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Global AI Data Center Leak Detection System Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global AI Data Center Leak Detection System market size is predicted to grow from US$ 201 million in 2025 to US$ 916 million in 2032; it is expected to grow at a CAGR of 15.7% from 2026 to 2032.

AI data center leak detection system is an environmental safety solution designed to continuously monitor data halls, equipment rooms and cooling infrastructure for unintended liquid releases. It detects water, coolant, glycol mixtures, condensate and other conductive fluids and generates location-, zone- or equipment-level alarms. A typical system consists of spot leak sensors, sensing cables, sensing tapes, zone controllers, distance-location controllers, alarm modules, communication gateways and monitoring software.

Upstream suppliers provide conductive sensing materials, polymer jackets, electrodes, cables, connectors, relays, control chips, power modules, communication modules, alarms, displays and industrial enclosures. Material corrosion resistance, contamination tolerance, response speed and reusability directly affect detection sensitivity, false-alarm rates and service life. As liquid cooling expands, sensing components must also detect fluids with different conductivity characteristics, including water and glycol-based coolants.

The midstream segment includes leak detection equipment manufacturers, environmental monitoring companies, data center infrastructure management software providers, building automation suppliers and cooling-system manufacturers. These companies undertake sensor engineering, sensing-cable production, leak-location algorithm development, controller manufacturing, communication integration and system commissioning. Leak detection, flow monitoring and alarm control are

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increasingly being integrated directly into coolant distribution units and other liquid-cooling equipment rather than being installed only as separate monitoring systems.

Downstream customers include hyperscale data centers, colocation facilities, enterprise data centers, edge facilities, telecommunications rooms and high-performance computing centers. Systems may be procured by data center owners, engineering contractors, cooling-equipment suppliers or facility-management service providers. Aftermarket activities include installation, commissioning, cable cleaning, functional testing, controller upgrades, fault diagnosis and periodic calibration.

The market has favorable long-term growth prospects. Conventional air-cooled data centers already face leakage risks from chilled-water piping, cooling-unit condensate, humidification systems and fire-protection infrastructure. The deployment of high-power servers and artificial intelligence computing equipment is accelerating the use of direct-to-chip cooling, rear-door heat exchangers and coolant distribution units. As liquid circuits extend closer to racks and electronic components, even a small leak can cause equipment damage, operational disruption and significant repair costs, increasing demand for rapid detection, precise location and automated response.

Future growth will be driven by three major factors. New high-density facilities are expected to incorporate leak detection as a standard safety function within liquid-cooling infrastructure. Existing air-cooled facilities adopting liquid or hybrid cooling will require additional sensing cables, spot sensors and controllers. In addition, products will evolve from basic liquid-presence alarms toward intelligent systems with distance location, self-diagnostics, event analysis, predictive maintenance and automatic valve-isolation functions.

Market development may be constrained by inconsistent system standards, variations among coolant properties, contamination of sensing cables, improper installation and false alarms. Competition will therefore increasingly focus on detection accuracy, location precision, reliability, communication compatibility and integration with cooling equipment and facility-management platforms. Suppliers with broad product portfolios, liquid-cooling expertise and global data center service capabilities are likely to gain a stronger competitive position.

Report Scope

LPI (LP Information)' newest research report, the “AI Data Center Leak Detection

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System Industry Forecast" looks at past sales and reviews total world AI Data Center Leak Detection System sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Data Center Leak Detection System sales for 2026 through 2032. With AI Data Center Leak Detection System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Data Center Leak Detection System industry.

This Insight Report provides a comprehensive analysis of the global AI Data Center Leak Detection System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on AI Data Center Leak Detection System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Data Center Leak Detection System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Data Center Leak Detection System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Data Center Leak Detection System.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Data Center Leak Detection System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Conductive Resistance-Based Detection

Optical Detection

Capacitive Detection

Pressure/Flow-Balance Detection

Acoustic Detection

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Segmentation by Liquid Type:

Water and Water-Glycol Coolants

Dielectric Coolants

Oil and Hydrocarbon Fluids

Acid, Alkali and Chemical Fluids

Multi-Liquid Detection

Segmentation by Detection Location:

Server and Cold-Plate Level

In-Rack and CDU Level

Row and Distribution-Piping Level

Raised-Floor and Data-Hall Level

Plant-Room and Facility Level

Segmentation by Application:

Direct-to-Chip Liquid Cooling

Immersion Cooling

Coolant Distribution Units and Manifolds

Chilled-Water and Facility Piping

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HPC and AI Server Racks

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

nVent RAYCHEM

TTK SAS

RLE Technologies

Schneider Electric SE

AKCP

Aqualeak Detection Ltd.

Andel Ltd.

CMR Electrical Ltd.

Jacarta Ltd.

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HW group s.r.o.

Sensaphone

Dorlen Products, Inc.

Shenzhen Xiangwei Measurement & Control Technology Co., Ltd.

Shenzhen Yajiang Measurement & Control Technology Co., Ltd.

Shenzhen Gaodi Automatic Control Equipment Co., Ltd.

Shenzhen Best Control Technology Co., Ltd.

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global AI Data Center Leak Detection System Market Size (2021-2032)
  2.1.2 AI Data Center Leak Detection System Market Size CAGR by Region (2021 VS 2025 VS 2032)
  2.1.3 World Current & Future Analysis for AI Data Center Leak Detection System by Country/Region (2021, 2025 & 2032)
2.2 AI Data Center Leak Detection System Segment by Type
  2.2.1 Conductive Resistance-Based Detection
  2.2.2 Optical Detection
  2.2.3 Capacitive Detection
  2.2.4 Pressure/Flow-Balance Detection
  2.2.5 Acoustic Detection
  2.2.6 AI Data Center Leak Detection System Market Size by Type
    2.2.6.1 AI Data Center Leak Detection System Market Size CAGR by Type (2021 VS 2025 VS 2032)
    2.2.6.2 Global AI Data Center Leak Detection System Market Size Market Share by Type (2021-2026)
2.3 AI Data Center Leak Detection System Segment by Liquid Type
  2.3.1 Water and Water-Glycol Coolants
  2.3.2 Dielectric Coolants
  2.3.3 Oil and Hydrocarbon Fluids
  2.3.4 Acid, Alkali and Chemical Fluids
  2.3.5 Multi-Liquid Detection
  2.3.6 AI Data Center Leak Detection System Market Size by Liquid Type

+357 96 030922
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2.3.6.1 AI Data Center Leak Detection System Market Size CAGR by Liquid Type (2021 VS 2025 VS 2032)
2.3.6.2 Global AI Data Center Leak Detection System Market Size Market Share by Liquid Type (2021-2026)
2.4 AI Data Center Leak Detection System Segment by Detection Location
2.4.1 Server and Cold-Plate Level
2.4.2 In-Rack and CDU Level
2.4.3 Row and Distribution-Piping Level
2.4.4 Raised-Floor and Data-Hall Level
2.4.5 Plant-Room and Facility Level
2.4.6 AI Data Center Leak Detection System Market Size by Detection Location
2.4.6.1 AI Data Center Leak Detection System Market Size CAGR by Detection Location (2021 VS 2025 VS 2032)
2.4.6.2 Global AI Data Center Leak Detection System Market Size Market Share by Detection Location (2021-2026)
2.5 AI Data Center Leak Detection System Segment by Application
2.5.1 Direct-to-Chip Liquid Cooling
2.5.2 Immersion Cooling
2.5.3 Coolant Distribution Units and Manifolds
2.5.4 Chilled-Water and Facility Piping
2.5.5 HPC and AI Server Racks
2.5.6 Others
2.5.7 AI Data Center Leak Detection System Market Size by Application
2.5.7.1 AI Data Center Leak Detection System Market Size CAGR by Application (2021 VS 2025 VS 2032)
2.5.7.2 Global AI Data Center Leak Detection System Market Size Market Share by Application (2021-2026)

3 AI DATA CENTER LEAK DETECTION SYSTEM MARKET SIZE BY PLAYER

3.1 AI Data Center Leak Detection System Market Size Market Share by Player
3.1.1 Global AI Data Center Leak Detection System Revenue by Player (2021-2026)
3.1.2 Global AI Data Center Leak Detection System Revenue Market Share by Player (2021-2026)
3.2 Global AI Data Center Leak Detection System Key Players Head office and Products Offered
3.3 Market Concentration Rate Analysis
3.3.1 Competition Landscape Analysis
3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

+357 96 030922
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3.4 New Products and Potential Entrants
3.5 Mergers & Acquisitions, Expansion

4 AI DATA CENTER LEAK DETECTION SYSTEM BY REGION

4.1 AI Data Center Leak Detection System Market Size by Region (2021-2026)
4.2 Global AI Data Center Leak Detection System Annual Revenue by Country/Region (2021-2026)
4.3 Americas AI Data Center Leak Detection System Market Size Growth (2021-2026)
4.4 APAC AI Data Center Leak Detection System Market Size Growth (2021-2026)
4.5 Europe AI Data Center Leak Detection System Market Size Growth (2021-2026)
4.6 Middle East & Africa AI Data Center Leak Detection System Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas AI Data Center Leak Detection System Market Size by Country (2021-2026)
5.2 Americas AI Data Center Leak Detection System Market Size by Type (2021-2026)
5.3 Americas AI Data Center Leak Detection System Market Size by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC AI Data Center Leak Detection System Market Size by Region (2021-2026)
6.2 APAC AI Data Center Leak Detection System Market Size by Type (2021-2026)
6.3 APAC AI Data Center Leak Detection System Market Size by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia

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info@marketpublishers.com

7 EUROPE

7.1 Europe AI Data Center Leak Detection System Market Size by Country (2021-2026)
7.2 Europe AI Data Center Leak Detection System Market Size by Type (2021-2026)
7.3 Europe AI Data Center Leak Detection System Market Size by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa AI Data Center Leak Detection System by Region (2021-2026)
8.2 Middle East & Africa AI Data Center Leak Detection System Market Size by Type (2021-2026)
8.3 Middle East & Africa AI Data Center Leak Detection System Market Size by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 GLOBAL AI DATA CENTER LEAK DETECTION SYSTEM MARKET FORECAST

10.1 Global AI Data Center Leak Detection System Forecast by Region (2027-2032)
  10.1.1 Global AI Data Center Leak Detection System Forecast by Region (2027-2032)
  10.1.2 Americas AI Data Center Leak Detection System Forecast
  10.1.3 APAC AI Data Center Leak Detection System Forecast
  10.1.4 Europe AI Data Center Leak Detection System Forecast
  10.1.5 Middle East & Africa AI Data Center Leak Detection System Forecast

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10.2 Americas AI Data Center Leak Detection System Forecast by Country (2027-2032)
10.2.1 United States Market AI Data Center Leak Detection System Forecast
10.2.2 Canada Market AI Data Center Leak Detection System Forecast
10.2.3 Mexico Market AI Data Center Leak Detection System Forecast
10.2.4 Brazil Market AI Data Center Leak Detection System Forecast
10.3 APAC AI Data Center Leak Detection System Forecast by Region (2027-2032)
10.3.1 China AI Data Center Leak Detection System Market Forecast
10.3.2 Japan Market AI Data Center Leak Detection System Forecast
10.3.3 Korea Market AI Data Center Leak Detection System Forecast
10.3.4 Southeast Asia Market AI Data Center Leak Detection System Forecast
10.3.5 India Market AI Data Center Leak Detection System Forecast
10.3.6 Australia Market AI Data Center Leak Detection System Forecast
10.4 Europe AI Data Center Leak Detection System Forecast by Country (2027-2032)
10.4.1 Germany Market AI Data Center Leak Detection System Forecast
10.4.2 France Market AI Data Center Leak Detection System Forecast
10.4.3 UK Market AI Data Center Leak Detection System Forecast
10.4.4 Italy Market AI Data Center Leak Detection System Forecast
10.4.5 Russia Market AI Data Center Leak Detection System Forecast
10.5 Middle East & Africa AI Data Center Leak Detection System Forecast by Region (2027-2032)
10.5.1 Egypt Market AI Data Center Leak Detection System Forecast
10.5.2 South Africa Market AI Data Center Leak Detection System Forecast
10.5.3 Israel Market AI Data Center Leak Detection System Forecast
10.5.4 Turkey Market AI Data Center Leak Detection System Forecast
10.6 Global AI Data Center Leak Detection System Forecast by Type (2027-2032)
10.7 Global AI Data Center Leak Detection System Forecast by Application (2027-2032)
10.7.1 GCC Countries Market AI Data Center Leak Detection System Forecast

11 KEY PLAYERS ANALYSIS

11.1 nVent RAYCHEM
11.1.1 nVent RAYCHEM Company Information
11.1.2 nVent RAYCHEM AI Data Center Leak Detection System Product Offered
11.1.3 nVent RAYCHEM AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.1.4 nVent RAYCHEM Main Business Overview
11.1.5 nVent RAYCHEM Latest Developments
11.2 TTK SAS
11.2.1 TTK SAS Company Information

+357 96 030922
info@marketpublishers.com

11.2.2 TTK SAS AI Data Center Leak Detection System Product Offered
11.2.3 TTK SAS AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.2.4 TTK SAS Main Business Overview
11.2.5 TTK SAS Latest Developments
11.3 RLE Technologies
11.3.1 RLE Technologies Company Information
11.3.2 RLE Technologies AI Data Center Leak Detection System Product Offered
11.3.3 RLE Technologies AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.3.4 RLE Technologies Main Business Overview
11.3.5 RLE Technologies Latest Developments
11.4 Schneider Electric SE
11.4.1 Schneider Electric SE Company Information
11.4.2 Schneider Electric SE AI Data Center Leak Detection System Product Offered
11.4.3 Schneider Electric SE AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.4.4 Schneider Electric SE Main Business Overview
11.4.5 Schneider Electric SE Latest Developments
11.5 AKCP
11.5.1 AKCP Company Information
11.5.2 AKCP AI Data Center Leak Detection System Product Offered
11.5.3 AKCP AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.5.4 AKCP Main Business Overview
11.5.5 AKCP Latest Developments
11.6 Aqualeak Detection Ltd.
11.6.1 Aqualeak Detection Ltd. Company Information
11.6.2 Aqualeak Detection Ltd. AI Data Center Leak Detection System Product Offered
11.6.3 Aqualeak Detection Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.6.4 Aqualeak Detection Ltd. Main Business Overview
11.6.5 Aqualeak Detection Ltd. Latest Developments
11.7 Andel Ltd.
11.7.1 Andel Ltd. Company Information
11.7.2 Andel Ltd. AI Data Center Leak Detection System Product Offered
11.7.3 Andel Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

11.7.4 Andel Ltd. Main Business Overview
11.7.5 Andel Ltd. Latest Developments
11.8 CMR Electrical Ltd.
11.8.1 CMR Electrical Ltd. Company Information
11.8.2 CMR Electrical Ltd. AI Data Center Leak Detection System Product Offered
11.8.3 CMR Electrical Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.8.4 CMR Electrical Ltd. Main Business Overview
11.8.5 CMR Electrical Ltd. Latest Developments
11.9 Jacarta Ltd.
11.9.1 Jacarta Ltd. Company Information
11.9.2 Jacarta Ltd. AI Data Center Leak Detection System Product Offered
11.9.3 Jacarta Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.9.4 Jacarta Ltd. Main Business Overview
11.9.5 Jacarta Ltd. Latest Developments
11.10 HW group s.r.o.
11.10.1 HW group s.r.o. Company Information
11.10.2 HW group s.r.o. AI Data Center Leak Detection System Product Offered
11.10.3 HW group s.r.o. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.10.4 HW group s.r.o. Main Business Overview
11.10.5 HW group s.r.o. Latest Developments
11.11 Sensaphone
11.11.1 Sensaphone Company Information
11.11.2 Sensaphone AI Data Center Leak Detection System Product Offered
11.11.3 Sensaphone AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.11.4 Sensaphone Main Business Overview
11.11.5 Sensaphone Latest Developments
11.12 Dorlen Products, Inc.
11.12.1 Dorlen Products, Inc. Company Information
11.12.2 Dorlen Products, Inc. AI Data Center Leak Detection System Product Offered
11.12.3 Dorlen Products, Inc. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.12.4 Dorlen Products, Inc. Main Business Overview
11.12.5 Dorlen Products, Inc. Latest Developments
11.13 Shenzhen Xiangwei Measurement & Control Technology Co., Ltd.
11.13.1 Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. Company

+357 96 030922
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Information
11.13.2 Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Product Offered
11.13.3 Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.13.4 Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. Main Business Overview
11.13.5 Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. Latest Developments
11.14 Shenzhen Yajiang Measurement & Control Technology Co., Ltd.
11.14.1 Shenzhen Yajiang Measurement & Control Technology Co., Ltd. Company Information
11.14.2 Shenzhen Yajiang Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Product Offered
11.14.3 Shenzhen Yajiang Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.14.4 Shenzhen Yajiang Measurement & Control Technology Co., Ltd. Main Business Overview
11.14.5 Shenzhen Yajiang Measurement & Control Technology Co., Ltd. Latest Developments
11.15 Shenzhen Gaodi Automatic Control Equipment Co., Ltd.
11.15.1 Shenzhen Gaodi Automatic Control Equipment Co., Ltd. Company Information
11.15.2 Shenzhen Gaodi Automatic Control Equipment Co., Ltd. AI Data Center Leak Detection System Product Offered
11.15.3 Shenzhen Gaodi Automatic Control Equipment Co., Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.15.4 Shenzhen Gaodi Automatic Control Equipment Co., Ltd. Main Business Overview
11.15.5 Shenzhen Gaodi Automatic Control Equipment Co., Ltd. Latest Developments
11.16 Shenzhen Best Control Technology Co., Ltd.
11.16.1 Shenzhen Best Control Technology Co., Ltd. Company Information
11.16.2 Shenzhen Best Control Technology Co., Ltd. AI Data Center Leak Detection System Product Offered
11.16.3 Shenzhen Best Control Technology Co., Ltd. AI Data Center Leak Detection System Revenue, Gross Margin and Market Share (2021-2026)
11.16.4 Shenzhen Best Control Technology Co., Ltd. Main Business Overview
11.16.5 Shenzhen Best Control Technology Co., Ltd. Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. AI Data Center Leak Detection System Market Size CAGR by Region (2021 VS 2025 VS 2032) & ($ millions)
Table 2. AI Data Center Leak Detection System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Conductive Resistance-Based Detection
Table 4. Major Players of Optical Detection
Table 5. Major Players of Capacitive Detection
Table 6. Major Players of Pressure/Flow-Balance Detection
Table 7. Major Players of Acoustic Detection
Table 8. AI Data Center Leak Detection System Market Size CAGR by Type (2021 VS 2025 VS 2032) & ($ millions)
Table 9. Global AI Data Center Leak Detection System Market Size by Type (2021-2026) & ($ millions)
Table 10. Global AI Data Center Leak Detection System Market Size Market Share by Type (2021-2026)
Table 11. Major Players of Water and Water-Glycol Coolants
Table 12. Major Players of Dielectric Coolants
Table 13. Major Players of Oil and Hydrocarbon Fluids
Table 14. Major Players of Acid, Alkali and Chemical Fluids
Table 15. Major Players of Multi-Liquid Detection
Table 16. AI Data Center Leak Detection System Market Size CAGR by Liquid Type (2021 VS 2025 VS 2032) & ($ millions)
Table 17. Global AI Data Center Leak Detection System Market Size by Liquid Type (2021-2026) & ($ millions)
Table 18. Global AI Data Center Leak Detection System Market Size Market Share by Liquid Type (2021-2026)
Table 19. Major Players of Server and Cold-Plate Level
Table 20. Major Players of In-Rack and CDU Level
Table 21. Major Players of Row and Distribution-Piping Level
Table 22. Major Players of Raised-Floor and Data-Hall Level
Table 23. Major Players of Plant-Room and Facility Level
Table 24. AI Data Center Leak Detection System Market Size CAGR by Detection Location (2021 VS 2025 VS 2032) & ($ millions)
Table 25. Global AI Data Center Leak Detection System Market Size by Detection Location (2021-2026) & ($ millions)

+357 96 030922
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Table 26. Global AI Data Center Leak Detection System Market Size Market Share by Detection Location (2021-2026)
Table 27. AI Data Center Leak Detection System Market Size CAGR by Application (2021 VS 2025 VS 2032) & ($ millions)
Table 28. Global AI Data Center Leak Detection System Market Size by Application (2021-2026) & ($ millions)
Table 29. Global AI Data Center Leak Detection System Market Size Market Share by Application (2021-2026)
Table 30. Global AI Data Center Leak Detection System Revenue by Player (2021-2026) & ($ millions)
Table 31. Global AI Data Center Leak Detection System Revenue Market Share by Player (2021-2026)
Table 32. AI Data Center Leak Detection System Key Players Head office and Products Offered
Table 33. AI Data Center Leak Detection System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 34. New Products and Potential Entrants
Table 35. Mergers & Acquisitions, Expansion
Table 36. Global AI Data Center Leak Detection System Market Size by Region (2021-2026) & ($ millions)
Table 37. Global AI Data Center Leak Detection System Market Size Market Share by Region (2021-2026)
Table 38. Global AI Data Center Leak Detection System Revenue by Country/Region (2021-2026) & ($ millions)
Table 39. Global AI Data Center Leak Detection System Revenue Market Share by Country/Region (2021-2026)
Table 40. Americas AI Data Center Leak Detection System Market Size by Country (2021-2026) & ($ millions)
Table 41. Americas AI Data Center Leak Detection System Market Size Market Share by Country (2021-2026)
Table 42. Americas AI Data Center Leak Detection System Market Size by Type (2021-2026) & ($ millions)
Table 43. Americas AI Data Center Leak Detection System Market Size Market Share by Type (2021-2026)
Table 44. Americas AI Data Center Leak Detection System Market Size by Application (2021-2026) & ($ millions)
Table 45. Americas AI Data Center Leak Detection System Market Size Market Share by Application (2021-2026)
Table 46. APAC AI Data Center Leak Detection System Market Size by Region

+357 96 030922
info@marketpublishers.com

(2021-2026) & ($ millions)
Table 47. APAC AI Data Center Leak Detection System Market Size Market Share by Region (2021-2026)
Table 48. APAC AI Data Center Leak Detection System Market Size by Type (2021-2026) & ($ millions)
Table 49. APAC AI Data Center Leak Detection System Market Size by Application (2021-2026) & ($ millions)
Table 50. Europe AI Data Center Leak Detection System Market Size by Country (2021-2026) & ($ millions)
Table 51. Europe AI Data Center Leak Detection System Market Size Market Share by Country (2021-2026)
Table 52. Europe AI Data Center Leak Detection System Market Size by Type (2021-2026) & ($ millions)
Table 53. Europe AI Data Center Leak Detection System Market Size by Application (2021-2026) & ($ millions)
Table 54. Middle East & Africa AI Data Center Leak Detection System Market Size by Region (2021-2026) & ($ millions)
Table 55. Middle East & Africa AI Data Center Leak Detection System Market Size by Type (2021-2026) & ($ millions)
Table 56. Middle East & Africa AI Data Center Leak Detection System Market Size by Application (2021-2026) & ($ millions)
Table 57. Key Market Drivers & Growth Opportunities of AI Data Center Leak Detection System
Table 58. Key Market Challenges & Risks of AI Data Center Leak Detection System
Table 59. Key Industry Trends of AI Data Center Leak Detection System
Table 60. Global AI Data Center Leak Detection System Market Size Forecast by Region (2027-2032) & ($ millions)
Table 61. Global AI Data Center Leak Detection System Market Size Market Share Forecast by Region (2027-2032)
Table 62. Global AI Data Center Leak Detection System Market Size Forecast by Type (2027-2032) & ($ millions)
Table 63. Global AI Data Center Leak Detection System Market Size Forecast by Application (2027-2032) & ($ millions)
Table 64. nVent RAYCHEM Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 65. nVent RAYCHEM AI Data Center Leak Detection System Product Offered
Table 66. nVent RAYCHEM AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 67. nVent RAYCHEM Main Business

+357 96 030922
info@marketpublishers.com

Table 68. nVent RAYCHEM Latest Developments
Table 69. TTK SAS Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 70. TTK SAS AI Data Center Leak Detection System Product Offered
Table 71. TTK SAS AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 72. TTK SAS Main Business
Table 73. TTK SAS Latest Developments
Table 74. RLE Technologies Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 75. RLE Technologies AI Data Center Leak Detection System Product Offered
Table 76. RLE Technologies AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 77. RLE Technologies Main Business
Table 78. RLE Technologies Latest Developments
Table 79. Schneider Electric SE Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 80. Schneider Electric SE AI Data Center Leak Detection System Product Offered
Table 81. Schneider Electric SE AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 82. Schneider Electric SE Main Business
Table 83. Schneider Electric SE Latest Developments
Table 84. AKCP Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 85. AKCP AI Data Center Leak Detection System Product Offered
Table 86. AKCP AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 87. AKCP Main Business
Table 88. AKCP Latest Developments
Table 89. Aqualeak Detection Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 90. Aqualeak Detection Ltd. AI Data Center Leak Detection System Product Offered
Table 91. Aqualeak Detection Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 92. Aqualeak Detection Ltd. Main Business
Table 93. Aqualeak Detection Ltd. Latest Developments
Table 94. Andel Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors

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Table 95. Andel Ltd. AI Data Center Leak Detection System Product Offered
Table 96. Andel Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 97. Andel Ltd. Main Business
Table 98. Andel Ltd. Latest Developments
Table 99. CMR Electrical Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 100. CMR Electrical Ltd. AI Data Center Leak Detection System Product Offered
Table 101. CMR Electrical Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 102. CMR Electrical Ltd. Main Business
Table 103. CMR Electrical Ltd. Latest Developments
Table 104. Jacarta Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 105. Jacarta Ltd. AI Data Center Leak Detection System Product Offered
Table 106. Jacarta Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 107. Jacarta Ltd. Main Business
Table 108. Jacarta Ltd. Latest Developments
Table 109. HW group s.r.o. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 110. HW group s.r.o. AI Data Center Leak Detection System Product Offered
Table 111. HW group s.r.o. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 112. HW group s.r.o. Main Business
Table 113. HW group s.r.o. Latest Developments
Table 114. Sensaphone Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 115. Sensaphone AI Data Center Leak Detection System Product Offered
Table 116. Sensaphone AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 117. Sensaphone Main Business
Table 118. Sensaphone Latest Developments
Table 119. Dorlen Products, Inc. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 120. Dorlen Products, Inc. AI Data Center Leak Detection System Product Offered
Table 121. Dorlen Products, Inc. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)

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Table 122. Dorlen Products, Inc. Main Business
Table 123. Dorlen Products, Inc. Latest Developments
Table 124. Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 125. Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Product Offered
Table 126. Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 127. Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. Main Business
Table 128. Shenzhen Xiangwei Measurement & Control Technology Co., Ltd. Latest Developments
Table 129. Shenzhen Yajiang Measurement & Control Technology Co., Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 130. Shenzhen Yajiang Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Product Offered
Table 131. Shenzhen Yajiang Measurement & Control Technology Co., Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 132. Shenzhen Yajiang Measurement & Control Technology Co., Ltd. Main Business
Table 133. Shenzhen Yajiang Measurement & Control Technology Co., Ltd. Latest Developments
Table 134. Shenzhen Gaodi Automatic Control Equipment Co., Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 135. Shenzhen Gaodi Automatic Control Equipment Co., Ltd. AI Data Center Leak Detection System Product Offered
Table 136. Shenzhen Gaodi Automatic Control Equipment Co., Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 137. Shenzhen Gaodi Automatic Control Equipment Co., Ltd. Main Business
Table 138. Shenzhen Gaodi Automatic Control Equipment Co., Ltd. Latest Developments
Table 139. Shenzhen Best Control Technology Co., Ltd. Details, Company Type, AI Data Center Leak Detection System Area Served and Its Competitors
Table 140. Shenzhen Best Control Technology Co., Ltd. AI Data Center Leak Detection

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System Product Offered
Table 141. Shenzhen Best Control Technology Co., Ltd. AI Data Center Leak Detection System Revenue ($ million), Gross Margin and Market Share (2021-2026)
Table 142. Shenzhen Best Control Technology Co., Ltd. Main Business
Table 143. Shenzhen Best Control Technology Co., Ltd. Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. AI Data Center Leak Detection System Report Years Considered
Figure 2. Research Objectives
Figure 3. Research Methodology
Figure 4. Research Process and Data Source
Figure 5. Global AI Data Center Leak Detection System Market Size Growth Rate (2021-2032) ($ millions)
Figure 6. AI Data Center Leak Detection System Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 7. AI Data Center Leak Detection System Sales Market Share by Country/Region (2025)
Figure 8. AI Data Center Leak Detection System Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 9. Global AI Data Center Leak Detection System Market Size Market Share by Type in 2025
Figure 10. Global AI Data Center Leak Detection System Market Size Market Share by Liquid Type in 2025
Figure 11. Global AI Data Center Leak Detection System Market Size Market Share by Detection Location in 2025
Figure 12. AI Data Center Leak Detection System in Direct-to-Chip Liquid Cooling
Figure 13. Global AI Data Center Leak Detection System Market: Direct-to-Chip Liquid Cooling (2021-2026) & ($ millions)
Figure 14. AI Data Center Leak Detection System in Immersion Cooling
Figure 15. Global AI Data Center Leak Detection System Market: Immersion Cooling (2021-2026) & ($ millions)
Figure 16. AI Data Center Leak Detection System in Coolant Distribution Units and Manifolds
Figure 17. Global AI Data Center Leak Detection System Market: Coolant Distribution Units and Manifolds (2021-2026) & ($ millions)
Figure 18. AI Data Center Leak Detection System in Chilled-Water and Facility Piping
Figure 19. Global AI Data Center Leak Detection System Market: Chilled-Water and Facility Piping (2021-2026) & ($ millions)
Figure 20. AI Data Center Leak Detection System in HPC and AI Server Racks
Figure 21. Global AI Data Center Leak Detection System Market: HPC and AI Server Racks (2021-2026) & ($ millions)
Figure 22. AI Data Center Leak Detection System in Others

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Figure 23. Global AI Data Center Leak Detection System Market: Others (2021-2026) & ($ millions)
Figure 24. Global AI Data Center Leak Detection System Market Size Market Share by Application in 2025
Figure 25. Global AI Data Center Leak Detection System Revenue Market Share by Player in 2025
Figure 26. Global AI Data Center Leak Detection System Market Size Market Share by Region (2021-2026)
Figure 27. Americas AI Data Center Leak Detection System Market Size 2021-2026 ($ millions)
Figure 28. APAC AI Data Center Leak Detection System Market Size 2021-2026 ($ millions)
Figure 29. Europe AI Data Center Leak Detection System Market Size 2021-2026 ($ millions)
Figure 30. Middle East & Africa AI Data Center Leak Detection System Market Size 2021-2026 ($ millions)
Figure 31. Americas AI Data Center Leak Detection System Value Market Share by Country in 2025
Figure 32. United States AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 33. Canada AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 34. Mexico AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 35. Brazil AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 36. APAC AI Data Center Leak Detection System Market Size Market Share by Region in 2025
Figure 37. APAC AI Data Center Leak Detection System Market Size Market Share by Type (2021-2026)
Figure 38. APAC AI Data Center Leak Detection System Market Size Market Share by Application (2021-2026)
Figure 39. China AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 40. Japan AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 41. South Korea AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 42. Southeast Asia AI Data Center Leak Detection System Market Size Growth

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2021-2026 ($ millions)
Figure 43. India AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 44. Australia AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 45. Europe AI Data Center Leak Detection System Market Size Market Share by Country in 2025
Figure 46. Europe AI Data Center Leak Detection System Market Size Market Share by Type (2021-2026)
Figure 47. Europe AI Data Center Leak Detection System Market Size Market Share by Application (2021-2026)
Figure 48. Germany AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 49. France AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 50. UK AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 51. Italy AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 52. Russia AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 53. Middle East & Africa AI Data Center Leak Detection System Market Size Market Share by Region (2021-2026)
Figure 54. Middle East & Africa AI Data Center Leak Detection System Market Size Market Share by Type (2021-2026)
Figure 55. Middle East & Africa AI Data Center Leak Detection System Market Size Market Share by Application (2021-2026)
Figure 56. Egypt AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 57. South Africa AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 58. Israel AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 59. Turkey AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 60. GCC Countries AI Data Center Leak Detection System Market Size Growth 2021-2026 ($ millions)
Figure 61. Americas AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)

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Figure 62. APAC AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 63. Europe AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 64. Middle East & Africa AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 65. United States AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 66. Canada AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 67. Mexico AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 68. Brazil AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 69. China AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 70. Japan AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 71. Korea AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 72. Southeast Asia AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 73. India AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 74. Australia AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 75. Germany AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 76. France AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 77. UK AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 78. Italy AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 79. Russia AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 80. Egypt AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 81. South Africa AI Data Center Leak Detection System Market Size 2027-2032

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($ millions)
Figure 82. Israel AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 83. Turkey AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)
Figure 84. Global AI Data Center Leak Detection System Market Size Market Share Forecast by Type (2027-2032)
Figure 85. Global AI Data Center Leak Detection System Market Size Market Share Forecast by Application (2027-2032)
Figure 86. GCC Countries AI Data Center Leak Detection System Market Size 2027-2032 ($ millions)

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