

# **Hydronic Control Market Forecasts to 2034 – Global Analysis By Product Type (Actuators, Valves, Control Panels, Flow Controllers and Other Product Types), Installation Type (New Installation, Retrofit Installation and Other Installation Types), Application (Residential, Commercial, Industrial and Other Applications) and by Geography**

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## **Abstracts**

According to Statistics MRC, the Global Hydronic Control Market is accounted for \$48.5 billion in 2026 and is expected to reach \$72.2 billion by 2034 growing at a CAGR of 5.1% during the forecast period. The management and control of heating or cooling systems by using water as a heat-transfer medium is referred to as hydronic control. To guarantee accurate and effective temperature control, this technique is frequently used in commercial, industrial, and residential settings. Boilers, pumps, valves, and piping are the usual components of hydronic systems. These systems circulate hot or cold water to various parts, like air handlers, under floor heating systems, and radiators.

According to the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), hydronic control systems play a crucial role in optimizing energy efficiency and thermal comfort in buildings.

### **Market Dynamics:**

#### **Driver:**

Growing need for energy-saving remedies

Growing environmental consciousness and the desire to use less energy overall are driving up demand for energy-efficient heating and cooling solutions. Because they provide an extremely effective way to transfer thermal energy, hydronic control systems are becoming more and more popular. This is because they ensure optimal temperature control while minimizing energy waste. Additionally, the adoption of hydronic solutions as the preferred option for HVAC systems is being pushed by the emphasis on sustainability in both residential and commercial spaces.

**Restraint:**

Initial expense and installation difficulties

The initial cost of installing these systems is one of the main obstacles facing the hydronic control market. Although hydronic solutions save energy over the long run, some customers may find the initial cost prohibitive. Moreover, the installation procedure might be difficult, particularly in older buildings where hydronic system retrofitting can be expensive and logistically difficult. For broader market acceptance, these installation and cost barriers must be removed.

**Opportunity:**

Expanding need for eco-friendly building solutions

A major opportunity exists for the hydronic control market as a result of the growing emphasis on sustainability and environmental consciousness. Globally, there is an increasing need for HVAC solutions that lower carbon emissions and promote energy efficiency as governments implement more stringent building codes and environmental regulations. Furthermore, the integration of renewable energy sources and optimization of thermal comfort make hydronic systems highly advantageous for taking advantage of this trend.

**Threat:**

Alternate technologies competition in the market

The competition from alternative HVAC technologies is a major threat to the hydronic control market. Certain emerging technologies, such as variable refrigerant flow (VRF) systems and ductless mini-split systems, may be thought to be easier to install and maintain, particularly in smaller homes or businesses. Moreover, in order to mitigate this risk, the

hydronic control industry needs to consistently innovate, exhibit exceptional energy efficiency, and inform customers about the long-term advantages of hydronic systems.

### **Covid-19 Impact:**

The hydronic control market was severely affected by the COVID-19 pandemic, which also caused delays in project timelines, supply chain operations, and production. The demand for HVAC systems was impacted by a slowdown in construction activities brought on by lockdowns, social distancing measures, and economic uncertainty. Additionally, the financial burden that the pandemic placed on consumers and businesses also affected investment choices, which might have postponed the adoption of hydronic control technologies.

The Valves segment is expected to be the largest during the forecast period

It is projected that the valves segment will command the largest market share. In hydronic systems, valves are essential because they control water flow and provide accurate temperature distribution control. They are essential parts for regulating and balancing the hydronic system to fulfill distinct cooling or heating needs in various zones. Moreover, the need for valves stems from their adaptability, dependability, and effectiveness in preserving peak performance.

The Residential segment is expected to have the highest CAGR during the forecast period

The market's highest CAGR has been seen in the residential sector. The growth of the residential segment can be attributed to a heightened emphasis on HVAC solutions in homes that are environmentally sustainable and energy-efficient. Hydronic control systems are becoming more and more popular among homeowners due to their effectiveness in offering accurate temperature control, increased comfort, and possible energy savings. Additionally, the growing consciousness of indoor air quality and the incorporation of smart home technologies are contributing factors to the increased demand for hydronic systems.

### **Region with largest share:**

With regard to the hydronic control market, North America is expected to hold the largest share. The widespread use of hydronic control systems has been fueled by the region's thriving construction industry as well as a growing emphasis on sustainable

HVAC solutions and energy efficiency. Furthermore, the use of hydronic systems in both residential and commercial settings is prevalent due to strict building regulations and an increased consciousness of environmental impact. An established infrastructure and a proactive stance towards the adoption of cutting-edge heating and cooling technologies define the North American market.

### **Region with highest CAGR:**

Asia-Pacific region has the highest CAGR substantial growth as it is attributed to the region's dynamic construction industry, rapid urbanization, and growing awareness of energy-efficient solutions. Asia-Pacific nations, such as China and India, are seeing a boom in residential and commercial building projects along with significant infrastructure development. Moreover, hydronic systems are well-suited to the demands of modern HVAC technologies, especially those that provide accurate temperature control and energy efficiency.

### **Key players in the market**

Some of the key players in Hydronic Control market include Honeywell International Inc., Johnson Controls International plc, Armstrong, Schneider Electric SE, Emerson Electric Co., Danfoss A/S, Caleffi S.p.A., Siemens AG, Xylem, Belimo Holding AG and Taco Comfort Solutions.

### **Key Developments:**

In September 2023, Armstrong signed a multiyear contract to remain general manager of the Arizona Coyotes on Wednesday. Terms of the contract were not disclosed. The 53-year-old enters his fourth season as GM since he was hired Sept. 17, 2020. Arizona has added key players during Armstrong's tenure, this offseason trading for defenseman Sean Durzi and signing free agent forwards Jason Zucker, Alex Kerfoot and Nick Bjugstad, and defensemen Troy Stecher and Matt Dumba.

In June 2023, Honeywell International Inc. HON has entered into a definitive agreement to acquire heads-up-display (HUD) assets of Swedish aerospace and defense company Saab Technology. The financial terms of the transaction are kept under wraps. The HUD system reduces the workload for pilots, helps them with increased situational awareness and increases flight safety.

In May 2023, Johnson Controls, the global leader for smart, healthy and sustainable

buildings, today announced its collaboration with Harris County Sports & Convention Corporation (HCSCC), NRG Park and Harris County, Texas, to embark on a historic sustainability and energy efficiency project at one of the nation's busiest sports and entertainment complexes.

#### Product Types Covered:

Actuators

Valves

Control Panels

Flow Controllers

Other Product Types

#### Installation Types Covered:

New Installation

Retrofit Installation

Other Installation Types

#### Applications Covered:

Residential

Commercial

Industrial

Other Applications

#### Regions Covered:

## North America

US

Canada

Mexico

## Europe

Germany

UK

Italy

France

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

### **What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

## Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

## Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

## Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 Application Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL HYDRONIC CONTROL MARKET, BY PRODUCT TYPE**

- 5.1 Introduction
- 5.2 Actuators
- 5.3 Valves
- 5.4 Control Panels
- 5.5 Flow Controllers
- 5.6 Other Product Types

## **6 GLOBAL HYDRONIC CONTROL MARKET, BY INSTALLATION TYPE**

- 6.1 Introduction
- 6.2 New Installation
- 6.3 Retrofit Installation
- 6.4 Other Installation Types

## **7 GLOBAL HYDRONIC CONTROL MARKET, BY APPLICATION**

- 7.1 Introduction
- 7.2 Residential
- 7.3 Commercial
- 7.4 Industrial
- 7.5 Other Applications

## **8 GLOBAL HYDRONIC CONTROL MARKET, BY GEOGRAPHY**

- 8.1 Introduction
- 8.2 North America
  - 8.2.1 US
  - 8.2.2 Canada
  - 8.2.3 Mexico
- 8.3 Europe
  - 8.3.1 Germany
  - 8.3.2 UK
  - 8.3.3 Italy
  - 8.3.4 France
  - 8.3.5 Spain
  - 8.3.6 Rest of Europe
- 8.4 Asia Pacific

- 8.4.1 Japan
- 8.4.2 China
- 8.4.3 India
- 8.4.4 Australia
- 8.4.5 New Zealand
- 8.4.6 South Korea
- 8.4.7 Rest of Asia Pacific
- 8.5 South America
  - 8.5.1 Argentina
  - 8.5.2 Brazil
  - 8.5.3 Chile
  - 8.5.4 Rest of South America
- 8.6 Middle East & Africa
  - 8.6.1 Saudi Arabia
  - 8.6.2 UAE
  - 8.6.3 Qatar
  - 8.6.4 South Africa
  - 8.6.5 Rest of Middle East & Africa

## **9 KEY DEVELOPMENTS**

- 9.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 9.2 Acquisitions & Mergers
- 9.3 New Product Launch
- 9.4 Expansions
- 9.5 Other Key Strategies

## **10 COMPANY PROFILING**

- 10.1 Honeywell International Inc.
- 10.2 Johnson Controls International plc
- 10.3 Armstrong
- 10.4 Schneider Electric SE
- 10.5 Emerson Electric Co.
- 10.6 Danfoss A/S
- 10.7 Caleffi S.p.A.
- 10.8 Siemens AG
- 10.9 Xylem
- 10.10 Belimo Holding AG

## 10.11 Taco Comfort Solutions

## List Of Tables

### LIST OF TABLES

- Table 1 Global Hydronic Control Market Outlook, By Region (2023-2034) (\$MN)
- Table 2 Global Hydronic Control Market Outlook, By Product Type (2023-2034) (\$MN)
- Table 3 Global Hydronic Control Market Outlook, By Actuators (2023-2034) (\$MN)
- Table 4 Global Hydronic Control Market Outlook, By Valves (2023-2034) (\$MN)
- Table 5 Global Hydronic Control Market Outlook, By Control Panels (2023-2034) (\$MN)
- Table 6 Global Hydronic Control Market Outlook, By Flow Controllers (2023-2034) (\$MN)
- Table 7 Global Hydronic Control Market Outlook, By Other Product Types (2023-2034) (\$MN)
- Table 8 Global Hydronic Control Market Outlook, By Installation Type (2023-2034) (\$MN)
- Table 9 Global Hydronic Control Market Outlook, By New Installation (2023-2034) (\$MN)
- Table 10 Global Hydronic Control Market Outlook, By Retrofit Installation (2023-2034) (\$MN)
- Table 11 Global Hydronic Control Market Outlook, By Other Installation Types (2023-2034) (\$MN)
- Table 12 Global Hydronic Control Market Outlook, By Application (2023-2034) (\$MN)
- Table 13 Global Hydronic Control Market Outlook, By Residential (2023-2034) (\$MN)
- Table 14 Global Hydronic Control Market Outlook, By Commercial (2023-2034) (\$MN)
- Table 15 Global Hydronic Control Market Outlook, By Industrial (2023-2034) (\$MN)
- Table 16 Global Hydronic Control Market Outlook, By Other Applications (2023-2034) (\$MN)
- Table 17 North America Hydronic Control Market Outlook, By Country (2023-2034) (\$MN)
- Table 18 North America Hydronic Control Market Outlook, By Product Type (2023-2034) (\$MN)
- Table 19 North America Hydronic Control Market Outlook, By Actuators (2023-2034) (\$MN)
- Table 20 North America Hydronic Control Market Outlook, By Valves (2023-2034) (\$MN)
- Table 21 North America Hydronic Control Market Outlook, By Control Panels (2023-2034) (\$MN)
- Table 22 North America Hydronic Control Market Outlook, By Flow Controllers (2023-2034) (\$MN)

Table 23 North America Hydronic Control Market Outlook, By Other Product Types (2023-2034) (\$MN)

Table 24 North America Hydronic Control Market Outlook, By Installation Type (2023-2034) (\$MN)

Table 25 North America Hydronic Control Market Outlook, By New Installation (2023-2034) (\$MN)

Table 26 North America Hydronic Control Market Outlook, By Retrofit Installation (2023-2034) (\$MN)

Table 27 North America Hydronic Control Market Outlook, By Other Installation Types (2023-2034) (\$MN)

Table 28 North America Hydronic Control Market Outlook, By Application (2023-2034) (\$MN)

Table 29 North America Hydronic Control Market Outlook, By Residential (2023-2034) (\$MN)

Table 30 North America Hydronic Control Market Outlook, By Commercial (2023-2034) (\$MN)

Table 31 North America Hydronic Control Market Outlook, By Industrial (2023-2034) (\$MN)

Table 32 North America Hydronic Control Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 33 Europe Hydronic Control Market Outlook, By Country (2023-2034) (\$MN)

Table 34 Europe Hydronic Control Market Outlook, By Product Type (2023-2034) (\$MN)

Table 35 Europe Hydronic Control Market Outlook, By Actuators (2023-2034) (\$MN)

Table 36 Europe Hydronic Control Market Outlook, By Valves (2023-2034) (\$MN)

Table 37 Europe Hydronic Control Market Outlook, By Control Panels (2023-2034) (\$MN)

Table 38 Europe Hydronic Control Market Outlook, By Flow Controllers (2023-2034) (\$MN)

Table 39 Europe Hydronic Control Market Outlook, By Other Product Types (2023-2034) (\$MN)

Table 40 Europe Hydronic Control Market Outlook, By Installation Type (2023-2034) (\$MN)

Table 41 Europe Hydronic Control Market Outlook, By New Installation (2023-2034) (\$MN)

Table 42 Europe Hydronic Control Market Outlook, By Retrofit Installation (2023-2034) (\$MN)

Table 43 Europe Hydronic Control Market Outlook, By Other Installation Types (2023-2034) (\$MN)

Table 44 Europe Hydronic Control Market Outlook, By Application (2023-2034) (\$MN)

Table 45 Europe Hydronic Control Market Outlook, By Residential (2023-2034) (\$MN)

Table 46 Europe Hydronic Control Market Outlook, By Commercial (2023-2034) (\$MN)

Table 47 Europe Hydronic Control Market Outlook, By Industrial (2023-2034) (\$MN)

Table 48 Europe Hydronic Control Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 49 Asia Pacific Hydronic Control Market Outlook, By Country (2023-2034) (\$MN)

Table 50 Asia Pacific Hydronic Control Market Outlook, By Product Type (2023-2034) (\$MN)

Table 51 Asia Pacific Hydronic Control Market Outlook, By Actuators (2023-2034) (\$MN)

Table 52 Asia Pacific Hydronic Control Market Outlook, By Valves (2023-2034) (\$MN)

Table 53 Asia Pacific Hydronic Control Market Outlook, By Control Panels (2023-2034) (\$MN)

Table 54 Asia Pacific Hydronic Control Market Outlook, By Flow Controllers (2023-2034) (\$MN)

Table 55 Asia Pacific Hydronic Control Market Outlook, By Other Product Types (2023-2034) (\$MN)

Table 56 Asia Pacific Hydronic Control Market Outlook, By Installation Type (2023-2034) (\$MN)

Table 57 Asia Pacific Hydronic Control Market Outlook, By New Installation (2023-2034) (\$MN)

Table 58 Asia Pacific Hydronic Control Market Outlook, By Retrofit Installation (2023-2034) (\$MN)

Table 59 Asia Pacific Hydronic Control Market Outlook, By Other Installation Types (2023-2034) (\$MN)

Table 60 Asia Pacific Hydronic Control Market Outlook, By Application (2023-2034) (\$MN)

Table 61 Asia Pacific Hydronic Control Market Outlook, By Residential (2023-2034) (\$MN)

Table 62 Asia Pacific Hydronic Control Market Outlook, By Commercial (2023-2034) (\$MN)

Table 63 Asia Pacific Hydronic Control Market Outlook, By Industrial (2023-2034) (\$MN)

Table 64 Asia Pacific Hydronic Control Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 65 South America Hydronic Control Market Outlook, By Country (2023-2034) (\$MN)

Table 66 South America Hydronic Control Market Outlook, By Product Type (2023-2034) (\$MN)

Table 67 South America Hydronic Control Market Outlook, By Actuators (2023-2034)

(\$MN)

Table 68 South America Hydronic Control Market Outlook, By Valves (2023-2034)

(\$MN)

Table 69 South America Hydronic Control Market Outlook, By Control Panels (2023-2034) (\$MN)

Table 70 South America Hydronic Control Market Outlook, By Flow Controllers (2023-2034) (\$MN)

Table 71 South America Hydronic Control Market Outlook, By Other Product Types (2023-2034) (\$MN)

Table 72 South America Hydronic Control Market Outlook, By Installation Type (2023-2034) (\$MN)

Table 73 South America Hydronic Control Market Outlook, By New Installation (2023-2034) (\$MN)

Table 74 South America Hydronic Control Market Outlook, By Retrofit Installation (2023-2034) (\$MN)

Table 75 South America Hydronic Control Market Outlook, By Other Installation Types (2023-2034) (\$MN)

Table 76 South America Hydronic Control Market Outlook, By Application (2023-2034) (\$MN)

Table 77 South America Hydronic Control Market Outlook, By Residential (2023-2034) (\$MN)

Table 78 South America Hydronic Control Market Outlook, By Commercial (2023-2034) (\$MN)

Table 79 South America Hydronic Control Market Outlook, By Industrial (2023-2034) (\$MN)

Table 80 South America Hydronic Control Market Outlook, By Other Applications (2023-2034) (\$MN)

Table 81 Middle East & Africa Hydronic Control Market Outlook, By Country (2023-2034) (\$MN)

Table 82 Middle East & Africa Hydronic Control Market Outlook, By Product Type (2023-2034) (\$MN)

Table 83 Middle East & Africa Hydronic Control Market Outlook, By Actuators (2023-2034) (\$MN)

Table 84 Middle East & Africa Hydronic Control Market Outlook, By Valves (2023-2034) (\$MN)

Table 85 Middle East & Africa Hydronic Control Market Outlook, By Control Panels (2023-2034) (\$MN)

Table 86 Middle East & Africa Hydronic Control Market Outlook, By Flow Controllers (2023-2034) (\$MN)

Table 87 Middle East & Africa Hydronic Control Market Outlook, By Other Product Types (2023-2034) (\$MN)

Table 88 Middle East & Africa Hydronic Control Market Outlook, By Installation Type (2023-2034) (\$MN)

Table 89 Middle East & Africa Hydronic Control Market Outlook, By New Installation (2023-2034) (\$MN)

Table 90 Middle East & Africa Hydronic Control Market Outlook, By Retrofit Installation (2023-2034) (\$MN)

Table 91 Middle East & Africa Hydronic Control Market Outlook, By Other Installation Types (2023-2034) (\$MN)

Table 92 Middle East & Africa Hydronic Control Market Outlook, By Application (2023-2034) (\$MN)

Table 93 Middle East & Africa Hydronic Control Market Outlook, By Residential (2023-2034) (\$MN)

Table 94 Middle East & Africa Hydronic Control Market Outlook, By Commercial (2023-2034) (\$MN)

Table 95 Middle East & Africa Hydronic Control Market Outlook, By Industrial (2023-2034) (\$MN)

Table 96 Middle East & Africa Hydronic Control Market Outlook, By Other Applications (2023-2034) (\$MN)

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