

Global Thermal Desorption Unit (TDU) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermal Desorption Unit (TDU) market size is expected to reach \$ 1580 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Thermal Desorption Units (TDU) are industrial environmental remediation equipment designed to remove volatile and semi-volatile organic contaminants from soil, sludge, and solid waste through controlled heating processes. The system heats contaminated materials to separate pollutants without combustion, enabling effective treatment of industrially contaminated sites, oilfield waste, and chemical residues. TDUs are widely used in environmental remediation projects and hazardous waste treatment applications. The industrial chain of Thermal Desorption Units includes upstream components such as burners, heating chambers, rotary kilns, refractory materials, control systems, sensors, and emission treatment units. The midstream consists of environmental equipment manufacturers that design and assemble thermal desorption systems integrating thermal processing, feeding mechanisms, and gas treatment technologies. Downstream applications include soil remediation contractors, oil and gas companies, chemical plants, environmental engineering firms, and hazardous waste treatment operators. Supporting services include installation, system commissioning, environmental compliance consulting, maintenance, and operational optimization to ensure safe and efficient contaminant removal. In 2025, global Thermal Desorption Unit production reached approximately 2,250 units, with an average global market price of around US\$400,000 per unit. The gross profit margin of major companies in the industry is between 35%-55%. In 2025, the global production capacity of Thermal Desorption Units was approximately 3,000 units.

The thermal desorption unit market is growing steadily due to increasing global focus on

environmental remediation, soil decontamination, and industrial waste management. Stricter environmental regulations and rising awareness of soil pollution caused by industrial activities, oil spills, and chemical contamination are driving demand for advanced treatment technologies. TDUs are widely adopted in oil and gas industries, chemical manufacturing, and large-scale infrastructure redevelopment projects where contaminated soil must be treated before reuse or disposal. Technological improvements in energy efficiency, emission control, and system automation are enhancing operational performance and reducing environmental impact. However, high capital investment and operational costs limit adoption in smaller projects, making the market more concentrated in large-scale industrial applications. Overall, the industry is expected to grow steadily, supported by regulatory pressure, industrial cleanup requirements, and long-term environmental sustainability initiatives.

This report studies the global Thermal Desorption Unit (TDU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal Desorption Unit (TDU) 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 Thermal Desorption Unit (TDU) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal Desorption Unit (TDU) total production and demand, 2021-2032, (Units)

Global Thermal Desorption Unit (TDU) total production value, 2021-2032, (USD Million)

Global Thermal Desorption Unit (TDU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Thermal Desorption Unit (TDU) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thermal Desorption Unit (TDU) domestic production, consumption, key domestic manufacturers and share

Global Thermal Desorption Unit (TDU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thermal Desorption Unit (TDU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thermal Desorption Unit (TDU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thermal Desorption Unit (TDU) market based on the 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 PerkinElmer, GERSTEL, RLC Technologies, Beston Group, Jereh Environmental Protection Technology Co., Ltd., TerraTherm, Mitsubishi Heavy Industries Environmental Systems, 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 Thermal Desorption Unit (TDU) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Thermal Desorption Unit (TDU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Desorption Unit (TDU) Market, Segmentation by Type:

Ectopic Thermal Desorption

In-situ Thermal Desorption

Global Thermal Desorption Unit (TDU) Market, Segmentation by Operating Temperature Range:

Low-temperature Thermal Desorption: 100?250?C

Medium-temperature Thermal Desorption: 250?400?C

Standard Industrial TDU: 400?600?C

High-temperature Enhanced Desorption: 600?800?C

Thermolytic Desorption System: ?800?1,200?C

Global Thermal Desorption Unit (TDU) Market, Segmentation by Heating Method:

Indirect Heated Thermal Desorption System

Direct Fired Thermal Desorption Unit

Electric Heating TDU System

Infrared Thermal Desorption System

Global Thermal Desorption Unit (TDU) Market, Segmentation by Application:

Soil Remediation

Waste Management

Others

Companies Profiled:

PerkinElmer

GERSTEL

RLC Technologies

Beston Group

Jereh Environmental Protection Technology Co., Ltd.

TerraTherm

Mitsubishi Heavy Industries Environmental Systems

Key Questions Answered:

1. How big is the global Thermal Desorption Unit (TDU) market?
2. What is the demand of the global Thermal Desorption Unit (TDU) market?
3. What is the year over year growth of the global Thermal Desorption Unit (TDU) market?
4. What is the production and production value of the global Thermal Desorption Unit (TDU) market?
5. Who are the key producers in the global Thermal Desorption Unit (TDU) market?
6. What are the growth factors driving the market demand?

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