

# GIREEESH HEAT EXCHANGERS

Precision-Engineered Heat Exchangers  
Designed for Optimal Thermal Efficiency  
and Operational Excellence.



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# SHELL & TUBE HEAT EXCHANGER

- 01** Robust and versatile design suitable for handling a wide range of temperatures, pressures, and industrial fluids across diverse applications.
- 02** High thermal efficiency ensures optimal heat transfer, improved energy savings, and reliable performance under demanding conditions.
- 03** Manufactured using premium-grade materials with strict quality standards, ensuring durability, corrosion resistance, and low maintenance.
- 04** Wide range of industrial applications:
  - Condenser – converts vapor into liquid
  - Cooler – reduces fluid temperature
  - Evaporator – enables liquid evaporation
  - Heater / Preheater – increases fluid temperature
  - Interchanger – ensures efficient heat recovery

**“ TURNING SHELL &  
TUBE CONCEPTS  
INTO RELIABLE  
REALITIES,  
EMPOWERING  
INDUSTRIES  
WORLDWIDE “**



# FIN TUBE HEAT EXCHANGER

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Fin tube heat exchangers are designed with fins attached to the tubes, significantly increasing the surface area to enhance heat transfer efficiency. They are widely used in HVAC systems, power plants, and industrial processes for applications such as air cooling, heating, and condensation. Built from high-quality materials, these exchangers ensure durability, corrosion resistance, and low maintenance. Their key functions include acting as air coolers to reduce air or gas temperatures, condensers to convert vapor into liquid, and heaters to raise the temperature of fluids or gases.

**“ INNOVATIVE FIN TUBE SOLUTIONS FOR  
EFFICIENT HEAT EXCHANGE “**



# PLATE HEAT EXCHANGER

Plate heat exchangers use a stack of thin, patterned metal plates clamped together to create multiple flow channels. The corrugated surface of these plates improves turbulence, which enhances heat transfer between two fluids flowing in separate paths. These exchangers are commonly applied in refrigeration, dairy processing, chemical plants, and energy systems for tasks like cooling, heating, and heat recovery. Constructed from durable and corrosion-resistant materials, they are known for their compact size, flexibility, and easy cleaning. Their main functions include serving as fluid coolers, heaters, and condensers, ensuring efficient temperature control in various processes.



**“ SMART PLATE DESIGNS FOR EFFICIENT THERMAL PERFORMANCE “**

## V-ACHE - Series



# V - SHAPED DRY AIR COOLER

A V-shaped dry air cooler is designed with finned tubes arranged in a “V” configuration, allowing efficient heat dissipation using ambient air. Fans are placed below or along the structure to force air across the finned tubes, cooling the fluid inside without the need for water. This design increases surface area and improves airflow distribution, enhancing overall heat transfer performance.

**“ COOLING REDEFINED WITH V-SHAPED INNOVATION “**



# ADIABATIC COOLER



## V - Shaped

— The V-Shaped Adiabatic Cooler delivers high-efficiency cooling by combining air cooling with adiabatic pre-cooling. Its V-shaped finned tube design maximizes airflow and surface area, ensuring superior heat transfer while minimizing water consumption. Ideal for power plants, refineries, chemical plants, and industrial processes, it provides reliable temperature control where water conservation is important. Built from durable, corrosion-resistant materials, it ensures low maintenance and long-lasting operation. Key functions include cooling hot fluids, condensing vapors, and maintaining optimal process temperatures.



**“ ENHANCED  
COOLING,  
MINIMAL WATER**

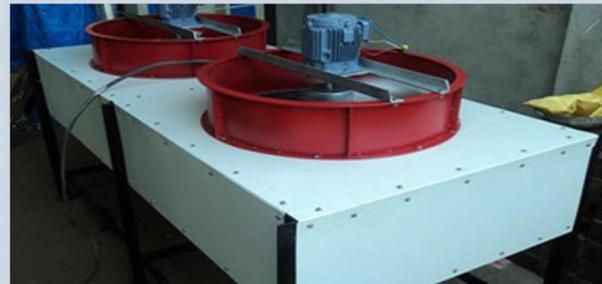
**—  
THE ADIABATIC  
ADVANTAGE “**



# FLAT DRY AIR COOLER

The Flat Dry Air Cooler delivers efficient, water-free cooling by utilizing ambient air to remove heat from process fluids. Its flat finned tube design ensures uniform airflow and optimized surface area, enabling effective heat transfer while completely eliminating water consumption. Ideal for power plants, refineries, chemical plants, and industrial processes, it provides reliable temperature control in environments where water availability is limited or conservation is critical. Built from durable, corrosion-resistant materials, it ensures low maintenance and long-lasting operation. Key functions include cooling hot fluids, condensing vapors, and maintaining optimal process temperatures.

**“ ENGINEERED FLAT FOR SMARTER DRY COOLING “**



# AIR BLAST COOLER

The Air Blast Cooler delivers high-performance cooling by forcing ambient air over finned tubes using powerful fans, ensuring rapid and efficient heat dissipation. Its optimized design provides high airflow velocity and enhanced heat transfer, making it ideal for applications requiring quick cooling of process fluids. Suitable for power plants, refineries, chemical plants, and industrial processes, it ensures reliable temperature control even under high thermal loads. Built from durable, corrosion-resistant materials, it guarantees low maintenance and long-lasting operation. Key functions include cooling hot fluids, condensing vapors, and maintaining stable process temperatures.



**“ PERFORMANCE  
COOLING AT  
FULL BLAST ”**

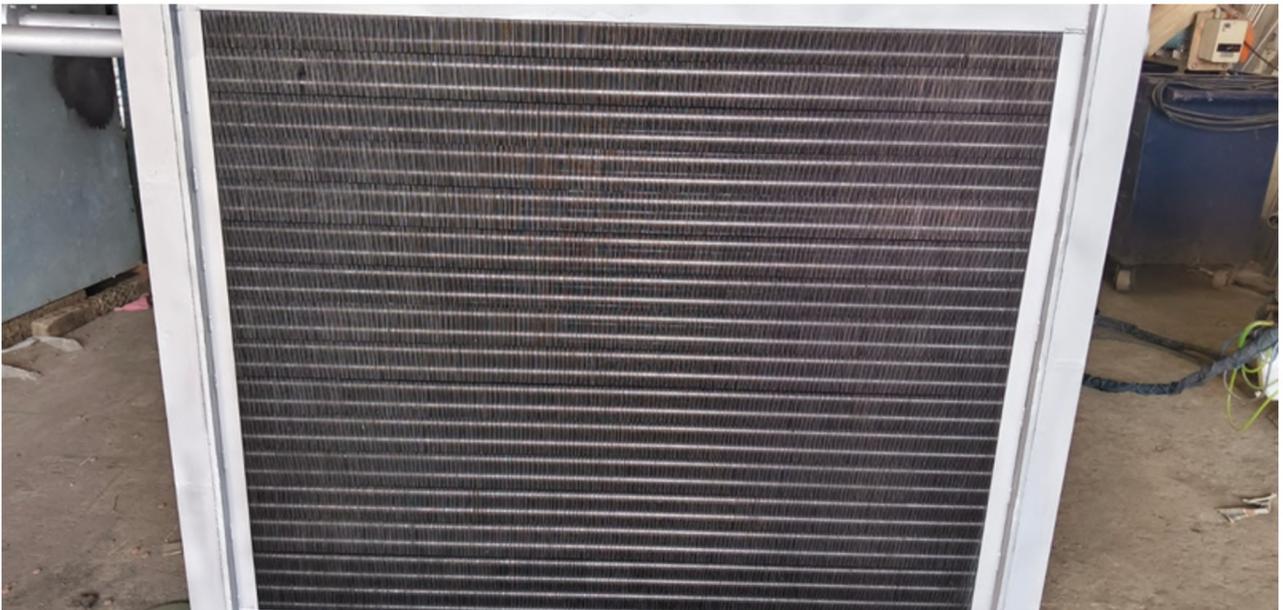


The Radiator delivers efficient heat dissipation by transferring thermal energy from fluids to the surrounding air, ensuring optimal system performance and temperature control. Its finned tube design maximizes surface area and airflow, enabling effective and consistent heat exchange across a wide range of operating conditions. Ideal for automotive, power generation, industrial machinery, and process applications, it provides reliable cooling to prevent overheating and maintain system efficiency. Built from durable, corrosion-resistant materials, it ensures low maintenance and long service life. Key functions include cooling engine fluids, regulating operating temperatures, and supporting continuous, stable performance.

# RADIATOR

RAD - Series

“ EFFICIENT  
COOLING AT  
THE CORE “



# GIREEESH HEAT EXCHANGERS

For More Info:

[www.gireeshcoolingtowers.com](http://www.gireeshcoolingtowers.com)

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