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Global Soil Gas Flux System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Soil Gas Flux System market size is expected to reach $ 774 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

Soil Gas Flux System is a field and laboratory measurement system designed to quantify gas exchange across the soil–atmosphere interface by monitoring the change in target-gas concentration within a controlled chamber and converting the concentration-time response into surface flux. A complete system typically consists of a soil flux chamber and collar, gas analyzer, circulation pump and tubing, pressure and temperature compensation, soil environmental sensors, controller or multiplexer, data acquisition unit, power and communication modules, and flux-processing software. The study covers portable survey systems, single-point and multiplexed long-term systems, and distributed monitoring configurations. Measurement targets primarily include CO?, CH? and N?O, with selected platforms extending to H?O, NH?, isotopic species and other trace gases. Analyzer technologies include infrared gas analysis, NDIR, laser spectroscopy and cavity-enhanced spectroscopy, while closed dynamic chambers represent the principal commercial measurement architecture. The systems are used in soil respiration, terrestrial carbon-cycle research, agricultural greenhouse-gas monitoring, forest and grassland ecology, wetlands and rice fields, carbon sequestration studies, ecological restoration, permafrost research and other applications requiring direct quantification of soil gas emissions or uptake.

Key Findings

CO? soil respiration systems remain the most established product category, while multi-gas CO? CH? N?O platforms represent the higher-value technology direction

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Portable survey systems and automated long-term multiplexed systems form the two principal commercial system architectures

Typical complete-system pricing centers in the mid-five-figure USD range, while high-end automated multi-chamber platforms can reach six figures

Research demand is increasingly shifting from single-gas measurements toward integrated greenhouse-gas, environmental-sensor and automated data-processing workflows

Competition combines established international scientific-instrument brands with a rapidly expanding group of specialized Chinese ecological-instrument manufacturers

In 2025, global soil gas glux system average price is 45 k usd/unit

Market Trends

The Soil Gas Flux System market is moving from single-purpose CO? soil respiration instruments toward integrated platforms capable of measuring multiple greenhouse gases, automating chamber operation and combining flux data with soil moisture, temperature, atmospheric pressure and other environmental variables. Portable survey instruments remain important for spatial mapping and campaign-based field research, but product development is increasingly focused on long-term unattended monitoring, multi-chamber switching, distributed measurement networks and remote communication. High-end platforms can now integrate dozens of chambers into a single long-term monitoring architecture, while portable systems are increasingly combining CO?, CH? and N?O measurement in one field-deployable platform. Software is also becoming a more important component of system value: automatic flux calculation, quality assurance, deadband optimization, data synchronization and post-processing increasingly determine the efficiency and reproducibility of field studies rather than serving merely as ancillary functions. Current product development therefore reflects a broader transition from standalone measurement instruments toward integrated soil greenhouse-gas observation platforms linking chambers, analyzers, environmental sensors, communications and analytical software.

Market Dynamics

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Drivers

Demand for Soil Gas Flux System is driven by expanding research on climate change, terrestrial carbon cycling, agricultural greenhouse-gas emissions and soil carbon management. CO? soil respiration is one of the fundamental measurements used to understand ecosystem carbon exchange, while CH? and N?O have become increasingly important in agricultural, wetland, landfill and climate-related studies because small changes in these gases can materially affect greenhouse-gas assessments. Growth in long-term ecological observation, soil-health research, fertilizer-emission studies, regenerative agriculture and carbon-sequestration projects is increasing demand for direct field measurements rather than relying only on modeled emission factors. The ability to combine gas flux with soil temperature, moisture and other environmental variables further improves the research value of modern systems, supporting both basic science and measurement-oriented carbon-management applications.

Restraints

The main constraint is the relatively high acquisition and ownership cost of research-grade systems. High-precision CH? and N?O measurements require more sophisticated optical and laser-based analyzers than conventional CO?-only instruments, while long-term systems add automated chambers, multiplexers, environmental sensors, weatherproof enclosures, power systems and field communication equipment. System costs therefore rise rapidly with gas coverage, chamber count and required detection precision. Soil flux measurement is also sensitive to chamber design, pressure disturbance, soil heterogeneity, collar installation and environmental conditions, which means high instrument specifications alone do not guarantee reliable data. Users require appropriate field protocols, calibration, maintenance and data-quality control, limiting adoption among organizations without specialized ecological or atmospheric-measurement capabilities.

Opportunities

The largest technology opportunity lies in extending Soil Gas Flux System from periodic scientific measurements toward persistent, networked greenhouse-gas monitoring. Multi-gas portable systems lower the logistical burden of measuring CO?, CH? and N?O separately, while distributed and multiplexed architectures create opportunities for higher spatial and temporal coverage. Integration with isotope analyzers, canopy

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chambers and environmental sensor networks can further extend the measurement boundary from soil respiration toward ecosystem carbon exchange and source-attribution research. Another opportunity is emerging in more application-oriented deployments, including fertilizer optimization, agricultural emission mitigation, carbon farming, wetland restoration, landfill monitoring and ecological engineering. Suppliers capable of combining lower-cost analyzers, automated chamber technology, remote communication and standardized flux software may broaden the customer base beyond specialized laboratories and make long-duration monitoring economically viable for a wider range of field programs.

Challenges

Long-term market development depends on improving measurement comparability and reducing the operational complexity of field deployments. Soil gas flux is intrinsically heterogeneous across space and time, and results can change with soil temperature, moisture, vegetation, chamber placement, pressure perturbation and measurement duration. Different analyzer technologies and flux-fitting algorithms can also produce methodological differences, creating challenges when datasets from multiple instruments or observation networks are combined. Long-term instruments must additionally withstand rain, dust, temperature variation, animals, vegetation growth and unstable field power or communications. For manufacturers, the challenge is therefore not simply improving analyzer sensitivity but developing an integrated platform in which chamber mechanics, gas circulation, environmental sensing, calibration, software algorithms and field reliability remain stable over extended deployments.

Industry Chain Analysis

The upstream supply chain of Soil Gas Flux System consists primarily of optical and electronic measurement components. Key inputs include infrared sources, semiconductor or tunable lasers, optical cavities, photodetectors, filters, precision pressure and temperature sensors, gas pumps, solenoid valves, mass-flow components, tubing and fittings, embedded processors, data acquisition electronics, batteries and wireless communication modules. Higher-end CH? and N?O systems depend heavily on precision optical and laser-spectroscopy components, making the gas analyzer one of the highest-value elements in the system. Mechanical components such as automated chambers, collars, manifolds and weatherproof enclosures are less costly individually but are critical to measurement accuracy because chamber pressure

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effects, leakage and mixing directly influence calculated flux.

Midstream manufacturers integrate the gas analyzer with soil chambers, multiplexers, controllers, soil temperature and moisture sensors, data acquisition hardware and flux-processing software. Value creation increases substantially as the product evolves from a simple CO? analyzer and manual chamber into an automated multi-gas platform capable of unattended measurements across multiple locations. Current systems range from compact portable instruments to long-term platforms supporting large numbers of chambers and remote operation. Downstream users include universities, ecological and agricultural research institutes, environmental laboratories, forest and wetland monitoring organizations, climate-science programs, agricultural experiment stations and organizations involved in carbon sequestration, restoration and greenhouse-gas mitigation. Instrument revenue is supplemented by chambers, analyzer upgrades, sensor expansion, calibration, maintenance, software support and system integration, producing a lifecycle business model rather than a purely one-time equipment transaction.

Segment Insights

From a gas-measurement perspective, CO?-focused Soil Gas Flux System remains the most mature and broadly deployed segment because soil respiration is a fundamental parameter in terrestrial carbon-cycle and ecological research. These systems generally use infrared CO? analysis and have lower instrument complexity and acquisition costs, supporting broad adoption by universities and research institutes. The higher-value development direction is multi-gas measurement, particularly integrated CO?/CH? and CO?/CH?/N?O systems. CH? measurement is increasingly relevant in wetlands, rice cultivation, landfills and anaerobic soils, while N?O is particularly important for fertilizer, agricultural soil and nitrogen-cycle research. Laser-spectroscopy platforms provide the precision needed for these trace-gas applications and therefore command substantially higher system value than conventional CO?-only instruments.

System architecture creates another important segmentation. Portable survey systems are optimized for mobility, rapid spatial sampling and shorter measurement campaigns, with a single chamber connected to an analyzer and real-time flux calculation. Long-term automated systems emphasize temporal resolution and unattended operation, using multiplexers or distributed nodes to repeatedly measure several locations. LI-COR's current architecture can expand long-term monitoring to as many as 36 chambers, while Chinese manufacturers have also introduced multi-channel, distributed and synchronous-sampling platforms. As a result, the product mix is moving toward a

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two-tier structure: portable systems addressing broader routine research demand and higher-value automated systems serving long-duration, multi-location greenhouse-gas programs.

Downstream Market Opportunities

Ecological and climate research remains the core application base, but incremental opportunities are becoming more diversified. Agricultural research is particularly important because soil management, fertilizer application, irrigation and cropping practices directly affect CO?, CH? and N?O emissions, creating demand for simultaneous multi-gas measurements and long-term field experiments. Wetland, rice-field and peatland studies favor CH?-capable systems, while nitrogen-management and fertilizer research require increasingly sensitive N?O measurements. Forest, grassland, permafrost and ecological-restoration projects demand longer deployment periods and integration with soil environmental sensors. In parallel, carbon-sequestration, regenerative-agriculture and greenhouse-gas mitigation programs are creating interest in measurement systems capable of supporting repeatable monitoring and verification workflows. These applications favor systems that combine reliable field hardware, automated operation, trace-gas sensitivity and standardized data processing rather than standalone concentration analyzers.

Regional Insights

North America and Europe remain technologically mature markets for Soil Gas Flux System, supported by established ecological research networks, universities, agricultural research institutions and leading scientific-instrument manufacturers. The United States is home to several confirmed system suppliers covering both high-end integrated platforms and specialized research instruments, while European manufacturers are active in soil respiration, gas-flux chambers, environmental monitoring and customized ecological measurement systems. Customer demand in these regions places relatively greater emphasis on long-term automation, trace-gas precision, multi-gas measurement, interoperability and analytical software, supporting higher-value system configurations.

China has developed into an increasingly important manufacturing and application market. The confirmed domestic supplier base now spans CO? soil respiration instruments, portable CO?/CH? and CO?/CH?/N?O systems, multiplexed platforms and distributed long-term monitoring systems. Current Chinese product development

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demonstrates a transition from lower-cost CO? measurement instruments toward laser-based multi-gas analyzers, automated chambers, IoT connectivity and synchronized monitoring architectures. Japan retains a specialized scientific-instrument presence, while broader opportunities in Asia are linked to agricultural greenhouse-gas research, rice cultivation, wetland emissions, ecosystem monitoring and national carbon-management programs. Regional competition is consequently evolving from a market dominated by imported scientific instruments toward a more differentiated structure combining established international platforms and increasingly capable domestic systems.

Competitive Landscape Analysis

The Soil Gas Flux System market is characterized by relatively specialized competition rather than large-volume general instrumentation. At the high end, LI-COR, PP Systems International, ADC BioScientific, Qubit Systems, Daiki Rika Kogyo, Orisha/West Systems, Vienna Scientific Instruments and Picarro represent different technology positions ranging from integrated soil flux platforms and CO? soil respiration instruments to laser-based mobile gas-flux systems. Competitive differentiation centers on gas-analyzer precision, chamber engineering, gas-species coverage, long-term automation, multiplexer scalability, environmental-sensor integration and software capability rather than on equipment price alone. LI-COR represents the most vertically integrated system architecture among the confirmed international suppliers, combining analyzers, chambers, multiplexing hardware and proprietary flux-processing software, while other suppliers compete through specialized portability, custom chamber systems or analytical technology. The Chinese competitive group—including LICA, PRI-ECO, Shenzhen Weilan Carbon Sink Technology, Shanghai Xigu Technology, Shandong Hengmei Electronic Technology, Shandong Leaneed Intelligent Technology, Shandong Laiyin Optoelectronic Technology, Shandong Wanxiang Environmental Technology, Shandong Santiyiqi, Zhejiang Top Cloud-Agri Technology and Shandong Tianyan Instruments—covers a wider price and performance spectrum. Domestic competition is moving beyond basic CO? soil respiration instruments toward multi-gas, laser-spectroscopy and long-term automated platforms, increasing substitution potential in research applications. The competitive boundary will increasingly be determined by measurement accuracy, field reliability, calibration traceability, software quality and the ability to deliver complete application workflows rather than by chamber hardware alone.

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Report Scope

This report studies the global Soil Gas Flux System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Soil Gas Flux System and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Soil Gas Flux System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Soil Gas Flux System total production and demand, 2021-2032, (K Units)

Global Soil Gas Flux System total production value, 2021-2032, (USD Million)

Global Soil Gas Flux System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Soil Gas Flux System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Soil Gas Flux System domestic production, consumption, key domestic manufacturers and share

Global Soil Gas Flux System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Soil Gas Flux System production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Soil Gas Flux System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Soil Gas Flux System market based on the

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following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ADC BioScientific Ltd., Qubit Systems Inc., LI-COR, Inc., PP Systems International, LLC, Daiki Rika Kogyo Co., Ltd., Orisha S.r.l. – West Systems, Vienna Scientific Instruments GmbH (VSI), Picarro, Inc., Beijing LICA United Technology Limited, Beijing PRI-ECO Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Soil Gas Flux System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (K US$/Unit) by manufacturer, by Structure, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Soil Gas Flux System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Soil Gas Flux System Market, Segmentation by Structure:

Portable Soil Gas Flux System

Automated Soil Gas Flux System

Multiplexed Soil Gas Flux System

Distributed Soil Gas Flux System

Global Soil Gas Flux System Market, Segmentation by Gas:

CO2 Soil Gas Flux System

CO2 and CH4 Soil Gas Flux System

CO2, CH4 and N2O Soil Gas Flux System

Multi-Species Soil Gas Flux System

Global Soil Gas Flux System Market, Segmentation by Technology:

Infrared Gas Analysis Soil Gas Flux System

NDIR Soil Gas Flux System

Laser Spectroscopy Soil Gas Flux System

Cavity-Enhanced Spectroscopy Soil Gas Flux System

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Global Soil Gas Flux System Market, Segmentation by Application:

Soil Respiration and Carbon Cycle Research

Agricultural Greenhouse Gas Monitoring

Forest and Grassland Ecosystem Research

Wetland and Rice Paddy Gas Flux Monitoring

Others

Companies Profiled:

ADC BioScientific Ltd.

Qubit Systems Inc.

LI-COR, Inc.

PP Systems International, LLC

Daiki Rika Kogyo Co., Ltd.

Orisha S.r.l. – West Systems

Vienna Scientific Instruments GmbH (VSI)

Picarro, Inc.

Beijing LICA United Technology Limited

Beijing PRI-ECO Technology Co., Ltd.

Shenzhen Weilan Carbon Sink Technology Co., Ltd.

Shanghai Xigu Technology Co., Ltd.

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Shandong Hengmei Electronic Technology Co., Ltd.

Shandong Leaneed Intelligent Technology Co., Ltd.

Shandong Laiyin Optoelectronic Technology Co., Ltd.

Shandong Wanxiang Environmental Technology Co., Ltd.

Shandong Santiyiqi Co., Ltd.

Zhejiang Top Cloud-Agri Technology Co., Ltd.

Shandong Tianyan Instruments Co., Ltd.

Key Questions Answered

1. How big is the global Soil Gas Flux System market?
2. What is the demand of the global Soil Gas Flux System market?
3. What is the year over year growth of the global Soil Gas Flux System market?
4. What is the total value of the global Soil Gas Flux System market?
5. Who are the Major Players in the global Soil Gas Flux System market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Soil Gas Flux System Introduction
1.2 World Soil Gas Flux System Supply & Forecast
  1.2.1 World Soil Gas Flux System Production Value (2021 & 2025 & 2032)
  1.2.2 World Soil Gas Flux System Production (2021-2032)
  1.2.3 World Soil Gas Flux System Pricing Trends (2021-2032)
1.3 World Soil Gas Flux System Production by Region (Based on Production Site)
  1.3.1 World Soil Gas Flux System Production Value by Region (2021-2032)
  1.3.2 World Soil Gas Flux System Production by Region (2021-2032)
  1.3.3 World Soil Gas Flux System Average Price by Region (2021-2032)
  1.3.4 North America Soil Gas Flux System Production (2021-2032)
  1.3.5 Europe Soil Gas Flux System Production (2021-2032)
  1.3.6 China Soil Gas Flux System Production (2021-2032)
  1.3.7 Japan Soil Gas Flux System Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Soil Gas Flux System Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Soil Gas Flux System Major Market Trends

2 DEMAND SUMMARY

2.1 World Soil Gas Flux System Demand (2021-2032)
2.2 World Soil Gas Flux System Consumption by Region
  2.2.1 World Soil Gas Flux System Consumption by Region (2021-2026)
  2.2.2 World Soil Gas Flux System Consumption Forecast by Region (2027-2032)
2.3 United States Soil Gas Flux System Consumption (2021-2032)
2.4 China Soil Gas Flux System Consumption (2021-2032)
2.5 Europe Soil Gas Flux System Consumption (2021-2032)
2.6 Japan Soil Gas Flux System Consumption (2021-2032)
2.7 South Korea Soil Gas Flux System Consumption (2021-2032)
2.8 ASEAN Soil Gas Flux System Consumption (2021-2032)
2.9 India Soil Gas Flux System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Soil Gas Flux System Production Value by Manufacturer (2021-2026)

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info@marketpublishers.com

3.2 World Soil Gas Flux System Production by Manufacturer (2021-2026)
3.3 World Soil Gas Flux System Average Price by Manufacturer (2021-2026)
3.4 Soil Gas Flux System Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Soil Gas Flux System Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Soil Gas Flux System in 2025
  3.5.3 Global Concentration Ratios (CR8) for Soil Gas Flux System in 2025
3.6 Soil Gas Flux System Market: Overall Company Footprint Analysis
  3.6.1 Soil Gas Flux System Market: Region Footprint
  3.6.2 Soil Gas Flux System Market: Company Product Type Footprint
  3.6.3 Soil Gas Flux System Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Soil Gas Flux System Production Value Comparison
  4.1.1 United States VS China: Soil Gas Flux System Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Soil Gas Flux System Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Soil Gas Flux System Production Comparison
  4.2.1 United States VS China: Soil Gas Flux System Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Soil Gas Flux System Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Soil Gas Flux System Consumption Comparison
  4.3.1 United States VS China: Soil Gas Flux System Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Soil Gas Flux System Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Soil Gas Flux System Manufacturers and Market Share, 2021-2026
  4.4.1 United States Based Soil Gas Flux System Manufacturers, Headquarters and Production Site (States, Country)

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info@marketpublishers.com

4.4.2 United States Based Manufacturers Soil Gas Flux System Production Value (2021-2026)
4.4.3 United States Based Manufacturers Soil Gas Flux System Production (2021-2026)
4.5 China Based Soil Gas Flux System Manufacturers and Market Share
4.5.1 China Based Soil Gas Flux System Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Soil Gas Flux System Production Value (2021-2026)
4.5.3 China Based Manufacturers Soil Gas Flux System Production (2021-2026)
4.6 Rest of World Based Soil Gas Flux System Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Soil Gas Flux System Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Soil Gas Flux System Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Soil Gas Flux System Production (2021-2026)

5 MARKET ANALYSIS BY STRUCTURE

5.1 World Soil Gas Flux System Market Size Overview by Structure: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Structure
5.2.1 Portable Soil Gas Flux System
5.2.2 Automated Soil Gas Flux System
5.2.3 Multiplexed Soil Gas Flux System
5.2.4 Distributed Soil Gas Flux System
5.3 Market Segment by Structure
5.3.1 World Soil Gas Flux System Production by Structure (2021-2032)
5.3.2 World Soil Gas Flux System Production Value by Structure (2021-2032)
5.3.3 World Soil Gas Flux System Average Price by Structure (2021-2032)

6 MARKET ANALYSIS BY GAS

6.1 World Soil Gas Flux System Market Size Overview by Gas: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Gas
6.2.1 CO2 Soil Gas Flux System
6.2.2 CO2 and CH4 Soil Gas Flux System
6.2.3 CO2, CH4 and N2O Soil Gas Flux System

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info@marketpublishers.com

6.2.4 Multi-Species Soil Gas Flux System
6.3 Market Segment by Gas
6.3.1 World Soil Gas Flux System Production by Gas (2021-2032)
6.3.2 World Soil Gas Flux System Production Value by Gas (2021-2032)
6.3.3 World Soil Gas Flux System Average Price by Gas (2021-2032)

7 MARKET ANALYSIS BY TECHNOLOGY

7.1 World Soil Gas Flux System Market Size Overview by Technology: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Technology
7.2.1 Infrared Gas Analysis Soil Gas Flux System
7.2.2 NDIR Soil Gas Flux System
7.2.3 Laser Spectroscopy Soil Gas Flux System
7.2.4 Cavity-Enhanced Spectroscopy Soil Gas Flux System
7.3 Market Segment by Technology
7.3.1 World Soil Gas Flux System Production by Technology (2021-2032)
7.3.2 World Soil Gas Flux System Production Value by Technology (2021-2032)
7.3.3 World Soil Gas Flux System Average Price by Technology (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Soil Gas Flux System Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Soil Respiration and Carbon Cycle Research
8.2.2 Agricultural Greenhouse Gas Monitoring
8.2.3 Forest and Grassland Ecosystem Research
8.2.4 Wetland and Rice Paddy Gas Flux Monitoring
8.2.5 Others
8.3 Market Segment by Application
8.3.1 World Soil Gas Flux System Production by Application (2021-2032)
8.3.2 World Soil Gas Flux System Production Value by Application (2021-2032)
8.3.3 World Soil Gas Flux System Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 ADC BioScientific Ltd.
9.1.1 ADC BioScientific Ltd. Details

+357 96 030922
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9.1.2 ADC BioScientific Ltd. Major Business
9.1.3 ADC BioScientific Ltd. Soil Gas Flux System Product and Services
9.1.4 ADC BioScientific Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 ADC BioScientific Ltd. Recent Developments/Updates
9.1.6 ADC BioScientific Ltd. Competitive Strengths & Weaknesses
9.2 Qubit Systems Inc.
9.2.1 Qubit Systems Inc. Details
9.2.2 Qubit Systems Inc. Major Business
9.2.3 Qubit Systems Inc. Soil Gas Flux System Product and Services
9.2.4 Qubit Systems Inc. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Qubit Systems Inc. Recent Developments/Updates
9.2.6 Qubit Systems Inc. Competitive Strengths & Weaknesses
9.3 LI-COR, Inc.
9.3.1 LI-COR, Inc. Details
9.3.2 LI-COR, Inc. Major Business
9.3.3 LI-COR, Inc. Soil Gas Flux System Product and Services
9.3.4 LI-COR, Inc. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 LI-COR, Inc. Recent Developments/Updates
9.3.6 LI-COR, Inc. Competitive Strengths & Weaknesses
9.4 PP Systems International, LLC
9.4.1 PP Systems International, LLC Details
9.4.2 PP Systems International, LLC Major Business
9.4.3 PP Systems International, LLC Soil Gas Flux System Product and Services
9.4.4 PP Systems International, LLC Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 PP Systems International, LLC Recent Developments/Updates
9.4.6 PP Systems International, LLC Competitive Strengths & Weaknesses
9.5 Daiki Rika Kogyo Co., Ltd.
9.5.1 Daiki Rika Kogyo Co., Ltd. Details
9.5.2 Daiki Rika Kogyo Co., Ltd. Major Business
9.5.3 Daiki Rika Kogyo Co., Ltd. Soil Gas Flux System Product and Services
9.5.4 Daiki Rika Kogyo Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Daiki Rika Kogyo Co., Ltd. Recent Developments/Updates
9.5.6 Daiki Rika Kogyo Co., Ltd. Competitive Strengths & Weaknesses
9.6 Orisha S.r.l. – West Systems

+357 96 030922
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9.6.1 Orisha S.r.l. – West Systems Details
9.6.2 Orisha S.r.l. – West Systems Major Business
9.6.3 Orisha S.r.l. – West Systems Soil Gas Flux System Product and Services
9.6.4 Orisha S.r.l. – West Systems Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Orisha S.r.l. – West Systems Recent Developments/Updates
9.6.6 Orisha S.r.l. – West Systems Competitive Strengths & Weaknesses
9.7 Vienna Scientific Instruments GmbH (VSI)
9.7.1 Vienna Scientific Instruments GmbH (VSI) Details
9.7.2 Vienna Scientific Instruments GmbH (VSI) Major Business
9.7.3 Vienna Scientific Instruments GmbH (VSI) Soil Gas Flux System Product and Services
9.7.4 Vienna Scientific Instruments GmbH (VSI) Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Vienna Scientific Instruments GmbH (VSI) Recent Developments/Updates
9.7.6 Vienna Scientific Instruments GmbH (VSI) Competitive Strengths & Weaknesses
9.8 Picarro, Inc.
9.8.1 Picarro, Inc. Details
9.8.2 Picarro, Inc. Major Business
9.8.3 Picarro, Inc. Soil Gas Flux System Product and Services
9.8.4 Picarro, Inc. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Picarro, Inc. Recent Developments/Updates
9.8.6 Picarro, Inc. Competitive Strengths & Weaknesses
9.9 Beijing LICA United Technology Limited
9.9.1 Beijing LICA United Technology Limited Details
9.9.2 Beijing LICA United Technology Limited Major Business
9.9.3 Beijing LICA United Technology Limited Soil Gas Flux System Product and Services
9.9.4 Beijing LICA United Technology Limited Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Beijing LICA United Technology Limited Recent Developments/Updates
9.9.6 Beijing LICA United Technology Limited Competitive Strengths & Weaknesses
9.10 Beijing PRI-ECO Technology Co., Ltd.
9.10.1 Beijing PRI-ECO Technology Co., Ltd. Details
9.10.2 Beijing PRI-ECO Technology Co., Ltd. Major Business
9.10.3 Beijing PRI-ECO Technology Co., Ltd. Soil Gas Flux System Product and Services
9.10.4 Beijing PRI-ECO Technology Co., Ltd. Soil Gas Flux System Production, Price,

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Value, Gross Margin and Market Share (2021-2026)
9.10.5 Beijing PRI-ECO Technology Co., Ltd. Recent Developments/Updates
9.10.6 Beijing PRI-ECO Technology Co., Ltd. Competitive Strengths & Weaknesses
9.11 Shenzhen Weilan Carbon Sink Technology Co., Ltd.
9.11.1 Shenzhen Weilan Carbon Sink Technology Co., Ltd. Details
9.11.2 Shenzhen Weilan Carbon Sink Technology Co., Ltd. Major Business
9.11.3 Shenzhen Weilan Carbon Sink Technology Co., Ltd. Soil Gas Flux System Product and Services
9.11.4 Shenzhen Weilan Carbon Sink Technology Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 Shenzhen Weilan Carbon Sink Technology Co., Ltd. Recent Developments/Updates
9.11.6 Shenzhen Weilan Carbon Sink Technology Co., Ltd. Competitive Strengths & Weaknesses
9.12 Shanghai Xigu Technology Co., Ltd.
9.12.1 Shanghai Xigu Technology Co., Ltd. Details
9.12.2 Shanghai Xigu Technology Co., Ltd. Major Business
9.12.3 Shanghai Xigu Technology Co., Ltd. Soil Gas Flux System Product and Services
9.12.4 Shanghai Xigu Technology Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Shanghai Xigu Technology Co., Ltd. Recent Developments/Updates
9.12.6 Shanghai Xigu Technology Co., Ltd. Competitive Strengths & Weaknesses
9.13 Shandong Hengmei Electronic Technology Co., Ltd.
9.13.1 Shandong Hengmei Electronic Technology Co., Ltd. Details
9.13.2 Shandong Hengmei Electronic Technology Co., Ltd. Major Business
9.13.3 Shandong Hengmei Electronic Technology Co., Ltd. Soil Gas Flux System Product and Services
9.13.4 Shandong Hengmei Electronic Technology Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 Shandong Hengmei Electronic Technology Co., Ltd. Recent Developments/Updates
9.13.6 Shandong Hengmei Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses
9.14 Shandong Leaneed Intelligent Technology Co., Ltd.
9.14.1 Shandong Leaneed Intelligent Technology Co., Ltd. Details
9.14.2 Shandong Leaneed Intelligent Technology Co., Ltd. Major Business
9.14.3 Shandong Leaneed Intelligent Technology Co., Ltd. Soil Gas Flux System Product and Services

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9.14.4 Shandong Leaneed Intelligent Technology Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Shandong Leaneed Intelligent Technology Co., Ltd. Recent Developments/Updates
9.14.6 Shandong Leaneed Intelligent Technology Co., Ltd. Competitive Strengths & Weaknesses
9.15 Shandong Laiyin Optoelectronic Technology Co., Ltd.
9.15.1 Shandong Laiyin Optoelectronic Technology Co., Ltd. Details
9.15.2 Shandong Laiyin Optoelectronic Technology Co., Ltd. Major Business
9.15.3 Shandong Laiyin Optoelectronic Technology Co., Ltd. Soil Gas Flux System Product and Services
9.15.4 Shandong Laiyin Optoelectronic Technology Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.15.5 Shandong Laiyin Optoelectronic Technology Co., Ltd. Recent Developments/Updates
9.15.6 Shandong Laiyin Optoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses
9.16 Shandong Wanxiang Environmental Technology Co., Ltd.
9.16.1 Shandong Wanxiang Environmental Technology Co., Ltd. Details
9.16.2 Shandong Wanxiang Environmental Technology Co., Ltd. Major Business
9.16.3 Shandong Wanxiang Environmental Technology Co., Ltd. Soil Gas Flux System Product and Services
9.16.4 Shandong Wanxiang Environmental Technology Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.16.5 Shandong Wanxiang Environmental Technology Co., Ltd. Recent Developments/Updates
9.16.6 Shandong Wanxiang Environmental Technology Co., Ltd. Competitive Strengths & Weaknesses
9.17 Shandong Santiyiqi Co., Ltd.
9.17.1 Shandong Santiyiqi Co., Ltd. Details
9.17.2 Shandong Santiyiqi Co., Ltd. Major Business
9.17.3 Shandong Santiyiqi Co., Ltd. Soil Gas Flux System Product and Services
9.17.4 Shandong Santiyiqi Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.17.5 Shandong Santiyiqi Co., Ltd. Recent Developments/Updates
9.17.6 Shandong Santiyiqi Co., Ltd. Competitive Strengths & Weaknesses
9.18 Zhejiang Top Cloud-Agri Technology Co., Ltd.
9.18.1 Zhejiang Top Cloud-Agri Technology Co., Ltd. Details
9.18.2 Zhejiang Top Cloud-Agri Technology Co., Ltd. Major Business

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9.18.3 Zhejiang Top Cloud-Agri Technology Co., Ltd. Soil Gas Flux System Product and Services
9.18.4 Zhejiang Top Cloud-Agri Technology Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.18.5 Zhejiang Top Cloud-Agri Technology Co., Ltd. Recent Developments/Updates
9.18.6 Zhejiang Top Cloud-Agri Technology Co., Ltd. Competitive Strengths & Weaknesses
9.19 Shandong Tianyan Instruments Co., Ltd.
9.19.1 Shandong Tianyan Instruments Co., Ltd. Details
9.19.2 Shandong Tianyan Instruments Co., Ltd. Major Business
9.19.3 Shandong Tianyan Instruments Co., Ltd. Soil Gas Flux System Product and Services
9.19.4 Shandong Tianyan Instruments Co., Ltd. Soil Gas Flux System Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.19.5 Shandong Tianyan Instruments Co., Ltd. Recent Developments/Updates
9.19.6 Shandong Tianyan Instruments Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Soil Gas Flux System Industry Chain
10.2 Soil Gas Flux System Upstream Analysis
10.2.1 Soil Gas Flux System Core Raw Materials
10.2.2 Main Manufacturers of Soil Gas Flux System Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Soil Gas Flux System Production Mode
10.6 Soil Gas Flux System Procurement Model
10.7 Soil Gas Flux System Industry Sales Model and Sales Channels
10.7.1 Soil Gas Flux System Sales Model
10.7.2 Soil Gas Flux System Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. World Soil Gas Flux System Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Soil Gas Flux System Production Value by Region (2021-2026) & (USD Million)
Table 3. World Soil Gas Flux System Production Value by Region (2027-2032) & (USD Million)
Table 4. World Soil Gas Flux System Production Value Market Share by Region (2021-2026)
Table 5. World Soil Gas Flux System Production Value Market Share by Region (2027-2032)
Table 6. World Soil Gas Flux System Production by Region (2021-2026) & (K Units)
Table 7. World Soil Gas Flux System Production by Region (2027-2032) & (K Units)
Table 8. World Soil Gas Flux System Production Market Share by Region (2021-2026)
Table 9. World Soil Gas Flux System Production Market Share by Region (2027-2032)
Table 10. World Soil Gas Flux System Average Price by Region (2021-2026) & (K US$/Unit)
Table 11. World Soil Gas Flux System Average Price by Region (2027-2032) & (K US$/Unit)
Table 12. Soil Gas Flux System Major Market Trends
Table 13. World Soil Gas Flux System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Soil Gas Flux System Consumption by Region (2021-2026) & (K Units)
Table 15. World Soil Gas Flux System Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Soil Gas Flux System Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Soil Gas Flux System Producers in 2025
Table 18. World Soil Gas Flux System Production by Manufacturer (2021-2026) & (K Units)
Table 19. Production Market Share of Key Soil Gas Flux System Producers in 2025
Table 20. World Soil Gas Flux System Average Price by Manufacturer (2021-2026) & (K US$/Unit)
Table 21. Global Soil Gas Flux System Company Evaluation Quadrant
Table 22. World Soil Gas Flux System Industry Rank of Major Manufacturers, Based on

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Production Value in 2025
Table 23. Head Office and Soil Gas Flux System Production Site of Key Manufacturer
Table 24. Soil Gas Flux System Market: Company Product Type Footprint
Table 25. Soil Gas Flux System Market: Company Product Application Footprint
Table 26. Soil Gas Flux System Competitive Factors
Table 27. Soil Gas Flux System New Entrant and Capacity Expansion Plans
Table 28. Soil Gas Flux System Mergers & Acquisitions Activity
Table 29. United States VS China Soil Gas Flux System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Soil Gas Flux System Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Soil Gas Flux System Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Soil Gas Flux System Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Soil Gas Flux System Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Soil Gas Flux System Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Soil Gas Flux System Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Soil Gas Flux System Production Market Share (2021-2026)
Table 37. China Based Soil Gas Flux System Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Soil Gas Flux System Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Soil Gas Flux System Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Soil Gas Flux System Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Soil Gas Flux System Production Market Share (2021-2026)
Table 42. Rest of World Based Soil Gas Flux System Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Soil Gas Flux System Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Soil Gas Flux System Production Value Market Share (2021-2026)

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Table 45. Rest of World Based Manufacturers Soil Gas Flux System Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Soil Gas Flux System Production Market Share (2021-2026)
Table 47. World Soil Gas Flux System Production Value by Structure, (USD Million), 2021 & 2025 & 2032
Table 48. World Soil Gas Flux System Production by Structure (2021-2026) & (K Units)
Table 49. World Soil Gas Flux System Production by Structure (2027-2032) & (K Units)
Table 50. World Soil Gas Flux System Production Value by Structure (2021-2026) & (USD Million)
Table 51. World Soil Gas Flux System Production Value by Structure (2027-2032) & (USD Million)
Table 52. World Soil Gas Flux System Average Price by Structure (2021-2026) & (K US$/Unit)
Table 53. World Soil Gas Flux System Average Price by Structure (2027-2032) & (K US$/Unit)
Table 54. World Soil Gas Flux System Production Value by Gas, (USD Million), 2021 & 2025 & 2032
Table 55. World Soil Gas Flux System Production by Gas (2021-2026) & (K Units)
Table 56. World Soil Gas Flux System Production by Gas (2027-2032) & (K Units)
Table 57. World Soil Gas Flux System Production Value by Gas (2021-2026) & (USD Million)
Table 58. World Soil Gas Flux System Production Value by Gas (2027-2032) & (USD Million)
Table 59. World Soil Gas Flux System Average Price by Gas (2021-2026) & (K US$/Unit)
Table 60. World Soil Gas Flux System Average Price by Gas (2027-2032) & (K US$/Unit)
Table 61. World Soil Gas Flux System Production Value by Technology, (USD Million), 2021 & 2025 & 2032
Table 62. World Soil Gas Flux System Production by Technology (2021-2026) & (K Units)
Table 63. World Soil Gas Flux System Production by Technology (2027-2032) & (K Units)
Table 64. World Soil Gas Flux System Production Value by Technology (2021-2026) & (USD Million)
Table 65. World Soil Gas Flux System Production Value by Technology (2027-2032) & (USD Million)
Table 66. World Soil Gas Flux System Average Price by Technology (2021-2026) & (K

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US$/Unit)
Table 67. World Soil Gas Flux System Average Price by Technology (2027-2032) & (K US$/Unit)
Table 68. World Soil Gas Flux System Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Soil Gas Flux System Production by Application (2021-2026) & (K Units)
Table 70. World Soil Gas Flux System Production by Application (2027-2032) & (K Units)
Table 71. World Soil Gas Flux System Production Value by Application (2021-2026) & (USD Million)
Table 72. World Soil Gas Flux System Production Value by Application (2027-2032) & (USD Million)
Table 73. World Soil Gas Flux System Average Price by Application (2021-2026) & (K US$/Unit)
Table 74. World Soil Gas Flux System Average Price by Application (2027-2032) & (K US$/Unit)
Table 75. ADC BioScientific Ltd. Basic Information, Manufacturing Base and Competitors
Table 76. ADC BioScientific Ltd. Major Business
Table 77. ADC BioScientific Ltd. Soil Gas Flux System Product and Services
Table 78. ADC BioScientific Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. ADC BioScientific Ltd. Recent Developments/Updates
Table 80. ADC BioScientific Ltd. Competitive Strengths & Weaknesses
Table 81. Qubit Systems Inc. Basic Information, Manufacturing Base and Competitors
Table 82. Qubit Systems Inc. Major Business
Table 83. Qubit Systems Inc. Soil Gas Flux System Product and Services
Table 84. Qubit Systems Inc. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Qubit Systems Inc. Recent Developments/Updates
Table 86. Qubit Systems Inc. Competitive Strengths & Weaknesses
Table 87. LI-COR, Inc. Basic Information, Manufacturing Base and Competitors
Table 88. LI-COR, Inc. Major Business
Table 89. LI-COR, Inc. Soil Gas Flux System Product and Services
Table 90. LI-COR, Inc. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 91. LI-COR, Inc. Recent Developments/Updates
Table 92. LI-COR, Inc. Competitive Strengths & Weaknesses
Table 93. PP Systems International, LLC Basic Information, Manufacturing Base and Competitors
Table 94. PP Systems International, LLC Major Business
Table 95. PP Systems International, LLC Soil Gas Flux System Product and Services
Table 96. PP Systems International, LLC Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. PP Systems International, LLC Recent Developments/Updates
Table 98. PP Systems International, LLC Competitive Strengths & Weaknesses
Table 99. Daiki Rika Kogyo Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 100. Daiki Rika Kogyo Co., Ltd. Major Business
Table 101. Daiki Rika Kogyo Co., Ltd. Soil Gas Flux System Product and Services
Table 102. Daiki Rika Kogyo Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Daiki Rika Kogyo Co., Ltd. Recent Developments/Updates
Table 104. Daiki Rika Kogyo Co., Ltd. Competitive Strengths & Weaknesses
Table 105. Orisha S.r.l. – West Systems Basic Information, Manufacturing Base and Competitors
Table 106. Orisha S.r.l. – West Systems Major Business
Table 107. Orisha S.r.l. – West Systems Soil Gas Flux System Product and Services
Table 108. Orisha S.r.l. – West Systems Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Orisha S.r.l. – West Systems Recent Developments/Updates
Table 110. Orisha S.r.l. – West Systems Competitive Strengths & Weaknesses
Table 111. Vienna Scientific Instruments GmbH (VSI) Basic Information, Manufacturing Base and Competitors
Table 112. Vienna Scientific Instruments GmbH (VSI) Major Business
Table 113. Vienna Scientific Instruments GmbH (VSI) Soil Gas Flux System Product and Services
Table 114. Vienna Scientific Instruments GmbH (VSI) Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Vienna Scientific Instruments GmbH (VSI) Recent Developments/Updates
Table 116. Vienna Scientific Instruments GmbH (VSI) Competitive Strengths &

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Weaknesses
Table 117. Picarro, Inc. Basic Information, Manufacturing Base and Competitors
Table 118. Picarro, Inc. Major Business
Table 119. Picarro, Inc. Soil Gas Flux System Product and Services
Table 120. Picarro, Inc. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Picarro, Inc. Recent Developments/Updates
Table 122. Picarro, Inc. Competitive Strengths & Weaknesses
Table 123. Beijing LICA United Technology Limited Basic Information, Manufacturing Base and Competitors
Table 124. Beijing LICA United Technology Limited Major Business
Table 125. Beijing LICA United Technology Limited Soil Gas Flux System Product and Services
Table 126. Beijing LICA United Technology Limited Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Beijing LICA United Technology Limited Recent Developments/Updates
Table 128. Beijing LICA United Technology Limited Competitive Strengths & Weaknesses
Table 129. Beijing PRI-ECO Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 130. Beijing PRI-ECO Technology Co., Ltd. Major Business
Table 131. Beijing PRI-ECO Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 132. Beijing PRI-ECO Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Beijing PRI-ECO Technology Co., Ltd. Recent Developments/Updates
Table 134. Beijing PRI-ECO Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 135. Shenzhen Weilan Carbon Sink Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 136. Shenzhen Weilan Carbon Sink Technology Co., Ltd. Major Business
Table 137. Shenzhen Weilan Carbon Sink Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 138. Shenzhen Weilan Carbon Sink Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Shenzhen Weilan Carbon Sink Technology Co., Ltd. Recent

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Developments/Updates
Table 140. Shenzhen Weilan Carbon Sink Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 141. Shanghai Xigu Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 142. Shanghai Xigu Technology Co., Ltd. Major Business
Table 143. Shanghai Xigu Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 144. Shanghai Xigu Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Shanghai Xigu Technology Co., Ltd. Recent Developments/Updates
Table 146. Shanghai Xigu Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 147. Shandong Hengmei Electronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 148. Shandong Hengmei Electronic Technology Co., Ltd. Major Business
Table 149. Shandong Hengmei Electronic Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 150. Shandong Hengmei Electronic Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Shandong Hengmei Electronic Technology Co., Ltd. Recent Developments/Updates
Table 152. Shandong Hengmei Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 153. Shandong Leaneed Intelligent Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 154. Shandong Leaneed Intelligent Technology Co., Ltd. Major Business
Table 155. Shandong Leaneed Intelligent Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 156. Shandong Leaneed Intelligent Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Shandong Leaneed Intelligent Technology Co., Ltd. Recent Developments/Updates
Table 158. Shandong Leaneed Intelligent Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 159. Shandong Laiyin Optoelectronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

+357 96 030922
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Table 160. Shandong Laiyin Optoelectronic Technology Co., Ltd. Major Business
Table 161. Shandong Laiyin Optoelectronic Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 162. Shandong Laiyin Optoelectronic Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Shandong Laiyin Optoelectronic Technology Co., Ltd. Recent Developments/Updates
Table 164. Shandong Laiyin Optoelectronic Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 165. Shandong Wanxiang Environmental Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 166. Shandong Wanxiang Environmental Technology Co., Ltd. Major Business
Table 167. Shandong Wanxiang Environmental Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 168. Shandong Wanxiang Environmental Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Shandong Wanxiang Environmental Technology Co., Ltd. Recent Developments/Updates
Table 170. Shandong Wanxiang Environmental Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 171. Shandong Santiyiqi Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 172. Shandong Santiyiqi Co., Ltd. Major Business
Table 173. Shandong Santiyiqi Co., Ltd. Soil Gas Flux System Product and Services
Table 174. Shandong Santiyiqi Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Shandong Santiyiqi Co., Ltd. Recent Developments/Updates
Table 176. Shandong Santiyiqi Co., Ltd. Competitive Strengths & Weaknesses
Table 177. Zhejiang Top Cloud-Agri Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 178. Zhejiang Top Cloud-Agri Technology Co., Ltd. Major Business
Table 179. Zhejiang Top Cloud-Agri Technology Co., Ltd. Soil Gas Flux System Product and Services
Table 180. Zhejiang Top Cloud-Agri Technology Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 181. Zhejiang Top Cloud-Agri Technology Co., Ltd. Recent Developments/Updates
Table 182. Zhejiang Top Cloud-Agri Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 183. Shandong Tianyan Instruments Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 184. Shandong Tianyan Instruments Co., Ltd. Major Business
Table 185. Shandong Tianyan Instruments Co., Ltd. Soil Gas Flux System Product and Services
Table 186. Shandong Tianyan Instruments Co., Ltd. Soil Gas Flux System Production (K Units), Price (K US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. Shandong Tianyan Instruments Co., Ltd. Recent Developments/Updates
Table 188. Shandong Tianyan Instruments Co., Ltd. Competitive Strengths & Weaknesses
Table 189. Global Key Players of Soil Gas Flux System Upstream (Raw Materials)
Table 190. Global Soil Gas Flux System Typical Customers
Table 191. Soil Gas Flux System Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Soil Gas Flux System Picture
Figure 2. World Soil Gas Flux System Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Soil Gas Flux System Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Soil Gas Flux System Production (2021-2032) & (K Units)
Figure 5. World Soil Gas Flux System Average Price (2021-2032) & (K US$/Unit)
Figure 6. World Soil Gas Flux System Production Value Market Share by Region (2021-2032)
Figure 7. World Soil Gas Flux System Production Market Share by Region (2021-2032)
Figure 8. North America Soil Gas Flux System Production (2021-2032) & (K Units)
Figure 9. Europe Soil Gas Flux System Production (2021-2032) & (K Units)
Figure 10. China Soil Gas Flux System Production (2021-2032) & (K Units)
Figure 11. Japan Soil Gas Flux System Production (2021-2032) & (K Units)
Figure 12. Soil Gas Flux System Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 15. World Soil Gas Flux System Consumption Market Share by Region (2021-2032)
Figure 16. United States Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 17. China Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 18. Europe Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 19. Japan Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 20. South Korea Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 21. ASEAN Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 22. India Soil Gas Flux System Consumption (2021-2032) & (K Units)
Figure 23. Producer Shipments of Soil Gas Flux System by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Soil Gas Flux System Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Soil Gas Flux System Markets in 2025
Figure 26. United States VS China: Soil Gas Flux System Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Soil Gas Flux System Production Market Share

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Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Soil Gas Flux System Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Soil Gas Flux System Production Market Share 2025
Figure 30. China Based Manufacturers Soil Gas Flux System Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Soil Gas Flux System Production Market Share 2025
Figure 32. World Soil Gas Flux System Production Value by Structure, (USD Million), 2021 & 2025 & 2032
Figure 33. World Soil Gas Flux System Production Value Market Share by Structure in 2025
Figure 34. Portable Soil Gas Flux System
Figure 35. Automated Soil Gas Flux System
Figure 36. Multiplexed Soil Gas Flux System
Figure 37. Distributed Soil Gas Flux System
Figure 38. World Soil Gas Flux System Production Market Share by Structure (2021-2032)
Figure 39. World Soil Gas Flux System Production Value Market Share by Structure (2021-2032)
Figure 40. World Soil Gas Flux System Average Price by Structure (2021-2032) & (K US$/Unit)
Figure 41. World Soil Gas Flux System Production Value by Gas, (USD Million), 2021 & 2025 & 2032
Figure 42. World Soil Gas Flux System Production Value Market Share by Gas in 2025
Figure 43. CO2 Soil Gas Flux System
Figure 44. CO2 and CH4 Soil Gas Flux System
Figure 45. CO2, CH4 and N2O Soil Gas Flux System
Figure 46. Multi-Species Soil Gas Flux System
Figure 47. World Soil Gas Flux System Production Market Share by Gas (2021-2032)
Figure 48. World Soil Gas Flux System Production Value Market Share by Gas (2021-2032)
Figure 49. World Soil Gas Flux System Average Price by Gas (2021-2032) & (K US$/Unit)
Figure 50. World Soil Gas Flux System Production Value by Technology, (USD Million), 2021 & 2025 & 2032
Figure 51. World Soil Gas Flux System Production Value Market Share by Technology in 2025

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Figure 52. Infrared Gas Analysis Soil Gas Flux System
Figure 53. NDIR Soil Gas Flux System
Figure 54. Laser Spectroscopy Soil Gas Flux System
Figure 55. Cavity-Enhanced Spectroscopy Soil Gas Flux System
Figure 56. World Soil Gas Flux System Production Market Share by Technology (2021-2032)
Figure 57. World Soil Gas Flux System Production Value Market Share by Technology (2021-2032)
Figure 58. World Soil Gas Flux System Average Price by Technology (2021-2032) & (K US$/Unit)
Figure 59. World Soil Gas Flux System Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 60. World Soil Gas Flux System Production Value Market Share by Application in 2025
Figure 61. Soil Respiration and Carbon Cycle Research
Figure 62. Agricultural Greenhouse Gas Monitoring
Figure 63. Forest and Grassland Ecosystem Research
Figure 64. Wetland and Rice Paddy Gas Flux Monitoring
Figure 65. Others
Figure 66. World Soil Gas Flux System Production Market Share by Application (2021-2032)
Figure 67. World Soil Gas Flux System Production Value Market Share by Application (2021-2032)
Figure 68. World Soil Gas Flux System Average Price by Application (2021-2032) & (K US$/Unit)
Figure 69. Soil Gas Flux System Industry Chain
Figure 70. Soil Gas Flux System Procurement Model
Figure 71. Soil Gas Flux System Sales Model
Figure 72. Soil Gas Flux System Sales Channels, Direct Sales, and Distribution
Figure 73. Methodology
Figure 74. Research Process and Data Source

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