

# **Asia Pacific Recirculating Chillers Market By Type (Rack Mounted, Floor Mounted and Bench Top), By Application (Laboratory, Industrial, Medical and Others), By Temperature Range (1°C to 100°C, -100°C to 0°C and Others), By Country, Industry Analysis and Forecast, 2020 - 2026**

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## **Abstracts**

The Asia Pacific Recirculating Chillers Market would witness market growth of 5.4% CAGR during the forecast period (2020-2026).

Recirculating chillers are used for cooling laboratory equipment such as rotary evaporators. Chillers are available in various types of cooling capacities, reachable temperature ranges and reservoir quantities. Applications include separation, control of chemical reactions, spectroscopy and laboratory automation.

Recirculating chillers focus on providing cooling to remove mechanical or electrical heat produced in or generated by an exothermic reaction. They also facilitate the temperature checking of electronics in vacuum chambers, heat exchangers, jacketed reaction vessels, plastic molding, extrusion and plasma etching. In the healthcare industry, recirculating chillers cool lasers and medical imaging machineries.

The process of heat removal is accelerated by combining the circulation of the coolant with a high-pressure flow. The chiller's power is measured in watts; the higher the power, the faster would be the heat removal rate. Like all chillers, the recirculating chiller systems consist of a compressor, a condenser, a thermostatic expansion valve and an evaporator. A refrigerant gas is injected into a compressor where, under high pressure, it is converted from a compressed gas to a high temperature and a high-pressure gas. It then travels to the condenser, where it is cooled down and condensed into a liquid.

This occurs as the ambient air or water takes the heat of the refrigerant. Next, it passes

through the expansion valve, where the pressure and temperature drop below the point of the process fluid. Because of this, the heat is transferred to the fluid, which causes evaporation. Then the cycle begins all over again when the gas returns to the compressor.

Based on Type, the market is segmented into Rack Mounted, Floor Mounted and Bench Top. Based on Application, the market is segmented into Laboratory, Industrial, Medical and Others. Based on Temperature Range, the market is segmented into 1°C to 100°C, -100°C to 0°C and Others. Based on countries, the market is segmented into China, Japan, India, South Korea, Singapore, Malaysia, and Rest of Asia Pacific.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Agilent Technologies, Inc., BASF SE (ThermoTek), Thermo Fisher Scientific, Inc., Across International, LLC, BUCHI Labortechnik AG, Dimplex Thermal Solutions, Inc. (GlenDimplex), JULABO GmbH, LAUDA-Brinkmann, LP, Lytron, Inc. (Boyd Corporation), and Peter Huber K?ltemaschinenbau AG.

## Scope of the Study

## Market Segmentation:

### By Type

Rack Mounted

Floor Mounted

Bench Top

### By Application

Laboratory

Industrial

Medical

Others

## By Temperature Range

1°C to 100°C

-100°C to 0°C

Others

## By Country

China

Japan

India

South Korea

Singapore

Malaysia

Rest of Asia Pacific

## Companies Profiled

Agilent Technologies, Inc.

BASF SE (ThermoTek)

Thermo Fisher Scientific, Inc.

Across International, LLC

BUCHI Labortechnik AG

Dimplex Thermal Solutions, Inc. (GlenDimplex)

JULABO GmbH

LAUDA-Brinkmann, LP

Lytron, Inc. (Boyd Corporation)

Peter Huber K?ltemaschinenbau AG

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