Plate Type
Heat Exchanger

The Plate Type Heat Exchanger from Rapid Cool is designed for superior heat transfer efficiency in a compact and lightweight structure. Engineered with high-quality plates and optimized flow channels, it ensures maximum heat exchange while minimizing space requirements. Ideal for various industrial and HVAC applications, this heat exchanger provides exceptional performance with low energy consumption.

Working Principle

A Plate Type Heat Exchanger consists of multiple thin, corrugated metal plates arranged in a stack to create parallel flow paths. Hot and cold fluids pass through alternating channels, facilitating efficient heat transfer. The unique plate design enhances turbulence, improving heat exchange efficiency and reducing fouling.

Key Features

High Heat Transfer Efficiency – Maximized thermal performance with minimal energy loss
Compact & Space-Saving Design – Smaller footprint compared to shell & tube heat exchanger
Corrosion-Resistant Plates – Available in Stainless Steel, Titanium, and other materials
Leak-Proof Gasketed or Brazed Construction – Ensures safety and durability
Easy Maintenance & Cleaning – Simple disassembly for periodic servicing
High Pressure & Temperature Resistance – Designed to withstand demanding conditions

Technical Specifications

- **Plate Material:** SS304, SS316, Titanium, Hastelloy (as per requirement)
- **Frame Material:** Carbon Steel, Stainless Steel
- **Flow Arrangement:** Single-pass & Multi-pass options
- **Temperature Range:** -50°C to 200°C
- **Pressure Rating:** Up to 25 bar
- **Plate Thickness:** 0.4mm – 1.0mm
- **Gasket Material:** Nitrile, EPDM, Viton (for gasketed models)
- **Cooling Medium:** Water, Oil, Refrigerants, Steam, Glycol
- NON IBR

Applications

HVAC & District Cooling Systems – Efficient climate control solutions
Power Generation – Heat recovery and energy optimization
Food & Beverage Processing – Pasteurization and temperature control
Chemical & Pharmaceutical Industries – Precise thermal management
Marine & Automotive Systems – Compact cooling for engines and hydraulics
Oil & Gas Processing – Effective heat exchange in demanding environments

Advantages

- **Superior Heat Transfer Efficiency:** Optimized design for rapid temperature regulation
- **Space-Efficient & Lightweight:** Perfect for industries with limited installation space
- **Customizable Configurations:** Tailored solutions based on specific requirements
- **Energy-Efficient Operation:** Reduced power consumption for long-term cost savings
- **Reliable & Leak-Proof Design:** Ensuring safe and long-lasting performance

Web :- rapidcool.co.in
Address :- B-151, Block B, Mayapuri Industrial Area Phase I, Mayapuri, New Delhi, 110064
E-Mail ID :- info@rapidcool.co.in, sales@rapidcool.co.in
Phone No. :- +91-9971998827, +91-9971998830, +91-9278366455