

U.S. Breath Analyzers Market Size, Share & Trends Analysis Report By Technology (Fuel Cell, Semiconductor Sensor, Infrared Spectroscopy), By Application (Alcohol Detection, Drug Abuse Detection), By End-use, And Segment Forecasts, 2022 - 2030

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Abstracts

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U.S. Breath Analyzers Market Growth & Trends

The U.S. breath analyzers market size is expected to reach USD 3.1 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 15.4% from 2022 to 2030. Growing demand for breath analyzers from law enforcement agencies and other institutions such as schools, sports, and offices to minimize alcohol abuse is a major market driver. Early diagnosis of diseases such as cancer, tuberculosis, and Chronic Obstructive Pulmonary Disease (COPD) plays a key role in the success rate of their treatment. Breath analyzers offer a quick primary diagnosis based on exhaled air contents.

Growing applications in private use such as measurement of breath Carbon Monoxide (CO) in smoking cessation activities are expected to boost market growth during the forecast period. During the COVID-19 pandemic, the breathalyzer market experienced a downturn as most commercial activities were halted. Owing to a close in production units and an interruption in the supply chain, most main revenue-generating end-users of the market were impacted, resulting reduction in sales of breath analyzers. However, the COVID-19 pandemic brought about a series of changes across industries.

For instance, the U.S. Department of Transportation announced that in the future new cars will be equipped with alcohol-sensing start buttons, which will prevent them from moving if it detects alcohol. Hence, it is expected that the market will witness the introduction of novel, innovative technologies, and new product launches during the forecast period, in turn, positively impacting growth. The growing prevalence of noncommunicable illnesses, along with the high rate of infectious diseases, is driving the double disease burden across the world. Hence, there is a significant demand for cheap, accessible, and ruggedized diagnostic tools that detect diseases early and direct patients to the right treatment channels.

Furthermore, the growing number of road accidents due to drunk driving and drug abuse has augmented the demand for breath analyzers, as these devices help monitor the presence of different compounds and measure the blood alcohol content in a breath sample. Sometimes breath analyzers provide inaccurate results, failing to differentiate alcohol from any other chemical compound that holds a methyl group structure. Some alcohol testing machines recognize not only ethyl alcohol but also any compound with a similar molecular structure. Thus, accuracy concerns pertaining to breath analyzers are expected to limit market growth.

U.S. Breath Analyzers Market Report Highlights

The fuel cell segment held a substantial share of over 33.0% in 2021, owing to the various benefits such as the compact size of devices and minimum power requirements, fuel cell technology has become a gold standard for hand-held devices

The IR spectroscopy segment is expected to register a CAGR of 16.0% over the forecast period. Most of the breath analyzers are presently used for evidential purposes, use IR spectrometry. Infrared analysis is a non-destructive technology. Thus, such benefits are likely to support segment growth

The alcohol detection segment accounted for the revenue share of over 49.0% in 2021 owing to stringent laws relating to drinking and driving, rising alcohol consumption, and growing usage of personal breath analyzers

On the basis of end-use, the others segment is expected to exhibit lucrative growth during the forecast period. High crime rate in certain parts and strict drug testing regulations implemented by governments in the nation support segment

growth

There are increasing number of partnerships and collaborations being undertaken in this market to gain higher market share. Besides, market players engage in mergers and acquisitions to strengthen their market position

In May 2020, Alcohol Countermeasure Systems Corp, an international group of companies involved in public safety, announced agreement with Ontario Ministry of Transportation for 5 years. ALCOLOCK Canada, division of Alcohol Countermeasure Systems Corp, was selected by the Ontario Ministry of Transportation

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation and Scope
 - 1.1.1 Segment Scope
 - 1.1.2 Estimates And Forecast Timeline
- 1.2 Research Methodology
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 GVR's Internal Database
 - 1.3.3 Secondary Sources
 - 1.3.4 Primary Research
- 1.4 Information or Data Analysis
 - 1.4.1 Market Formulation & Validation
 - 1.4.2 Data Analysis Models
- 1.5 Market Formulation & Validation
 - 1.5.1 Primary Validation
- 1.6 Model Details
 - 1.6.1 Commodity Flow Analysis
- 1.7 List of Secondary Sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 U.S. Breath Analyzers Market Summary

CHAPTER 3 U.S. BREATH ANALYZERS MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Market Lineage Outlook
 - 3.1.1 Parent Market Analysis
 - 3.1.2 Ancillary Market Analysis
- 3.2 Penetration and Growth Prospect Mapping, 2021
- 3.3 U.S. Breath Analyzers Market Dynamics
 - 3.3.1 Market Driver Analysis
 - 3.3.2 Market Restraint Analysis
- 3.4 U.S. Breath Analyzers Market Analysis Tools: PESTL
 - 3.4.1 Political & Legal
 - 3.4.2 Economic & Social
 - 3.4.3 Technology

3.5 U.S. Breath Analyzers Market Analysis Tools: Porter's

CHAPTER 4 U.S. BREATH ANALYZERS MARKET: COVID-19 IMPACT ANALYSIS

4.1 COVID-19 Impact Analysis

4.1.1 Disease Prevalence Analysis

4.1.2 Current Impact Analysis

4.1.3 Future Impact Analysis

4.1.4 Impact On Market Players

CHAPTER 5 U.S. BREATH ANALYZERS MARKET: SEGMENT ANALYSIS, BY TECHNOLOGY, 2017- 2030 (REVENUE, USD MILLION)

5.1 Technology Market Share Analysis, 2021 & 2030

5.2 U.S. Breath Analyzers Market, by Technology, 2017 to 2030

5.3 Fuel Cell Technology

5.3.1 Fuel cell technology market estimates and forecasts, 2017 - 2030 (USD Million)

5.4 Semiconductor Sensor

5.4.1 Semiconductor sensor market estimates and forecasts, 2017 - 2030 (USD Million)

5.5 Infrared (IR) Spectroscopy

5.5.1 Infrared (IR) spectroscopy market estimates and forecasts, 2017 - 2030 (USD Million)

5.6 Others

5.6.1 Others market estimates and forecasts, 2017 - 2030 (USD Million)

CHAPTER 6 U.S. BREATH ANALYZERS MARKET: SEGMENT ANALYSIS, BY APPLICATION, 2017 - 2030 (REVENUE, USD MILLION)

6.1 Application Market Share Analysis, 2021 & 2030

6.2 U.S. Breath Analyzers Market, by Application, 2017 to 2030

6.3 Drug Abuse Detection

6.3.1 Drug abuse detection market estimates and forecasts, 2017 - 2030 (USD Million)

6.4 Alcohol Detection

6.4.1 Alcohol detection market estimates and forecasts, 2017 - 2030 (USD Million)

6.5 Medical Applications

6.5.1 Medical applications market estimates and forecasts, 2017 - 2030 (USD Million)

CHAPTER 7 U.S. BREATH ANALYZERS MARKET: SEGMENT ANALYSIS, BY END

USE, 2017 - 2030 (REVENUE, USD MILLION)

7.1 End-use Market Share Analysis, 2021 & 2030

7.2 U.S. Breath Analyzers Market, By End Use, 2017 to 2030

7.3 Law Enforcement Agencies

7.3.1 Law enforcement agencies market estimates and forecasts, 2017 - 2030 (USD Million)

7.4 Individuals

7.4.1 Individuals market estimates and forecasts, 2017 - 2030 (USD Million)

7.5 Others

7.5.1 Others market estimates and forecasts, 2017 - 2030 (USD Million)

CHAPTER 8 U.S. BREATH ANALYZERS MARKET - COMPANY PROFILES

8.1 Company Profiles

8.1.1 Drägerwerk AG & Co. KGaA

8.1.1.1 Company overview

8.1.1.2 Financial performance

8.1.1.3 Product benchmarking

8.1.1.4 Strategic initiatives

8.1.2 Lifeloc Technologies, Inc.

8.1.2.1 Company overview

8.1.2.2 Financial performance

8.1.2.3 Product benchmarking

8.1.2.4 Strategic initiatives

8.1.3 Quest Products, LLC.

8.1.3.1 Company overview

8.1.3.2 Financial performance

8.1.3.3 Product benchmarking

8.1.3.4 Strategic initiatives

8.1.4 Intoximeters

8.1.4.1 Company overview

8.1.4.2 Financial performance

8.1.4.3 Product benchmarking

8.1.4.4 Strategic initiatives

8.1.5 Alcohol Countermeasure Systems Corp.

8.1.5.1 Company overview

8.1.5.2 Financial performance

8.1.5.3 Product benchmarking

- 8.1.5.4 Strategic initiatives
- 8.1.6 AK GlobalTech Corp.
 - 8.1.6.1 Company overview
 - 8.1.6.2 Financial performance
 - 8.1.6.3 Product benchmarking
- 8.1.7 PAS Systems International, Inc
 - 8.1.7.1 Company overview
 - 8.1.7.2 Financial performance
 - 8.1.7.3 Product benchmarking
- 8.1.8 MyMD Pharmaceuticals
 - 8.1.8.1 Company overview
 - 8.1.8.2 Financial performance
 - 8.1.8.3 Product benchmarking
 - 8.1.8.4 Strategic initiatives
- 8.1.9 BACtrack
 - 8.1.9.1 Company overview
 - 8.1.9.2 Financial performance
 - 8.1.9.3 Product benchmarking
 - 8.1.9.4 Strategic initiatives
- 8.1.10 Lion Laboratories (CMI INC.)
 - 8.1.10.1 Company overview
 - 8.1.10.2 Financial performance
 - 8.1.10.3 Product benchmarking
 - 8.1.10.4 Strategic initiatives
- 8.1.11 Advanced Safety Devices
 - 8.1.11.1 Company overview
 - 8.1.11.2 Financial performance
 - 8.1.11.3 Product benchmarking
- 8.2 Market Participant Categorization
- 8.3 Public Companies
 - 8.3.1 Company market position analysis
 - 8.3.2 Synergy analysis: major deals & strategic alliances
- 8.4 Private Companies

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of private companies

Table 3 U.S. Breath Analyzers Market, By Technology, 2017 - 2030 (USD Million)

Table 4 U.S. Breath Analyzers Market, By Application, 2017 - 2030 (USD Million)

Table 5 U.S. Breath Analyzers Market, By End Use, 2017 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 U.S. Breath Analyzers market segmentation
- Fig. 2 Methodology
- Fig. 3 Market research process
- Fig. 4 Data triangulation techniques
- Fig. 5 Primary research pattern
- Fig. 6 Primary research process
- Fig. 7 Market research approaches
- Fig. 8 Value-chain-based sizing & forecasting
- Fig. 9 QFD modeling for market share assessment
- Fig. 10 Market formulation & validation
- Fig. 11 U.S. breath analyzers market, 2017 - 2030 (USD million)
- Fig. 12 U.S. Breath Analyzers Market outlook 2021 (USD Million)
- Fig. 13 Parent market analysis
- Fig. 14 Ancillary market analysis
- Fig. 15 Penetration & growth prospect mapping by technology, 2021
- Fig. 16 U.S. Breath Analyzers market dynamics analysis
- Fig. 17 U.S. Breath Analyzers market driver analysis
- Fig. 18 U.S. Breath Analyzers market restraint analysis
- Fig. 19 U.S. Breath Analyzers Market Analysis Tools: Porter's
- Fig. 20 COVID-19 confirmed cases in the U.S.
- Fig. 21 U.S. Breath Analyzers market: Technology movement analysis
- Fig. 22 U.S. Breath Analyzers market technology outlook: Key takeaways
- Fig. 23 Fuel cell technology market, 2017 - 2030 (USD million)
- Fig. 24 Semiconductor sensor market, 2017 - 2030 (USD million)
- Fig. 25 Infrared (IR) spectroscopy market, 2017 - 2030 (USD million)
- Fig. 26 Others market, 2017 - 2030 (USD million)
- Fig. 27 U.S. Breath Analyzers market: Application movement analysis
- Fig. 28 U.S. Breath Analyzers market application outlook: Key takeaways
- Fig. 29 Drug abuse detection market, 2017 - 2030 (USD million)
- Fig. 30 Alcohol detection market, 2017 - 2030 (USD million)
- Fig. 31 Medical applications market, 2017 - 2030 (USD million)
- Fig. 32 U.S. Breath Analyzers market: End-use movement analysis
- Fig. 33 U.S. Breath Analyzers market end-use outlook: Key takeaways
- Fig. 34 Law enforcement agencies market, 2017 - 2030 (USD million)
- Fig. 35 Individuals market, 2017 - 2030 (USD million)

Fig. 36 Others market, 2017 - 2030 (USD million)

Fig. 37 Market participant categorization

Fig. 38 U.S. Breath Analyzers: Company market position analysis

Fig. 39 Strategy mapping

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