units, fast ice makers, and ice flake and pebble making types. Ice cube machines made by Brema Ice Makers feature daily production capacities of 21 to 155 kilograms. Specific ice cube units include FRESHMAKER and IW45 models that have chilled water dispensers, and DSS continuous ice dispensing types. Ice finger makers comprise IMF series machines, which have daily production capacities of 25 to 75 kilograms of ice. Brema Ice Makers' fast ice makers utilize vertical evaporators to produce up to 770 kilograms of small, lightweight ice cubes per day. Flakers feature daily production capacities of 90 to 1,000 kilograms and make flaked ice used to chill fresh foods and fruit. Additionally, the Company manufactures MUSTER cold flake machines, which produce ice flakes at temperatures of minus 5 to minus 30 degrees Celsius. These extra cold flakes are used primarily to ship fish, dairy products, and meats.

256 Copyright 2012 The Freedonia Group, Inc.

"The market for commercial refrigeration equipment in India will continue to expand quickly going forward. Demand for these products will rise 8.3 percent annually to \$730 million in 2016, continuing to trail only China in average annual growth. Product demand will be fueled by strong economic growth and continuing investment in modernization and infrastructure. Expanded access to electricity will allow for higher ownership rates for ..."

--Section VI, pg. 144-5

OTHER STUDIES

World Lighting: Lamps & LEDs

This study analyzes the global industry for lamps and LEDs used in lighting applications. It presents historical demand data (2001, 2006, 2011) and forecasts for 2016 and 2021 by product (e.g., fluorescent, conventional and halogen incandescent, LED, HID), market (e.g., residential & nonresidential building, outdoor, motor vehicles, other manufactured goods), world region and major country. The study also considers market environment factors, details industry structure, evaluates company market share and profiles industry participants.

#2979January 2013 \$6200

World Food Processing Machinery

Global sales of food processing machinery are expected to climb 7.3 percent per year to \$53.3 billion in 2016. The Asia/Pacific region will record the fastest demand gains, led by China, India, Indonesia and Thailand. Bakery and pasta machinery will remain the largest segment and post the highest value gains. This study analyzes the \$37.4 billion world food processing machinery industry, with forecasts for 2016 and 2021 by type, world region and for 21 major countries. The study also evaluates company market share and profiles industry participants.

#2931 November 2012 \$5900

Commercial Refrigeration Equipment

US demand for commercial refrigeration equipment will rise 4.6 percent per year to \$9.4 billion in 2016. Transportation systems will remain the largest segment and grow the fastest, followed in pace by ice machines. Food and beverage distribution will be the fastest growing market, while foodservice will remain the largest. This study analyzes the \$7.5 billion US commercial refrigeration equipment industry, with forecasts for 2016 and 2021 by food and beverage market and equipment type. The study also evaluates company market share and profiles industry players.

#2914June 2012 \$4900

World HVAC Equipment

Global demand for HVAC equipment is projected to rise 6.1 percent per year through 2016 to \$107 billion. North America will achieve the fastest gains, boosted primarily by an expected US recovery in construction. The Asia/Pacific region will post the second fastest growth rate, led by India and Indonesia. Heat pumps will remain the fastest growing type. This study analyzes the \$79.6 billion world HVAC equipment industry, with forecasts for 2016 and 2021 by product, world region and major country. It also evaluates company market share and profiles industry participants.

#2889June 2012 \$6100

Gaskets & Seals

US demand for gaskets and seals is forecast to increase 4.6 percent per annum to \$9.6 billion in 2016. Compression packings, body seals and expanded graphite gaskets will register the strongest growth. The growing use of better-performing, higher-priced gaskets and seals will help drive value gains. The marine and rail segment will post the fastest market advances. This study analyzes the \$7.6 billion US gasket and seal industry, with forecasts for 2016 and 2021 by type and market. The study also evaluates company market share and profiles industry players.

#2884 May 2012 \$4900

About The Freedonia Group

The Freedonia Group, Inc., is a leading international industry market research company that provides its clients with information and analysis needed to make informed strategic decisions for their businesses. Studies help clients identify business opportunities, develop strategies, make investment decisions and evaluate opportunities and threats. Freedonia research is designed to deliver unbiased views and reliable outlooks to assist clients in making the right decisions. Freedonia capitalizes on the resources of its proprietary in-house research team of experienced economists, professional analysts, industry researchers and editorial groups. Freedonia covers a diverse group of industries throughout the United States, the emerging China market, and other world markets. Industries analyzed by Freedonia include:

- Chemicals • Plastics • Life Sciences • Packaging • Building Materials • Security & Electronics • Industrial Components & Equipment • Automotive & Transportation Equipment • Household Goods • Energy/Power Equipment

[Click here to learn more about Freedonia](#)

Freedonia Custom Research

Freedonia Custom Research delivers the same high quality, thorough and unbiased assessment of an industry or market as an industry study. Since the research initiative is based upon a company's specific needs, companies harness Freedonia's research capabilities and resources to answer unique questions. When you leverage the results of a Freedonia Custom Research engagement, you are able to obtain important answers to specific questions and issues associated with: mergers and acquisitions, new product launches/development, geographic expansion, entry into new markets, strategic business planning, and investment and funding decisions.

Freedonia Custom Research is ideal for companies seeking to make a strategic difference in the status quo and focus on future business growth. Working side by side with clients, Freedonia's team is able to define a research project that is custom-tailored to answer specific questions and provide the basis from which a company can make informed business decisions.

[Click here to learn more about Custom Research](#)



[Click here for complete title list](#)



[Click here to visit freedoniagroup.com](http://www.freedoniagroup.com)