

Refrigerants Market by Type (HFC, CFC, HCFC, Azeotropic, Zeotropic, Carbon-di-Oxide, Ammonia, Air, and Hydrocarbons), by Application (AC and Refrigeration) - Global Opportunity Analysis and Industry Forecast, 2014-2022

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Abstracts

A refrigerant is a chemical mixture of fluids, which function as cooling agents in heat pumps & refrigeration cycles. It is based on the principle of phase transition, i.e., liquid to gas and vice versa under variable operating temperatures. Refrigerants can be used either as a primary working fluid in absorption refrigeration systems such as heat exchangers to provide refrigeration by undergoing phase changes in evaporators or as secondary functional fluids to transfer thermal energy from one medium to another at operating temperatures above 00C. An ideal refrigerant has excellent thermodynamic properties such as thermal conductivity, flammability index, enthalpy of vaporization, thermal conductivity, specific heat, critical temperature with no toxicity, and no leak tendencies without affecting the environment.

The first refrigerant was introduced in 1856, and since then it widely used in varied applications in cooling units. The demand for refrigerants has increased significantly in housing & construction and commercial & industrial sectors due to continuous growth in economy & household income; thereby, resulting in CO2 emissions and depletion of ozone layer. Ozone depletion potential (ODP) and global warming potential (GWP) are used in conjunction to measure the adverse effects of refrigerants on the environment. Government norms and several protocols, such as Montreal Protocols, have been implemented to prevent the use of harmful refrigerants.

The market for refrigerants has considerably grown in the recent past, owing to increased demand for frozen food and dairy products and rapid growth of the automotive industry across the globe. The global refrigerants market is expected to account for \$18,509 million by 2022, registering a CAGR of 9.9% between 2016 to

2022.

Developing countries have witnessed high demand for cooling equipment, owing to rapid industrialization and increase in inclination of industrialists towards efficient cooling systems. Moreover, the overall energy demand has increased due to extensive use of air conditioning systems in developing countries with high per capita disposable incomes, such as China, India, Indonesia. Moreover, various automotive manufacturers prefer 1234yf grade refrigerant despite its higher cost, as it leads to lower emissions of greenhouse gas as compared to R134A. Furthermore, rapid increase in the number of women professionals and reduction in the overall family size, worldwide, have decrease the time spent for food preparation. In addition, this has led to increase in variability of frozen or ready-to-eat food & dairy products. The market players in the global frozen food industry have focused on catering to the high demand for frozen food and dairy products and their variability. However, increase in the use of these halocarbons, as refrigerants in automobile air conditioners and freezers & chillers is a key factor responsible for ozone layer depletion. This has resulted in the reduction in the use of halocarbons-based refrigerants; thus, hampering the growth of the market.

The global refrigerants market is segmented based on type, application, and geography. Based on type, the market is classified into halocarbons, azeotropes, zeotropes, inorganic refrigerants, and hydrocarbons. The inorganic refrigerants segment dominated the global refrigerants market in 2014, and is anticipated to maintain this trend throughout the forecast period. The hydrocarbons segment is anticipated to grow at a significant CAGR of 11.5% during the forecast period. The market is analyzed based on four regions, namely North America, Europe, Asia-Pacific, and LAMEA. The Asia-Pacific region accounted for more than 40% share of the total revenue in 2015, followed by North America and Europe.

Leading market players have invested huge capital in R&D activities to develop advanced products to cater to the demand of end users. The major players in the industrial explosives market are

Arkema SA

Daikin Industries Ltd

E.I. du Pont Nemours & Co.

Honeywell International

Mexichem SA

Dongyue Group

Navin Fluorine International Ltd

SRF Ltd.

KEY BENEFITS FOR STAKEHOLDERS

The report provides an extensive analysis of the current and emerging market trends and opportunities in the global refrigerants market.

The report includes a detailed qualitative and quantitative analyses of the current market estimations during the forecast period to determine the prevailing market opportunities.

Comprehensive analysis of factors that drive and restrict the growth of the market is provided in the report.

Comprehensive regional analyses of the market based on primary as well as secondary sources have been provided in this report.

Extensive analysis of the market is conducted by following key product positioning, and by monitoring the top competitors within the market framework.

The report provides extensive qualitative insights on the potential and niche segments or regions.

The report furnishes key insights on strategic analysis of various companies as well as value chain analysis of the refrigerants market.

KEY MARKET SEGMENTS

By Type

Halocarbons (HCFCs, CFCs, and HFCs)

Azeotropic

Zeotropic

Inorganic Refrigerants (Ammonia, Air, and Carbon Dioxide)

Hydrocarbons

By Application

AC (Mobile AC, Heat Pumps, Chillers, and Stationary)

Refrigeration (Industrial, Transportation, and Domestic)

By Geography

North America

U.S.

Canada

Mexico

Europe

Germany

Russia

France

Rest of Europe

Asia-Pacific

India

China

Japan

Rest of Asia-Pacific

LAMEA

Brazil

Argentina

South Africa

Rest of LAMEA

Other players in the value chain include

The Chemours Company

The Linde Group

Sinochem Group

Airgas Inc.

Tazzetti SPA

Deepfreeze Refrigerants Inc.

Hess Corporation

General Utilities

HyChill

Engas Australasia

Shandong Yuan Chemical Company Limited

A-Gas International

Puyang Zongwei Fine Chemical Co. Ltd.

Sinochem among others.

Profiles of the above companies are not included in the report and can be added based on client interest)

Contents

CHAPTER 1 INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS FOR STAKEHOLDERS:
- 1.3. KEY MARKET SEGMENTS:
- 1.4. RESEARCH METHODOLOGY
 - 1.4.1. Secondary research
 - 1.4.2. Primary research
 - 1.4.3. Analyst tools and models

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1. CXO PERSPECTIVE

CHAPTER 3 MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
 - 3.2.1. Top investment pockets, by geography
 - 3.2.2. Top winning strategy
- 3.3. PORTERS FIVE FORCE ANALYSIS
 - 3.3.1. Bargaining power of suppliers
 - 3.3.2. Bargaining power of buyers
 - 3.3.3. Threat of new entrants
 - 3.3.4. Threat of substitutes
 - 3.3.5. Competitive rivalry
- 3.4. MARKET DYNAMICS
 - 3.4.1. Drivers
 - 3.4.1.1. Increase in demand for cooling equipment in developing regions
 - 3.4.1.2. Rapid growth of the automotive industry
 - 3.4.1.3. Rise in demand for frozen food and dairy products
 - 3.4.2. Restraints
 - 3.4.2.1. Undesirable effects of halocarbons on ozone
 - 3.4.2.2. Frequent modifications in environmental regulations and norms

CHAPTER 4 REFRIGERANTS MARKET, BY TYPE

4.1. OVERVIEW

4.1.1. Market size & forecast

4.2. HALOCARBONS

4.2.1. Key market trends

4.2.2. Key growth opportunities

4.2.3. Market size & forecast

4.2.4. Chlorofluorocarbons

4.2.5. Hydrochlorofluorocarbons

4.2.6. Hydrofluorocarbons

4.3. AZEOTROPIC REFRIGERANTS

4.3.1. Key market trends

4.3.2. Key growth opportunities

4.3.3. Market size & forecast

4.4. ZEOTROPIC REFRIGERANTS

4.4.1. Key market trends

4.4.2. Key growth opportunities

4.4.3. Market size & forecast

4.5. HYDROCARBON REFRIGERANTS

4.5.1. Key market trends

4.5.2. Key growth opportunities

4.5.3. Market size & forecast

4.6. INORGANIC REFRIGERANTS

4.6.1. Key market trends

4.6.2. Key growth opportunities

4.6.3. Market size & forecast

4.6.4. Ammonia

4.6.5. Carbon dioxide

4.6.6. Air

CHAPTER 5 REFRIGERANT MARKET, BY APPLICATION

5.1. OVERVIEW

5.1.1. Market Size and Forecast

5.2. AC

5.2.1. Key market trends

5.2.2. Key growth opportunities

5.2.3. Market size and forecast

5.2.4. Mobile AC

5.2.5. Chillers

5.2.6. Heat pumps

5.2.7. Stationary

5.3. REFRIGERATION

5.3.1. Key market trends

5.3.2. Key growth opportunities

5.3.3. Market size and forecast

5.3.4. Industrial refrigeration

5.3.5. Transportation refrigeration

5.3.6. Domestic refrigeration

CHAPTER 6 REFRIGERANTS MARKET, BY GEOGRAPHY

6.1. OVERVIEW

6.1.1. Market size & forecast

6.2. NORTH AMERICA

6.2.1. Key market trends

6.2.2. Key growth opportunities

6.2.3. Market size & forecast

6.2.4. U.S.

6.2.5. Canada

6.2.6. Mexico

6.3. EUROPE

6.3.1. Key market trends

6.3.2. Key growth factors & opportunities

6.3.3. Market size & forecast

6.3.4. Germany

6.3.5. Russia

6.3.6. UK

6.3.7. Rest of Europe

6.4. ASIA-PACIFIC

6.4.1. Key market trends

6.4.2. Key growth factors & opportunities

6.4.3. Market size & forecast

6.4.4. India

6.4.5. Japan

6.4.6. China

6.4.7. Rest of Asia Pacific

6.5. LAMEA

6.5.1. Key market trends

- 6.5.2. Key growth factors & opportunities
- 6.5.3. Market size & forecast
- 6.5.4. Brazil
- 6.5.5. Argentina
- 6.5.6. South Africa
- 6.5.7. Rest of LAMEA

CHAPTER 7 COMPANY PROFILES

7.1. ARKEMA S.A.

- 7.1.1. Company overview
- 7.1.2. Company snapshot
- 7.1.3. Operating business segments
- 7.1.4. Business performance
- 7.1.5. Key strategic moves and developments

7.2. DAIKIN INDUSTRIES, LTD.

- 7.2.1. Company overview
- 7.2.2. Company snapshot
- 7.2.3. Operating business segments
- 7.2.4. Business performance
- 7.2.5. Key strategic moves & developments

7.3. SOLVAY S.A.

- 7.3.1. Company overview
- 7.3.2. Company snapshot
- 7.3.3. Operating business segments
- 7.3.4. Business performance
- 7.3.5. Key strategic moves and developments

7.4. HONEYWELL INTERNATIONAL INC.

- 7.4.1. Company overview
- 7.4.2. Company snapshot
- 7.4.3. Operating business segments
- 7.4.4. Business performance

7.5. MEXICHEM S.A.B. DE C.V.

- 7.5.1. Company overview
- 7.5.2. Business performance
- 7.5.3. Key strategic moves and developments

7.6. DONGYUE GROUP

- 7.6.1. Company overview

7.7. SRF LIMITED

7.7.1. Company overview

7.7.2. Business performance

7.8. NAVIN FLUORINE INTERNATIONAL LIMITED

7.8.1. Company overview

7.8.2. Business performance

7.9. SINOCEM GROUP

7.9.1. Company overview

7.9.2. Business performance

List Of Tables

LIST OF TABLES

TABLE 1. GLOBAL REFRIGERANT MARKET VALUE, BY TYPE, 2014-2022
(\$MILLION)

TABLE 2. GLOBAL REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022
(KILOTONS)

TABLE 3. GLOBAL HALOCARBONS REFRIGERANTS MARKET VALUE, BY TYPE,
2014-2022 (\$MILLION)

TABLE 4. GLOBAL HALOCARBONS REFRIGERANTS MARKET VOLUME, BY TYPE,
2014-2022 (KILOTONS)

TABLE 5. GLOBAL HALOCARBONS REFRIGERANTS MARKET VALUE, BY
REGION, 2014-2022 (\$MILLION)

TABLE 6. GLOBAL HALOCARBONS REFRIGERANTS MARKET VOLUME, BY
REGION, 2014-2022 (KILOTONS)

TABLE 7. COMMON HCFC AND THEIR USES

TABLE 8. COMMON HFCS AND THEIR USES

TABLE 9. GLOBAL AZEOTROPIC REFRIGERANTS MARKET VALUE, BY REGION,
2014-2022 (\$MILLION)

TABLE 10. GLOBAL AZEOTROPIC REFRIGERANTS MARKET VOLUME, BY
REGION, 2014-2022 (KILOTONS)

TABLE 11. GLOBAL ZEOTROPIC REFRIGERANTS MARKET VALUE, BY REGION,
2014-2022 (\$MILLION)

TABLE 12. GLOBAL ZEOTROPIC REFRIGERANTS MARKET VOLUME, BY REGION,
2014-2022 (KILOTONS)

TABLE 13. COMMON HC REFRIGERANT AND THEIR USES

TABLE 14. GLOBAL HYDROCARBONS REFRIGERANTS MARKET VALUE, BY
TYPE, 2014-2022 (\$MILLION)

TABLE 15. GLOBAL HYDROCARBONS REFRIGERANTS MARKET VALUE, BY
TYPE, 2014-2022 (KILOTONS)

TABLE 16. GLOBAL INORGANIC REFRIGERANTS MARKET VALUE, BY TYPE,
2014-2022 (\$MILLION)

TABLE 17. GLOBAL INORGANIC REFRIGERANTS MARKET VOLUME, BY TYPE,
2014-2022 (KILOTONS)

TABLE 18. GLOBAL INORGANIC REFRIGERANTS MARKET VALUE, BY REGION,
2014-2022 (\$MILLION)

TABLE 19. GLOBAL INORGANIC REFRIGERANTS MARKET VOLUME, BY REGION,
2014-2022 (KILOTONS)

TABLE 20. GLOBAL REFRIGERANTS MARKET VALUE, BY APPLICATION, 2014-2022 (\$MILLION)

TABLE 21. GLOBAL REFRIGERANTS MARKET VOLUME, BY APPLICATION, 2014-2022 (KILOTONS)

TABLE 22. GLOBAL AC REFRIGERANTS MARKET VALUE BY TYPE, 2014-2022 (\$MILLION)

TABLE 23. GLOBAL AC REFRIGERANTS MARKET VOLUME BY TYPE, 2014-2022 (KILOTONS)

TABLE 24. GLOBAL REFRIGERANTS MARKET VALUE IN AC BY REGION, 2014-2022 (\$MILLION)

TABLE 25. GLOBAL REFRIGERANTS MARKET VOLUME IN AC BY REGION, 2014-2022 (KILOTONS)

TABLE 26. GLOBAL REFRIGERATION REFRIGERANTS MARKET VALUE BY TYPE, 2014-2022 (\$MILLION)

TABLE 27. GLOBAL REFRIGERATION REFRIGERANTS MARKET VOLUME BY TYPE, 2014-2022 (KILOTONS)

TABLE 28. GLOBAL REFRIGERANTS MARKET VALUE IN REFRIGERATION BY REGION, 2014-2022 (\$MILLION)

TABLE 29. GLOBAL REFRIGERANTS MARKET VOLUME IN REFRIGERATION BY REGION, 2014-2022 (KILOTONS)

TABLE 30. GLOBAL REFRIGERANTS MARKET VALUE, BY REGION, 2014-2022 (\$MILLION)

TABLE 31. GLOBAL REFRIGERANTS MARKET VOLUME, BY REGION, 2014-2022 (KILOTONS)

TABLE 32. NORTH AMERICA REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 33. NORTH AMERICA REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 34. NORTH AMERICA REFRIGERANTS MARKET VALUE, BY APPLICATION, 2014-2022 (\$MILLION)

TABLE 35. NORTH AMERICA REFRIGERANTS MARKET VOLUME, BY APPLICATION, 2014-2022 (KILOTONS)

TABLE 36. NORTH AMERICA REFRIGERANTS MARKET VALUE, BY COUNTRY, 2014-2022 (\$MILLION)

TABLE 37. NORTH AMERICA REFRIGERANTS MARKET VOLUME, BY COUNTRY, 2014-2022 (KILOTONS)

TABLE 38. NORTH AMERICA HALOCARBONS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 39. NORTH AMERICA HALOCARBONS MARKET VOLUME, BY TYPE,

2014-2022 (KILOTONS)

TABLE 40. NORTH AMERICA INORGANIC MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 41. NORTH AMERICA INORGANIC MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 42. NORTH AMERICA AC REFRIGERANTS MARKET VALUE, BY TYPE 2014-2022 (\$MILLION)

TABLE 43. NORTH AMERICA AC REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 44. NORTH AMERICA REFRIGERATION REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 45. NORTH AMERICA REFRIGERATION REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 46. EUROPE REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 47. EUROPE REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 48. EUROPE REFRIGERANTS MARKET VALUE, BY APPLICATION, 2014-2022 (\$MILLION)

TABLE 49. EUROPE REFRIGERANTS MARKET VOLUME, BY APPLICATION, 2014-2022 (KILOTONS)

TABLE 50. EUROPE REFRIGERANTS MARKET VALUE, BY COUNTRY, 2014-2022 (\$MILLION)

TABLE 51. EUROPE REFRIGERANTS MARKET VOLUME, BY COUNTRY, 2014-2022 (KILOTONS)

TABLE 52. EUROPE HALOCARBONS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 53. EUROPE HALOCARBONS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 54. EUROPE INORGANIC MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 55. EUROPE INORGANIC MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 56. EUROPE AC REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 57. EUROPE AC REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 58. EUROPE REFRIGERATION REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 59. EUROPE REFRIGERATION REFRIGERANTS MARKET VOLUME, BY

TYPE, 2014-2022 (KILOTONS)

TABLE 60. ASIA PACIFIC REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 61. ASIA PACIFIC REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 62. ASIA PACIFIC REFRIGERANTS MARKET VALUE, BY APPLICATION, 2014-2022 (\$MILLION)

TABLE 63. ASIA PACIFIC REFRIGERANTS MARKET VOLUME, BY APPLICATION, 2014-2022 (KILOTONS)

TABLE 64. ASIA PACIFIC REFRIGERANTS MARKET VALUE, BY COUNTRY, 2014-2022 (\$MILLION)

TABLE 65. ASIA PACIFIC REFRIGERANTS MARKET VOLUME, BY COUNTRY, 2014-2022 (KILOTONS)

TABLE 66. ASIA PACIFIC HALOCARBONS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 67. ASIA PACIFIC HALOCARBONS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 68. ASIA PACIFIC INORGANIC MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 69. ASIA PACIFIC INORGANIC MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 70. ASIA PACIFIC AC REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 71. ASIA PACIFIC AC REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 72. ASIA PACIFIC REFRIGERATION REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 73. ASIA PACIFIC REFRIGERATION REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 74. LAMEA REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 75. LAMEA REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 76. LAMEA REFRIGERANTS MARKET VALUE, BY APPLICATION, 2014-2022 (\$MILLION)

TABLE 77. LAMEA REFRIGERANTS MARKET VOLUME, BY APPLICATION, 2014-2022 (KILOTONS)

TABLE 78. LAMEA REFRIGERANTS MARKET VALUE, BY COUNTRY, 2014-2022 (\$MILLION)

TABLE 79. LAMEA REFRIGERANTS MARKET VOLUME, BY COUNTRY, 2014-2022 (KILOTONS)

TABLE 80. LAMEA HALOCARBONS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 81. LAMEA HALOCARBONS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 82. LAMEA INORGANIC MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 83. LAMEA INORGANIC MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 84. LAMEA AC REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 85. LAMEA AC REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 86. LAMEA REFRIGERATION REFRIGERANTS MARKET VALUE, BY TYPE, 2014-2022 (\$MILLION)

TABLE 87. LAMEA REFRIGERATION REFRIGERANTS MARKET VOLUME, BY TYPE, 2014-2022 (KILOTONS)

TABLE 88. ARKEMA S.A.: COMPANY SNAPSHOT

TABLE 89. ARKEMA S.A.: OPERATING SEGMENTS

TABLE 90. DAIKIN INDUSTRIES, LTD.: COMPANY SNAPSHOT

TABLE 91. DAIKIN INDUSTRIES, LTD.: OPERATING SEGMENTS

TABLE 92. SOLVAY SOLEXIS INC.: COMPANY SNAPSHOT

TABLE 93. SOLVAY S.A.: OPERATING SEGMENTS

TABLE 94. HONEYWELL - COMPANY SNAPSHOT

TABLE 95. HONEYWELL - OPERATING SEGMENTS

TABLE 96. MEXICHEM - COMPANY SNAPSHOT

TABLE 97. MEXICHEM - OPERATING SEGMENTS

TABLE 98. DONGYUE GROUP - COMPANY SNAPSHOT

TABLE 99. DONGYUE GROUP - OPERATING SEGMENTS

TABLE 100. SRF LIMITED - COMPANY SNAPSHOT

TABLE 101. SRF LIMITED- OPERATING SEGMENTS

TABLE 102. NAVIN FLUORINE INTERNATIONAL LIMITED - COMPANY SNAPSHOT

TABLE 103. NAVIN FLUORINE INTERNATIONAL LIMITED - OPERATING SEGMENTS

TABLE 104. SINOCEM GROUP - COMPANY SNAPSHOT

TABLE 105. SINOCEM GROUP - OPERATING SEGMENTS

List Of Figures

LIST OF FIGURES

- FIGURE 1. TOP INVESTMENT POCKETS, BY GEOGRAPHY
- FIGURE 2. REFRIGERANTS MARKET: TOP WINNING STRATEGIES (%), 2011-2016
- FIGURE 3. PORTERS FIVE FORCES ANALYSIS
- FIGURE 4. U.S. REFRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 5. CANADA REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 6. MEXICO REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 7. GERMANY REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 8. RUSSIA REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 9. UK REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 10. REST OF EUROPE REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 11. INDIA REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 12. JAPAN REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 13. CHINA REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 14. REST OF ASIA PACIFIC REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 15. BRAZIL REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 16. ARGENTINA REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 17. SOUTH AFRICA REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 18. REST OF LAMEA REGRIGERANTS MARKET SIZE, 2014-2022
- FIGURE 19. ARKEMA S.A. REVENUE, 2014-2015 (\$MILLION)
- FIGURE 20. ARKEMA S.A. REVENUE BY BUSINESS SEGMENT, 2015 (%)
- FIGURE 21. ARKEMA S.A. REVENUE BY REGION, 2015 (%)
- FIGURE 22. DAIKIN INDUSTRIES, LTD. REVENUE, 2014-2015 (\$MILLION)
- FIGURE 23. DAIKIN INDUSTRIES, LTD. REVENUE BY BUSINESS SEGMENT, 2015 (%)
- FIGURE 24. DAIKIN INDUSTRIES, LTD. REVENUE BY REGION, 2015 (%)
- FIGURE 25. SOLVAY S.A. REVENUE, 2014-2015 (\$MILLION)
- FIGURE 26. SOLVAY S.A. REVENUE BY BUSINESS SEGMENT, 2015 (%)
- FIGURE 27. SOLVAY S.A. REVENUE BY REGION, 2015 (%)
- FIGURE 28. HONEYWELL: REVENUE BY BUSINESS SEGMENTS, 2015 (%)
- FIGURE 29. HONEYWELL: REVENUE BY GEOGRAPHY, 2015 (%)
- FIGURE 30. MEXICHEM: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

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