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Global Outdoor PCM Cooling Vests Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Outdoor PCM Cooling Vests market size was valued at US$ 201 million in 2025 and is forecast to a readjusted size of US$ 340 million by 2032 with a CAGR of 7.3% during review period.

Outdoor Phase Change Material Cooling Vests are reusable personal cooling garments that incorporate phase change material modules into a wearable vest structure to absorb body and ambient heat through latent heat storage. The products are typically supplied as a complete set consisting of a vest shell and standard PCM packs, flexible segmented modules or integrated PCM carriers, with common phase change temperature ranges of ?15°C, >15°C to 22°C, >22°C to 26°C and >26°C. The market primarily covers passive cooling vests designed for outdoor occupational work, high-temperature manufacturing, mining, oil and gas operations, firefighting, emergency response, military duties, law enforcement, heat-sensitive users, outdoor sports and other activities involving sustained thermal exposure. Product performance is determined by phase change temperature, latent heat capacity, module weight, body coverage, recharge conditions, wearing compatibility and cooling duration.

Key Findings

Global sales reached approximately 1.87 million sets in 2025

Global sales are estimated at approximately 2.02 million sets in 2026

The average selling price is estimated at US$106.9 per set in 2026

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Outdoor occupational work accounts for more than half of global unit demand

North America leads in market value while China is the principal manufacturing base

Market Trends

The Outdoor Phase Change Material Cooling Vests market is moving from specialized medical and emergency-response equipment toward a broader personal heat-management category serving industrial workers, outdoor consumers and public-sector users. Product development is increasingly centered on lighter flexible PCM modules, reduced bulk, improved body conformity and selectable phase change temperatures suited to different thermal loads. Lower-temperature products continue to support intense heat exposure and high-metabolic activities, while 21°C to 29°C solutions are gaining attention for longer wear, reduced cold shock and easier recharging in refrigerated or air-conditioned environments. Suppliers are also expanding beyond conventional pocketed vests toward segmented flexible modules and integrated PCM carrier structures. Flame-resistant fabrics, high-visibility designs, compatibility with chemical protective clothing and low-profile concealment are becoming important product attributes, although they remain functional options rather than independent product categories. The industry is also seeing stronger separation between consumer-facing brands and manufacturing platforms, with Chinese PCM and garment suppliers supporting a growing number of private-label products for overseas markets.

Market Dynamics

Drivers

Rising exposure to occupational heat is the principal demand driver for Outdoor Phase Change Material Cooling Vests. Construction, road maintenance, utilities, mining, oil and gas, high-temperature manufacturing and emergency response all require cooling solutions that can function without continuous electricity, pumps or water circulation. Greater employer attention to heat-stress prevention, wider adoption of formal heat-risk management procedures and increasing use of impermeable protective clothing are expanding the addressable customer base. Demand is also supported by heat-sensitive patients, outdoor sports participants, motorcyclists and event personnel seeking

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portable and reusable personal cooling products.

Restraints

The market remains constrained by relatively high complete-system prices compared with evaporative vests, conventional ice-pack products and fan-assisted clothing. PCM modules add weight and may provide only limited operating time under severe heat loads, requiring spare modules or planned recharging cycles. Performance claims are difficult to compare because cooling duration varies with ambient temperature, metabolic intensity, clothing layers, body coverage and test conditions. Low-cost products that use ordinary frozen water packs or unspecified gel materials are also frequently marketed as phase change products, creating price pressure and reducing customer clarity.

Opportunities

The strongest opportunities lie in applications where evaporative cooling is ineffective, electrical cooling is impractical or protective clothing limits natural heat dissipation. These include humid outdoor worksites, chemical protective suits, firefighter rehabilitation, mining rescue, military training, utility maintenance and industrial facilities with localized high-temperature zones. Flexible modules with phase change points above 20°C can expand adoption among users requiring longer wear and less cold discomfort. Additional opportunities are emerging in rental programs, employer-managed module rotation, branded private-label supply and integrated cooling solutions combining vests with workplace heat-monitoring and hydration programs.

Challenges

Long-term market development depends on clearer product standards, consistent performance testing and stronger differentiation between true PCM products and conventional ice-pack cooling vests. Suppliers must balance cooling intensity, weight, durability, recharge speed and user comfort without making the product too expensive for large workforce deployment. Seasonal demand, fragmented procurement, limited public disclosure of production volumes and extensive OEM relationships complicate capacity planning and competitive benchmarking. Product liability, leakage resistance, repeated-cycle durability and compatibility with safety garments are also critical for professional applications.

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Industry Chain Analysis

The upstream segment consists of organic PCM, biobased PCM, salt-hydrate PCM, polymer films, multilayer barrier packaging, technical textiles, flame-resistant fabrics, reflective materials, fasteners and insulation components. PCM formulation and encapsulation determine phase change temperature, latent heat, leakage resistance and cycle life, while the garment structure determines weight distribution, coverage and compatibility with other protective equipment. Upstream PCM suppliers may sell materials to independent module manufacturers or integrate forward into complete cooling products.

The midstream segment includes PCM filling and sealing, flexible-module fabrication, textile cutting and sewing, product assembly, testing, branding and packaging. Some specialist companies control PCM formulation, module production and final vest assembly, while many consumer and occupational brands rely on Chinese OEM and ODM partners. Value creation is concentrated in proprietary PCM formulations, ergonomic module design, professional certifications, distribution networks and application-specific product development. Downstream sales occur through direct-to-consumer websites, industrial safety distributors, medical channels, outdoor retailers, government procurement and corporate workforce programs.

Segment Insights

Pocketed discrete-pack vests remain the mainstream product format because they are easy to manufacture, recharge, replace and configure for different body sizes. Segmented flexible-module vests are gaining share in premium occupational and consumer applications because they provide better flexibility and more even body contact. Integrated PCM carrier vests remain a smaller but differentiated segment, particularly where low-profile wearing, easier cleaning or compatibility with specialist garments is required.

By phase change temperature, products at or below 15°C deliver stronger cooling and remain important in intensive outdoor activity and high-heat exposure. Products above 15°C to 22°C balance cooling intensity and comfort and are widely used in occupational and protective-clothing applications. The >22°C to 26°C and >26°C segments are positioned for longer-duration temperature moderation, easier

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environmental recharging and reduced cold sensation. Outdoor occupational work represents more than half of total unit demand, while firefighting, military, medical and consumer uses form smaller but higher-value segments.

Downstream Market Opportunities

Outdoor occupational work offers the broadest volume opportunity, particularly in construction, municipal maintenance, delivery operations, utilities, mining and industrial maintenance. Firefighting, hazardous-material response and chemical protective clothing provide smaller but higher-value opportunities because product reliability, flame resistance and compatibility requirements support premium pricing. Heat-sensitive patient mobility and outdoor recreation create more brand-driven demand, while motorcycling, motorsport, mascot costumes and theme-park operations provide specialized niches. Corporate heat-management programs that combine cooling equipment, work-rest scheduling, hydration and environmental monitoring could increase institutional adoption and improve repeat purchasing.

Regional Insights

North America is the largest value market, supported by established occupational safety distribution, premium consumer brands, medical cooling applications and public-sector procurement. The United States has a broad supplier base covering professional PPE, direct-to-consumer products, military cooling and emergency-response solutions. Europe is characterized by stronger use of biobased PCM, higher-temperature comfort products and applications under chemical, firefighting and industrial protective clothing, with the Netherlands, Sweden and Germany forming important technology and supplier clusters.

China is the largest manufacturing and OEM base, supported by PCM formulation, encapsulation, garment assembly and export-oriented private-label production. The domestic Chinese market is also expanding through industrial safety, mining, firefighting and consumer heat-protection brands. Japan is developing a more visible consumer and workplace heat-protection segment, while South Korea and India have emerging domestic suppliers. Southeast Asia, the Middle East, Australia and other high-temperature regions represent significant demand opportunities but currently rely heavily on imported brands and Asian manufacturing supply chains.

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Competitive Landscape Analysis

The competitive landscape is fragmented and combines specialist PCM cooling brands, industrial PPE suppliers, medical cooling companies, public-safety equipment manufacturers and Chinese integrated manufacturers. Glacier Tek, Polar Products, ThermApparel, INUTEQ, TechNiche, Ergodyne, Bullard and First Line Technology have established positions in premium consumer, occupational and emergency-response channels. Dräger and TST Sweden are differentiated by protective-clothing and professional safety applications, while Japanese and Korean brands are expanding regional consumer and workplace demand. Chinese suppliers such as PCMCOOL, Coolinno, ICE BEAR, CryoPush, Artborne and other domestic brands compete through integrated PCM production, flexible customization, private-label services and cost-efficient manufacturing. Competition is therefore not based solely on product price; phase change temperature portfolios, material safety, module flexibility, professional certifications, distribution access, application expertise and the ability to support large customized orders are increasingly important. Brand sales and OEM manufacturing must be evaluated separately because several branded products are supplied by third-party manufacturers, and combining both levels would overstate market concentration and industry revenue.

Report Scope

This report is a detailed and comprehensive analysis for global Outdoor PCM Cooling Vests market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Outdoor PCM Cooling Vests market size and forecasts, in consumption value ($ Million), sales quantity (Sets), and average selling prices (US$/Set), 2021-2032

Global Outdoor PCM Cooling Vests market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Sets), and average selling prices

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(US$/Set), 2021-2032

Global Outdoor PCM Cooling Vests market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Sets), and average selling prices (US$/Set), 2021-2032

Global Outdoor PCM Cooling Vests market shares of main players, shipments in revenue ($ Million), sales quantity (Sets), and ASP (US$/Set), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Outdoor PCM Cooling Vests

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Outdoor PCM Cooling Vests market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Glacier Tek, Polar Products Inc., ThermApparel LLC, OccuNomix International LLC, Ergodyne, Protective Industrial Products Inc., Bullard, First Line Technology LLC, Texas Cool Vest, AlphaCool, etc.

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

Outdoor PCM Cooling Vests market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

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Market segment by Type

Pocketed Discrete-Pack Vest

Segmented Flexible-Module Vest

Monolithic PCM Carrier Vest

Other

Market segment by Phase Change Temperature

?15°C

>15°C to 22°C

>22°C to 26°C

>26°C

Market segment by Application

Building Construction

Road and Municipal Maintenance

Transportation and Delivery Operations

High-Heat Manufacturing

Mining Operations

Oil and Gas Operations

Chemical Plant Operations

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Firefighting and Hazmat Response

Military Field Duty

Law Enforcement Duty

Healthcare Staff Under Protective Clothing

Heat-Sensitive Patient Mobility

Outdoor Sports and Recreation

Motorcycling and Motorsport

Costume and Event Work

Other

Major players covered

Glacier Tek

Polar Products Inc.

ThermApparel LLC

OccuNomix International LLC

Ergodyne

Protective Industrial Products Inc.

Bullard

First Line Technology LLC

Texas Cool Vest

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AlphaCool

Allegro Industries

Lakeland Industries Inc.

Uline Inc.

Steele and Associates Inc.

INUTEQ International B.V.

EZCooldown

IZI BodyCooling.com

TST Sweden AB

Drägerwerk AG & Co. KGaA

Ansell Limited

Liberta Co., Ltd.

CROWN BOUSAI CO., LTD.

Nomads Life Co., Ltd.

MPAC Plus Co., Ltd.

98 FARENHEIT PRIVATE LIMITED

Ru Entropy Technology Co., Ltd.

Hainan Coinno Intelligent Technology Co., Ltd.

Haikou Three Three Zero Carbon Technology Co., Ltd.

Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd.

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Hunan Yongfei Special Protective Equipment Co., Ltd.

Chengdu Cryo-Push Medical Technology Co., Ltd.

Xiamen Artborne Industrial Co., Ltd.

Guangdong Langcheng Technology Co., Ltd.

Beijing Guangshunhe Technology Co., Ltd.

WUJIANG FANGQI TEXTILE CO., LTD.

Hangzhou Feijie Technology Co., Ltd.

Shenzhen Renben International Technology Apparel Co., Ltd.

Chengdu Shenjia Shelter Technology Co., Ltd.

Hiwing Materials Industrial Co., Ltd.

Hangzhou Yingqian Trading Co., Ltd.

Suzhou SenJoy Garment Co., Ltd.

Carbon Based Era Shenzhen Energy Storage Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of

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Middle East & Africa)

Chapter Outline

Chapter 1, to describe Outdoor PCM Cooling Vests product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Outdoor PCM Cooling Vests, with price, sales quantity, revenue, and global market share of Outdoor PCM Cooling Vests from 2021 to 2026.
Chapter 3, the Outdoor PCM Cooling Vests competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Outdoor PCM Cooling Vests breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.
Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.
Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Outdoor PCM Cooling Vests market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.
Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.
Chapter 13, the key raw materials and key suppliers, and industry chain of Outdoor PCM Cooling Vests.
Chapter 14 and 15, to describe Outdoor PCM Cooling Vests sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Outdoor PCM Cooling Vests Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Pocketed Discrete-Pack Vest
  1.3.3 Segmented Flexible-Module Vest
  1.3.4 Monolithic PCM Carrier Vest
  1.3.5 Other
1.4 Market Analysis by Phase Change Temperature
  1.4.1 Overview: Global Outdoor PCM Cooling Vests Consumption Value by Phase Change Temperature: 2021 Versus 2025 Versus 2032
  1.4.2 ?15°C
  1.4.3 >15°C to 22°C
  1.4.4 >22°C to 26°C
  1.4.5 >26°C
1.5 Market Analysis by Application
  1.5.1 Overview: Global Outdoor PCM Cooling Vests Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.5.2 Building Construction
  1.5.3 Road and Municipal Maintenance
  1.5.4 Transportation and Delivery Operations
  1.5.5 High-Heat Manufacturing
  1.5.6 Mining Operations
  1.5.7 Oil and Gas Operations
  1.5.8 Chemical Plant Operations
  1.5.9 Firefighting and Hazmat Response
  1.5.10 Military Field Duty
1.6 Global Outdoor PCM Cooling Vests Market Size & Forecast
  1.6.1 Global Outdoor PCM Cooling Vests Consumption Value (2021 & 2025 & 2032)
  1.6.2 Global Outdoor PCM Cooling Vests Sales Quantity (2021-2032)
  1.6.3 Global Outdoor PCM Cooling Vests Average Price (2021-2032)

2 MANUFACTURERS PROFILES

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2.1 Glacier Tek
2.1.1 Glacier Tek Details
2.1.2 Glacier Tek Major Business
2.1.3 Glacier Tek Outdoor PCM Cooling Vests Product and Services
2.1.4 Glacier Tek Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Glacier Tek Recent Developments/Updates
2.2 Polar Products Inc.
2.2.1 Polar Products Inc. Details
2.2.2 Polar Products Inc. Major Business
2.2.3 Polar Products Inc. Outdoor PCM Cooling Vests Product and Services
2.2.4 Polar Products Inc. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Polar Products Inc. Recent Developments/Updates
2.3 ThermApparel LLC
2.3.1 ThermApparel LLC Details
2.3.2 ThermApparel LLC Major Business
2.3.3 ThermApparel LLC Outdoor PCM Cooling Vests Product and Services
2.3.4 ThermApparel LLC Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 ThermApparel LLC Recent Developments/Updates
2.4 OccuNomix International LLC
2.4.1 OccuNomix International LLC Details
2.4.2 OccuNomix International LLC Major Business
2.4.3 OccuNomix International LLC Outdoor PCM Cooling Vests Product and Services
2.4.4 OccuNomix International LLC Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 OccuNomix International LLC Recent Developments/Updates
2.5 Ergodyne
2.5.1 Ergodyne Details
2.5.2 Ergodyne Major Business
2.5.3 Ergodyne Outdoor PCM Cooling Vests Product and Services
2.5.4 Ergodyne Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Ergodyne Recent Developments/Updates
2.6 Protective Industrial Products Inc.
2.6.1 Protective Industrial Products Inc. Details
2.6.2 Protective Industrial Products Inc. Major Business
2.6.3 Protective Industrial Products Inc. Outdoor PCM Cooling Vests Product and

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Services
2.6.4 Protective Industrial Products Inc. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Protective Industrial Products Inc. Recent Developments/Updates
2.7 Bullard
2.7.1 Bullard Details
2.7.2 Bullard Major Business
2.7.3 Bullard Outdoor PCM Cooling Vests Product and Services
2.7.4 Bullard Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Bullard Recent Developments/Updates
2.8 First Line Technology LLC
2.8.1 First Line Technology LLC Details
2.8.2 First Line Technology LLC Major Business
2.8.3 First Line Technology LLC Outdoor PCM Cooling Vests Product and Services
2.8.4 First Line Technology LLC Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 First Line Technology LLC Recent Developments/Updates
2.9 Texas Cool Vest
2.9.1 Texas Cool Vest Details
2.9.2 Texas Cool Vest Major Business
2.9.3 Texas Cool Vest Outdoor PCM Cooling Vests Product and Services
2.9.4 Texas Cool Vest Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 Texas Cool Vest Recent Developments/Updates
2.10 AlphaCool
2.10.1 AlphaCool Details
2.10.2 AlphaCool Major Business
2.10.3 AlphaCool Outdoor PCM Cooling Vests Product and Services
2.10.4 AlphaCool Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 AlphaCool Recent Developments/Updates
2.11 Allegro Industries
2.11.1 Allegro Industries Details
2.11.2 Allegro Industries Major Business
2.11.3 Allegro Industries Outdoor PCM Cooling Vests Product and Services
2.11.4 Allegro Industries Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Allegro Industries Recent Developments/Updates

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2.12 Lakeland Industries Inc.
2.12.1 Lakeland Industries Inc. Details
2.12.2 Lakeland Industries Inc. Major Business
2.12.3 Lakeland Industries Inc. Outdoor PCM Cooling Vests Product and Services
2.12.4 Lakeland Industries Inc. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.12.5 Lakeland Industries Inc. Recent Developments/Updates
2.13 Uline Inc.
2.13.1 Uline Inc. Details
2.13.2 Uline Inc. Major Business
2.13.3 Uline Inc. Outdoor PCM Cooling Vests Product and Services
2.13.4 Uline Inc. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.13.5 Uline Inc. Recent Developments/Updates
2.14 Steele and Associates Inc.
2.14.1 Steele and Associates Inc. Details
2.14.2 Steele and Associates Inc. Major Business
2.14.3 Steele and Associates Inc. Outdoor PCM Cooling Vests Product and Services
2.14.4 Steele and Associates Inc. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.14.5 Steele and Associates Inc. Recent Developments/Updates
2.15 INUTEQ International B.V.
2.15.1 INUTEQ International B.V. Details
2.15.2 INUTEQ International B.V. Major Business
2.15.3 INUTEQ International B.V. Outdoor PCM Cooling Vests Product and Services
2.15.4 INUTEQ International B.V. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.15.5 INUTEQ International B.V. Recent Developments/Updates
2.16 EZCooldown
2.16.1 EZCooldown Details
2.16.2 EZCooldown Major Business
2.16.3 EZCooldown Outdoor PCM Cooling Vests Product and Services
2.16.4 EZCooldown Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.16.5 EZCooldown Recent Developments/Updates
2.17 IZI BodyCooling.com
2.17.1 IZI BodyCooling.com Details
2.17.2 IZI BodyCooling.com Major Business
2.17.3 IZI BodyCooling.com Outdoor PCM Cooling Vests Product and Services

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2.17.4 IZI BodyCooling.com Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.17.5 IZI BodyCooling.com Recent Developments/Updates
2.18 TST Sweden AB
2.18.1 TST Sweden AB Details
2.18.2 TST Sweden AB Major Business
2.18.3 TST Sweden AB Outdoor PCM Cooling Vests Product and Services
2.18.4 TST Sweden AB Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.18.5 TST Sweden AB Recent Developments/Updates
2.19 Drägerwerk AG & Co. KGaA
2.19.1 Drägerwerk AG & Co. KGaA Details
2.19.2 Drägerwerk AG & Co. KGaA Major Business
2.19.3 Drägerwerk AG & Co. KGaA Outdoor PCM Cooling Vests Product and Services
2.19.4 Drägerwerk AG & Co. KGaA Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.19.5 Drägerwerk AG & Co. KGaA Recent Developments/Updates
2.20 Ansell Limited
2.20.1 Ansell Limited Details
2.20.2 Ansell Limited Major Business
2.20.3 Ansell Limited Outdoor PCM Cooling Vests Product and Services
2.20.4 Ansell Limited Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.20.5 Ansell Limited Recent Developments/Updates
2.21 Liberta Co., Ltd.
2.21.1 Liberta Co., Ltd. Details
2.21.2 Liberta Co., Ltd. Major Business
2.21.3 Liberta Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.21.4 Liberta Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.21.5 Liberta Co., Ltd. Recent Developments/Updates
2.22 CROWN BOUSAI CO., LTD.
2.22.1 CROWN BOUSAI CO., LTD. Details
2.22.2 CROWN BOUSAI CO., LTD. Major Business
2.22.3 CROWN BOUSAI CO., LTD. Outdoor PCM Cooling Vests Product and Services
2.22.4 CROWN BOUSAI CO., LTD. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.22.5 CROWN BOUSAI CO., LTD. Recent Developments/Updates
2.23 Nomads Life Co., Ltd.

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info@marketpublishers.com

2.23.1 Nomads Life Co., Ltd. Details
2.23.2 Nomads Life Co., Ltd. Major Business
2.23.3 Nomads Life Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.23.4 Nomads Life Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.23.5 Nomads Life Co., Ltd. Recent Developments/Updates
2.24 MPAC Plus Co., Ltd.
2.24.1 MPAC Plus Co., Ltd. Details
2.24.2 MPAC Plus Co., Ltd. Major Business
2.24.3 MPAC Plus Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.24.4 MPAC Plus Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.24.5 MPAC Plus Co., Ltd. Recent Developments/Updates
2.25 98 FARENHEIT PRIVATE LIMITED
2.25.1 98 FARENHEIT PRIVATE LIMITED Details
2.25.2 98 FARENHEIT PRIVATE LIMITED Major Business
2.25.3 98 FARENHEIT PRIVATE LIMITED Outdoor PCM Cooling Vests Product and Services
2.25.4 98 FARENHEIT PRIVATE LIMITED Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.25.5 98 FARENHEIT PRIVATE LIMITED Recent Developments/Updates
2.26 Ru Entropy Technology Co., Ltd.
2.26.1 Ru Entropy Technology Co., Ltd. Details
2.26.2 Ru Entropy Technology Co., Ltd. Major Business
2.26.3 Ru Entropy Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.26.4 Ru Entropy Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.26.5 Ru Entropy Technology Co., Ltd. Recent Developments/Updates
2.27 Hainan Coinno Intelligent Technology Co., Ltd.
2.27.1 Hainan Coinno Intelligent Technology Co., Ltd. Details
2.27.2 Hainan Coinno Intelligent Technology Co., Ltd. Major Business
2.27.3 Hainan Coinno Intelligent Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.27.4 Hainan Coinno Intelligent Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.27.5 Hainan Coinno Intelligent Technology Co., Ltd. Recent Developments/Updates
2.28 Haikou Three Three Zero Carbon Technology Co., Ltd.
2.28.1 Haikou Three Three Zero Carbon Technology Co., Ltd. Details

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2.28.2 Haikou Three Three Zero Carbon Technology Co., Ltd. Major Business
2.28.3 Haikou Three Three Zero Carbon Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.28.4 Haikou Three Three Zero Carbon Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.28.5 Haikou Three Three Zero Carbon Technology Co., Ltd. Recent Developments/Updates
2.29 Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd.
2.29.1 Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Details
2.29.2 Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Major Business
2.29.3 Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.29.4 Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.29.5 Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Recent Developments/Updates
2.30 Hunan Yongfei Special Protective Equipment Co., Ltd.
2.30.1 Hunan Yongfei Special Protective Equipment Co., Ltd. Details
2.30.2 Hunan Yongfei Special Protective Equipment Co., Ltd. Major Business
2.30.3 Hunan Yongfei Special Protective Equipment Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.30.4 Hunan Yongfei Special Protective Equipment Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.30.5 Hunan Yongfei Special Protective Equipment Co., Ltd. Recent Developments/Updates
2.31 Chengdu Cryo-Push Medical Technology Co., Ltd.
2.31.1 Chengdu Cryo-Push Medical Technology Co., Ltd. Details
2.31.2 Chengdu Cryo-Push Medical Technology Co., Ltd. Major Business
2.31.3 Chengdu Cryo-Push Medical Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.31.4 Chengdu Cryo-Push Medical Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.31.5 Chengdu Cryo-Push Medical Technology Co., Ltd. Recent Developments/Updates

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2.32 Xiamen Artborne Industrial Co., Ltd.
2.32.1 Xiamen Artborne Industrial Co., Ltd. Details
2.32.2 Xiamen Artborne Industrial Co., Ltd. Major Business
2.32.3 Xiamen Artborne Industrial Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.32.4 Xiamen Artborne Industrial Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.32.5 Xiamen Artborne Industrial Co., Ltd. Recent Developments/Updates
2.33 Guangdong Langcheng Technology Co., Ltd.
2.33.1 Guangdong Langcheng Technology Co., Ltd. Details
2.33.2 Guangdong Langcheng Technology Co., Ltd. Major Business
2.33.3 Guangdong Langcheng Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.33.4 Guangdong Langcheng Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.33.5 Guangdong Langcheng Technology Co., Ltd. Recent Developments/Updates
2.34 Beijing Guangshunhe Technology Co., Ltd.
2.34.1 Beijing Guangshunhe Technology Co., Ltd. Details
2.34.2 Beijing Guangshunhe Technology Co., Ltd. Major Business
2.34.3 Beijing Guangshunhe Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.34.4 Beijing Guangshunhe Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.34.5 Beijing Guangshunhe Technology Co., Ltd. Recent Developments/Updates
2.35 WUJIANG FANGQI TEXTILE CO., LTD.
2.35.1 WUJIANG FANGQI TEXTILE CO., LTD. Details
2.35.2 WUJIANG FANGQI TEXTILE CO., LTD. Major Business
2.35.3 WUJIANG FANGQI TEXTILE CO., LTD. Outdoor PCM Cooling Vests Product and Services
2.35.4 WUJIANG FANGQI TEXTILE CO., LTD. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.35.5 WUJIANG FANGQI TEXTILE CO., LTD. Recent Developments/Updates
2.36 Hangzhou Feijie Technology Co., Ltd.
2.36.1 Hangzhou Feijie Technology Co., Ltd. Details
2.36.2 Hangzhou Feijie Technology Co., Ltd. Major Business
2.36.3 Hangzhou Feijie Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.36.4 Hangzhou Feijie Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.36.5 Hangzhou Feijie Technology Co., Ltd. Recent Developments/Updates
2.37 Shenzhen Renben International Technology Apparel Co., Ltd.
2.37.1 Shenzhen Renben International Technology Apparel Co., Ltd. Details
2.37.2 Shenzhen Renben International Technology Apparel Co., Ltd. Major Business
2.37.3 Shenzhen Renben International Technology Apparel Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.37.4 Shenzhen Renben International Technology Apparel Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.37.5 Shenzhen Renben International Technology Apparel Co., Ltd. Recent Developments/Updates
2.38 Chengdu Shenjia Shelter Technology Co., Ltd.
2.38.1 Chengdu Shenjia Shelter Technology Co., Ltd. Details
2.38.2 Chengdu Shenjia Shelter Technology Co., Ltd. Major Business
2.38.3 Chengdu Shenjia Shelter Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.38.4 Chengdu Shenjia Shelter Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.38.5 Chengdu Shenjia Shelter Technology Co., Ltd. Recent Developments/Updates
2.39 Hiwing Materials Industrial Co., Ltd.
2.39.1 Hiwing Materials Industrial Co., Ltd. Details
2.39.2 Hiwing Materials Industrial Co., Ltd. Major Business
2.39.3 Hiwing Materials Industrial Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.39.4 Hiwing Materials Industrial Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.39.5 Hiwing Materials Industrial Co., Ltd. Recent Developments/Updates
2.40 Hangzhou Yingqian Trading Co., Ltd.
2.40.1 Hangzhou Yingqian Trading Co., Ltd. Details
2.40.2 Hangzhou Yingqian Trading Co., Ltd. Major Business
2.40.3 Hangzhou Yingqian Trading Co., Ltd. Outdoor PCM Cooling Vests Product and Services
2.40.4 Hangzhou Yingqian Trading Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.40.5 Hangzhou Yingqian Trading Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: OUTDOOR PCM COOLING VESTS BY MANUFACTURER

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3.1 Global Outdoor PCM Cooling Vests Sales Quantity by Manufacturer (2021-2026)
3.2 Global Outdoor PCM Cooling Vests Revenue by Manufacturer (2021-2026)
3.3 Global Outdoor PCM Cooling Vests Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Outdoor PCM Cooling Vests by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Outdoor PCM Cooling Vests Manufacturer Market Share in 2025
3.4.3 Top 6 Outdoor PCM Cooling Vests Manufacturer Market Share in 2025
3.5 Outdoor PCM Cooling Vests Market: Overall Company Footprint Analysis
3.5.1 Outdoor PCM Cooling Vests Market: Region Footprint
3.5.2 Outdoor PCM Cooling Vests Market: Company Product Type Footprint
3.5.3 Outdoor PCM Cooling Vests Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Outdoor PCM Cooling Vests Market Size by Region
4.1.1 Global Outdoor PCM Cooling Vests Sales Quantity by Region (2021-2032)
4.1.2 Global Outdoor PCM Cooling Vests Consumption Value by Region (2021-2032)
4.1.3 Global Outdoor PCM Cooling Vests Average Price by Region (2021-2032)
4.2 North America Outdoor PCM Cooling Vests Consumption Value (2021-2032)
4.3 Europe Outdoor PCM Cooling Vests Consumption Value (2021-2032)
4.4 Asia-Pacific Outdoor PCM Cooling Vests Consumption Value (2021-2032)
4.5 South America Outdoor PCM Cooling Vests Consumption Value (2021-2032)
4.6 Middle East & Africa Outdoor PCM Cooling Vests Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2032)
5.2 Global Outdoor PCM Cooling Vests Consumption Value by Type (2021-2032)
5.3 Global Outdoor PCM Cooling Vests Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2032)
6.2 Global Outdoor PCM Cooling Vests Consumption Value by Application (2021-2032)
6.3 Global Outdoor PCM Cooling Vests Average Price by Application (2021-2032)

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7 NORTH AMERICA

7.1 North America Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2032)
7.2 North America Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2032)
7.3 North America Outdoor PCM Cooling Vests Market Size by Country
  7.3.1 North America Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2032)
  7.3.2 North America Outdoor PCM Cooling Vests Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2032)
8.2 Europe Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2032)
8.3 Europe Outdoor PCM Cooling Vests Market Size by Country
  8.3.1 Europe Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2032)
  8.3.2 Europe Outdoor PCM Cooling Vests Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)
  8.3.4 France Market Size and Forecast (2021-2032)
  8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  8.3.6 Russia Market Size and Forecast (2021-2032)
  8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Outdoor PCM Cooling Vests Market Size by Region
  9.3.1 Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Region (2021-2032)
  9.3.2 Asia-Pacific Outdoor PCM Cooling Vests Consumption Value by Region (2021-2032)
  9.3.3 China Market Size and Forecast (2021-2032)
  9.3.4 Japan Market Size and Forecast (2021-2032)
  9.3.5 South Korea Market Size and Forecast (2021-2032)
  9.3.6 India Market Size and Forecast (2021-2032)

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9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2032)
10.2 South America Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2032)
10.3 South America Outdoor PCM Cooling Vests Market Size by Country
10.3.1 South America Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2032)
10.3.2 South America Outdoor PCM Cooling Vests Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Outdoor PCM Cooling Vests Market Size by Country
11.3.1 Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2032)
11.3.2 Middle East & Africa Outdoor PCM Cooling Vests Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Outdoor PCM Cooling Vests Market Drivers
12.2 Outdoor PCM Cooling Vests Market Restraints
12.3 Outdoor PCM Cooling Vests Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants

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12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Outdoor PCM Cooling Vests and Key Manufacturers
13.2 Manufacturing Costs Percentage of Outdoor PCM Cooling Vests
13.3 Outdoor PCM Cooling Vests Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 Outdoor PCM Cooling Vests Typical Distributors
14.3 Outdoor PCM Cooling Vests Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. Global Outdoor PCM Cooling Vests Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Outdoor PCM Cooling Vests Consumption Value by Phase Change Temperature, (USD Million), 2021 & 2025 & 2032
Table 3. Global Outdoor PCM Cooling Vests Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 4. Glacier Tek Basic Information, Manufacturing Base and Competitors
Table 5. Glacier Tek Major Business
Table 6. Glacier Tek Outdoor PCM Cooling Vests Product and Services
Table 7. Glacier Tek Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 8. Glacier Tek Recent Developments/Updates
Table 9. Polar Products Inc. Basic Information, Manufacturing Base and Competitors
Table 10. Polar Products Inc. Major Business
Table 11. Polar Products Inc. Outdoor PCM Cooling Vests Product and Services
Table 12. Polar Products Inc. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 13. Polar Products Inc. Recent Developments/Updates
Table 14. ThermApparel LLC Basic Information, Manufacturing Base and Competitors
Table 15. ThermApparel LLC Major Business
Table 16. ThermApparel LLC Outdoor PCM Cooling Vests Product and Services
Table 17. ThermApparel LLC Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 18. ThermApparel LLC Recent Developments/Updates
Table 19. OccuNomix International LLC Basic Information, Manufacturing Base and Competitors
Table 20. OccuNomix International LLC Major Business
Table 21. OccuNomix International LLC Outdoor PCM Cooling Vests Product and Services
Table 22. OccuNomix International LLC Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 23. OccuNomix International LLC Recent Developments/Updates

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Table 24. Ergodyne Basic Information, Manufacturing Base and Competitors
Table 25. Ergodyne Major Business
Table 26. Ergodyne Outdoor PCM Cooling Vests Product and Services
Table 27. Ergodyne Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 28. Ergodyne Recent Developments/Updates
Table 29. Protective Industrial Products Inc. Basic Information, Manufacturing Base and Competitors
Table 30. Protective Industrial Products Inc. Major Business
Table 31. Protective Industrial Products Inc. Outdoor PCM Cooling Vests Product and Services
Table 32. Protective Industrial Products Inc. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 33. Protective Industrial Products Inc. Recent Developments/Updates
Table 34. Bullard Basic Information, Manufacturing Base and Competitors
Table 35. Bullard Major Business
Table 36. Bullard Outdoor PCM Cooling Vests Product and Services
Table 37. Bullard Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 38. Bullard Recent Developments/Updates
Table 39. First Line Technology LLC Basic Information, Manufacturing Base and Competitors
Table 40. First Line Technology LLC Major Business
Table 41. First Line Technology LLC Outdoor PCM Cooling Vests Product and Services
Table 42. First Line Technology LLC Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 43. First Line Technology LLC Recent Developments/Updates
Table 44. Texas Cool Vest Basic Information, Manufacturing Base and Competitors
Table 45. Texas Cool Vest Major Business
Table 46. Texas Cool Vest Outdoor PCM Cooling Vests Product and Services
Table 47. Texas Cool Vest Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 48. Texas Cool Vest Recent Developments/Updates
Table 49. AlphaCool Basic Information, Manufacturing Base and Competitors
Table 50. AlphaCool Major Business
Table 51. AlphaCool Outdoor PCM Cooling Vests Product and Services
Table 52. AlphaCool Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price

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(US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 53. AlphaCool Recent Developments/Updates
Table 54. Allegro Industries Basic Information, Manufacturing Base and Competitors
Table 55. Allegro Industries Major Business
Table 56. Allegro Industries Outdoor PCM Cooling Vests Product and Services
Table 57. Allegro Industries Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 58. Allegro Industries Recent Developments/Updates
Table 59. Lakeland Industries Inc. Basic Information, Manufacturing Base and Competitors
Table 60. Lakeland Industries Inc. Major Business
Table 61. Lakeland Industries Inc. Outdoor PCM Cooling Vests Product and Services
Table 62. Lakeland Industries Inc. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 63. Lakeland Industries Inc. Recent Developments/Updates
Table 64. Uline Inc. Basic Information, Manufacturing Base and Competitors
Table 65. Uline Inc. Major Business
Table 66. Uline Inc. Outdoor PCM Cooling Vests Product and Services
Table 67. Uline Inc. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 68. Uline Inc. Recent Developments/Updates
Table 69. Steele and Associates Inc. Basic Information, Manufacturing Base and Competitors
Table 70. Steele and Associates Inc. Major Business
Table 71. Steele and Associates Inc. Outdoor PCM Cooling Vests Product and Services
Table 72. Steele and Associates Inc. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 73. Steele and Associates Inc. Recent Developments/Updates
Table 74. INUTEQ International B.V. Basic Information, Manufacturing Base and Competitors
Table 75. INUTEQ International B.V. Major Business
Table 76. INUTEQ International B.V. Outdoor PCM Cooling Vests Product and Services
Table 77. INUTEQ International B.V. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 78. INUTEQ International B.V. Recent Developments/Updates

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info@marketpublishers.com

Table 79. EZCooldown Basic Information, Manufacturing Base and Competitors
Table 80. EZCooldown Major Business
Table 81. EZCooldown Outdoor PCM Cooling Vests Product and Services
Table 82. EZCooldown Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 83. EZCooldown Recent Developments/Updates
Table 84. IZI BodyCooling.com Basic Information, Manufacturing Base and Competitors
Table 85. IZI BodyCooling.com Major Business
Table 86. IZI BodyCooling.com Outdoor PCM Cooling Vests Product and Services
Table 87. IZI BodyCooling.com Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 88. IZI BodyCooling.com Recent Developments/Updates
Table 89. TST Sweden AB Basic Information, Manufacturing Base and Competitors
Table 90. TST Sweden AB Major Business
Table 91. TST Sweden AB Outdoor PCM Cooling Vests Product and Services
Table 92. TST Sweden AB Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 93. TST Sweden AB Recent Developments/Updates
Table 94. Drägerwerk AG & Co. KGaA Basic Information, Manufacturing Base and Competitors
Table 95. Drägerwerk AG & Co. KGaA Major Business
Table 96. Drägerwerk AG & Co. KGaA Outdoor PCM Cooling Vests Product and Services
Table 97. Drägerwerk AG & Co. KGaA Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. Drägerwerk AG & Co. KGaA Recent Developments/Updates
Table 99. Ansell Limited Basic Information, Manufacturing Base and Competitors
Table 100. Ansell Limited Major Business
Table 101. Ansell Limited Outdoor PCM Cooling Vests Product and Services
Table 102. Ansell Limited Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Ansell Limited Recent Developments/Updates
Table 104. Liberta Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 105. Liberta Co., Ltd. Major Business
Table 106. Liberta Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 107. Liberta Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 108. Liberta Co., Ltd. Recent Developments/Updates
Table 109. CROWN BOUSAI CO., LTD. Basic Information, Manufacturing Base and Competitors
Table 110. CROWN BOUSAI CO., LTD. Major Business
Table 111. CROWN BOUSAI CO., LTD. Outdoor PCM Cooling Vests Product and Services
Table 112. CROWN BOUSAI CO., LTD. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 113. CROWN BOUSAI CO., LTD. Recent Developments/Updates
Table 114. Nomads Life Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 115. Nomads Life Co., Ltd. Major Business
Table 116. Nomads Life Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 117. Nomads Life Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 118. Nomads Life Co., Ltd. Recent Developments/Updates
Table 119. MPAC Plus Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 120. MPAC Plus Co., Ltd. Major Business
Table 121. MPAC Plus Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 122. MPAC Plus Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 123. MPAC Plus Co., Ltd. Recent Developments/Updates
Table 124. 98 FARENHEIT PRIVATE LIMITED Basic Information, Manufacturing Base and Competitors
Table 125. 98 FARENHEIT PRIVATE LIMITED Major Business
Table 126. 98 FARENHEIT PRIVATE LIMITED Outdoor PCM Cooling Vests Product and Services
Table 127. 98 FARENHEIT PRIVATE LIMITED Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. 98 FARENHEIT PRIVATE LIMITED Recent Developments/Updates
Table 129. Ru Entropy Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 130. Ru Entropy Technology Co., Ltd. Major Business
Table 131. Ru Entropy Technology Co., Ltd. Outdoor PCM Cooling Vests Product and

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Services
Table 132. Ru Entropy Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Ru Entropy Technology Co., Ltd. Recent Developments/Updates
Table 134. Hainan Coinno Intelligent Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 135. Hainan Coinno Intelligent Technology Co., Ltd. Major Business
Table 136. Hainan Coinno Intelligent Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 137. Hainan Coinno Intelligent Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 138. Hainan Coinno Intelligent Technology Co., Ltd. Recent Developments/Updates
Table 139. Haikou Three Three Zero Carbon Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 140. Haikou Three Three Zero Carbon Technology Co., Ltd. Major Business
Table 141. Haikou Three Three Zero Carbon Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 142. Haikou Three Three Zero Carbon Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 143. Haikou Three Three Zero Carbon Technology Co., Ltd. Recent Developments/Updates
Table 144. Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 145. Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Major Business
Table 146. Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 147. Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 148. Nanchang ICE BEAR Cooling and Warming Household Products Co., Ltd. Recent Developments/Updates
Table 149. Hunan Yongfei Special Protective Equipment Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 150. Hunan Yongfei Special Protective Equipment Co., Ltd. Major Business

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Table 151. Hunan Yongfei Special Protective Equipment Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 152. Hunan Yongfei Special Protective Equipment Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 153. Hunan Yongfei Special Protective Equipment Co., Ltd. Recent Developments/Updates
Table 154. Chengdu Cryo-Push Medical Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 155. Chengdu Cryo-Push Medical Technology Co., Ltd. Major Business
Table 156. Chengdu Cryo-Push Medical Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 157. Chengdu Cryo-Push Medical Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 158. Chengdu Cryo-Push Medical Technology Co., Ltd. Recent Developments/Updates
Table 159. Xiamen Artborne Industrial Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 160. Xiamen Artborne Industrial Co., Ltd. Major Business
Table 161. Xiamen Artborne Industrial Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 162. Xiamen Artborne Industrial Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Xiamen Artborne Industrial Co., Ltd. Recent Developments/Updates
Table 164. Guangdong Langcheng Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 165. Guangdong Langcheng Technology Co., Ltd. Major Business
Table 166. Guangdong Langcheng Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 167. Guangdong Langcheng Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 168. Guangdong Langcheng Technology Co., Ltd. Recent Developments/Updates
Table 169. Beijing Guangshunhe Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 170. Beijing Guangshunhe Technology Co., Ltd. Major Business

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Table 171. Beijing Guangshunhe Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 172. Beijing Guangshunhe Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 173. Beijing Guangshunhe Technology Co., Ltd. Recent Developments/Updates
Table 174. WUJIANG FANGQI TEXTILE CO., LTD. Basic Information, Manufacturing Base and Competitors
Table 175. WUJIANG FANGQI TEXTILE CO., LTD. Major Business
Table 176. WUJIANG FANGQI TEXTILE CO., LTD. Outdoor PCM Cooling Vests Product and Services
Table 177. WUJIANG FANGQI TEXTILE CO., LTD. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 178. WUJIANG FANGQI TEXTILE CO., LTD. Recent Developments/Updates
Table 179. Hangzhou Feijie Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 180. Hangzhou Feijie Technology Co., Ltd. Major Business
Table 181. Hangzhou Feijie Technology Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 182. Hangzhou Feijie Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 183. Hangzhou Feijie Technology Co., Ltd. Recent Developments/Updates
Table 184. Shenzhen Renben International Technology Apparel Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 185. Shenzhen Renben International Technology Apparel Co., Ltd. Major Business
Table 186. Shenzhen Renben International Technology Apparel Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 187. Shenzhen Renben International Technology Apparel Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 188. Shenzhen Renben International Technology Apparel Co., Ltd. Recent Developments/Updates
Table 189. Chengdu Shenjia Shelter Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 190. Chengdu Shenjia Shelter Technology Co., Ltd. Major Business
Table 191. Chengdu Shenjia Shelter Technology Co., Ltd. Outdoor PCM Cooling Vests

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Product and Services
Table 192. Chengdu Shenjia Shelter Technology Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Chengdu Shenjia Shelter Technology Co., Ltd. Recent Developments/Updates
Table 194. Hiwing Materials Industrial Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 195. Hiwing Materials Industrial Co., Ltd. Major Business
Table 196. Hiwing Materials Industrial Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 197. Hiwing Materials Industrial Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 198. Hiwing Materials Industrial Co., Ltd. Recent Developments/Updates
Table 199. Hangzhou Yingqian Trading Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 200. Hangzhou Yingqian Trading Co., Ltd. Major Business
Table 201. Hangzhou Yingqian Trading Co., Ltd. Outdoor PCM Cooling Vests Product and Services
Table 202. Hangzhou Yingqian Trading Co., Ltd. Outdoor PCM Cooling Vests Sales Quantity (Sets), Average Price (US$/Set), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 203. Hangzhou Yingqian Trading Co., Ltd. Recent Developments/Updates
Table 204. Global Outdoor PCM Cooling Vests Sales Quantity by Manufacturer (2021-2026) & (Sets)
Table 205. Global Outdoor PCM Cooling Vests Revenue by Manufacturer (2021-2026) & (USD Million)
Table 206. Global Outdoor PCM Cooling Vests Average Price by Manufacturer (2021-2026) & (US$/Set)
Table 207. Market Position of Manufacturers in Outdoor PCM Cooling Vests, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 208. Head Office and Outdoor PCM Cooling Vests Production Site of Key Manufacturer
Table 209. Outdoor PCM Cooling Vests Market: Company Product Type Footprint
Table 210. Outdoor PCM Cooling Vests Market: Company Product Application Footprint
Table 211. Outdoor PCM Cooling Vests New Market Entrants and Barriers to Market Entry
Table 212. Outdoor PCM Cooling Vests Mergers, Acquisition, Agreements, and

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Collaborations
Table 213. Global Outdoor PCM Cooling Vests Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 214. Global Outdoor PCM Cooling Vests Sales Quantity by Region (2021-2026) & (Sets)
Table 215. Global Outdoor PCM Cooling Vests Sales Quantity by Region (2027-2032) & (Sets)
Table 216. Global Outdoor PCM Cooling Vests Consumption Value by Region (2021-2026) & (USD Million)
Table 217. Global Outdoor PCM Cooling Vests Consumption Value by Region (2027-2032) & (USD Million)
Table 218. Global Outdoor PCM Cooling Vests Average Price by Region (2021-2026) & (US$/Set)
Table 219. Global Outdoor PCM Cooling Vests Average Price by Region (2027-2032) & (US$/Set)
Table 220. Global Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2026) & (Sets)
Table 221. Global Outdoor PCM Cooling Vests Sales Quantity by Type (2027-2032) & (Sets)
Table 222. Global Outdoor PCM Cooling Vests Consumption Value by Type (2021-2026) & (USD Million)
Table 223. Global Outdoor PCM Cooling Vests Consumption Value by Type (2027-2032) & (USD Million)
Table 224. Global Outdoor PCM Cooling Vests Average Price by Type (2021-2026) & (US$/Set)
Table 225. Global Outdoor PCM Cooling Vests Average Price by Type (2027-2032) & (US$/Set)
Table 226. Global Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2026) & (Sets)
Table 227. Global Outdoor PCM Cooling Vests Sales Quantity by Application (2027-2032) & (Sets)
Table 228. Global Outdoor PCM Cooling Vests Consumption Value by Application (2021-2026) & (USD Million)
Table 229. Global Outdoor PCM Cooling Vests Consumption Value by Application (2027-2032) & (USD Million)
Table 230. Global Outdoor PCM Cooling Vests Average Price by Application (2021-2026) & (US$/Set)
Table 231. Global Outdoor PCM Cooling Vests Average Price by Application (2027-2032) & (US$/Set)

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Table 232. North America Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2026) & (Sets)
Table 233. North America Outdoor PCM Cooling Vests Sales Quantity by Type (2027-2032) & (Sets)
Table 234. North America Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2026) & (Sets)
Table 235. North America Outdoor PCM Cooling Vests Sales Quantity by Application (2027-2032) & (Sets)
Table 236. North America Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2026) & (Sets)
Table 237. North America Outdoor PCM Cooling Vests Sales Quantity by Country (2027-2032) & (Sets)
Table 238. North America Outdoor PCM Cooling Vests Consumption Value by Country (2021-2026) & (USD Million)
Table 239. North America Outdoor PCM Cooling Vests Consumption Value by Country (2027-2032) & (USD Million)
Table 240. Europe Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2026) & (Sets)
Table 241. Europe Outdoor PCM Cooling Vests Sales Quantity by Type (2027-2032) & (Sets)
Table 242. Europe Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2026) & (Sets)
Table 243. Europe Outdoor PCM Cooling Vests Sales Quantity by Application (2027-2032) & (Sets)
Table 244. Europe Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2026) & (Sets)
Table 245. Europe Outdoor PCM Cooling Vests Sales Quantity by Country (2027-2032) & (Sets)
Table 246. Europe Outdoor PCM Cooling Vests Consumption Value by Country (2021-2026) & (USD Million)
Table 247. Europe Outdoor PCM Cooling Vests Consumption Value by Country (2027-2032) & (USD Million)
Table 248. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2026) & (Sets)
Table 249. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Type (2027-2032) & (Sets)
Table 250. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2026) & (Sets)
Table 251. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Application

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(2027-2032) & (Sets)
Table 252. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Region (2021-2026) & (Sets)
Table 253. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity by Region (2027-2032) & (Sets)
Table 254. Asia-Pacific Outdoor PCM Cooling Vests Consumption Value by Region (2021-2026) & (USD Million)
Table 255. Asia-Pacific Outdoor PCM Cooling Vests Consumption Value by Region (2027-2032) & (USD Million)
Table 256. South America Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2026) & (Sets)
Table 257. South America Outdoor PCM Cooling Vests Sales Quantity by Type (2027-2032) & (Sets)
Table 258. South America Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2026) & (Sets)
Table 259. South America Outdoor PCM Cooling Vests Sales Quantity by Application (2027-2032) & (Sets)
Table 260. South America Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2026) & (Sets)
Table 261. South America Outdoor PCM Cooling Vests Sales Quantity by Country (2027-2032) & (Sets)
Table 262. South America Outdoor PCM Cooling Vests Consumption Value by Country (2021-2026) & (USD Million)
Table 263. South America Outdoor PCM Cooling Vests Consumption Value by Country (2027-2032) & (USD Million)
Table 264. Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Type (2021-2026) & (Sets)
Table 265. Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Type (2027-2032) & (Sets)
Table 266. Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Application (2021-2026) & (Sets)
Table 267. Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Application (2027-2032) & (Sets)
Table 268. Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Country (2021-2026) & (Sets)
Table 269. Middle East & Africa Outdoor PCM Cooling Vests Sales Quantity by Country (2027-2032) & (Sets)
Table 270. Middle East & Africa Outdoor PCM Cooling Vests Consumption Value by Country (2021-2026) & (USD Million)

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Table 271. Middle East & Africa Outdoor PCM Cooling Vests Consumption Value by Country (2027-2032) & (USD Million)
Table 272. Outdoor PCM Cooling Vests Raw Material
Table 273. Key Manufacturers of Outdoor PCM Cooling Vests Raw Materials
Table 274. Outdoor PCM Cooling Vests Typical Distributors
Table 275. Outdoor PCM Cooling Vests Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Outdoor PCM Cooling Vests Picture
Figure 2. Global Outdoor PCM Cooling Vests Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Outdoor PCM Cooling Vests Revenue Market Share by Type in 2025
Figure 4. Pocketed Discrete-Pack Vest Examples
Figure 5. Segmented Flexible-Module Vest Examples
Figure 6. Monolithic PCM Carrier Vest Examples
Figure 7. Other Examples
Figure 8. Global Outdoor PCM Cooling Vests Revenue by Phase Change Temperature, (USD Million), 2021 & 2025 & 2032
Figure 9. Global Outdoor PCM Cooling Vests Revenue Market Share by Phase Change Temperature in 2025
Figure 10. ?15°C Examples
Figure 11. >15°C to 22°C Examples
Figure 12. >22°C to 26°C Examples
Figure 13. >26°C Examples
Figure 14. Global Outdoor PCM Cooling Vests Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 15. Global Outdoor PCM Cooling Vests Revenue Market Share by Application in 2025
Figure 16. Building Construction Examples
Figure 17. Road and Municipal Maintenance Examples
Figure 18. Transportation and Delivery Operations Examples
Figure 19. High-Heat Manufacturing Examples
Figure 20. Mining Operations Examples
Figure 21. Oil and Gas Operations Examples
Figure 22. Chemical Plant Operations Examples
Figure 23. Firefighting and Hazmat Response Examples
Figure 24. Firefighting and Hazmat Response Examples
Figure 25. Global Outdoor PCM Cooling Vests Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 26. Global Outdoor PCM Cooling Vests Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 27. Global Outdoor PCM Cooling Vests Sales Quantity (2021-2032) & (Sets)
Figure 28. Global Outdoor PCM Cooling Vests Price (2021-2032) & (US$/Set)

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Figure 29. Global Outdoor PCM Cooling Vests Sales Quantity Market Share by Manufacturer in 2025
Figure 30. Global Outdoor PCM Cooling Vests Revenue Market Share by Manufacturer in 2025
Figure 31. Producer Shipments of Outdoor PCM Cooling Vests by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 32. Top 3 Outdoor PCM Cooling Vests Manufacturer (Revenue) Market Share in 2025
Figure 33. Top 6 Outdoor PCM Cooling Vests Manufacturer (Revenue) Market Share in 2025
Figure 34. Global Outdoor PCM Cooling Vests Sales Quantity Market Share by Region (2021-2032)
Figure 35. Global Outdoor PCM Cooling Vests Consumption Value Market Share by Region (2021-2032)
Figure 36. North America Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 37. Europe Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 38. Asia-Pacific Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 39. South America Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 40. Middle East & Africa Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 41. Global Outdoor PCM Cooling Vests Sales Quantity Market Share by Type (2021-2032)
Figure 42. Global Outdoor PCM Cooling Vests Consumption Value Market Share by Type (2021-2032)
Figure 43. Global Outdoor PCM Cooling Vests Average Price by Type (2021-2032) & (US$/Set)
Figure 44. Global Outdoor PCM Cooling Vests Sales Quantity Market Share by Application (2021-2032)
Figure 45. Global Outdoor PCM Cooling Vests Revenue Market Share by Application (2021-2032)
Figure 46. Global Outdoor PCM Cooling Vests Average Price by Application (2021-2032) & (US$/Set)
Figure 47. North America Outdoor PCM Cooling Vests Sales Quantity Market Share by Type (2021-2032)
Figure 48. North America Outdoor PCM Cooling Vests Sales Quantity Market Share by

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Application (2021-2032)
Figure 49. North America Outdoor PCM Cooling Vests Sales Quantity Market Share by Country (2021-2032)
Figure 50. North America Outdoor PCM Cooling Vests Consumption Value Market Share by Country (2021-2032)
Figure 51. United States Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 52. Canada Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 53. Mexico Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 54. Europe Outdoor PCM Cooling Vests Sales Quantity Market Share by Type (2021-2032)
Figure 55. Europe Outdoor PCM Cooling Vests Sales Quantity Market Share by Application (2021-2032)
Figure 56. Europe Outdoor PCM Cooling Vests Sales Quantity Market Share by Country (2021-2032)
Figure 57. Europe Outdoor PCM Cooling Vests Consumption Value Market Share by Country (2021-2032)
Figure 58. Germany Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 59. France Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 60. United Kingdom Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 61. Russia Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 62. Italy Outdoor PCM Cooling Vests Consumption Value (2021-2032) & (USD Million)
Figure 63. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity Market Share by Type (2021-2032)
Figure 64. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity Market Share by Application (2021-2032)
Figure 65. Asia-Pacific Outdoor PCM Cooling Vests Sales Quantity Market Share by Region (2021-2032)
Figure 66. Asia-Pacific Outdoor PCM Cooling Vests Consumption Value Market Share by Region (2021-2032)

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