

Data Center Pipes Market by Pipe Type (Pre-Insulated Pipes, Flexible Pipes), Pipe Material (Plastic & Composite Pipes, Stainless Steel Pipes, Carbon Steel Pipes, Copper Pipes), Data Center Type, Applications, and Region - Global Forecast to 2032

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Abstracts

The data center pipes market is projected to grow from USD 0.71 billion in 2025 to USD 5.23 billion by 2032, at a CAGR of 33.0% during the forecast period. The global data center pipes market is expanding as the focus on infrastructure reliability and risk mitigation in mission-critical facilities intensifies, where uninterrupted cooling and fluid circulation are essential for continuous operations. Operators in facilities with rising server densities and increasing thermal loads focus on selecting piping systems that combine leak resistance and structural strength with long service life to minimize operational expenses and system breakdowns. The demand for piping solutions that provide fast installation and maintain quality throughout construction and retrofit operations has increased as prefabricated and modular infrastructure systems become more prevalent. The growing adoption of advanced monitoring and control technologies in cooling systems is driving demand for piping materials compatible with these systems. The operational requirements currently being developed create an increasing need for advanced piping systems in contemporary data center facilities.

“By pipe material, the plastic & composite pipes segment is estimated to hold the largest share, in terms of volume, during the forecast period.”

Data centers are increasingly using plastic and composite pipes as these materials offer excellent performance, long-lasting durability, and efficient operation for cooling systems and fluid transportation. The materials retain their original state due to their high resistance to corrosion, scaling, and chemical deterioration, enabling them to serve

as dependable components in cooling fluid distribution systems. The product's lightweight design allows workers to handle and install it easily, reducing construction difficulties and enabling quick installation of both large data centers and modular data center systems. Plastic and composite pipes deliver internal surfaces that create smooth flow paths, reducing pressure losses and enhancing the performance of cooling systems. The system can withstand various temperature and moisture changes, enabling it to function in contemporary liquid-cooling systems and existing data center infrastructure projects.

“By data center type, the hyperscale data centers segment is estimated to hold the largest share, in terms of volume, during the forecast period.”

The hyperscale data center segment is estimated to account for the largest share in the data center pipes market, as these facilities require extensive infrastructure and handle large volumes of water. Hyperscale facilities are built to handle massive cloud computing workloads, as well as artificial intelligence tasks and digital service platforms that require constant, efficient cooling systems. These facilities use advanced liquid-cooling systems that include direct-to-chip and immersion cooling technologies, which require extensive pipe systems for coolant transport, heat transfer, and operational dependability. Hyperscale operators want to keep their systems operational for extended periods while saving energy. They prefer specialized piping materials that resist corrosion, withstand high temperatures, and prevent leaks. Major technology companies and cloud service providers continue to expand their hyperscale infrastructure, creating additional demand for piping systems.

“By application, the cooling systems segment is estimated to hold the largest share, in terms of volume, during the forecast period.”

The cooling systems segment is estimated to be the largest application in the data center pipes market, as thermal management systems require extensive piping for their operations. Cooling systems use interconnected piping networks to move coolants through their systems, which include heat exchangers, chillers, cooling distribution units, and server cooling systems. Data centers need advanced cooling systems that provide higher coolant flow capacity and larger piping systems, as artificial intelligence, cloud computing, and high-performance workloads increase computing density. The increasing use of liquid-based cooling systems, which require specialized piping to manage heat, results in greater pipe usage in cooling system implementations. The essential function of cooling systems in maintaining operational performance and energy efficiency creates ongoing demand for piping systems, enabling this segment to

dominate the market.

Break-up of primary participants for the report:

By Company Type: Tier 1 – 65%, Tier 2 – 20%, and Tier 3 – 15%

By Designation: C-Level Executives– 25%, Directors– 30%, and Others – 45%

By Region: North America – 30%, Asia Pacific – 40%, Europe – 20%, Middle East & Africa – 7%, and South America – 3%

GF Piping Systems (Switzerland), Aquatherm (US), IPEX USA LLC (US), BRUGG GROUP COMPANY (Switzerland), and ISCO INDUSTRIES (US) are the key players in the data center pipes market. These players have adopted various strategies, including agreements, joint ventures, and expansions, to increase their market share and business revenue.

Research Coverage:

The report defines, segments, and projects the size of the data center pipes market by pipe type, pipe material, data center type, application, and region. It strategically profiles the key players and comprehensively analyzes their market share and core competencies. It also tracks and analyzes competitive developments, such as expansions, agreements, and acquisitions undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help market leaders/new entrants by providing the closest approximations of revenue for the data center pipes market and its segments. This report is also expected to help stakeholders gain a deeper understanding of the market's competitive landscape, acquire valuable insights to enhance their business positions, and develop effective go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:

Analysis of critical drivers (Rising adoption of liquid cooling technologies,

Expansion of hyperscale and colocation data centers, Focus on energy efficiency and operational reliability), restraints (High initial infrastructure and installation costs, Complex integration with existing infrastructure, Material performance and durability concerns), opportunities (Growing adoption of modular and prefabricated data centers, Expansion of edge data center infrastructure, Development of sustainable and advanced pipe materials), and challenges (Maintaining leak prevention and system integrity, Managing diverse cooling system requirements) influencing the growth of the data center pipes market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the data center pipes market

Market Development: Comprehensive information about lucrative markets – the report analyzes the data center pipes market across varied regions

Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the data center pipes market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players such as GF Piping Systems (Switzerland), Aquatherm (US), IPEX USA LLC (US), BRUGG GROUP COMPANY (Switzerland), ISCO INDUSTRIES (US), and others are the key players in the data center pipes market.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED AND REGIONAL SCOPE
 - 1.3.2 INCLUSIONS AND EXCLUSIONS
 - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 UNIT CONSIDERED
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS

2 EXECUTIVE SUMMARY

- 2.1 KEY INSIGHTS AND MARKET HIGHLIGHTS
- 2.2 KEY MARKET PARTICIPANTS: SHARE INSIGHTS AND STRATEGIC DEVELOPMENTS
- 2.3 DISRUPTIVE TRENDS SHAPING THE MARKET
- 2.4 HIGH-GROWTH SEGMENTS & EMERGING FRONTIERS
- 2.5 REGIONAL SNAPSHOT: MARKET SIZE, GROWTH RATE, AND FORECAST

3 PREMIUM INSIGHTS

- 3.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN DATA CENTER PIPES MARKET
- 3.2 DATA CENTER PIPES MARKET, BY PIPE TYPE
- 3.3 DATA CENTER PIPES MARKET, BY PIPE MATERIAL
- 3.4 DATA CENTER PIPES MARKET, BY REGION
- 3.5 DATA CENTER PIPES MARKET, BY COUNTRY

4 MARKET OVERVIEW

- 4.1 INTRODUCTION
- 4.2 MARKET DYNAMICS
 - 4.2.1 DRIVERS
 - 4.2.1.1 Expansion of high-density computing like AI and hyperscale data centers

- 4.2.1.2 Rising shift toward data center liquid cooling architectures
- 4.2.1.3 Energy efficiency & sustainability regulations
- 4.2.2 RESTRAINTS
 - 4.2.2.1 High initial capital investment
 - 4.2.2.2 Leakage & reliability concerns
 - 4.2.2.3 Retrofitting & maintenance challenges
- 4.2.3 OPPORTUNITIES
 - 4.2.3.1 Integration with smart & digital technologies
 - 4.2.3.2 Development of advanced materials & smart piping systems
 - 4.2.3.3 Modular & prefabricated data center designs
- 4.2.4 CHALLENGES
 - 4.2.4.1 Thermal management complexity at high densities
 - 4.2.4.2 Lack of standardization
- 4.3 UNMET NEEDS AND WHITE SPACES
 - 4.3.1 UNMET NEEDS IN DATA CENTER PIPES MARKET
 - 4.3.2 WHITE SPACE OPPORTUNITIES
- 4.4 INTERCONNECTED MARKETS AND CROSS-SECTOR OPPORTUNITIES
 - 4.4.1 INTERCONNECTED MARKETS
 - 4.4.2 CROSS-SECTOR OPPORTUNITIES
- 4.5 EMERGING BUSINESS MODELS AND ECOSYSTEM SHIFTS
 - 4.5.1 EMERGING BUSINESS MODELS
 - 4.5.2 ECOSYSTEM SHIFTS
- 4.6 STRATEGIC MOVES BY TIER-1/2 PLAYERS
 - 4.6.1 KEY MOVES AND STRATEGIC FOCUS

5 INDUSTRY TRENDS

- 5.1 PORTER'S FIVE FORCES ANALYSIS
 - 5.1.1 THREAT OF NEW ENTRANTS
 - 5.1.2 THREAT OF SUBSTITUTES
 - 5.1.3 BARGAINING POWER OF SUPPLIERS
 - 5.1.4 BARGAINING POWER OF BUYERS
 - 5.1.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.2 MACROECONOMICS INDICATORS
 - 5.2.1 INTRODUCTION
 - 5.2.2 GDP TRENDS
 - 5.2.3 TRENDS IN DATA CENTER INDUSTRY
 - 5.2.4 TRENDS IN GLOBAL DATA CENTER COOLING INDUSTRY
 - 5.2.5 MANUFACTURING INDUSTRY

- 5.2.6 TRENDS IN GLOBAL HYPERSCALE AND AI DATA CENTER INDUSTRY
- 5.3 VALUE CHAIN ANALYSIS
- 5.4 ECOSYSTEM ANALYSIS
- 5.5 TRADE ANALYSIS
 - 5.5.1 IMPORT SCENARIO (HS CODE 3917)
 - 5.5.2 EXPORT SCENARIO (HS CODE 3917)
- 5.6 KEY CONFERENCES AND EVENTS, 2026–2027
- 5.7 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 5.8 INVESTMENT AND FUNDING SCENARIO
- 5.9 CASE STUDY ANALYSIS
 - 5.9.1 DATA CENTER PIPING SYSTEM FOR CHILLED WATER COOLING
 - 5.9.2 HIGH-RELIABILITY PIPING SYSTEM FOR NOVVA DATA CENTER
 - 5.9.3 OFF-SITE PREFABRICATION FOR HYPERSCALE DATA CENTER – DUBLIN

6 STRATEGIC DISRUPTION THROUGH TECHNOLOGY, PATENTS, DIGITAL, AND AI ADOPTIONS

- 6.1 KEY EMERGING TECHNOLOGIES
 - 6.1.1 ADVANCED PIPE MATERIALS ENGINEERING
 - 6.1.2 LIQUID COOLING PIPE SYSTEMS
- 6.2 ADJACENT TECHNOLOGIES
 - 6.2.1 PREFABRICATION & MODULAR PIPE MANUFACTURING
 - 6.2.2 HEAT PIPE TECHNOLOGY
- 6.3 COMPLEMENTARY TECHNOLOGIES
 - 6.3.1 SMART/SENSOR-INTEGRATED PIPES
 - 6.3.2 INSULATED & PRE-INSULATED PIPE SYSTEMS
- 6.4 TECHNOLOGY/PRODUCT ROADMAP
 - 6.4.1 SHORT-TERM (2026–2028) | FOUNDATION & EARLY COMMERCIALIZATION
 - 6.4.2 MID-TERM (2028–2032) | EXPANSION & STANDARDIZATION
 - 6.4.3 LONG-TERM (2032–2035+) | MASS COMMERCIALIZATION & DISRUPTION
- 6.5 FUTURE APPLICATIONS
 - 6.5.1 AI & HIGH-DENSITY COMPUTING COOLING SYSTEMS: NEXT-GENERATION COOLING INFRASTRUCTURE
 - 6.5.2 TWO-PHASE & IMMERSION COOLING INFRASTRUCTURE: CLOSED-LOOP THERMAL CYCLES
 - 6.5.3 SMART & AUTONOMOUS DATA CENTER OPERATIONS: INTEGRATION OF IOT-ENABLED SMART PIPES
 - 6.5.4 SUSTAINABLE & WATER-EFFICIENT COOLING SYSTEMS: CARBON-NEUTRAL DATA CENTER INITIATIVES

6.5.5 MODULAR & PREFABRICATED DATA CENTER DESIGNS: REDUCING CONSTRUCTION TIME

6.6 IMPACT OF AI/GEN AI ON DATA CENTER PIPES MARKET

6.6.1 TOP USE CASES AND MARKET POTENTIAL

6.6.2 BEST PRACTICES IN ADOPTION OF DATA CENTER PIPES

6.6.3 CASE STUDIES OF AI IMPLEMENTATION IN DATA CENTER PIPES MARKET

6.6.4 INTERCONNECTED ADJACENT ECOSYSTEM AND IMPACT ON MARKET PLAYERS

6.6.5 CLIENTS' READINESS TO ADOPT GENERATIVE AI IN DATA CENTER PIPES MARKET

6.7 SUCCESS STORIES AND REAL-WORLD APPLICATIONS

6.7.1 SCHNEIDER ELECTRIC: THE LIQUID COOLING REVOLUTION

6.7.2 T5 DATA CENTERS: DELIVERING A LIQUID COOLING SOLUTION

6.7.3 UV NETWARE: AI-DRIVEN DEMAND & SUSTAINABLE COOLING

7 SUSTAINABILITY AND REGULATORY LANDSCAPE

7.1 REGIONAL REGULATIONS AND COMPLIANCE

7.1.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

7.1.2 INDUSTRY STANDARDS

7.2 SUSTAINABILITY INITIATIVES

7.2.1 CARBON IMPACT AND ECO-APPLICATIONS OF DATA CENTER PIPES

7.2.1.1 Carbon impact reduction

7.2.1.2 Eco-applications

7.3 SUSTAINABILITY IMPACT AND REGULATORY POLICY INITIATIVES

7.4 CERTIFICATIONS, LABELING, AND ECO-STANDARDS

8 CUSTOMER LANDSCAPE & BUYER BEHAVIOR

8.1 DECISION-MAKING PROCESS

8.2 KEY STAKEHOLDERS AND BUYING CRITERIA

8.2.1 KEY STAKEHOLDERS IN BUYING PROCESS

8.2.2 BUYING CRITERIA

8.3 ADOPTION BARRIERS & INTERNAL CHALLENGES

8.4 UNMET NEEDS IN VARIOUS END-USE INDUSTRIES

8.5 MARKET PROFITABILITY

8.5.1 REVENUE POTENTIAL

8.5.2 COST DYNAMICS

8.5.3 MARGIN OPPORTUNITIES, BY END-USE INDUSTRY

9 DATA CENTER PIPES MARKET, BY PIPE TYPE

9.1 INTRODUCTION

9.2 PRE-INSULATED PIPES

9.2.1 RISING NEED FOR EFFICIENT THERMAL INSULATION AND ENERGY-EFFICIENT COOLING DISTRIBUTION TO INCREASE DEMAND

9.3 FLEXIBLE PIPES

9.3.1 RAPID ADOPTION OF LIQUID COOLING IN HIGH-PERFORMANCE COMPUTING AND AI-DRIVEN DATA CENTERS TO DRIVE DEMAND

9.4 DOUBLE-CONTAINMENT SYSTEMS

9.4.1 NEED TO PREVENT COOLANT LEAKAGE IN HIGH-DENSITY LIQUID-COOLED FACILITIES TO INCREASE ADOPTION

9.5 RIGID PIPES

9.5.1 EXPANSION OF HYPERSCALE FACILITIES AND NEW DATA CENTER CAMPUSES TO PROPEL MARKET

10 DATA CENTER PIPES MARKET, BY PIPE MATERIAL

10.1 INTRODUCTION

10.2 CARBON STEEL PIPES

10.2.1 EXPANSION OF HYPERSCALE DATA CENTERS AND LARGE-SCALE AI COMPUTING FACILITIES TO DRIVE MARKET

10.3 STAINLESS STEEL PIPES

10.3.1 ADOPTION OF LIQUID COOLING TECHNOLOGIES DRIVEN BY AI, MACHINE LEARNING WORKLOADS, AND HIGH-DENSITY COMPUTING CLUSTERS TO DRIVE MARKET

10.4 COPPER PIPES

10.4.1 RISING DEPLOYMENT OF PRECISION COOLING SYSTEMS AND EXPANSION OF EDGE DATA CENTERS TO INCREASE DEMAND

10.5 PLASTIC & COMPOSITE PIPES

10.5.1 GROWTH OF MODULAR DATA CENTER CONSTRUCTION AND NEED FOR CORROSION-RESISTANT INFRASTRUCTURE TO DRIVE MARKET

10.6 OTHER MATERIALS

10.6.1 ADOPTION OF FLEXIBLE AND LIGHTWEIGHT PIPING SOLUTIONS IN ADVANCED DATA CENTER COOLING SYSTEMS TO BOOST DEMAND

11 DATA CENTER PIPES MARKET, BY APPLICATION

11.1 INTRODUCTION

11.2 COOLING SYSTEMS

11.2.1 RISING ADOPTION OF LIQUID COOLING AND HIGH-DENSITY COMPUTING INFRASTRUCTURE TO BOOST MARKET

11.3 FIRE SUPPRESSION

11.3.1 CONSTRUCTION OF LARGE-SCALE DATA CENTERS AND STRINGENT SAFETY REGULATIONS TO INCREASE DEMAND

11.4 FUEL SUPPLY

11.4.1 NEED FOR RELIABLE BACKUP POWER INFRASTRUCTURE IN DATA CENTERS TO DRIVE MARKET

11.5 DRAINAGE & WASTE

11.5.1 EXPANSION OF WATER-BASED COOLING SYSTEMS AND FACILITY MANAGEMENT REQUIREMENTS TO BOOST MARKET GROWTH

11.6 OTHER APPLICATIONS

11.6.1 INCREASING FOCUS ON ENVIRONMENTAL CONTROL AND WATER EFFICIENCY IN DATA CENTERS TO INCREASE DEMAND

12 DATA CENTER PIPES MARKET, BY DATA CENTER TYPE

12.1 INTRODUCTION

12.2 HYPERSCALE DATA CENTERS

12.2.1 EXPANSION OF LARGE-SCALE CLOUD AND AI INFRASTRUCTURE REQUIRING EXTENSIVE COOLING NETWORKS TO BOOST MARKET

12.3 COLOCATION DATA CENTERS

12.3.1 RISING DEMAND FOR SCALABLE MULTI-TENANT DATA CENTER FACILITIES TO INCREASE DEMAND

12.4 ENTERPRISE DATA CENTERS

12.4.1 MODERNIZATION OF IN-HOUSE IT INFRASTRUCTURE AND COOLING SYSTEM UPGRADES TO DRIVE MARKET

13 DATA CENTER PIPES MARKET, BY REGION

13.1 INTRODUCTION

13.2 NORTH AMERICA

13.2.1 US

13.2.1.1 AI-driven hyperscale data center expansion and increasing adoption of liquid cooling technologies to drive market

13.2.2 CANADA

13.2.2.1 Renewable-powered hyperscale projects and energy-efficient cooling infrastructure to increase demand

13.2.3 MEXICO

13.2.3.1 Rapid cloud expansion, hyperscale investments, and nearshoring-driven data center development to propel market

13.3 EUROPE

13.3.1 GERMANY

13.3.1.1 Large technology investments and expansion of high-density data centers to boost market growth

13.3.2 UK

13.3.2.1 Government initiatives on large-scale AI infrastructure deployment and hyperscale cloud capacity to support market

13.3.3 FRANCE

13.3.3.1 Expansion of AI-ready hyperscale data centers to fuel market growth

13.3.4 ITALY

13.3.4.1 Rapid growth of AI and hyperscale data centers supported by government initiatives to drive demand

13.3.5 RUSSIA

13.3.5.1 Increase in demand for advanced cooling systems to fuel market

13.3.6 NETHERLANDS

13.3.6.1 Expansion of high-capacity and AI-ready data center campuses increasing deployment of advanced cooling infrastructure

13.3.7 SPAIN

13.3.7.1 Hyperscale cloud and AI infrastructure investments to drive demand for advanced cooling and piping systems

13.3.8 REST OF EUROPE

13.4 ASIA PACIFIC

13.4.1 CHINA

13.4.1.1 Large-scale AI and hyperscale cloud data center expansion to drive market

13.4.2 JAPAN

13.4.2.1 Rapid growth of AI computing campuses, high-density GPU clusters, and liquid cooling adoption to boost market growth

13.4.3 INDIA

13.4.3.1 High hyperscale AI and cloud investments supported by government initiatives to fuel market

13.4.4 SOUTH KOREA

13.4.4.1 Expansion of AI-ready hyperscale facilities and government policies promoting energy-efficient cooling systems to boost market

13.4.5 THAILAND

13.4.5.1 Large-scale hyperscale data center investments supported by government policies to drive market

13.4.6 INDONESIA

13.4.6.1 Digital surge and supportive policies accelerating data center pipe demand

13.4.7 AUSTRALIA

13.4.7.1 Large hyperscale AI campuses and government-backed digital infrastructure projects to boost market growth

13.4.8 REST OF ASIA PACIFIC

13.5 MIDDLE EAST & AFRICA

13.5.1 GCC COUNTRIES

13.5.1.1 Saudi Arabia

13.5.1.1.1 Technology collaborations and investments, along with hyperscale AI data centers, to drive demand

13.5.1.2 UAE

13.5.1.2.1 Expansion of hyperscale facilities and cloud partnerships to increase demand for high-performance pipe networks

13.5.1.3 Rest of GCC Countries

13.5.2 SOUTH AFRICA

13.5.2.1 Rapid expansion of hyperscale and AI-ready facilities in major cities to create high demand for piping systems

13.5.3 REST OF MIDDLE EAST & AFRICA

13.6 SOUTH AMERICA

13.6.1 BRAZIL

13.6.1.1 Rise in adoption of cloud computing, artificial intelligence workloads, and high-performance computing to increase demand

13.6.2 ARGENTINA

13.6.2.1 Investments in digital infrastructure, hyperscale facilities, and colocation data centers to increase demand

13.6.3 REST OF SOUTH AMERICA

14 COMPETITIVE LANDSCAPE

14.1 INTRODUCTION

14.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

14.3 REVENUE ANALYSIS

14.3.1 TOP 4 PLAYERS' REVENUE ANALYSIS

14.4 MARKET SHARE ANALYSIS

14.5 BRAND/PRODUCT COMPARISON

14.5.1 COOL-FIT 2.0

- 14.5.2 AQUATHERM BLUE
- 14.5.3 GUARDIAN
- 14.5.4 DATA MASTER MEGAFLEX
- 14.5.5 MICROFLEX
- 14.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024
 - 14.6.1 STARS
 - 14.6.2 EMERGING LEADERS
 - 14.6.3 PERVASIVE PLAYERS
 - 14.6.4 PARTICIPANTS
 - 14.6.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024
 - 14.6.5.1 Company footprint
 - 14.6.5.2 Region footprint
 - 14.6.5.3 Pipe material footprint
 - 14.6.5.4 Data center type footprint
 - 14.6.5.5 Application footprint
- 14.7 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024
 - 14.7.1 PROGRESSIVE COMPANIES
 - 14.7.2 RESPONSIVE COMPANIES
 - 14.7.3 DYNAMIC COMPANIES
 - 14.7.4 STARTING BLOCKS
 - 14.7.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024
 - 14.7.5.1 Detailed list of key startups/SMEs
 - 14.7.5.2 Competitive benchmarking of key startups/SMEs
- 14.8 COMPETITIVE SCENARIO
 - 14.8.1 PRODUCT LAUNCHES
 - 14.8.2 DEALS
 - 14.8.3 EXPANSIONS
- 14.9 COMPANY VALUATION AND FINANCIAL METRICS

15 COMPANY PROFILES

- 15.1 KEY PLAYERS
 - 15.1.1 GF PIPING SYSTEMS
 - 15.1.1.1 Business overview
 - 15.1.1.2 Products/Solutions/Services offered
 - 15.1.1.3 Recent developments
 - 15.1.1.3.1 Deals
 - 15.1.1.4 MnM view
 - 15.1.1.4.1 Right to win

- 15.1.1.4.2 Strategic choices
- 15.1.1.4.3 Weaknesses and competitive threats
- 15.1.2 PARKER-HANNIFIN CORPORATION
 - 15.1.2.1 Business overview
 - 15.1.2.2 Products/Solutions/Services offered
 - 15.1.2.3 MnM view
 - 15.1.2.3.1 Right to win
 - 15.1.2.3.2 Strategic choices
 - 15.1.2.3.3 Weaknesses and competitive threats
- 15.1.3 GATES INDUSTRIAL CORPORATION PLC
 - 15.1.3.1 Business overview
 - 15.1.3.2 Products/Solutions/Services offered
 - 15.1.3.3 Recent developments
 - 15.1.3.3.1 Product launches
 - 15.1.3.3.2 Deals
 - 15.1.3.4 MnM view
 - 15.1.3.4.1 Right to win
 - 15.1.3.4.2 Strategic choices
 - 15.1.3.4.3 Weaknesses and competitive threats
- 15.1.4 WATTS
 - 15.1.4.1 Business overview
 - 15.1.4.2 Products/Solutions/Services offered
 - 15.1.4.3 MnM view
 - 15.1.4.3.1 Right to win
 - 15.1.4.3.2 Strategic choices
 - 15.1.4.3.3 Weaknesses and competitive threats
- 15.1.5 IPEX USA LLC
 - 15.1.5.1 Business overview
 - 15.1.5.2 Products/Solutions/Services offered
 - 15.1.5.3 Recent developments
 - 15.1.5.3.1 Deals
 - 15.1.5.4 MnM view
 - 15.1.5.4.1 Right to win
 - 15.1.5.4.2 Strategic choices
 - 15.1.5.4.3 Weaknesses and competitive threats
- 15.1.6 AQUATHERM GMBH
 - 15.1.6.1 Business overview
 - 15.1.6.2 Products/Solutions/Services offered
 - 15.1.6.3 Recent developments

- 15.1.6.3.1 Deals
- 15.1.7 FUTURE PIPE INDUSTRIES
 - 15.1.7.1 Business overview
 - 15.1.7.2 Products/Solutions/Services offered
- 15.1.8 STEEL & O'BRIEN
 - 15.1.8.1 Business overview
 - 15.1.8.2 Products/Solutions/Services offered
- 15.1.9 BRUGG GROUP COMPANY
 - 15.1.9.1 Business overview
 - 15.1.9.2 Products/Solutions/Services offered
- 15.1.10 POLYMELT PIPE SYSTEMS GMBH
 - 15.1.10.1 Business overview
 - 15.1.10.2 Products/Solutions/Services offered
- 15.1.11 AGRU KUNSTSTOFFTECHNIK GMBH
 - 15.1.11.1 Business overview
 - 15.1.11.2 Products/Solutions/Services offered
- 15.1.12 ALFA GOMMA SPA
 - 15.1.12.1 Business overview
 - 15.1.12.2 Products/Solutions/Services offered
- 15.1.13 ZEKELMAN INDUSTRIES
 - 15.1.13.1 Business overview
 - 15.1.13.2 Products/Solutions/Services offered
 - 15.1.13.3 Recent developments
 - 15.1.13.3.1 Deals
- 15.1.14 PENFLEX
 - 15.1.14.1 Business overview
 - 15.1.14.2 Products/Solutions/Services offered
- 15.1.15 ISCO INDUSTRIES
 - 15.1.15.1 Business overview
 - 15.1.15.2 Products/Solutions/Services offered
- 15.1.16 LUOHE LETONE HYDRAULIC TECHNOLOGY CO., LTD.
 - 15.1.16.1 Business overview
 - 15.1.16.2 Products/Solutions/Services offered
- 15.1.17 KPS
 - 15.1.17.1 Business overview
 - 15.1.17.2 Products/Solutions/Services offered
- 15.1.18 AEROFLEX INDUSTRIES LIMITED
 - 15.1.18.1 Business overview
 - 15.1.18.2 Products/Solutions/Services offered

15.1.18.3 Recent developments

15.1.18.3.1 Expansions

15.1.19 CONTINENTAL AG

15.1.19.1 Business overview

15.1.19.2 Products/Solutions/Services offered

15.2 OTHER PLAYERS

15.2.1 HEAT PIPE TECHNOLOGY INC.

15.2.2 ZHONGTONG PIPE CO. LTD

15.2.3 TUDERTECHNICA

15.2.4 CENFLEX, INC.

16 RESEARCH METHODOLOGY

16.1 RESEARCH DATA

16.1.1 SECONDARY DATA

16.1.1.1 List of key secondary sources

16.1.1.2 Key data from secondary sources

16.1.2 PRIMARY DATA

16.1.2.1 Key data from primary sources

16.1.2.2 Key industry insights

16.1.2.3 List of primary participants

16.1.2.4 Breakdown of primary interviews

16.2 MARKET SIZE ESTIMATION

16.2.1 BOTTOM-UP APPROACH

16.2.2 TOP-DOWN APPROACH

16.3 DEMAND-SIDE ANALYSIS

16.4 SUPPLY-SIDE ANALYSIS

16.4.1 CALCULATIONS FOR SUPPLY-SIDE ANALYSIS

16.5 GROWTH FORECAST

16.6 DATA TRIANGULATION

16.7 RESEARCH ASSUMPTIONS

16.8 RESEARCH LIMITATIONS

16.9 RISK ASSESSMENT

16.10 FACTOR ANALYSIS

17 APPENDIX

17.1 DISCUSSION GUIDE

17.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

17.3 CUSTOMIZATION OPTIONS

17.4 RELATED REPORTS

17.5 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 DATA CENTER PIPES MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 2 GDP PERCENTAGE CHANGE, BY KEY COUNTRIES, 2022–2025 (%)

TABLE 3 DATA CENTER PIPES MARKET: ROLES OF COMPANIES IN ECOSYSTEM

TABLE 4 IMPORT DATA FOR HS CODE 3917-COMPLIANT PRODUCTS, 2021–2025
(USD THOUSAND)

TABLE 5 EXPORT DATA FOR HS CODE 3917-COMPLIANT PRODUCTS, 2021–2025
(USD MILLION)

TABLE 6 DATA CENTER PIPES MARKET: LIST OF KEY CONFERENCES AND
EVENTS, 2026–2027

TABLE 7 TOP USE CASES AND MARKET POTENTIAL

TABLE 8 BEST PRACTICES: COMPANIES IMPLEMENTING USE CASES

TABLE 9 DATA CENTER PIPES MARKET: CASE STUDIES RELATED TO GEN AI
IMPLEMENTATION

TABLE 10 INTERCONNECTED ADJACENT ECOSYSTEM AND IMPACT ON MARKET
PLAYERS

TABLE 11 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES,
AND OTHER ORGANIZATIONS

TABLE 12 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND
OTHER ORGANIZATIONS

TABLE 13 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND
OTHER ORGANIZATIONS

TABLE 14 ROW: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER
ORGANIZATIONS

TABLE 15 GLOBAL STANDARDS IN DATA CENTER PIPES MARKET

TABLE 16 CERTIFICATIONS, LABELING, AND ECO-STANDARDS IN DATA CENTER
PIPES MARKET

TABLE 17 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY END-USE
INDUSTRY (%)

TABLE 18 KEY BUYING CRITERIA, BY END-USE INDUSTRY

TABLE 19 DATA CENTER PIPES MARKET: UNMET NEEDS IN KEY END-USE
INDUSTRIES

TABLE 20 DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD
MILLION)

TABLE 21 DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD
MILLION)

TABLE 22 PRE-INSULATED PIPES: DATA CENTER PIPES MARKET, BY REGION,

2022–2024 (USD MILLION)

TABLE 23 PRE-INSULATED PIPES: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 24 FLEXIBLE PIPES: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 25 FLEXIBLE PIPES: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 26 DOUBLE-CONTAINMENT SYSTEMS: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 27 DOUBLE-CONTAINMENT SYSTEMS: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 28 RIGID PIPES: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 29 RIGID PIPES: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 30 DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2022–2024 (USD MILLION)

TABLE 31 DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2025–2032 (USD MILLION)

TABLE 32 CARBON STEEL PIPES: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 33 CARBON STEEL PIPES: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 34 STAINLESS STEEL PIPES: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 35 STAINLESS STEEL PIPES: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 36 COPPER PIPES: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 37 COPPER PIPES: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 38 PLASTIC & COMPOSITE PIPES: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 39 PLASTIC & COMPOSITE PIPES: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 40 OTHER MATERIALS: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 41 OTHER MATERIALS: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 42 DATA CENTER PIPES MARKET, BY APPLICATION, 2022–2024 (USD MILLION)

TABLE 43 DATA CENTER PIPES MARKET, BY APPLICATION, 2025–2032 (USD MILLION)

TABLE 44 COOLING SYSTEMS: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 45 COOLING SYSTEMS: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 46 FIRE SUPPRESSION: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 47 FIRE SUPPRESSION: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 48 FUEL SUPPLY: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 49 FUEL SUPPLY: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 50 DRAINAGE & WASTE: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 51 DRAINAGE & WASTE: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 52 OTHER APPLICATIONS: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 53 OTHER APPLICATIONS: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 54 DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2022–2024 (USD MILLION)

TABLE 55 DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2025–2032 (USD MILLION)

TABLE 56 HYPERSCALE DATA CENTERS: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 57 HYPERSCALE DATA CENTERS: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 58 COLOCATION DATA CENTERS: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 59 COLOCATION DATA CENTERS: DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 60 ENTERPRISE DATA CENTERS: DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 61 ENTERPRISE DATA CENTERS: DATA CENTER PIPES MARKET, BY

REGION, 2025–2032 (USD MILLION)

TABLE 62 DATA CENTER PIPES MARKET, BY REGION, 2022–2024 (USD MILLION)

TABLE 63 DATA CENTER PIPES MARKET, BY REGION, 2025–2032 (USD MILLION)

TABLE 64 NORTH AMERICA: DATA CENTER PIPES MARKET, BY COUNTRY, 2022–2024 (USD MILLION)

TABLE 65 NORTH AMERICA: DATA CENTER PIPES MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 66 NORTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 67 NORTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 68 NORTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2022–2024 (USD MILLION)

TABLE 69 NORTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2025–2032 (USD MILLION)

TABLE 70 NORTH AMERICA: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2022–2024 (USD MILLION)

TABLE 71 NORTH AMERICA: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2025–2032 (USD MILLION)

TABLE 72 NORTH AMERICA: DATA CENTER PIPES MARKET, BY APPLICATION, 2022–2024 (USD MILLION)

TABLE 73 NORTH AMERICA: DATA CENTER PIPES MARKET, BY APPLICATION, 2025–2032 (USD MILLION)

TABLE 74 US: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 75 US: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 76 CANADA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 77 CANADA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 78 MEXICO: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 79 MEXICO: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 80 EUROPE: DATA CENTER PIPES MARKET, BY COUNTRY, 2022–2024 (USD MILLION)

TABLE 81 EUROPE: DATA CENTER PIPES MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 82 EUROPE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 83 EUROPE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 84 EUROPE: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2022–2024 (USD MILLION)

TABLE 85 EUROPE: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2025–2032 (USD MILLION)

TABLE 86 EUROPE: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2022–2024 (USD MILLION)

TABLE 87 EUROPE: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2025–2032 (USD MILLION)

TABLE 88 EUROPE: DATA CENTER PIPES MARKET, BY APPLICATION, 2022–2024 (USD MILLION)

TABLE 89 EUROPE: DATA CENTER PIPES MARKET, BY APPLICATION, 2025–2032 (USD MILLION)

TABLE 90 GERMANY: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 91 GERMANY: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 92 UK: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 93 UK: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 94 FRANCE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 95 FRANCE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 96 ITALY: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 97 ITALY: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 98 RUSSIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 99 RUSSIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 100 NETHERLANDS: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 101 NETHERLANDS: DATA CENTER PIPES MARKET, BY PIPE TYPE,

2025–2032 (USD MILLION)

TABLE 102 SPAIN: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 103 SPAIN: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 104 REST OF EUROPE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 105 REST OF EUROPE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 106 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY COUNTRY, 2022–2024 (USD MILLION)

TABLE 107 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 108 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 109 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 110 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2022–2024 (USD MILLION)

TABLE 111 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2025–2032 (USD MILLION)

TABLE 112 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2022–2024 (USD MILLION)

TABLE 113 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2025–2032 (USD MILLION)

TABLE 114 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY APPLICATION, 2022–2024 (USD MILLION)

TABLE 115 ASIA PACIFIC: DATA CENTER PIPES MARKET, BY APPLICATION, 2025–2032 (USD MILLION)

TABLE 116 CHINA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 117 CHINA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 118 JAPAN: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 119 JAPAN: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 120 INDIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 121 INDIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 122 SOUTH KOREA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 123 SOUTH KOREA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 124 THAILAND: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 125 THAILAND: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 126 INDONESIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 127 INDONESIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 128 AUSTRALIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 129 AUSTRALIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 130 REST OF ASIA PACIFIC: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 131 REST OF ASIA PACIFIC: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 132 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY COUNTRY, 2022–2024 (USD MILLION)

TABLE 133 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 134 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 135 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 136 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2022–2024 (USD MILLION)

TABLE 137 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2025–2032 (USD MILLION)

TABLE 138 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2022–2024 (USD MILLION)

TABLE 139 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2025–2032 (USD MILLION)

TABLE 140 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY

APPLICATION, 2022–2024 (USD MILLION)

TABLE 141 MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY APPLICATION, 2025–2032 (USD MILLION)

TABLE 142 SAUDI ARABIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 143 SAUDI ARABIA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 144 UAE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 145 UAE: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 146 REST OF GCC COUNTRIES: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 147 REST OF GCC COUNTRIES: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 148 SOUTH AFRICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 149 SOUTH AFRICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 150 REST OF MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 151 REST OF MIDDLE EAST & AFRICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 152 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY COUNTRY, 2022–2024 (USD MILLION)

TABLE 153 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY COUNTRY, 2025–2032 (USD MILLION)

TABLE 154 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 155 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 156 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2022–2024 (USD MILLION)

TABLE 157 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE MATERIAL, 2025–2032 (USD MILLION)

TABLE 158 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2022–2024 (USD MILLION)

TABLE 159 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY DATA CENTER TYPE, 2025–2032 (USD MILLION)

TABLE 160 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY APPLICATION, 2022–2024 (USD MILLION)

TABLE 161 SOUTH AMERICA: DATA CENTER PIPES MARKET, BY APPLICATION, 2025–2032 (USD MILLION)

TABLE 162 BRAZIL: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 163 BRAZIL: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 164 ARGENTINA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 165 ARGENTINA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 166 REST OF SOUTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2022–2024 (USD MILLION)

TABLE 167 REST OF SOUTH AMERICA: DATA CENTER PIPES MARKET, BY PIPE TYPE, 2025–2032 (USD MILLION)

TABLE 168 DATA CENTER PIPES MARKET: OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS, (2020–2025)

TABLE 169 DATA CENTER PIPES MARKET: DEGREE OF COMPETITION, 2023

TABLE 170 DATA CENTER PIPES MARKET: REGION FOOTPRINT (19 COMPANIES)

TABLE 171 DATA CENTER PIPES MARKET: PIPE MATERIAL FOOTPRINT (19 COMPANIES)

TABLE 172 DATA CENTER PIPES MARKET: DATA CENTER TYPE FOOTPRINT (19 COMPANIES)

TABLE 173 DATA CENTER PIPES MARKET: APPLICATION FOOTPRINT (19 COMPANIES)

TABLE 174 DATA CENTER PIPES MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 175 DATA CENTER PIPES MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

TABLE 176 DATA CENTER PIPES MARKET: PRODUCT LAUNCHES, JANUARY 2020–DECEMBER 2025

TABLE 177 DATA CENTER PIPES MARKET: DEALS, JANUARY 2020–DECEMBER 2025

TABLE 178 DATA CENTER PIPES MARKET: EXPANSIONS, JANUARY 2020–DECEMBER 2025

TABLE 179 GF PIPING SYSTEMS: COMPANY OVERVIEW

TABLE 180 GF PIPING SYSTEMS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 181 GF PIPING SYSTEMS: DEALS, JANUARY 2020?DECEMBER 2025

TABLE 182 PARKER-HANNIFIN CORPORATION: COMPANY OVERVIEW

TABLE 183 PARKER-HANNIFIN CORPORATION:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 184 GATES INDUSTRIAL CORPORATION PLC: COMPANY OVERVIEW

TABLE 185 GATES INDUSTRIAL CORPORATION PLC:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 186 GATES INDUSTRIAL CORPORATION PLC: PRODUCT LAUNCHES,
JANUARY 2020?DECEMBER 2025

TABLE 187 GATES INDUSTRIAL CORPORATION PLC: DEALS, JANUARY
2020?DECEMBER 2025

TABLE 188 WATTS: COMPANY OVERVIEW

TABLE 189 WATTS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 190 IPEX USA LLC: COMPANY OVERVIEW

TABLE 191 IPEX USA LLC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 192 IPEX USA LLC: DEALS, JANUARY 2020?DECEMBER 2025

TABLE 193 AQUATHERM GMBH: COMPANY OVERVIEW

TABLE 194 AQUATHERM GMBH: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 195 AQUATHERM GMBH: DEALS, JANUARY 2020?DECEMBER 2025

TABLE 196 FUTURE PIPE INDUSTRIES: COMPANY OVERVIEW

TABLE 197 FUTURE PIPE INDUSTRIES: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 198 STEEL & O'BRIEN: COMPANY OVERVIEW

TABLE 199 STEEL & O'BRIEN: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 200 BRUGG GROUP COMPANY: COMPANY OVERVIEW

TABLE 201 BRUGG GROUP COMPANY: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 202 POLYMELT PIPE SYSTEMS GMBH: COMPANY OVERVIEW

TABLE 203 POLYMELT PIPE SYSTEMS GMBH:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 204 AGRU KUNSTSTOFFTECHNIK GMBH: COMPANY OVERVIEW

TABLE 205 AGRU KUNSTSTOFFTECHNIK GMBH:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 206 ALFA GOMMA SPA: COMPANY OVERVIEW

TABLE 207 ALFA GOMMA SPA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 208 ZEKELMAN INDUSTRIES: COMPANY OVERVIEW

TABLE 209 ZEKELMAN INDUSTRIES: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 210 ZEKELMAN INDUSTRIES: DEALS, JANUARY 2020?DECEMBER 2025

TABLE 211 PENFLEX: COMPANY OVERVIEW

TABLE 212 PENFLEX: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 213 ISCO INDUSTRIES: COMPANY OVERVIEW

TABLE 214 ISCO INDUSTRIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 215 LUOHE LETONE HYDRAULIC TECHNOLOGY CO., LTD.: COMPANY OVERVIEW

TABLE 216 LUOHE LETONE HYDRAULIC TECHNOLOGY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 217 KPS: COMPANY OVERVIEW

TABLE 218 KPS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 219 AEROFLEX INDUSTRIES LIMITED: COMPANY OVERVIEW

TABLE 220 AEROFLEX INDUSTRIES LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 221 AEROFLEX INDUSTRIES LIMITED: EXPANSIONS, JANUARY 2020?DECEMBER 2025

TABLE 222 CONTINENTAL AG: COMPANY OVERVIEW

TABLE 223 CONTINENTAL AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 224 HEAT PIPE TECHNOLOGY INC.: COMPANY OVERVIEW

TABLE 225 ZHONGTONG PIPE CO. LTD: COMPANY OVERVIEW

TABLE 226 TUDERTECHNICA: COMPANY OVERVIEW

TABLE 227 CENFLEX, INC.: COMPANY OVERVIEW

List Of Figures

LIST OF FIGURES

FIGURE 1 KEY INSIGHTS AND MARKET HIGHLIGHTS

FIGURE 2 GLOBAL DATA CENTER PIPES MARKET, 2025–2032

FIGURE 3 MAJOR STRATEGIES ADOPTED BY KEY PLAYERS IN DATA CENTER PIPES MARKET (2020–2025)

FIGURE 4 DISRUPTIVE TRENDS IMPACTING GROWTH OF DATA CENTER PIPES MARKET

FIGURE 5 HIGH-GROWTH SEGMENTS IN DATA CENTER PIPES MARKET

FIGURE 6 NORTH AMERICA TO EXHIBIT FASTEST GROWTH DURING FORECAST PERIOD

FIGURE 7 RAPID ADOPTION OF AI, ML, AND BLOCKCHAIN TECHNOLOGIES TO CREATE LUCRATIVE OPPORTUNITIES FOR MARKET PLAYERS

FIGURE 8 PRE-INSULATED PIPES TO BE LARGEST SEGMENT DURING FORECAST PERIOD

FIGURE 9 PLASTIC & COMPOSITE PIPES TO SECURE LEADING POSITION DURING FORECAST PERIOD

FIGURE 10 NORTH AMERICA TO DOMINATE GLOBAL DATA CENTER PIPES MARKET

FIGURE 11 US TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD

FIGURE 12 DATA CENTER PIPES MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 13 GROWTH OF GLOBAL HYPERSCALE DATA CENTERS MARKET

FIGURE 14 DIRECT-TO-CHIP COOLING VS. IMMERSION LIQUID COOLING DEMAND

FIGURE 15 DATA CENTER PIPES MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 16 DATA CENTER PIPES MARKET: VALUE CHAIN ANALYSIS

FIGURE 17 DATA CENTER PIPES MARKET: ECOSYSTEM ANALYSIS

FIGURE 18 IMPORT SCENARIO FOR HS CODE 3917-COMPLIANT PRODUCTS, BY KEY COUNTRIES, 2021–2025

FIGURE 19 EXPORT SCENARIO FOR HS CODE 3917-COMPLIANT PRODUCTS, BY KEY COUNTRIES, 2021–2025

FIGURE 20 TRENDS/DISRUPTIONS INFLUENCING CUSTOMER BUSINESS

FIGURE 21 DATA CENTER PIPES MARKET: INVESTMENT AND FUNDING SCENARIO, 2020–2025

FIGURE 22 FUTURE APPLICATIONS OF DATA CENTER PIPES

FIGURE 23 DATA CENTER PIPES MARKET: DECISION-MAKING FACTORS

FIGURE 24 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY END-USE

INDUSTRY

FIGURE 25 KEY BUYING CRITERIA, BY END-USE INDUSTRY

FIGURE 26 ADOPTION BARRIERS & INTERNAL CHALLENGES

FIGURE 27 PRE-INSULATED PIPES TO BE FASTEST-GROWING SEGMENT
DURING FORECAST PERIODFIGURE 28 PLASTIC & COMPOSITE PIPES TO BE FASTEST-GROWING SEGMENT
DURING FORECAST PERIODFIGURE 29 COOLING SYSTEMS SEGMENT TO BE FASTEST-GROWING
APPLICATION DURING FORECAST PERIODFIGURE 30 HYPERSCALE DATA CENTERS TO BE FASTEST-GROWING SEGMENT
DURING FORECAST PERIODFIGURE 31 NORTH AMERICA TO LEAD DATA CENTER PIPES MARKET THROUGH
2032

FIGURE 32 NORTH AMERICA: DATA CENTER PIPES MARKET SNAPSHOT

FIGURE 33 EUROPE: DATA CENTER PIPES MARKET SNAPSHOT

FIGURE 34 ASIA PACIFIC: DATA CENTER PIPES MARKET SNAPSHOT

FIGURE 35 DATA CENTER PIPES MARKET: REVENUE ANALYSIS OF KEY
COMPANIES, 2020–2024

FIGURE 36 DATA CENTER PIPES MARKET SHARE ANALYSIS, 2024

FIGURE 37 BRAND/PRODUCT COMPARISON

FIGURE 38 DATA CENTER PIPES MARKET: COMPANY EVALUATION MATRIX
(KEY PLAYERS), 2024FIGURE 39 DATA CENTER PIPES MARKET: COMPANY FOOTPRINT (19
COMPANIES)FIGURE 40 DATA CENTER PIPES MARKET: COMPANY EVALUATION MATRIX
(STARTUPS/SMES), 2024

FIGURE 41 DATA CENTER PIPES MARKET: EV/EBITDA

FIGURE 42 DATA CENTER PIPES MARKET: ENTERPRISE VALUE

FIGURE 43 DATA CENTER PIPES MARKET: YEAR-TO-DATE (YTD) PRICE, TOTAL
RETURN, AND FIVE-YEAR STOCK BETA OF KEY MANUFACTURERS

FIGURE 44 GF PIPING SYSTEMS: COMPANY SNAPSHOT

FIGURE 45 PARKER-HANNIFIN CORPORATION: COMPANY SNAPSHOT

FIGURE 46 GATES INDUSTRIAL CORPORATION PLC: COMPANY SNAPSHOT

FIGURE 47 WATTS: COMPANY SNAPSHOT

FIGURE 48 AEROFLEX INDUSTRIES LIMITED: COMPANY SNAPSHOT

FIGURE 49 CONTINENTAL AG: COMPANY SNAPSHOT

FIGURE 50 DATA CENTER PIPES MARKET: RESEARCH DESIGN

FIGURE 51 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP
APPROACH

FIGURE 52 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 53 MAIN MATRIX CONSIDERED TO ASSESS DEMAND FOR DATA
CENTER PIPES

FIGURE 54 STEPS CONSIDERED TO ANALYZE SUPPLY OF DATA CENTER PIPES

FIGURE 55 DATA CENTER PIPES MARKET: DATA TRIANGULATION

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