

CONTACT US



Website :

www.gireeshcoolingtowers.com
www.gireeshheatexchangers.com



Contact

+91 99527 15671



Email

gireeshheatexchangers@gmail.com



Gireesh
Heat
Exchangers



ABOUT US



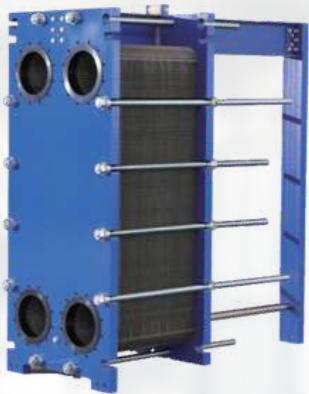
Gireesh Heat Exchangers is a premier manufacturer, supplier, and exporter specializing in high-performance Plate Heat Exchangers (PHE). We engineer robust, reliable, and energy-efficient thermal management solutions designed to meet the demanding requirements of diverse global industries.

OUR MISSION

To provide innovative, high-quality industrial cooling and process equipment that enhances productivity and operational efficiency.

GIREEESH PLATE HEAT EXCHANGER

Maximum Heat Transfer in Minimum Space



Gasketed Plate Heat Exchanger (GPHE)

Designed for maximum operational flexibility, our Gasketed Plate Heat Exchangers feature a modular pack of corrugated plates sealed with high-performance elastomeric gaskets to ensure complete fluid separation. This adaptable design delivers exceptional thermal efficiency and allows for easy disassembly, making routine maintenance, mechanical cleaning, and capacity scaling straightforward. It is the ideal, space-saving solution for standard heating, cooling, and heat recovery applications where process conditions require regular servicing or future duty expansions.

Basic Parameters of Gasketed Plate Heat Exchanger

Plate Material:

- 304 / 304L
- 316 / 316L
- 254SMO
- Titanium
- Hastelloy C-276

Gasket Material:

- NBR
- EPDM
- HNBR
- Viton



Welded Plate Heat Exchanger (WPHE)

Designed for maximum operational reliability under extreme conditions, our Welded Plate Heat Exchangers feature a robust pack of corrugated stainless steel or alloy plates permanently laser- or TIG-welded together to eliminate elastomeric gaskets entirely. This highly secure, unified design delivers exceptional thermal efficiency while providing ultimate resistance to aggressive fluids, extreme temperatures, and high design pressures. It is the ideal, space-saving solution for heavy-duty chemical processing, oil and gas, and high-temperature heat recovery applications where maximum process safety and leak protection are critically required.

Basic Parameters of Welded Plate Heat Exchanger

Plate Material:

- 304 / 304L
- 316 / 316L
- 254SMO
- Titanium
- Hastelloy C-276

Brazed Plate Heat Exchanger (BPHE)

Designed for maximum structural integrity, our Brazed Plate Heat Exchangers feature a compact pack of corrugated stainless steel plates vacuum-brazed together with high-performance copper or nickel filler to eliminate the need for gaskets and heavy frame plates. This rigid, unified design delivers exceptional thermal efficiency and extreme pressure and temperature resistance while offering completely maintenance-free operation. It is the ideal, ultra-space-saving solution for demanding heating, cooling, evaporation, and condensing applications where process conditions require high operational dependability and a minimal equipment footprint.

Basic Parameters of Brazed Plate Heat Exchanger

Plate Material:

- 316 / 316L

Brazing Material:

- Copper
- Stainless Steel
- Nickel



Semi-Welded Plate Heat Exchanger (SWPHE)

Designed for maximum process safety with aggressive media, our Semi-Welded Plate Heat Exchangers feature a modular pack of laser-welded plate cassettes for the hazardous fluid channel, paired with high-performance elastomeric gaskets on the traditional fluid side. This hybrid design delivers exceptional thermal efficiency and superior leak protection for dangerous chemicals or refrigerants, while still allowing for easy disassembly and mechanical cleaning of the secondary loop. It is the ideal, space-saving solution for industrial refrigeration, chemical processing, and demanding duty applications where maximum safety must be balanced with routine servicing needs.

Basic Parameters of Semi - Welded Plate Heat Exchanger

Plate Material:

- 304 / 304L
- 316 / 316L
- 254-SMO
- Titanium
- Hastelloy C-276

Gasket Material:

- NBR
- EPDM
- HNBR
- Viton



Stainless Plate Heat Exchanger (SSPHE)



Designed for maximum hygiene and superior corrosion resistance, our Stainless Steel Plate Heat Exchangers feature a high-grade stainless steel plate pack and frame assembly engineered to meet strict sanitary standards and resist aggressive fluids. This ultra-clean, durable design delivers exceptional thermal efficiency while preventing rust, contamination, and material degradation over extended operational cycles. It is the ideal, space-saving solution for food and beverage, pharmaceutical, dairy, and clean-water applications where product purity, strict compliance, and effortless sanitisation are absolute requirements.

Basic Parameters of SS Plate Heat Exchanger

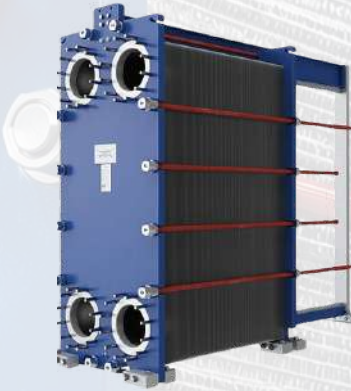
Plate Material:

- 304 / 304L
- 316 / 316L

Gasket Material:

- NBR
- EPDM
- HNBR
- Viton

Plate Cooler



Designed for maximum cooling efficiency and rapid temperature reduction, our Plate Coolers feature a high-performance pack of corrugated plates engineered to optimize fluid velocity and maximize cold-side thermal transfer. This highly effective design delivers exceptional heat rejection capabilities while maintaining low pressure drops and offering precise temperature control over the process fluid. It is the ideal, space-saving solution for industrial machinery cooling, hydraulic oil loops, dairy chilling, and marine applications where reliable, continuous-duty temperature regulation is critical to operational uptime.

Basic Parameters of Plate Cooler

Plate Material:

- 304 / 304L
- 316 / 316L
- 254SMO
- Titanium
- Hastelloy C-276

Gasket Material:

- NBR
- EPDM
- HNBR
- Viton

Plate Evaporator

Designed for maximum vaporization efficiency and low-temperature boiling, our Plate Evaporators feature a specialized pack of asymmetric corrugated plates engineered to accommodate high vapor volume growth and optimize two-phase flow dynamics. This high-performance design delivers exceptional latent heat transfer coefficients and uniform fluid distribution while minimizing static head and preventing product fouling. It is the ideal, space-saving solution for concentration loops, juice evaporation, sugar processing, and refrigeration systems where gentle product handling, precise concentration control, and thermal efficiency are strictly required.



Basic Parameters of Plate Evaporator

Plate Material:

- 304 / 304L
- 316 / 316L
- 254-SMO
- Titanium
- Hastelloy C-276

Gasket Material:

- NBR
- EPDM
- HNBR
- Viton

Plate Condenser

Designed for maximum condensation efficiency and rapid phase change, our Plate Condensers feature a specialized pack of wide-gap asymmetric plates engineered to handle high-velocity vapor volumes with minimal pressure drop on the vacuum side. This high-performance design delivers exceptional latent heat transfer coefficients and ensures rapid subcooling of the condensate while maximizing cooling-water utilization. It is the ideal, space-saving solution for vacuum condensation, ethanol distillation, power generation, and refrigeration systems where low-pressure operational stability, superior thermal throughput, and compact integration are strictly required.



Basic Parameters of Plate Condenser

Plate Material:

- 304 / 304L
- 316 / 316L
- 254-SMO
- Titanium
- Hastelloy C-276

Gasket Material:

- NBR
- EPDM
- HNBR
- Viton

Gireesh Heat Exchangers provide custom design solutions for plate heat exchangers and fluid handling systems help industries achieve superior thermal efficiency and maximize energy savings.

High-speed turbulence flow plate channels and precision flow distribution areas deliver maximum heat transfer coefficients. The compact structure, robust framing, premium alloy-made plate packs, and durable rubber gaskets simplify field maintenance, ease installation, and significantly extend the operational lifecycle of your plate heat exchangers.

Why Industries Rely on Gireesh Heat Exchangers

- **Tailored Plate Materials:**

Available in 304/316L Stainless Steel, Titanium, SMO254 and Hastelloy to withstand harsh, corrosive, or high-temperature processing media.

- **Optimized Flow Dynamics:**

- Custom plate corrugation patterns induce high-velocity turbulence, reducing scaling and maximizing heat transfer coefficients.

- **Leak-Proof Construction:**

- Advanced gasketed, brazed, and fully-welded configurations ensure total fluid isolation, even under severe high-pressure conditions.

- **Hygienic & Standard Compliant:**

- Built to meet global regulatory and sanitization baselines across food, dairy, chemical, and industrial applications.



Metallurgy



Mining



Chemical & Petrochemical



Marine



Automotive



Pulp & Paper



Energy & Power Generation



Oil and Gas



Wastewater Treatment



Ethanol Processing



Fertilizers



Sugar Production



HVAC



Data Center Cooling



Electronics & Semiconductor



Beverage Processing



Dairy Processing



Pharmaceutical