

Non-Thermal Processing Market for Food by Technology (HPP, PEF, Irradiation, Ultrasound, Cold Plasma), Food Type (Meat, Beverages), Function (Microbial Inactivation, Quality Assurance), and Region - Global Forecast to 2022

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Abstracts

"Non-thermal processing market is projected to grow at a CAGR of 8.4%"

The non-thermal processing market is estimated to be valued at USD 818.6 million in 2017, and is projected to reach USD 1,224.2 million by 2022, at a CAGR of 8.4% from 2017.

The need for retention of nutrients and sensory attributes in food have triggered the nonthermal processing market. Extensive R&D activities have been undertaken to optimize the process and make it compatible for usage in various food applications. The growth of the convenience food industry, especially in the processed meat sector, has been driving the market, as meat products are prone to microbial contamination. However, the high installation cost is a major restraining factor for this market. Inability to shift from conventional thermal technologies by large players is a major challenge for the nonthermal processing market.

"HPP segment is projected to be fastest-growing from 2017 to 2022"

The HPP segment is projected to grow at the highest CAGR among all non-thermal processing technologies from 2017 to 2022. The technique preserves the freshness of food products as well as aids in extending their shelf life. It also accommodates the current consumer demand for natural, fresh, and minimally processed foods, as no preservatives or additives are added to the products. Due to these factors, the market is



projected to grow at a significant rate in the future.

"Meat & seafood segment is estimated to lead the market with the largest share in 2017"

Meat products are widely consumed and produced almost all over the globe. These products are highly perishable in nature due to high moisture content and are prone to bacterial contamination. Thus, non-thermal processing technologies are majorly used in this food product segment in order to prevent microbial development and to extent the shelf life of meat & seafood products.

"Microbial inactivation segment dominated the market in 2016"

Microbial inactivation is one of the widely used functions of non-thermal processing technologies for food preservation. This helps to extend the shelf life of food products considerably. Irradiation is an effective non-thermal technology used for microbial inactivation. Food products undergo high frequency radiation treatment, leading to the disintegration of the cells of microorganisms.

"China contributed to the largest market share in the Asia Pacific region in 2017"

The North American region dominated the non-thermal processing market in 2017. The market in Europe is driven by the increase in consumption of meat and beverage products in Spain, the UK, and other countries, which draws the attention of food companies toward adopting non-thermal processing technology to provide clean and natural products devoid of preservatives.

The demand for non-thermal food processing is high in manufacturing-based economies such as Japan and China. The market is also driven by the increase in consumption of processed and packaged foods. The safety of products is a priority for food processing companies in China due to the increasing export and regulatory mandates. The commercially available HPP products in China include meat products, juices, and ready meals. CHIC Foods Co. Ltd. (China) is one of the key companies that offer HPP treated fruit juices in the Chinese market. The Chinese government is offering tax subsidies for FDI, thus providing a favorable environment for OEMs of non-thermal processing equipment to expand their products and services and ensure growth of this emerging market. The Chinese non-thermal decontamination service industry is also booming, with significant growth expected in the microbial inactivation contract services.



The figure below shows the breakdown of the primaries on the basis of the company, designation, and region, conducted during the research study.

By Company Type: Tier 1 - 48%, Tier 2 - 38%, and Tier 3 - 14%

By Designation: C level – 44% and D level – 56%

By Region: Europe – 53%, Asia Pacific – 14%, North America – 23%, and RoW – 10%

Major players such as Bosch (Germany), Bühler (Switzerland), Hiperbaric España (Spain), Nordion (Canada), and Avure Technologies (US), collectively accounted for a majority of the global non-thermal processing market. Other players in the market include Emerson (US), CHIC FresherTech (US), Elea Technology (Germany), Pulsemaster (Netherlands), GrayStar (US), Dukane (US), and Symbios Technologies (US).

Research Coverage:

The report focuses on non-thermal processing services for different materials and regions. It aims at estimating the size and future growth potential of this market across different segments—food product, technology, function, and region. Furthermore, the report includes an in-depth competitive analysis of the key players in the market along with their company profiles, competitive landscape, recent developments, and key market strategies.

Reasons to buy this report:

To get a comprehensive overview of the global non-thermal processing market

To gain wide-ranging information about the top players in this industry, their service portfolios, and key strategies adopted by them

To gain insights of the major countries/regions in which the non-thermal processing market is flourishing



Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
- 1.4 PERIODIZATION CONSIDERED
- 1.5 CURRENCY CONSIDERED
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA
2.1.1 SECONDARY DATA
2.1.2 PRIMARY DATA
2.1.2.1 Breakdown of primaries
2.2 MARKET SIZE ESTIMATION
2.3 DATA TRIANGULATION
2.4 RESEARCH ASSUMPTIONS
2.5 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 OPPORTUNITIES IN THE NON-THERMAL PROCESSING MARKET

4.2 NON-THERMAL PROCESSING MARKET: KEY COUNTRIES

4.3 NON-THERMAL PROCESSING MARKET, BY TECHNOLOGY & REGION

4.4 DEVELOPED VS. DEVELOPING MARKETS FOR NON-THERMAL PROCESSING IN FOOD

4.5 NON-THERMAL PROCESSING MARKET, BY TECHNOLOGY & FOOD PRODUCT 4.6 NORTH AMERICA: NON-THERMAL PROCESSING MARKET, BY TECHNOLOGY & COUNTRY, 2016

5 MARKET OVERVIEW

5.1 INTRODUCTION 5.2 MARKET DYNAMICS



5.2.1 DRIVERS

5.2.1.1 Trend of novel technologies over conventional ones

5.2.1.1.1 Retention of nutrients and sensory attributes of food

5.2.1.1.2 Food safety concerns

5.2.1.2 Process optimization

5.2.1.2.1 Energy saving "green technology"

5.2.1.3 Extensive R&D activities and technological achievements promoting nonthermal processing

5.2.1.4 Growth of the ready-to-eat & packaged food industry

5.2.1.4.1 HPP technology speeds up packaged food processing to meet growing demand

5.2.1.4.2 Growth of the processed meat sector

5.2.2 RESTRAINTS

5.2.2.1 Misconceptions leading to regulatory compliance for labelling irradiated food

- 5.2.2.2 High capital investment
- **5.2.3 OPPORTUNITIES**
 - 5.2.3.1 Competitive advantage for SMEs
 - 5.2.3.2 Investments by governments in food processing machinery & equipment
- 5.2.3.3 Greater opportunities in Asian countries
- 5.2.4 CHALLENGES

5.2.4.1 Established users reluctant to replace conventional technologies

6 NON-THERMAL PROCESSING MARKET, BY TECHNOLOGY

6.1 INTRODUCTION

6.2 HIGH PRESSURE PROCESSING (HPP)

- 6.2.1 BY ORIENTATION TYPE
- 6.2.2 BY VESSEL VOLUME
- 6.2.3 BY END USER
- 6.3 PULSED ELECTRIC FIELD (PEF)
- 6.4 IRRADIATION
- 6.5 ULTRASONIC
- 6.5.1 BY FREQUENCY RANGE
- 6.6 COLD PLASMA
- 6.7 OTHERS

7 NON-THERMAL PROCESSING MARKET, BY FOOD PRODUCT

7.1 INTRODUCTION



7.2 MEAT & SEAFOOD7.3 FRUITS & VEGETABLES7.4 BEVERAGES7.5 OTHERS

8 NON-THERMAL PROCESSING MARKET, BY FUNCTION

8.1 INTRODUCTION
8.2 QUALITY ASSURANCE
8.3 MICROBIAL INACTIVATION

8.3.1 COMPRESSION THROUGH HIGH PRESSURE
8.3.2 HIGH INTENSITY PULSED ELECTRIC FIELDS
8.3.3 IRRADIATION
8.3.4 ACOUSTIC CAVITATION
8.3.5 OTHER TECHNIQUES

8.4 CUTTING
8.5 EMULSIFICATION & HOMOGENIZATION
8.6 CLEANING
8.7 OTHERS

8.7.1 DEGASSING

9 NON-THERMAL PROCESSING MARKET, BY REGION

9.1 INTRODUCTION 9.2 NORTH AMERICA 9.2.1 US 9.2.2 CANADA 9.2.3 MEXICO 9.3 EUROPE 9.3.1 GERMANY 9.3.2 UK **9.3.3 FRANCE** 9.3.4 ITALY 9.3.5 SPAIN 9.3.6 REST OF EUROPE 9.4 ASIA PACIFIC 9.4.1 CHINA 9.4.2 JAPAN 9.4.3 INDIA



9.4.4 AUSTRALIA & NEW ZEALAND
9.4.5 REST OF ASIA PACIFIC
9.5 REST OF THE WORLD (ROW)
9.5.1 BRAZIL
9.5.2 ARGENTINA
9.5.3 MIDDLE EAST
9.5.4 OTHERS IN ROW

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW
10.2 MARKET RANKING
10.3 COMPETITIVE SCENARIO
10.3.1 NEW PRODUCT & TECHNOLOGY LAUNCHES
10.3.2 EXPANSIONS
10.3.3 ACQUISITIONS
10.3.4 AGREEMENTS, COLLABORATIONS, AND PARTNERSHIPS

11 COMPANY PROFILES

(Business overview, Products offered, Recent developments, SWOT analysis & MnM View)*

11.1 BOSCH
11.2 EMERSON
11.3 BÜHLER
11.4 HIPERBARIC ESPAÑA
11.5 AVURE TECHNOLOGIES
11.6 CHIC FRESHERTECH
11.7 ELEA TECHNOLOGY
11.8 PULSEMASTER
11.9 NORDION
11.10 GRAY*STAR
11.11 DUKANE
11.12 SYMBIOS TECHNOLOGIES

*Details on Business overview, Products offered, Recent developments, SWOT analysis & MnM View might not be captured in case of unlisted companies.



12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 ADDITIONAL COMPANY DEVELOPMENTS

12.2.1 EXPANSIONS

12.2.2 NEW PRODUCT AND TECHNOLOGY LAUNCHES

12.2.3 ACQUISITIONS

12.2.4 AGREEMENTS, COLLABORATIONS, AND PARTNERSHIPS

12.3 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.4 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE

12.5 AVAILABLE CUSTOMIZATIONS

12.6 RELATED REPORTS

12.7 AUTHOR DETAILS





List Of Tables

LIST OF TABLES

Table 1 US DOLLAR EXCHANGE RATE CONSIDERED FOR STUDY, 2014–2016 Table 2 PRIVATE LABEL PACKAGED FOOD SUBSECTORS IN THE US, 2007 & 2012 (USD MILLION) Table 3 NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015-2022 (USD MILLION) Table 4 HPP MARKET SIZE, BY REGION, 2015–2022 (USD MILLION) Table 5 HPP MARKET SIZE, BY FOOD PRODUCT, 2015–2022 (USD MILLION) Table 6 HPP MARKET SIZE, BY ORIENTATION TYPE, 2015–2022 (USD MILLION) Table 7 HPP MARKET SIZE, BY VESSEL VOLUME, 2015-2022 (USD MILLION) Table 8 HPP MARKET SIZE, BY END USER, 2015–2022 (USD MILLION) Table 9 PEF PROCESSING MARKET SIZE, BY REGION, 2015–2022 (USD MILLION) Table 10 PEF MARKET SIZE, BY FOOD PRODUCT, 2015–2022 (USD MILLION) Table 11 IRRADIATION REGULATIONS IN THE US Table 12 IRRADIATION PROCESSING MARKET SIZE, BY REGION, 2015–2022 (USD MILLION) Table 13 IRRADIATION MARKET SIZE, BY FOOD PRODUCT, 2015–2022 (USD MILLION) Table 14 APPLICATIONS OF ULTRASOUND IN FOOD PROCESSING Table 15 ULTRASONIC PROCESSING MARKET SIZE, BY REGION, 2015–2022 (USD MILLION) Table 16 ULTRASONIC MARKET SIZE, BY FOOD PRODUCT, 2015–2022 (USD MILLION) Table 17 ULTRASONIC MARKET SIZE, BY OTHER FOOD PRODUCTS, 2015–2022 (USD MILLION) Table 18 ULTRASONIC PROCESSING MARKET SIZE, BY FREQUENCY RANGE, 2015-2022 (USD MILLION) Table 19 HIGH-FREQUENCY LOW INTENSITY ULTRASONIC PROCESSING MARKET SIZE, BY REGION, 2015–2022 (USD MILLION) Table 20 LOW-FREQUENCY HIGH INTENSITY ULTRASONIC PROCESSING MARKET SIZE, BY REGION, 2015–2022 (USD MILLION) Table 21 COLD PLASMA PROCESSING MARKET SIZE, BY REGION, 2015–2022 (USD MILLION) Table 22 COLD PLASMA MARKET SIZE, BY FOOD PRODUCT, 2015–2022 (USD MILLION)

Table 23 OTHER NON-THERMAL PROCESSING TECHNOLOGIES MARKET SIZE,



BY REGION, 2015–2022 (USD MILLION)

Table 24 OTHER TECHNOLOGIES MARKET SIZE, BY FOOD PRODUCT, 2015–2022 (USD MILLION)

Table 25 NON-THERMAL PROCESSING MARKET SIZE, BY FOOD PRODUCT, 2015–2022 (USD MILLION)

Table 26 MEAT & SEAFOOD: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 27 HPP: NON-THERMAL PROCESSING MARKET SIZE FOR MEAT &SEAFOOD, BY PROCESSING STATUS, 2015–2022 (USD MILLION)

Table 28 FRUITS & VEGETABLES: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 29 HPP: NON-THERMAL PROCESSING MARKET SIZE FOR FRUITS &VEGETABLES, BY PROCESSING STATUS, 2015–2022 (USD MILLION)

Table 30 BEVERAGES: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 31 HPP: NON-THERMAL PROCESSING MARKET SIZE FOR BEVERAGES, BY PROCESSING STATUS, 2015–2022 (USD MILLION)

Table 32 OTHERS: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 33 ULTRASONIC PROCESSING MARKET SIZE, BY FUNCTION, 2015–2022 (USD MILLION)

Table 34 NON-THERMAL PROCESSING MARKET SIZE, BY REGION, 2015–2022 (USD MILLION)

Table 35 NORTH AMERICA: NON-THERMAL PROCESSING MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 36 NORTH AMERICA: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 37 NORTH AMERICA: ULTRASONIC PROCESSING MARKET SIZE, BY FREQUENCY RANGE, 2015–2022 (USD MILLION)

Table 38 US: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 39 CANADA: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 40 MEXICO: NON-THERMAL PROCESSING MARKET SIZE, BY

TECHNOLOGY, 2015–2022 (USD MILLION)

Table 41 EUROPE: NON-THERMAL PROCESSING MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 42 EUROPE: NON-THERMAL PROCESSING MARKET SIZE, BYTECHNOLOGY, 2015–2022 (USD MILLION)



Table 43 EUROPE: ULTRASONIC PROCESSING MARKET SIZE, BY FREQUENCY RANGE, 2015–2022 (USD MILLION)

Table 44 GERMANY: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 45 UK: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 46 FRANCE: NON-THERMAL PROCESSING MARKET SIZE, BY

TECHNOLOGY, 2015–2022 (USD MILLION)

Table 47 ITALY: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 48 SPAIN: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 49 REST OF EUROPE: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 50 ASIA PACIFIC: NON-THERMAL PROCESSING MARKET SIZE, BY COUNTRY, 2015–2022 (USD MILLION)

Table 51 ASIA PACIFIC: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 52 ASIA PACIFIC: ULTRASONIC PROCESSING MARKET SIZE, BY

FREQUENCY RANGE, 2015–2022 (USD MILLION)

Table 53 CHINA: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 54 JAPAN: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 55 INDIA: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 56 AUSTRALIA & NEW ZEALAND: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 57 REST OF ASIA PACIFIC: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 58 ROW: NON-THERMAL PROCESSING MARKET SIZE, BY

COUNTRY/REGION, 2015–2022 (USD MILLION)

Table 59 ROW: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 60 ROW: ULTRASONIC PROCESSING MARKET SIZE, BY FREQUENCY RANGE, 2015–2022 (USD MILLION)

Table 61 BRAZIL: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION)

Table 62 ARGENTINA: NON-THERMAL PROCESSING MARKET SIZE, BY



TECHNOLOGY, 2015–2022 (USD MILLION) Table 63 MIDDLE EAST: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION) Table 64 OTHERS IN ROW: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2015–2022 (USD MILLION) Table 65 NEW PRODUCT & TECHNOLOGY LAUNCHES, 2017–2018 Table 66 EXPANSIONS, 2016–2017 Table 67 ACQUISITIONS, 2016–2018 Table 68 AGREEMENTS, COLLABORATIONS, AND PARTNERSHIPS, 2013–2015 Table 69 EXPANSIONS, 2013–2015 Table 70 NEW PRODUCT AND TECHNOLOGY LAUNCHES, 2013–2017 Table 71 ACQUISITIONS, 2013–2014 Table 72 AGREEMENTS, COLLABORATIONS, AND PARTNERSHIPS, 2013–2015



List Of Figures

LIST OF FIGURES

Figure 1 NON-THERMAL PROCESSING MARKET: MARKET SEGMENTATION Figure 2 NON-THERMAL PROCESSING MARKET: GEOGRAPHIC SEGMENTATION Figure 3 RESEARCH DESIGN: NON-THERMAL PROCESSING Figure 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH Figure 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH Figure 6 DATA TRIANGULATION METHODOLOGY Figure 7 NON-THERMAL PROCESSING MARKET SNAPSHOT, BY TECHNOLOGY, 2017 VS. 2022 Figure 8 NON-THERMAL PROCESSING MARKET SIZE, BY FOOD PRODUCT, 2017-2022 Figure 9 NORTH AMERICA IS PROJECTED TO BE THE FASTEST-GROWING **REGIONAL MARKET BY 2022** Figure 10 NON-THERMAL PROCESSING MARKET SHARE, BY REGION Figure 11 INCREASE IN DEMAND FOR NOVEL FOOD PROCESSING TECHNOLOGIES TO DRIVE THE GROWTH OF THE NON-THERMAL PROCESSING MARKET Figure 12 MEXICO TO BE THE FASTEST-GROWING COUNTRY MARKET FOR NON-**THERMAL PROCESSING BY 2022** Figure 13 HPP SEGMENT DOMINATED THE MARKET IN 2016 Figure 14 DEVELOPING COUNTRIES TO EMERGE AT THE HIGHEST GROWTH RATES DURING THE FORECAST PERIOD Figure 15 HPP DOMINATED THE NON-THERMAL PROCESSING MARKET ACROSS **ALL TECHNOLOGIES IN 2016** Figure 16 US ACCOUNTED FOR THE LARGEST SHARE IN 2016 Figure 17 MARKET DYNAMICS: NON-THERMAL PROCESSING MARKET Figure 18 COMPANIES PREFERRED NON-THERMAL PROCESSING FOR BETTER NUTRIENT/SENSORY QUALITY Figure 19 FOOD SAFETY IMPROVEMENTS & INCREASED BUDGET ALLOCATION **BY THE FDA**, 2015 Figure 20 HPP TECHNOLOGY WAS HIGHLY PRODUCTIVE IN RETAINING SENSORY ATTRIBUTES Figure 21 NON-THERMAL FOOD PROCESSING TECHNOLOGIES UNDER EXPERIMENT (%) Figure 22 PRIVATE LABEL TREND OF PACKAGED FOOD IN THE US (USD

MILLION)



Figure 23 MEAT PRODUCTS WAS THE MAJOR SEGMENT FOR USE OF NON-THERMAL TECHNIQUES

Figure 24 MAJOR PROCESSED MEAT EXPORTING COUNTRIES AND GROWTH FROM 2012 TO 2016

Figure 25 LIMITATIONS OF USING NON-THERMAL PROCESSING TECHNOLOGIES IN FOOD INDUSTRIES

Figure 26 NET TRADE OF PROCESSED MEAT PRODUCTS IN THE PHILIPPINES Figure 27 FDI INFLOWS WERE THE HIGHEST IN THE FOOD PROCESSING SECTOR IN INDIA, 2015

Figure 28 FUND ALLOCATION FOR THE DEVELOPMENT OF THE FOOD PROCESSING INDUSTRY IN INDIA (USD MILLION)

Figure 29 NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2017 VS. 2022

Figure 30 HPP MARKET SIZE, BY REGION, 2017 VS. 2022

Figure 31 NON-THERMAL PROCESSING MARKET SIZE, BY FOOD PRODUCT, 2017 VS. 2022

Figure 32 MEAT & SEAFOOD: NON-THERMAL PROCESSING MARKET SIZE, BY TECHNOLOGY, 2017 VS. 2022

Figure 33 ULTRASONIC PROCESSING MARKET SIZE, BY FUNCTION, 2017 VS. 2022

Figure 34 US HELD THE LARGEST SHARE IN THE NON-THERMAL PROCESSING MARKET, 2016

Figure 35 NORTH AMERICAN MARKET SNAPSHOT

Figure 36 EUROPEAN MARKET SNAPSHOT

Figure 37 ASIA PACIFIC MARKET SNAPSHOT

Figure 38 KEY DEVELOPMENTS OF THE LEADING PLAYERS IN THE NON-

THERMAL PROCESSING MARKET FOR 2013-2017

Figure 39 TOP FIVE COMPANIES IN THE NON-THERMAL PROCESSING MARKET, 2016

Figure 40 MARKET EVALUATION FRAMEWORK

Figure 41 BOSCH: COMPANY SNAPSHOT

Figure 42 EMERSON: COMPANY SNAPSHOT

Figure 43 BÜHLER: COMPANY SNAPSHOT



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