

SHINDO

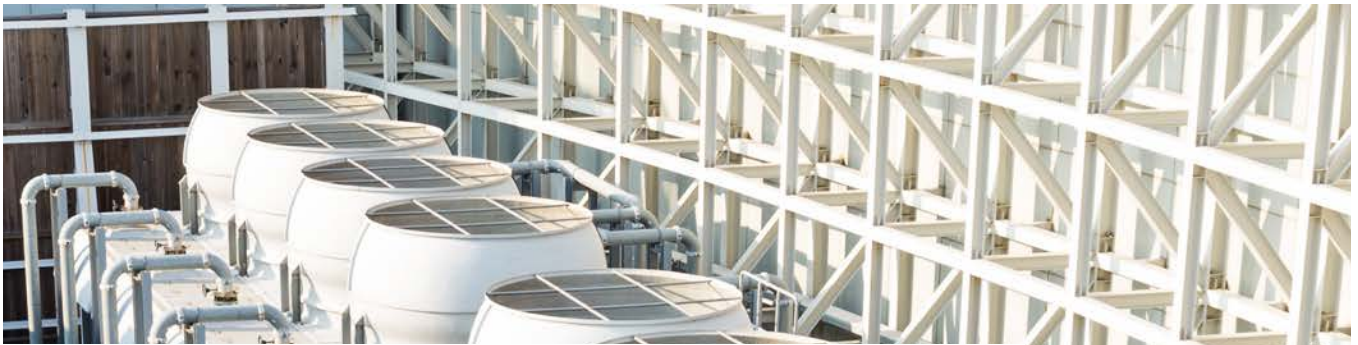
HEAT EXCHANGER

Shindo Heat Exchanger Co., Ltd.
a corporation specializing in heat exchangers,
makes the leap into the future with customers.

www.sdheater.com

PRODUCT

FINNED TUBE
FINNED TUBE TYPE
SHELL & TUBE TYPE
WELDED PLATE TYPE
ETC.



CEO Message

Hello! I am Hwang Won-tae, the CEO of Shindo Heat Exchanger.

In the past 20 years, Shindo Heat Exchanger, which first set foot in the industry with the processing of finned tubes, has grown to become a comprehensive heat exchanger maker serving the air-conditioning, automobile, power plant and petrochemical plant industries.

In regards to heat exchangers manufactured by Shindo Heat Exchanger, with the philosophy of being part of the solution of the global warming problem, the company has been accelerating the development of products with excellence in terms of elaborate, thermal analysis and modeling while minimizing the use of fossil fuels and maximizing energy efficiency.

In this respect, in order to improve our manufacturing site and seek innovation in quality, in 2005, ISO9001 and ISO14001 were introduced, and a department in exclusive charge of research and development was newly established.

In 2007, a contract for using a thermal analysis program was concluded with AspenTech in the United States. In 2011, the company joined HTRI in the United States as a category 1 member, and concluded certification of the AutoCAD program with Autodesk. In 2014, the ASME U Stamp was acquired.

As a result, the 2014 delivery of an air cooler designed and produced by applying the U specifications to the Rabigh II PMMA PCS Project in Saudi Arabia served as verification of the company's prowess. According to the motto that, 'Happy staff members make good products,' the company has been endeavoring to ensure the improvement of the quality of life of staff members, introducing initiatives such as Wednesday - Day of Families, workshops, support for schooling costs, etc. As a result, the company was selected as a 'family-friendly corporation' in the year 2017.

Shindo Heat Exchanger promises to put into practice the mission of trust and being on the right path in order to become a corporation creating new values. And, together with members and partners who have united with solid, technological abilities and passion, it will do its utmost so that high quality products can be supplied to you, the customer.

Lastly, I convey my mind of being grateful to the countless trouble and devotion of the members and partners who have been a part of these processes.

Thankyou.

Shindo Heat Exchanger Co., Ltd.

CEO *Hwang Won-tae*



History

Foundation ~ 2010

- 1997** • Foundation of Shindo Heat Exchanger.
- 2001** • Incorporation into Shindo Heat Exchanger Co., Ltd.
- 2005** • Acquisition of the ISO 14001:2004 and ISO 9001:2000 certifications.
- 2007** • Participation in the Heating, Air-Conditioning, Refrigeration, and Fluid Exhibition- KOREA 2007 (HARFKO 2007)
- 2008** • Contract for using a heat exchanger design program (Aspen Tasc+ in the United States).
- 2010** • Company registration with the Public Procurement Service.

2010 ~ 2013

- 2011** • Delivery of steam air heater to Fuji Machine Mfg. Co., Ltd. in Japan.
• Delivery of oil cooler to Separindo Industry in Indonesia.
• Contract for using a heat exchanger design program (HTRI in the United States)
- 2012** • Delivery of air cooler to GSE&C Ruwais Refinery Expansion Project in the UAE.
• Delivery of heat exchanger to Maharashtra POSCO CAL Project in India.
• Construction and relocation of factory to within the Incheon, Geomdan Industrial Complex (The site is 1,931m² and the building 1,327m²).
- 2013** • Delivery of dry coils for the cooling tower of the Andong Combined Cycle Power Plant.
• Delivery of RTP waste heat collector to Kumho Petrochemicals Synthetic Resin Plant in Ulsan.
• Delivery of 2SCS gas cooler to Hyundai Hysco in Dangjin.

2014 ~ 2016

- 2014** • Delivery of air cooler to GSE&C Rabigh II PMMA PCS Project in Saudi Arabia.
• Delivery of steam air heaters to FGD Unit 1 & 2 of Shinboryeong Thermal Power Plant.
• Delivery of heat exchanger for targeted powder wastewater treatment to the Samsung SCP in Gumi.
• Delivery of Dry Coil to Dongducheon Combined Thermal Power Plant.
• Acquisition of ASME U Stamp.
- 2015** • Delivery of heat exchanger to Turkmenistan TACE Project.
• Delivery of gas cooler for CAL furnace cooling section of the Hyundai Steel Company in Suncheon.
• Delivery of heating coil for nuclear power plant in Uljin.
• Delivery of air cooler to Samsung Electronics in Vietnam.
- 2016** • Delivery of gas cooler to 2CGL PHS of Hyundai Steel Company in Dangjin.
• Delivery of air cooler to Samsung Display A3 K-Project in Tangjeong.
• Delivery of air cooler to Hyosung TTP3 Project in Ulsan.

2017 ~ Present

- 2017** • Delivery of bag filters to S-Oil RUC Project in Ulsan.
• Delivery of heat exchanger to 3CGL of Hyundai Steel Company in Suncheon.
• Delivery of react heater to Samsung SDI in Cheonan.
• Delivery of economizer to SK Chemical in Ulsan.
• Delivery of air cooler to CAP NPE Project in Indonesia.
• Renewal of ASME U Stamp.
- 2018** • Renewal of ISO 14001:2015 and ISO 9001:2015.
• Registered as maintenance qualified company for the 5 power companies.
• Delivery of air cooler to Lotte Chemical P.O.E Project in Yeosu.
• Delivery of react heater to SK Innovation in Hungary.

Certificate



2016 Family-friendly
Certificate
(Ministry of Gender Equality and
Family)



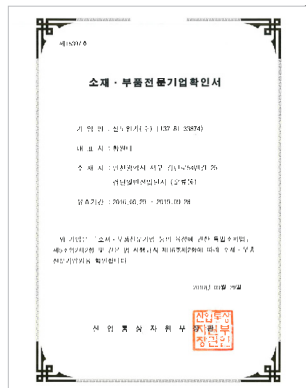
ASME Certificate – 2017



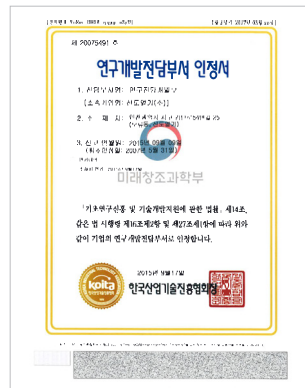
ISO 9001:2015
Quality Management
Certificate



ISO 14001:2015
Environmental Management
Certificate



Parts and Materials
Specialized Company
Certificate



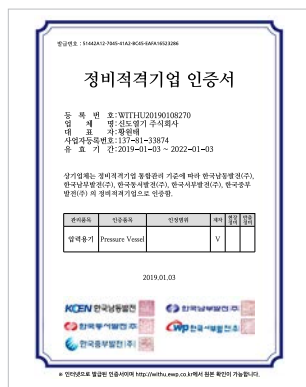
Research and
Development Department
Certificate



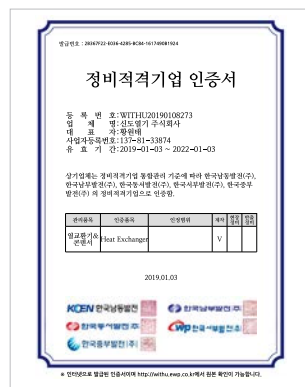
Patent 1-1
(A unit heater using a
heat pipe)



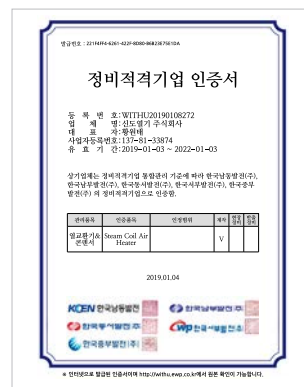
Patent 1-2
(A vacuum-type,
domestic gas boiler)



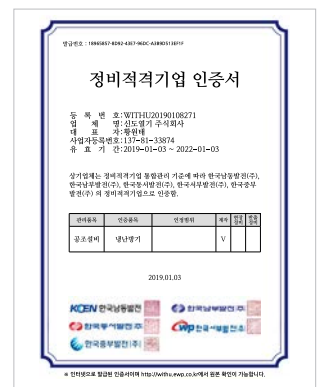
Certificate of Maintenance
Qualified Company
(Pressure Vessel)



Certificate of Maintenance
Qualified Company
(Heat Exchanger & Condenser)



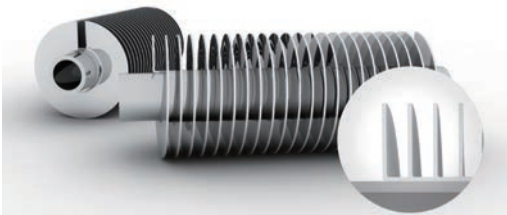
Certificate of Maintenance
Qualified Company
(Steam Coil Air Heater)



Certificate of Maintenance
Qualified Company
(Air-conditioning Equipment
Chiller and Heater)

FINNED TUBE

As a fin-shaped part attached to a heating surface designed to expand the heating surface area on the outside of a straight pipe, the finned tube is the core component of the finned tube-type heat exchanger.



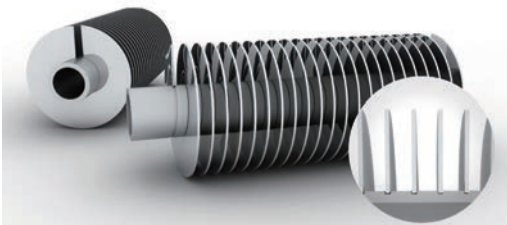
WRAP ON TYPE("L" TYPE)

The method used, that of winding and pulling the fin up above the tube in a circular manner, is the most widely used method.



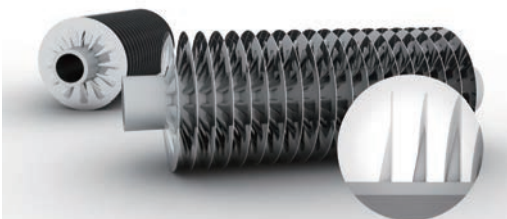
EXTRUDED TYPE

Called the "Extruded Finned Tube," the method employed is that of pulling and raising in the shape of a fin by a rolling process post insertion of the pipe, for use with the fin on the outside of the tube.



EMBEDED TYPE ("G" TYPE)

A method of fixing after cutting a groove and implanting a fin in the tube.



WRINKLE TYPE("I" TYPE)

This method, of winding and pulling a fin up above the tube in a circular manner, is the method used in steel and stainless steel production.

FINNED TUBE TYPE HEAT EXCHANGER



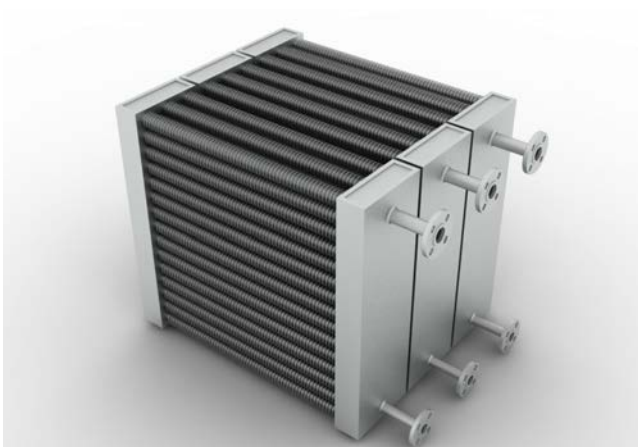
AHU HEATING COIL

Heating coil for air handling unit.



AHU COOLING COIL

Cooling coil for air handling unit.



STEAM AIR HEATER

Air or gas is heated using the latent heat of high-temperature and high-pressure steam. Used for the processes of preheating and drying.



OIL AIR HEATER

Air or gas is heated using high-temperature, heating medium oil. Used for the processes of preheating and drying.

With consideration paid to the conditions, and economy, of use, this product has been aggressively reflecting the demands of the market.

In order to combine steel, copper, and stainless steel in the tube, in order to combine aluminum, copper, and stainless steel in the fin, and in order to satisfy both durability and efficiency, the optimal design has materialized through the HTRI Program.



AIR COOLER

A heat exchanger for use with cooling, which contains air, nitrogen, etc. for use with high pressure.



GAS COOLER

A heat exchanger for use with the cooling of gas for various kinds of heat treatments.



ECONOMIZER

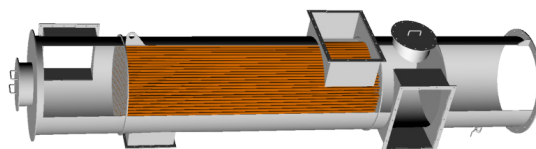
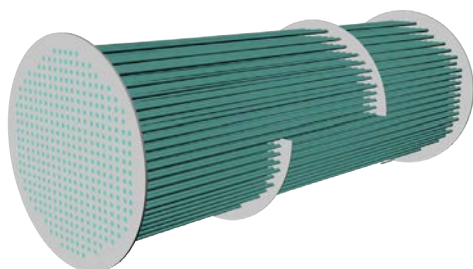
A heat exchanger that preheats the water supplied by collecting the waste heat of exhaust gas. There is a horizontal type (left) as well as a vertical type (right).



SHELL & TUBE TYPE HEAT EXCHANGER

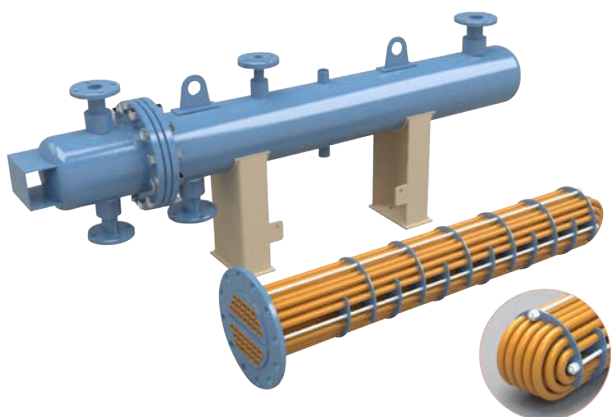
This is a heat exchanger in which many parallel heat-transfer pipes are arranged at certain intervals inside a cylindrical body. The standard of the design is clear and definite, and, with a structurally stable form, it does not distinguish between high temperature and high pressure.

By acquiring the ASME U Stamp, our company has been producing high quality products according to international specifications.



AIR PREHEATER

This is the equipment that preheats the air that is supplied to a boiler or the like by collecting the thermal energy discharged into the air.



HEATER & COOLER

A pan-use heat exchanger designed for diverse uses, including heating, cooling, condensation, etc.

CONDENSER

A heat exchanger designed for removing moisture by cooling high-temperature and high-humidity gas (air).

WELDED PLATE TYPE HEAT EXCHANGER

This is a heat exchanger that preheats combustion air and the air supply by collecting the waste heat of exhaust gas. It is for use at low pressure (Less than 0.1bar), and is effective for heat exchanges between gases.



AIR (GAS) PREHEATER

A heat exchanger that preheats the combustion air or the air supply by collecting the waste heat of exhaust gas.



RECUPERATOR

Used for preheating process gas or air supply by collecting various kinds of waste heat.

ETC.

Including pressure vessels, our company has been producing bag filters, line filters, bare tubes, waste heat collectors, etc.



BAG FILTER

An industrial, dust-collecting device that piles up the solid particles within the air currents using a filter cloth in the shape of a pocket.



LINE FILTER

A product that filters out alien substances in the process line.



EXHAUST GAS HEAT EXCHANGER

A waste heat collector of the bare tube type.



PRESSURE VESSEL

A container that possesses gas or liquid at a pressure that exceeds the air pressure of the inside.



Service Management

1. Scope and purpose of application.

These shall be applied regarding the service activity procedure that takes place after the delivery of a product produced at Shindo Heat Exchanger Co., Ltd. to a customer. Through the speedy and accurate handling of any matter raised by the customer, we strive to improve customer satisfaction and trust regarding the products of our company.

2. The work procedure.

2.1 Receiving customer requirements.

The Sales Department shall understand the nature of matters raised by receiving the service requests of customers both online and offline.

2.2 The handling of customer needs.

- 1) By confirming that a service request has been received, the Department of Quality Management shall judge, and handle, cases in which a measure can be taken at site and cases involving warehouses and repairs.
- 2) The service requests of customers are responded to via online and offline mediums, and the results of such handlings shall be notified to customers.

2.3 The scope of the services.

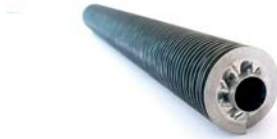
- 1) The free-of-charge services.
When a product flaw takes place within the time period of the contract, the free-of-charge service activity shall be carried out according to the condition of the product.
- 2) The charged services.
When, after the passage of the time period of a contract, damage occurs during the process of installation or when a defect of the product occurs during the operation of the product, a charged service activity shall be carried out.
- 3) With consideration paid to the extent of product damage, the impact on capacity, etc., and after deciding whether it is feasible to re-produce, a cost and time period assessment shall be provided to the customer.

3. The quotation standards.

- 3.1 ISO 9001: 2015 Standard 8.2.1
- 3.2 ISO 14001:2015 Standard 8.1

Review

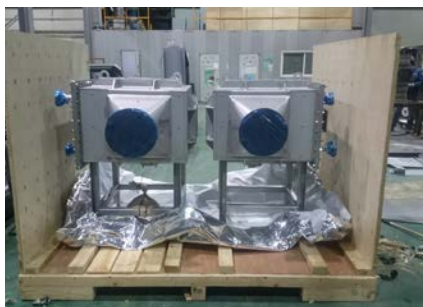
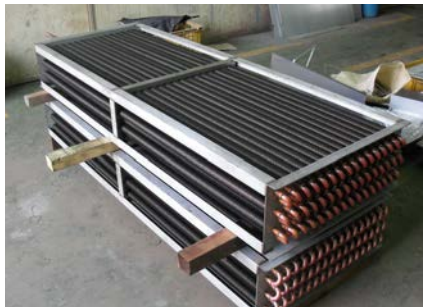
FINNED TUBE



FINNED TUBE TYPE HEAT EXCHANGER



FINNED TUBE TYPE HEAT EXCHANGER



Review

SHELL&TUBE TYPE HEAT EXCHANGER



WELDED PLATE TYPE HEAT EXCHANGER



ETC.



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