

Global Calibration Blackbody Furnace Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1C45F9BF55AEN.html>

Date: June 2026

Pages: 184

Price: US\$ 4,480.00 (Single User License)

ID: G1C45F9BF55AEN

Abstracts

The global Calibration Blackbody Furnace market size is expected to reach \$ 891 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

A Calibration Blackbody Furnace is a standard radiator used to calibrate infrared thermometers and thermal imagers. By simulating stable infrared radiation outputs at various temperatures, it provides measuring instruments with a known and traceable temperature reference. Typically, it employs high-emissivity materials and precision temperature control systems to ensure that its surface radiation characteristics closely approximate those of an ideal blackbody, thereby guaranteeing a high degree of consistency between the emitted radiation energy and the set temperature. This device is widely utilized in industrial temperature measurement, metrology and calibration, aerospace, and scientific research fields to enhance the accuracy and consistency of infrared measurements. In 2025, projected sales volume stands at 85,000 units, with an average selling price of \$5,245, a total production capacity of 100,000 units, and a gross margin of 38%.

This report studies the global Calibration Blackbody Furnace production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Calibration Blackbody Furnace 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 Calibration Blackbody Furnace that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Calibration Blackbody Furnace total production and demand, 2021-2032, (K Units)

Global Calibration Blackbody Furnace total production value, 2021-2032, (USD Million)

Global Calibration Blackbody Furnace production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Calibration Blackbody Furnace consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Calibration Blackbody Furnace domestic production, consumption, key domestic manufacturers and share

Global Calibration Blackbody Furnace production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Calibration Blackbody Furnace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Calibration Blackbody Furnace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Calibration Blackbody Furnace 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 AMETEK, Accurate Sensors Technologies Pvt Ltd, AOIP, CHINO CORPORATION, Fluke Calibration, Optris, Isotech, Gooch & Housego, Tempsens, Sensortherm, 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 Calibration Blackbody Furnace market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Calibration Blackbody Furnace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Calibration Blackbody Furnace Market, Segmentation by Type:

Cavity Blackbody

Plane Blackbody

IR Panel Blackbody

Global Calibration Blackbody Furnace Market, Segmentation by Temperature:

Low-Temperature Blackbody

Medium-Temperature Blackbody

High-Temperature Blackbody

Global Calibration Blackbody Furnace Market, Segmentation by Control Method:

Digital Control Blackbody

Manual-Control Blackbody

Global Calibration Blackbody Furnace Market, Segmentation by Application:

Infrared Thermometer & Thermal Imager Manufacturing

Petrochemical & Process Industries

Aerospace Industry

Experimental Science

Others

Companies Profiled:

AMETEK

Accurate Sensors Technologies Pvt Ltd

AOIP

CHINO CORPORATION

Fluke Calibration

Optris

Isotech

Gooch & Housego

Tempsens

Sensortherm

Calex Electronics

Heimann GmbH

Infrared Systems Development Corporation (ISDC)

Omega Engineering

Bodkin Design & Engineering, LLC

CI Systems Inc.

DIAS Infrared

HGH Infrared Systems

Advanced Energy

Newport Corporation

Process Sensors

Nagman

Palmer Wahl Instrumentation Group

Santa Barbara Infrared, Inc.

Societe Europeenne De Systemes Optiques (SESO)

Boston Electronics

Taian Demei Electromechanical Equipment Co., LTD.

Shanghai Lrel Instrument Co.,Ltd.

Key Questions Answered:

1. How big is the global Calibration Blackbody Furnace market?
2. What is the demand of the global Calibration Blackbody Furnace market?

3. What is the year over year growth of the global Calibration Blackbody Furnace market?
4. What is the production and production value of the global Calibration Blackbody Furnace market?
5. Who are the key producers in the global Calibration Blackbody Furnace market?
6. What are the growth factors driving the market demand?

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