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PROFESSIONAL MANUFACTURER & SUPPLIER OF HEAT EXCHANGERS

Heat Exchanger | Plate Heat Exchanger | Spare Parts for Plate Heat Exchangers



Aiprel Heat Transfer Technology Jiangsu CO ., LTD

Add: Jingjiang Economic & Technological Development Zone,
Jingjiang City, Jiangsu Province, P.R.China

Mobile: +86 189 6109 5380 (Julie)

Tel: +86 523 8512 1180

Email: julie@aiprel.com

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COMPANY PROFILE

Aiprel Heat Transfer Technology Jiangsu Co., Ltd. is a professional heat transfer solution provider specializing in the R&D, manufacturing, sales and service of heat exchangers and heat exchanger components. Our heat exchangers and spare parts are widely applied in data centers, district heating, HVAC, refrigeration & cooling, energy & power, petrochemicals, machinery manufacturing, metallurgy & steel, biomedicine, new energy & photovoltaic, electronics & semiconductors, marine engineering and other industries.

Introduced with overseas production lines for heat exchanger technologies, the company boasts high-standard R&D and manufacturing capabilities to meet differentiated working condition requirements of various end customers. Meanwhile, we provide one-stop supporting services for heat exchanger users, including all-brand plates, gaskets, equipment maintenance and cleaning.

Located in Jiangsu Province, the economically developed and picturesque Yangtze River Delta region, the company occupies a plant area of over 30,000 square meters with more than 120 employees, among whom over 20 are mid-to-senior technical specialists.

We own 15 special ultra-high pressure hydraulic presses for heat exchangers of various specifications (40,000 tons, 30,000 tons, 20,000 tons, 15,000 tons, 10,000 tons, 5,000 tons and 3,000 tons), 35 vulcanizing machines dedicated to heat exchanger gaskets, advanced frame plate production lines, laser welders, laser cutting machines and CNC machining centers. We possess more than 800 sets of molds for heat exchanger plates and over 1,000 sets of molds for gaskets, laying a solid foundation for manufacturing premium products.

The company independently develops and produces a full range of heat transfer products including plate heat exchangers, fully welded plate and shell heat exchangers, plate evaporative condensers and semi-welded plate heat exchangers. Products can be manufactured in compliance with international codes and standards such as ASME, CE, DNV, GL, ABS, BV, CCS and GB.

After years of development, our direct sales and after-sales service network covers major provinces and cities nationwide (including Xizang,

Inner Mongolia, Xinjiang and other regions). Our heat exchangers and components have been exported to more than 20 countries and regions worldwide including the United States, Japan and Russia.

Aiprel also acts as a professional supplier and maintenance service provider for heat exchanger components (heat exchanger plates and sealing gaskets). We adopt premium special materials including stainless steel, titanium, nickel and Hastelloy sourced from Japan, the United States and other regions, delivering competitive pricing alongside superior quality.

Our gaskets for plate heat exchangers are produced by secondary refining of imported raw rubber to meet stringent quality standards. Product series such as EPDM, PTFE, NBR and VITON gaskets feature stable performance and reliable quality. Aiprel supplies plates and sealing gaskets compatible with numerous well-known domestic and international brands of heat exchangers.

Committed to continuous innovation, the company always takes customer demands as the orientation and customer satisfaction as the priority. In accordance with ASME standards, we have established a rigorous and complete quality assurance system covering the whole process from product design, manufacturing, inspection to delivery. The ISO9001 quality management system runs through all functional departments and every production procedure. We have also built an intellectual property management system and an information security management system.

High-quality products rely on stable, efficient testing equipment and standardized inspection procedures. The company is equipped with professional testing instruments including heat exchanger performance test platforms, material spectrometers, ultrasonic thickness gauges and hydrostatic test benches. For special testing items, we cooperate with third-party universities and testing institutions. Comprehensive inspections are carried out on all finished products before delivery, with strict quality control implemented throughout testing procedures to ensure compliance with design specifications and technical requirements.

Aiprel sincerely welcomes domestic and overseas merchants to visit our company for exchanges and guidance to achieve win-win cooperation.



HISTORY

2025

Newly introduced 40,000-ton ultra-high pressure plate stamping equipment;
Total number of factory presses exceeded 15 units;
Maximum matching diameter of heat exchangers broke through DN500.

2021

Annual production volume of heat exchangers exceeded 5,000 units again;
Deeply served marine industry with products applied in marine fresh water treatment, propulsion and auxiliary power generation systems.

2019

Fully developed biomedicine market and established cooperation with dozens of pharmaceutical enterprises;
Built sales & service network covering 27 provinces including Xinjiang, Inner Mongolia and Gansu.

2017

Self-developed heat exchangers acquired certifications from CCS and DNV;
Products first applied in large-scale district heating projects;
Maximum heat transfer area of single unit upgraded to 2,500 m².

2015

Successfully developed and manufactured DN500 large-diameter removable plate heat exchanger;
Maximum heat transfer area of single unit exceeded 2,000 m².

2012

Obtained ISO9001 Quality Management System Certification;
Special production line for marine heat exchanger sealing parts put into operation.

2024

New plant in Jingjiang Economic & Technological Development Zone officially put into production;
Annual production capacity of heat exchangers exceeded 6,000 units;
Maximum heat load of single equipment reached 50,000kW.

2020

Established long-term strategic cooperation with power enterprises including Datang Power and Tonglu Hydropower;
Maximum heat transfer area of single heat exchanger exceeded 3,000 m²;
Became designated supplier of heat exchange equipment for leading food enterprises such as Mengniu.

2018

Aiprel Heat Transfer Technology Jiangsu Co., Ltd. officially registered.
Expanded into photovoltaic new energy sector, supporting silicon wafer production lines of leading enterprises;
Launched special material heat exchangers made of titanium alloy & Hastelloy for metallurgy and chemical industries.

2016

Annual output of heat exchangers exceeded 3,000 units for the first time;
Supplied supporting heat exchange equipment for commercial complexes including Greenland Group, Hong Kong Plaza and Wuyue Plaza.

2013

Finished production line for heat exchanger plates completed;
Independent R&D & manufacturing of full-range removable plate heat exchangers (DN25~DN500) realized.

2011

Jiangsu Haote Heat Exchange Equipment Manufacturing Co., Ltd. (Predecessor of Aiprel) founded.



PARTNERS

Backed by reliable premium products and customized heat exchange solutions, our company has gained high recognition across industries. We maintain stable strategic cooperation with leading enterprises including Dongfang Electric, Greenland Group, Mengniu, Eastern Copper, China Minmetals, Hubei Newsource Bioengineering and other top-tier corporations. Such long-term partnerships not only consolidate our market standing, but also facilitate resource sharing and technical exchanges to drive continuous R&D upgrade.





PRODUCTION EQUIPMENT

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Aiprel

Quality lays the foundation for an enterprise's survival, and premium products serve as a powerful weapon for businesses to break into the global market. Committed to developing top-tier, superior products, we strictly control every processing procedure. Striving to tackle fierce market competition with first-class product quality, we sustain our leading position within the industry.



PRODUCTION EQUIPMENT

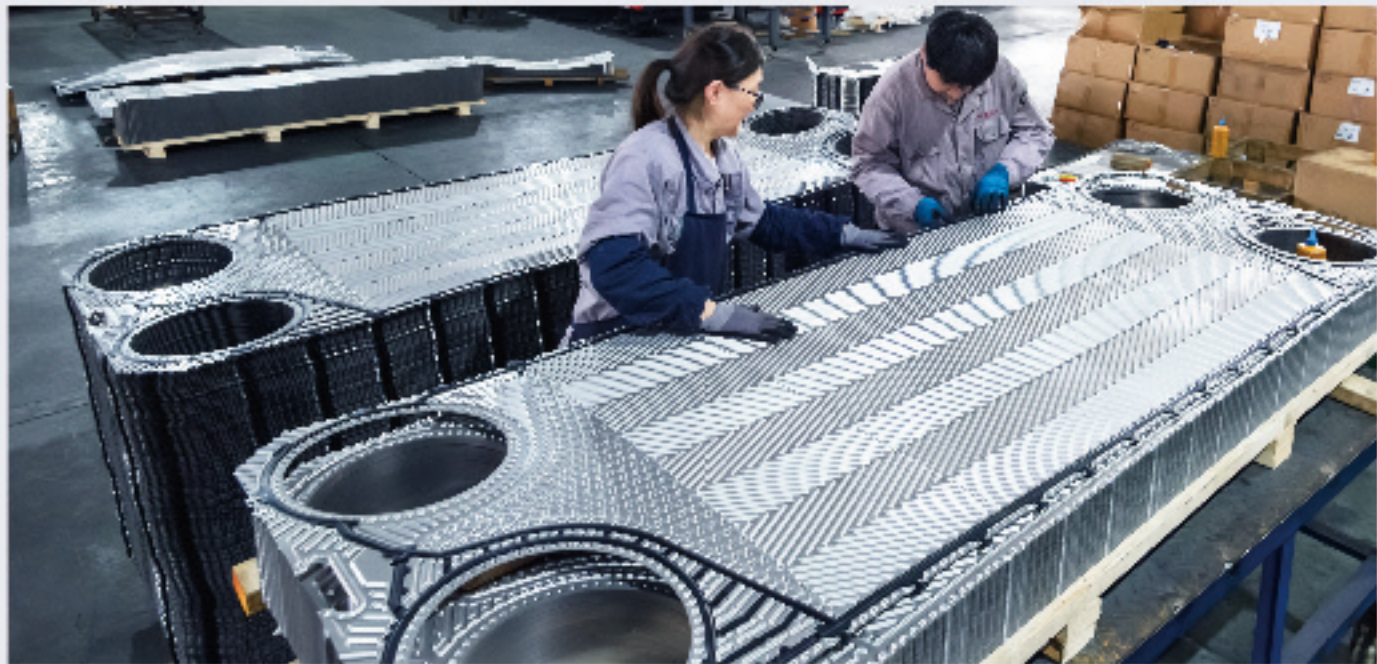
Our rigorous, pragmatic and persistent work ethos runs through every production procedure. We embed conscientious craftsmanship into every component. Supported by advanced manufacturing equipment and standardized scientific management, all products stand up to customers' stringent selection and inspection.

15

15 dedicated ultrahigh-pressure hydraulic presses for all types of heat exchangers

35

35 special vulcanizers for heat exchanger gasket



AIPREL HEAT EXCHANGE EQUIPMENT

Heat Exchanger | Plate Heat Exchanger | Spare Parts for Plate Heat Exchangers

Aiprel Heat Transfer Advocate
Energy Conservation & Environmental Protection



BUSINESS PHILOSOPHY



"Refined Management, Pursuit of Perfection."
Scientific management serves as the core driving force for development. By effectively adopting modern management methods, we pursue refinement and perseverance to strive for excellence, building competitive advantages for the enterprise.



QUALITY PHILOSOPHY



"Devotion, Attention, Diligence – Quality Wins Trust."
Quality originates from relentless improvement, full dedication and attention to every detail in our work.



MARKET PHILOSOPHY



"Win customers with quality, consolidate and expand the market with teamwork and execution."
We capture the market with reliable products trusted by users, explore the market through flexible marketing models, and safeguard market development relying on teamwork and execution capability.



CUSTOMER RELATIONSHIP PHILOSOPHY



"Service, Integrity, Equality, Win-Win."
We uphold the customer-oriented mindset, advocate service awareness, treat customers with sincerity at all times, and achieve win-win results.



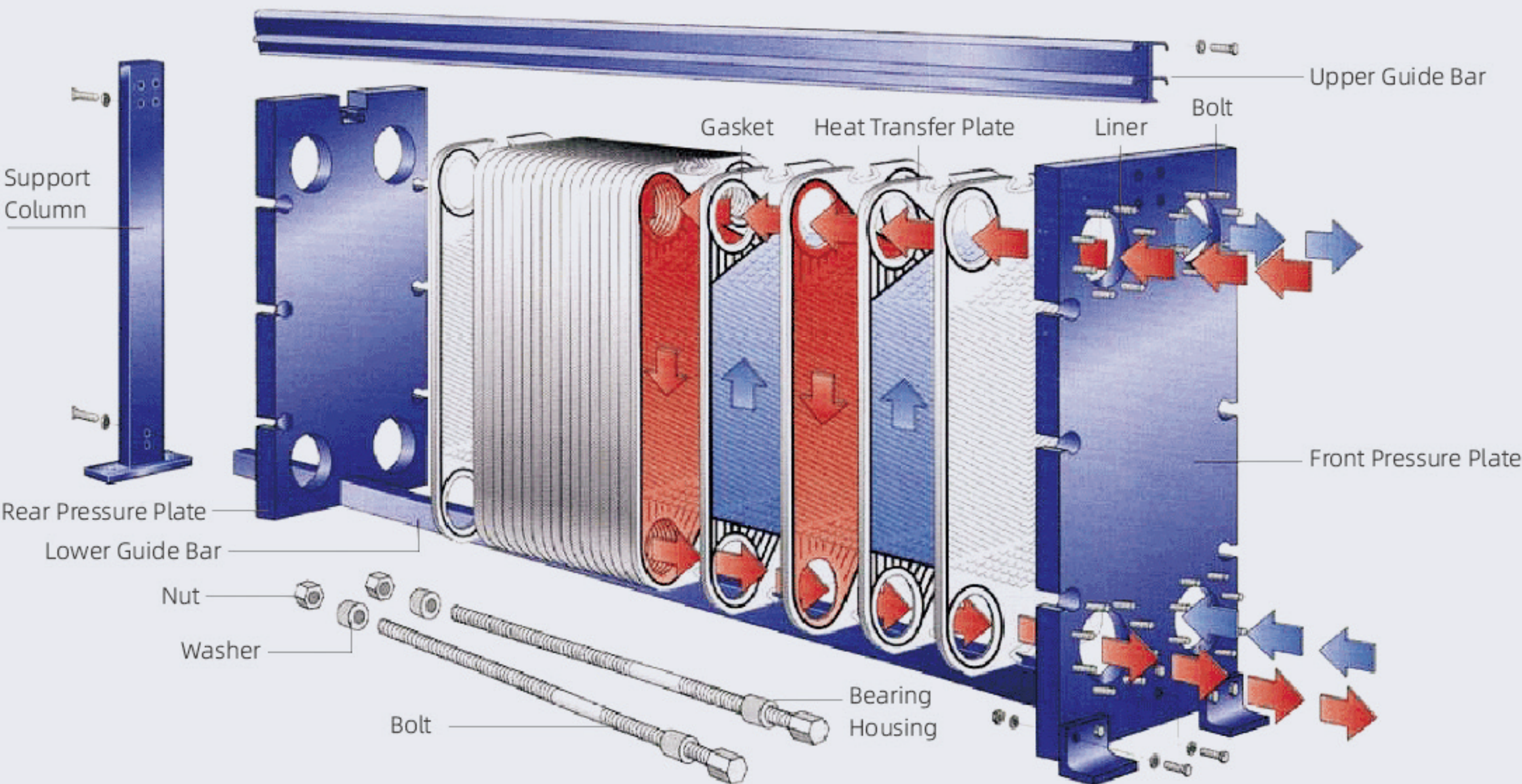
SAFETY AND HEALTH PHILOSOPHY



"People-Oriented, Safety Prevention, Cherish Life, Embrace Life."
We respect the value of life. Everyone's life belongs to more than themselves. We wish everyone a colorful life filled with infinite possibilities.

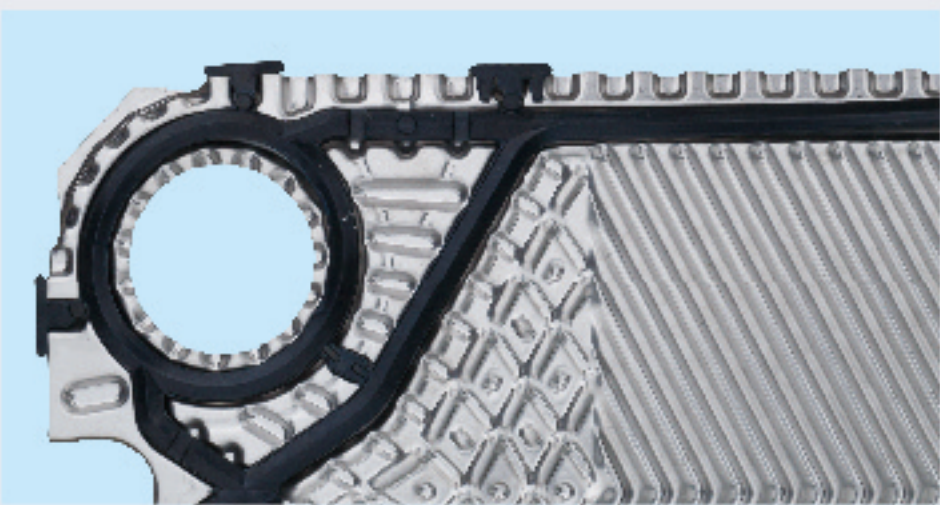
DETACHABLE PLATE TYPE HEAT EXCHANGER PRODUCT STRUCTURE

A Typical Plate Heat Exchanger – Component Parts



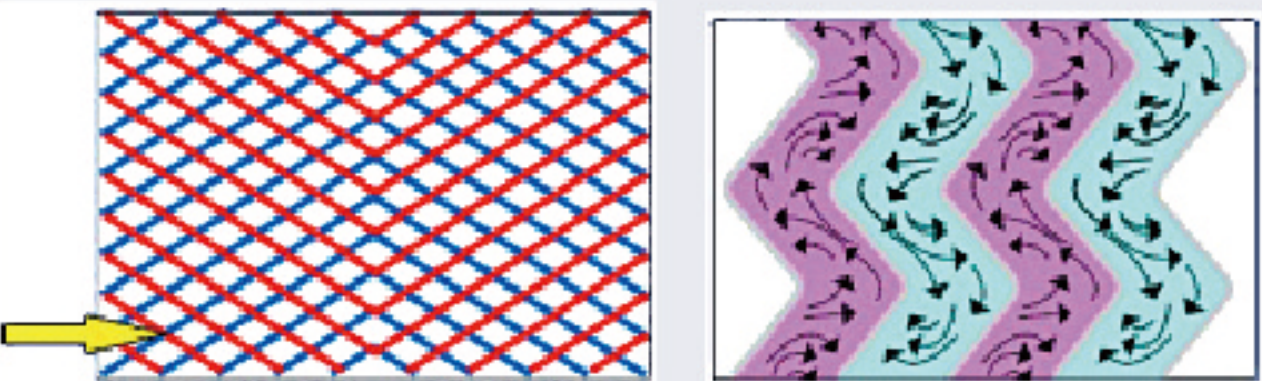
Each Heat Transfer Plate Consists of Two Components

Metal Corrugated Plate: Pressed into various corrugation profiles for different working conditions to achieve optimal heat-transfer performance.
Rubber Gasket: Fitted into the gasket groove around each plate, providing sealing and fluid flow diversion.



Two Functions of Plate Corrugations

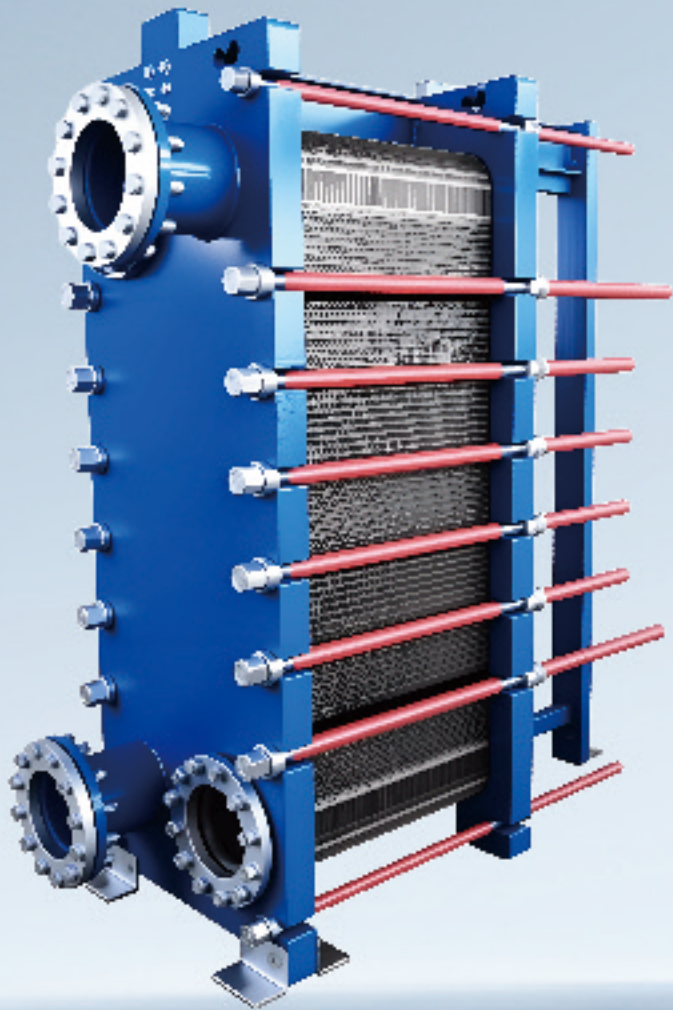
Mechanical Strength: Improve mechanical rigidity of plates and form supporting points between adjacent plates.
Fluid Dynamics: Enhance fluid turbulence to boost heat-transfer efficiency.



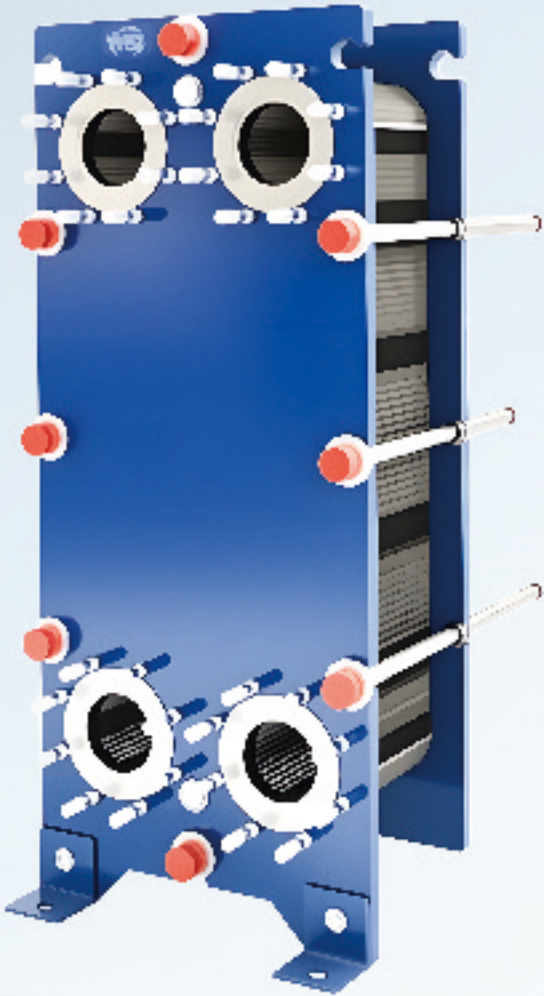
AIPREL PRODUCT CENTER

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● Plate Evaporator



● Semi-welded Plate Heat Exchanger



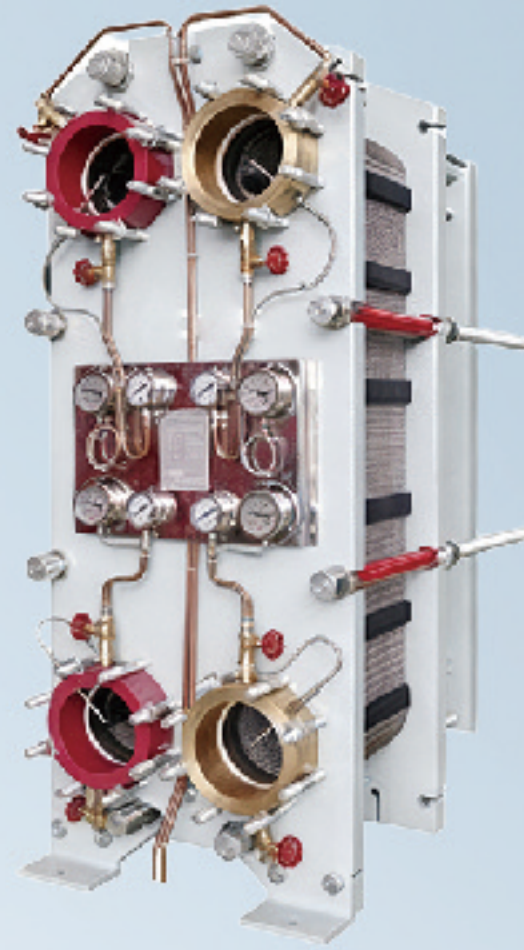
● Fully Welded Plate Heat Exchanger



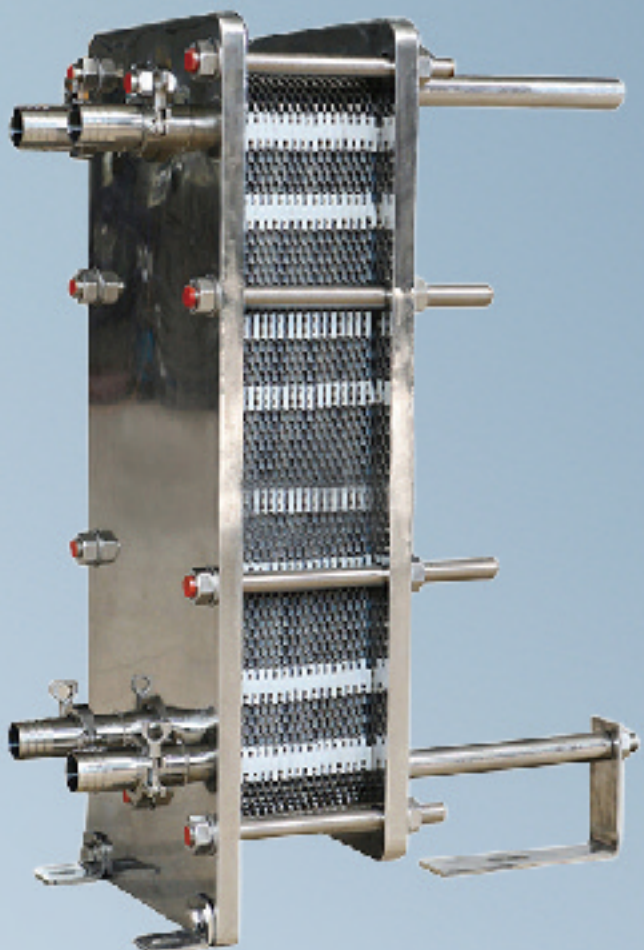
● Gasketed Plate Heat Exchanger



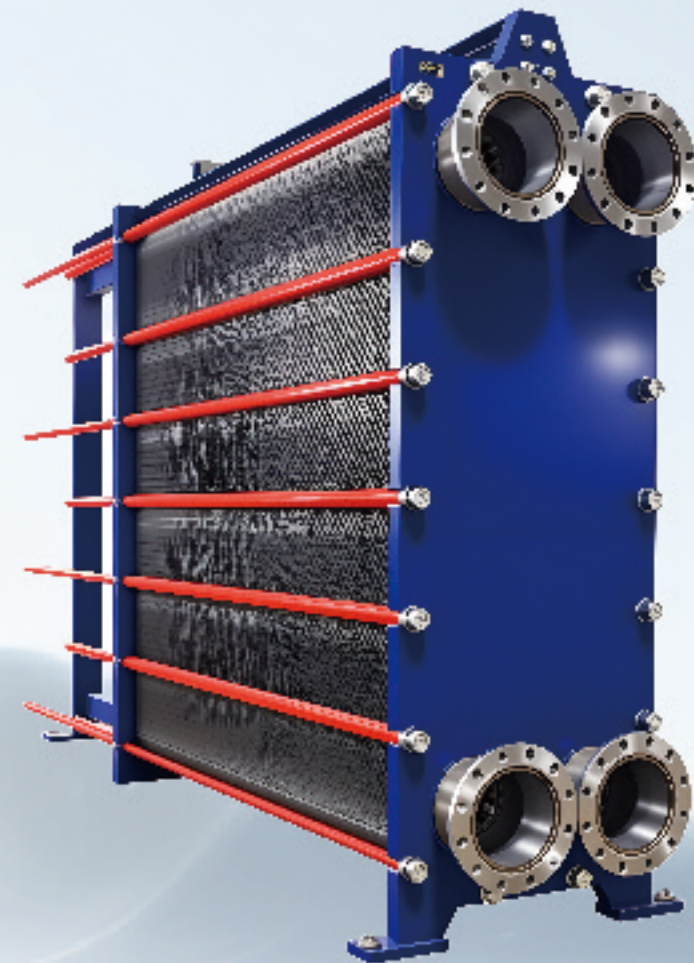
● Marine Plate Heat Exchanger



● Stainless Steel Plate Heat Exchanger



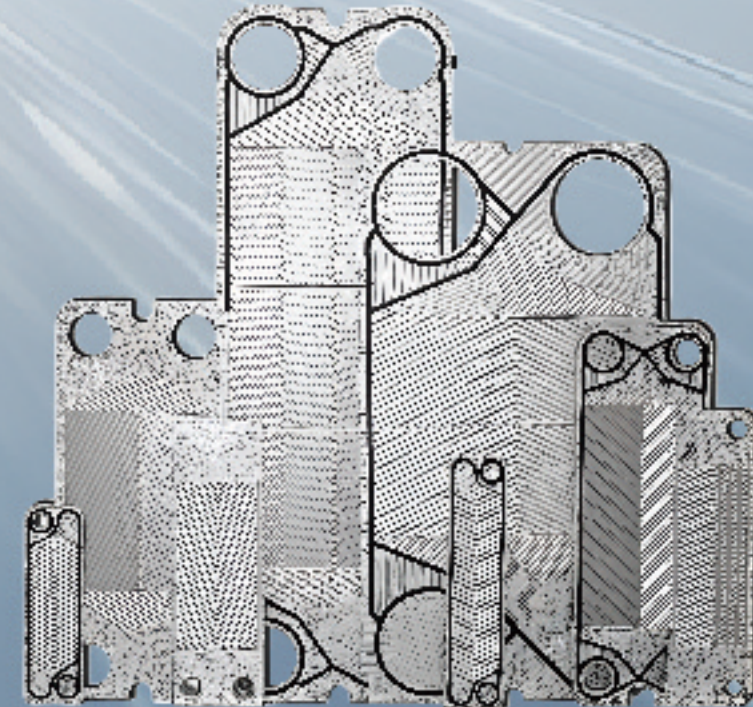
● Wide-gap Plate Heat Exchanger



● BR Series Plate Heat Exchanger



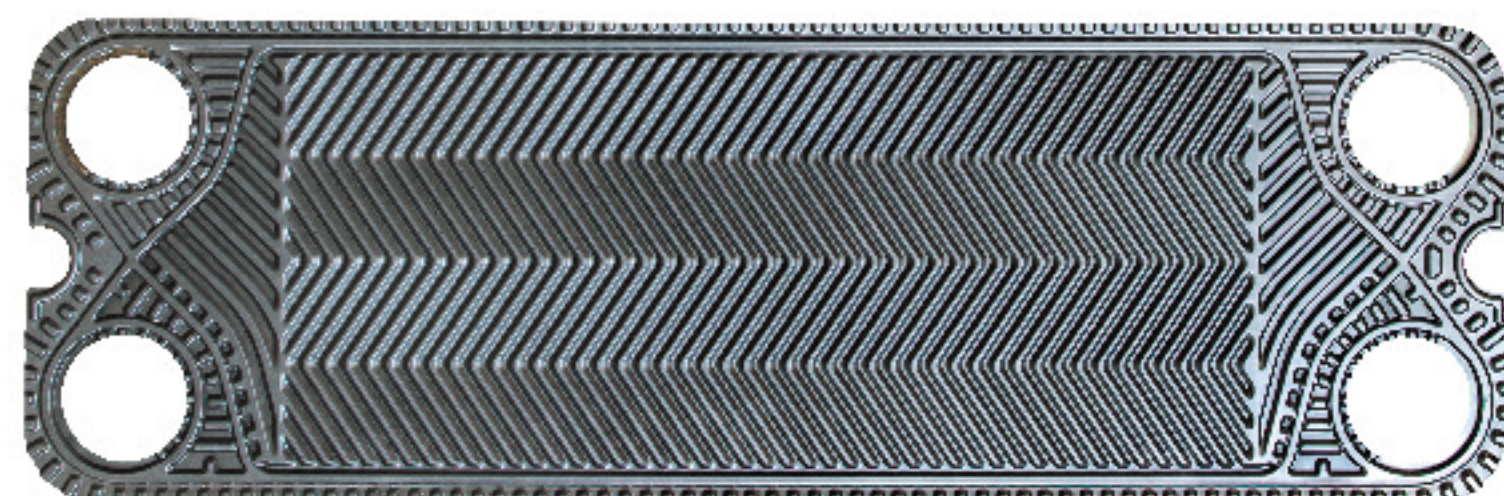
● Plate Heat Exchanger Plate



● Plate Heat Exchanger Gasket

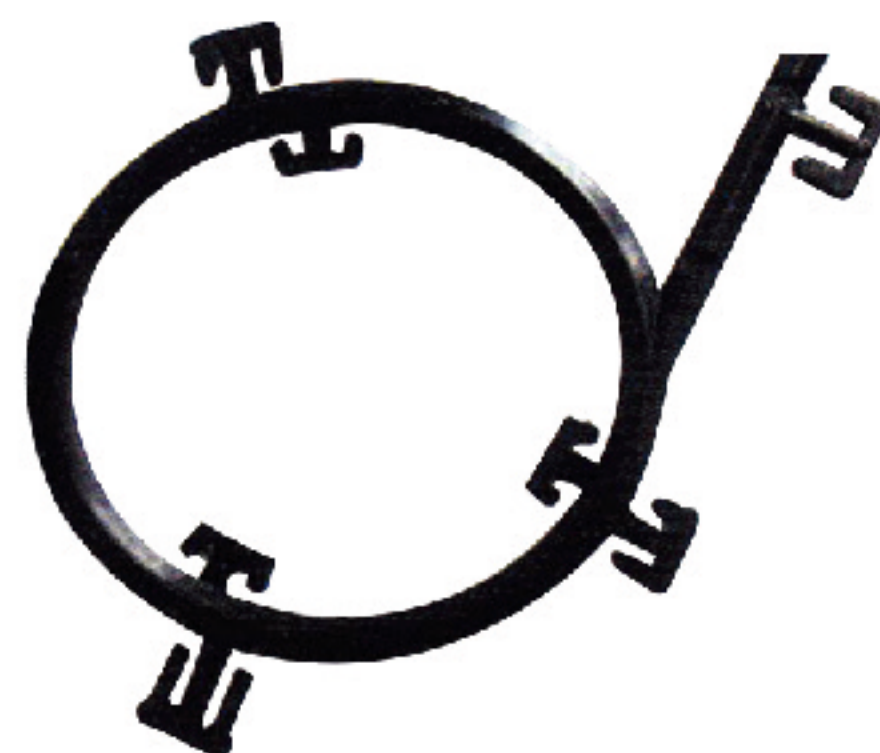


PLATE MATERIAL



Material	Specification
Stainless steel	SUS304 316L 310S 904L
Titanium and titanium-palladium alloy	TAI TAI-Pd
Hastelloy	C276 B2G
Nickel	Ni201
Molybdenum	254SMO

GASKET MATERIAL



Material	Operating Temperature Range	Operating Conditions
Nitrile Gaskets	-20°C-110°C	Resistant mineral, animal, vegetable oil and other non-polar media
Hydrogenated Nitrile Gaskets	-40°C-150°C	Resistant to sulfur crude oil, mixed media containing H2S, high temperature cooking oil and other non-polar media
EPDM Gaskets	-50°C-150°C	Heat water, steam, food and beverage, milk temperature sterilization
Solvent-based EPR Gaskets	-50°C-150°C	More polar solvents such good solvents, such as lipid solvents, dilute mineral acids, bases, etc.
Universal Viton Gaskets	0°C-180°C	Nonpolar mineral oils, lubricants and other alcohol-containing fuel
Special Fluorine Rubber Gaskets	0°C-220°C	High concentrations of acid and other inorganic oxygen acids

Note: All of the above material types have corresponding food-grade gaskets

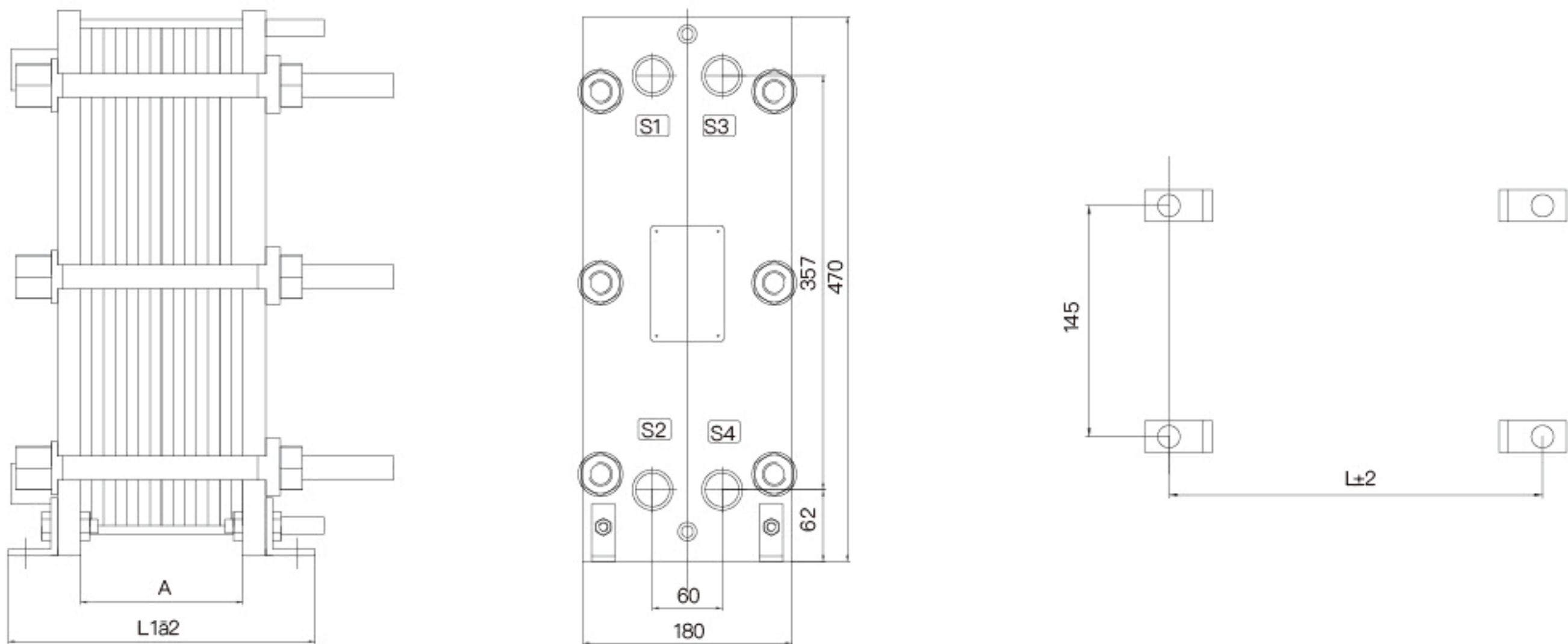
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HU03/HM3
Plate Thickness	0.5/0.6mm
Plate Hole Size	30mm
Maximum Throughput	15m³/h
Adapter Pipe For Large-diameter	DN30
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HU03	15	61	N*(2.6+X)	353
HM3	15	61	N*(3.4+X)	353

◇ Clamping Dimension: A ◇ Plate Thickness: X

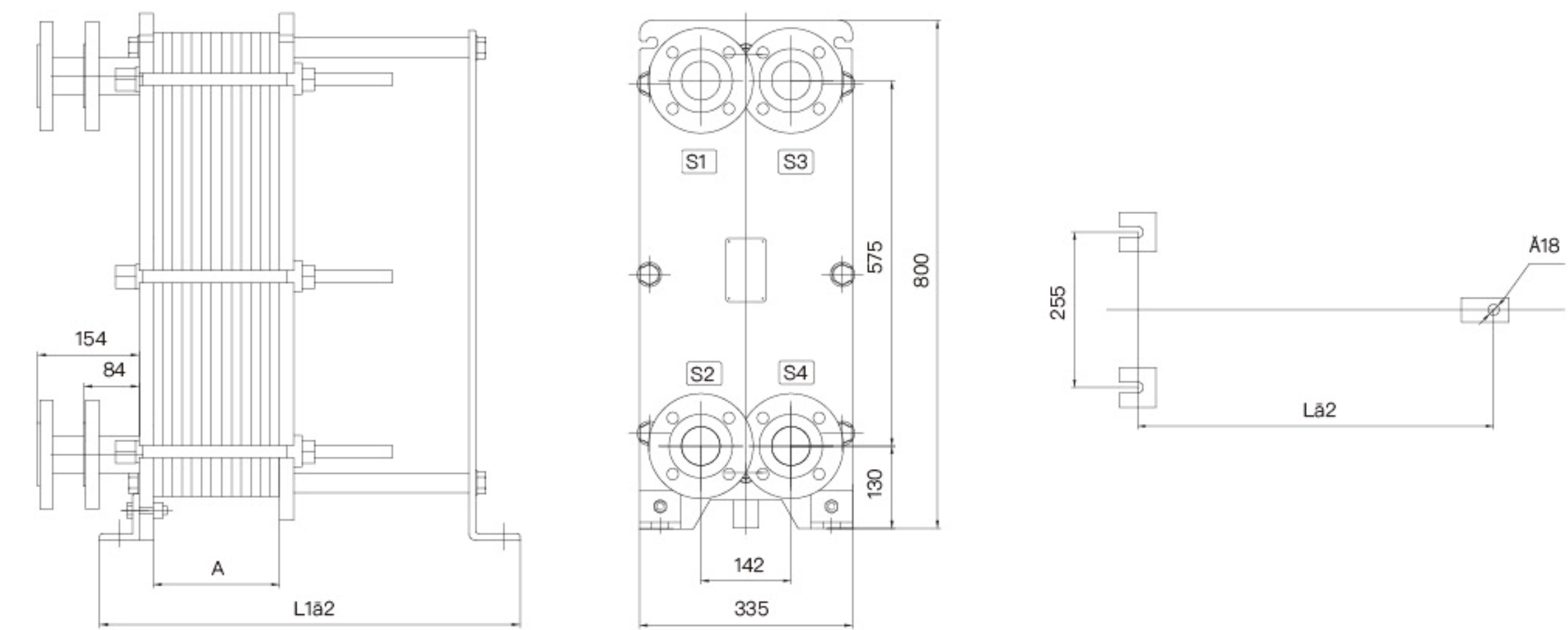
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HU05/HN05
Plate Thickness	0.5/0.6mm
Plate Hole Size	50mm
Maximum Throughput	45m³/h
Adapter Pipe For Large-diameter	DN50
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



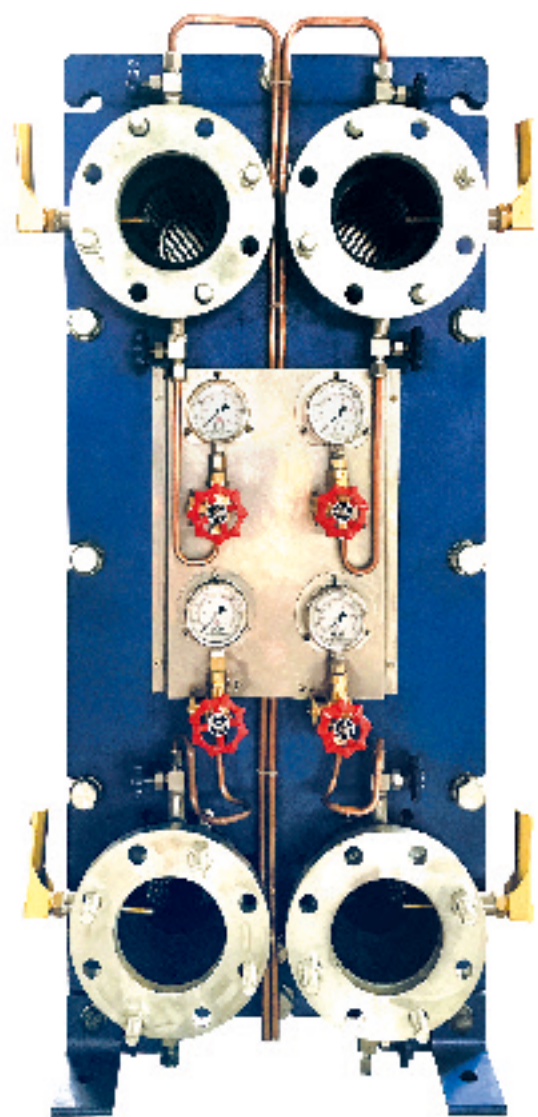
Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HU05	45	167	N*(3.0+X)	1390
HN05	45	211	N*(2.0+X)	1385

◇ Clamping Dimension: A ◇ Plate Thickness: X

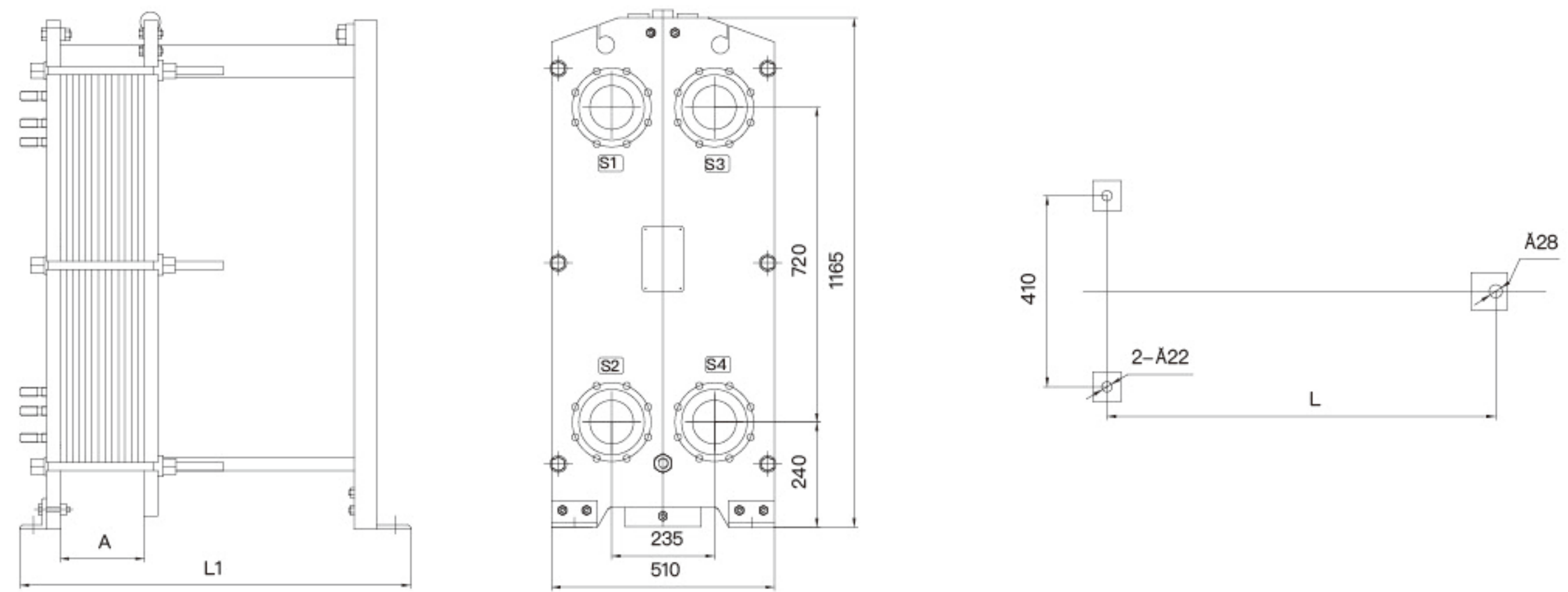
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HU10/HN10M/HM10M
Plate Thickness	0.5/0.6mm
Plate Hole Size	100mm
Maximum Throughput	170m³/h
Adapter Pipe For Large-diameter	DN100
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HU10	170	247	N*(3.6+X)	2015
HN10M	170	316	N*(2.0+X)	2316
HM10M	170	180	N*(4.0+X)	1720

◇ Clamping Dimension: A ◇ Plate Thickness: X

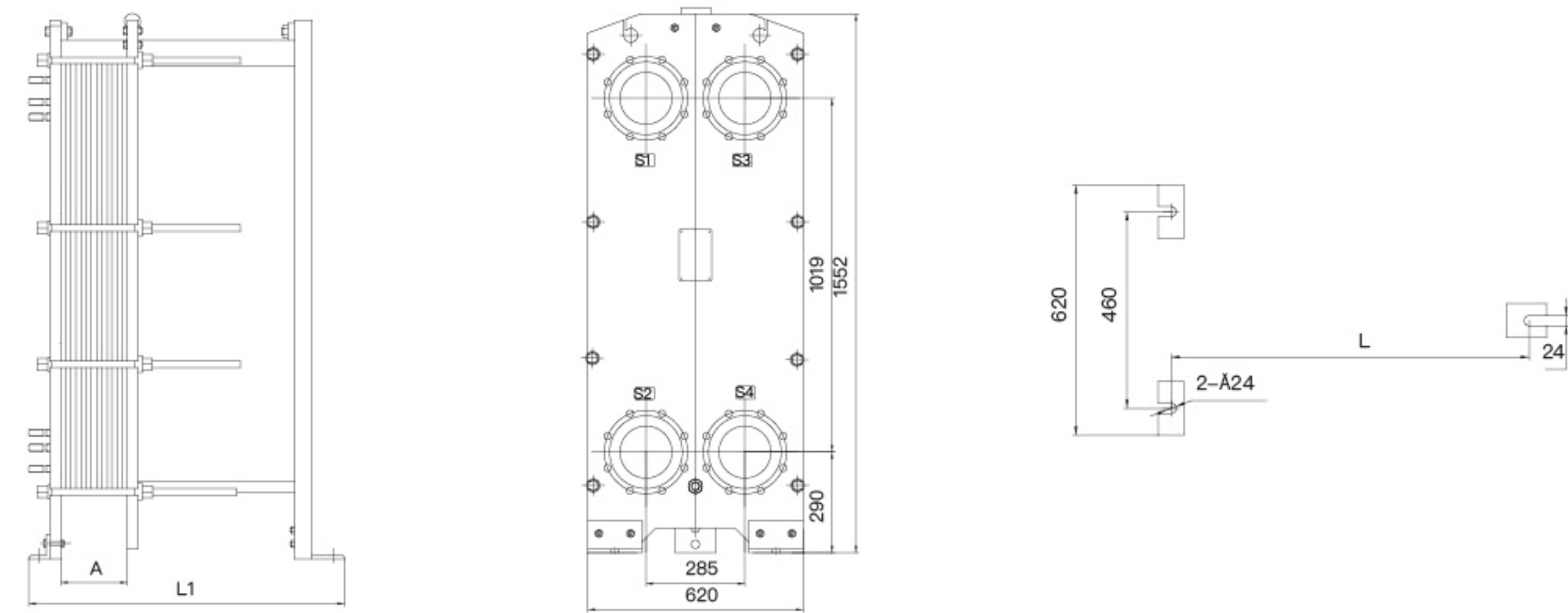
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HU15/HN15/HM15M
Plate Thickness	0.5/0.6mm
Plate Hole Size	150mm
Maximum Throughput	380m³/h
Adapter Pipe For Large-diameter	DN150
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



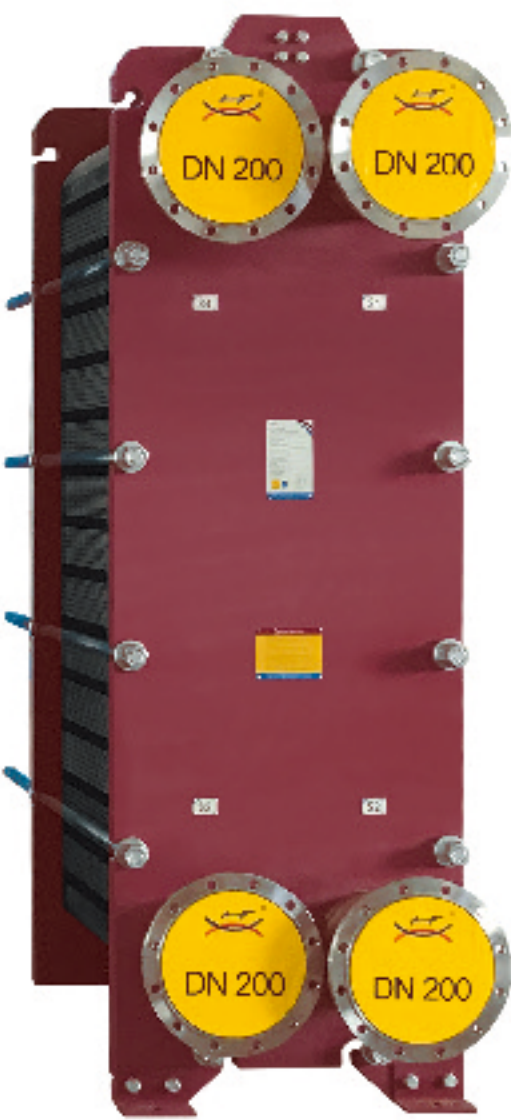
Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HU15	380	253	N*(3.8+X)	2346
HN15	380	268	N*(2.6+X)	2046
HM15M	380	415	N*(4.0+X)	3401

◇ Clamping Dimension: A ◇ Plate Thickness: X

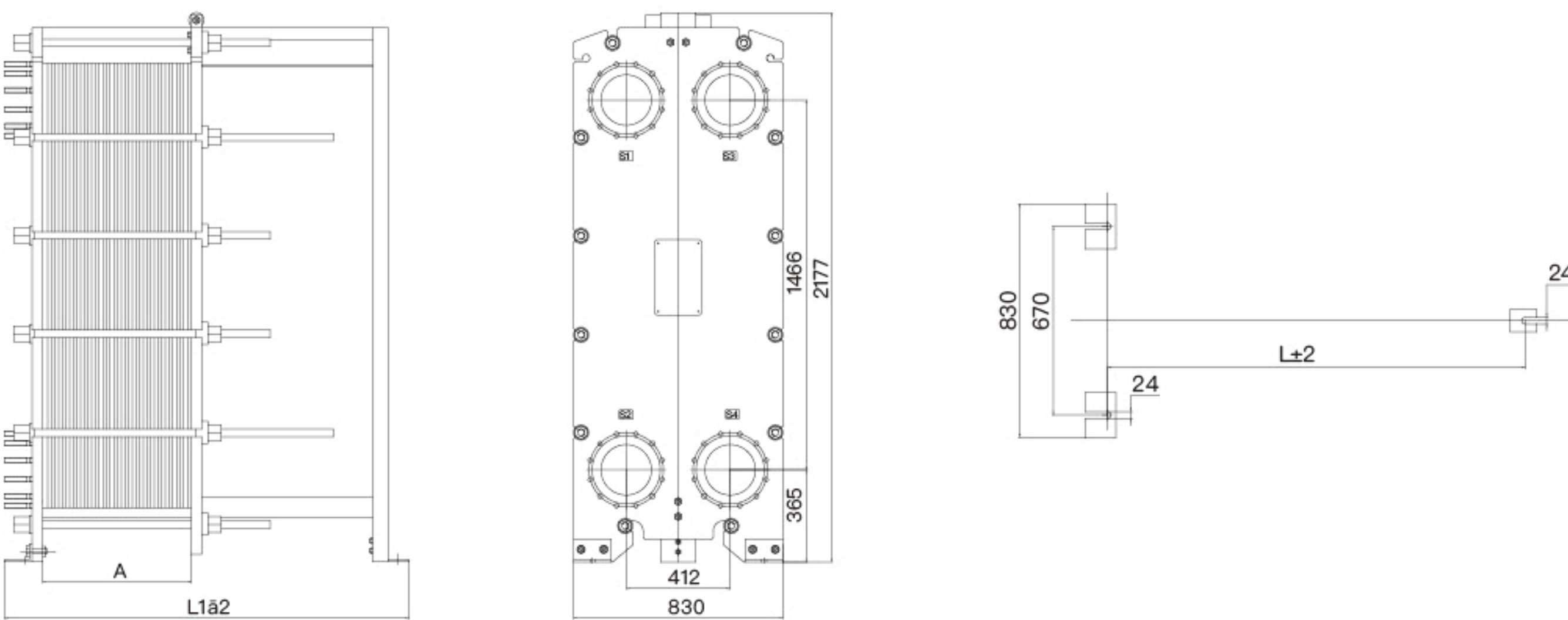
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HU20/HS20
Plate Thickness	0.5/0.6mm
Plate Hole Size	200mm
Maximum Throughput	680m³/h
Adapter Pipe For Large-diameter	DN200
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HU20	680	275	N*(3.8+X)	2651
HS20	680	251	N*(4.0+X)	2351

◇ Clamping Dimension: A ◇ Plate Thickness: X

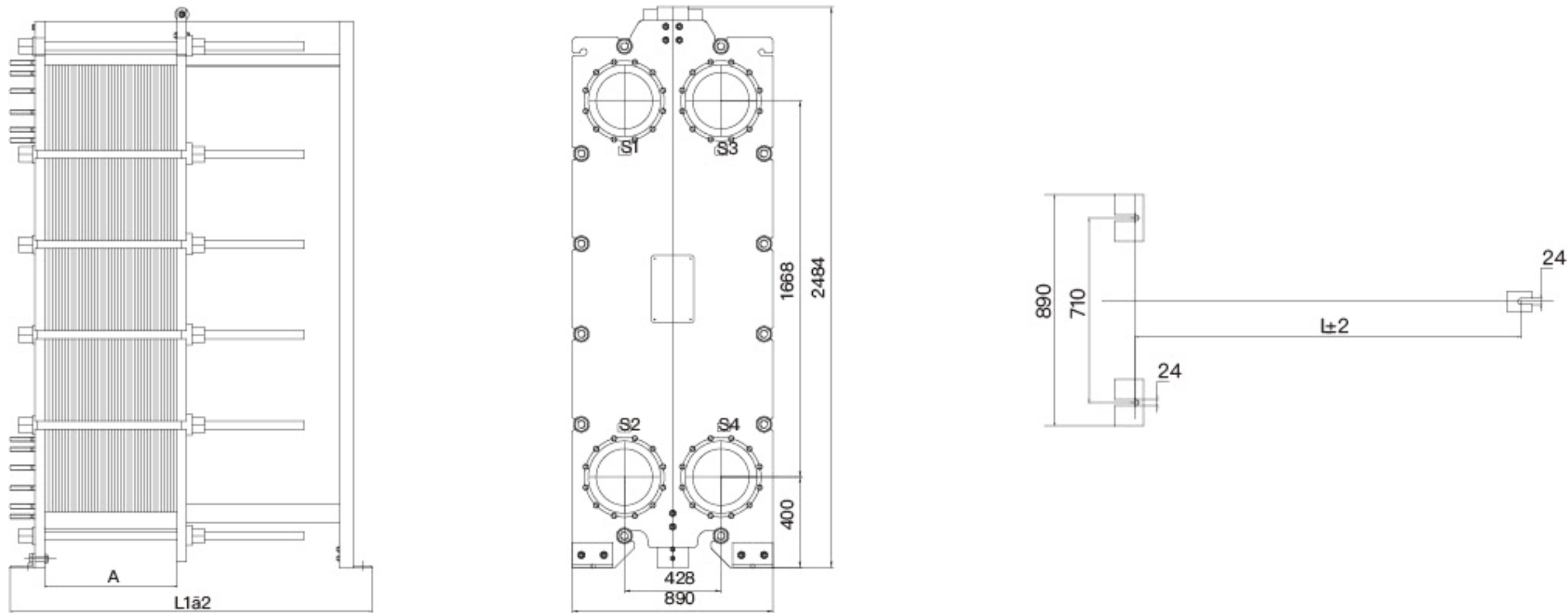
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HU25/HN25
Plate Thickness	0.5/0.6mm
Plate Hole Size	250mm
Maximum Throughput	1060m³/h
Adapter Pipe For Large-diameter	DN250
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HU25	1060	411	N*(4.0+X)	3067
HN25	1060	411	N*(2.6+X)	3067

◇ Clamping Dimension: A ◇ Plate Thickness: X

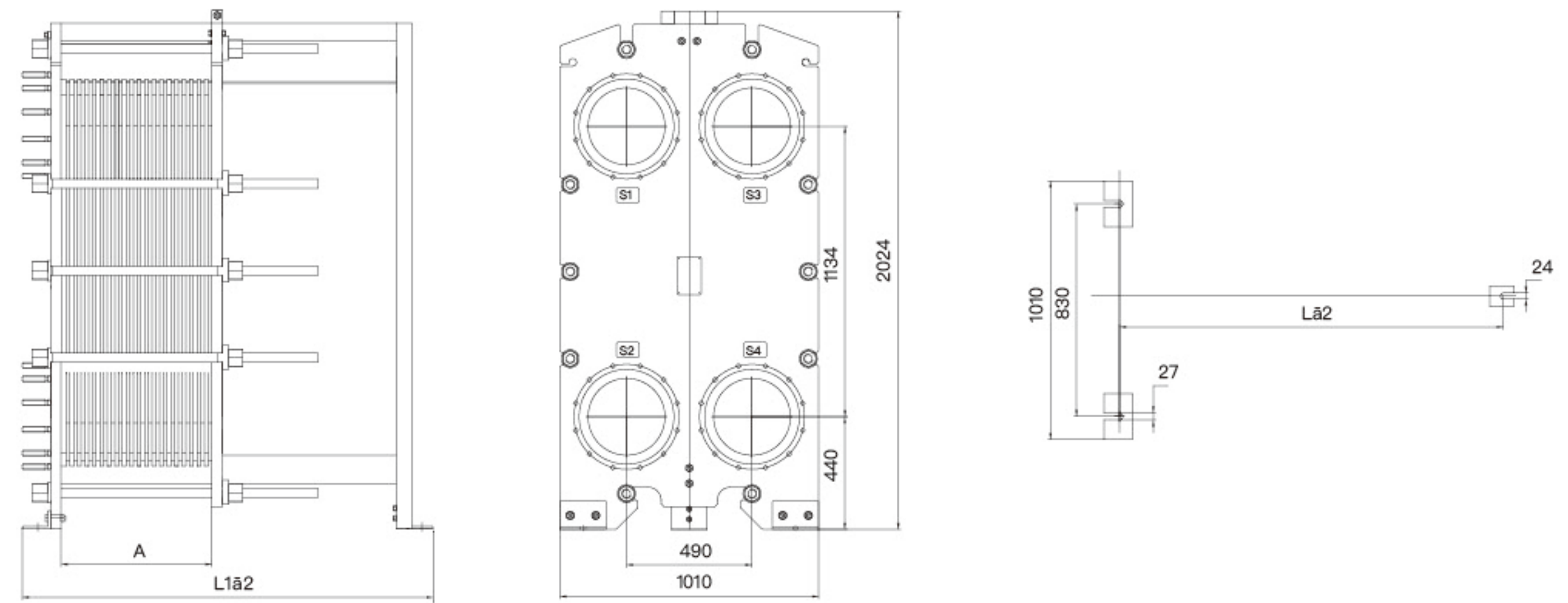
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HN30
Plate Thickness	0.5/0.6mm
Plate Hole Size	300mm
Maximum Throughput	1600m³/h
Adapter Pipe For Large-diameter	DN300
Working Pressure	1.0 / 1.6MPa
Test Pressure	1.3 / 2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HN30	1600	615	N*(3.2+X)	4676.5

◇ Clamping Dimension: A ◇ Plate Thickness: X

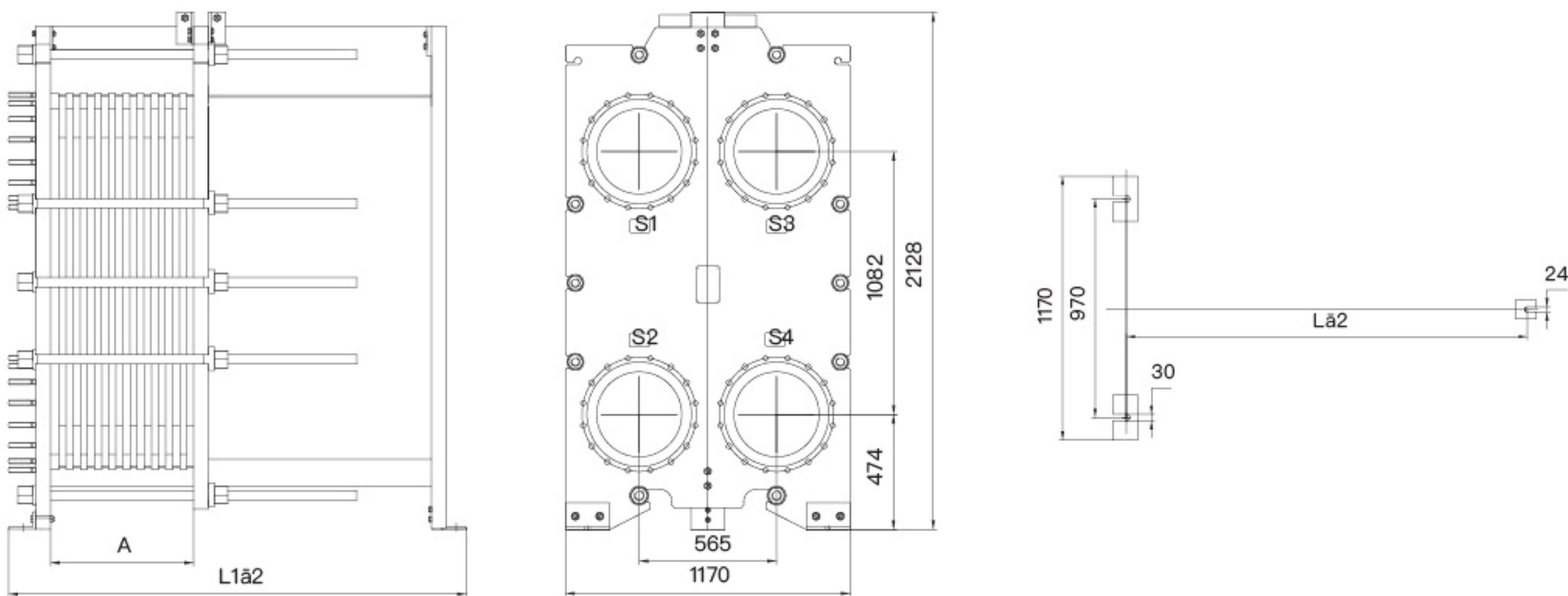
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HN35
Plate Thickness	0.5/0.6mm
Plate Hole Size	350mm
Maximum Throughput	2100m³/h
Adapter Pipe For Large-diameter	DN350
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HN35	1600	592	N*(3.8+X)	5116.5

◇ Clamping Dimension: A ◇ Plate Thickness: X

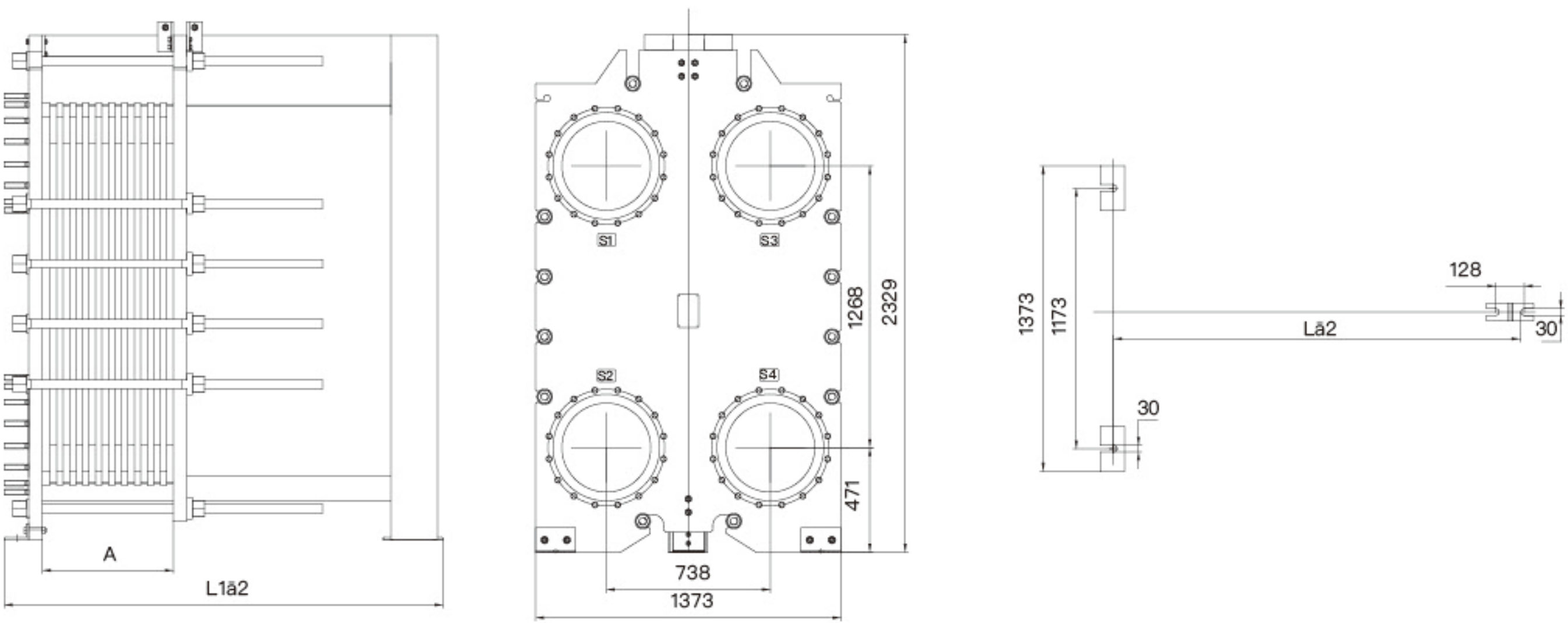
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HN40
Plate Thickness	0.5/0.6mm
Plate Hole Size	400mm
Maximum Throughput	2800m³/h
Adapter Pipe For Large-diameter	DN400
Working Pressure	1.0 / 1.6MPa
Test Pressure	1.3 / 2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HN40	2800	569	N*(3.8+X)	5148

◇ Clamping Dimension: A ◇ Plate Thickness: X

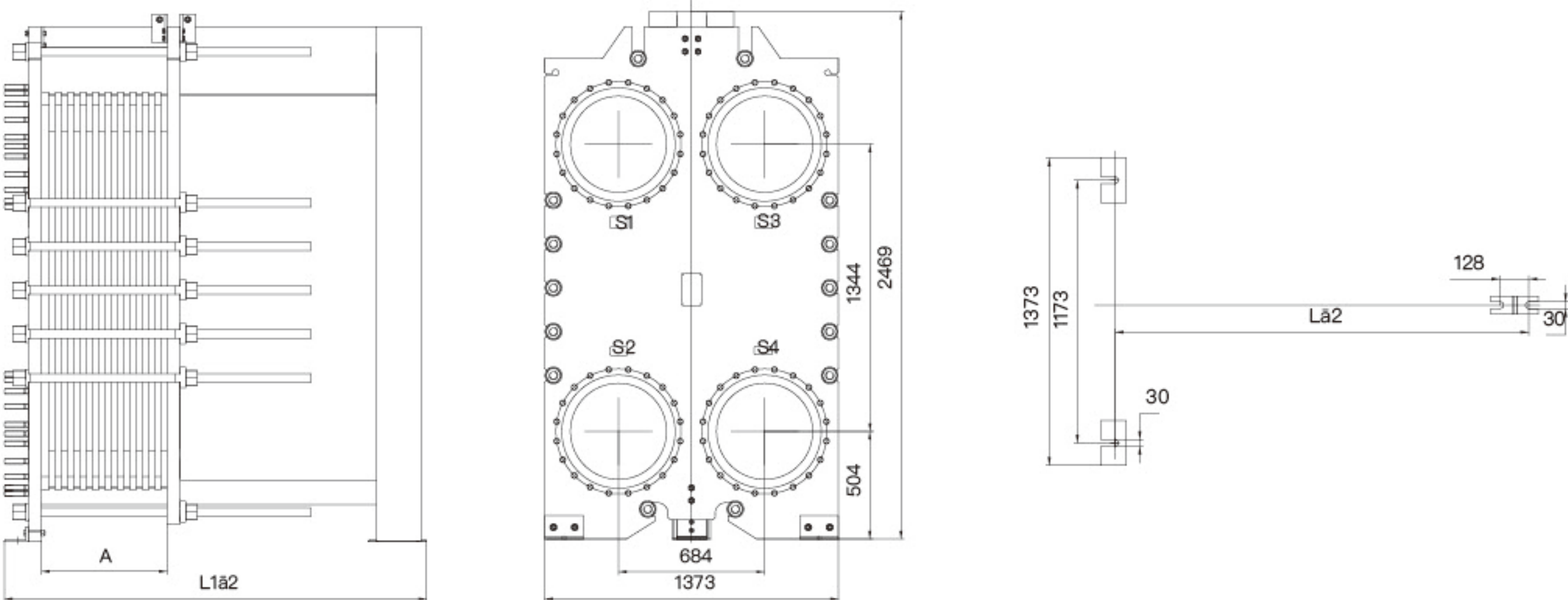
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HN45
Plate Thickness	0.5/0.6mm
Plate Hole Size	450mm
Maximum Throughput	3500m³/h
Adapter Pipe For Large-diameter	DN450
Working Pressure	1.0/1.6MPa
Test Pressure	1.3/2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HN45	3500	566	N*(3.8+X)	5148

◇ Clamping Dimension: A ◇ Plate Thickness: X

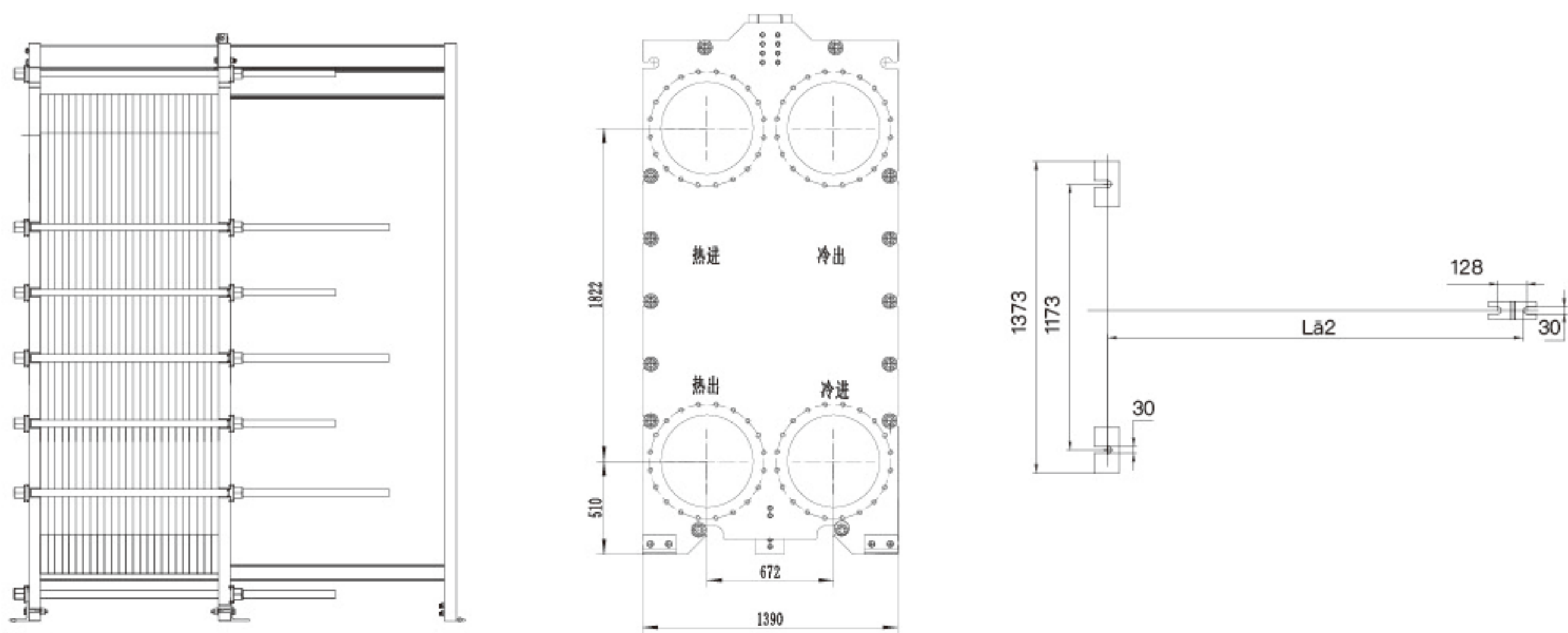
PLATE HEAT EXCHANGER

TECHNICAL DATE

Model	HN50
Plate Thickness	0.5/0.6mm
Plate Hole Size	500mm
Maximum Throughput	3800m³/h
Adapter Pipe For Large-diameter	DN500
Working Pressure	1.0 / 1.6MPa
Test Pressure	1.3 / 2.1MPa



DIMENSIONS



Model	Standard Max. Flow Rate m³/h	Max. Assembly Plate Quantity N	Clamping Dimension A	Max. Length L1
HN50	3800	579	N*(3.8+X)	5148

◇ Clamping Dimension: A ◇ Plate Thickness: X

APPLICATION FIELDS

Suitable for diverse fluids, temperatures, pressures and complex operating conditions. Aiprel plate heat exchangers feature abundant plate models, various material options and flexible combination solutions, delivering extensive selection range for customers.

HVAC



Heating supply for office buildings, factories and residential communities; heating & hot-water supply for hotels; heating and refrigeration for air-conditioning systems.

Organic Chemical Industry



Heating, evaporation & cooling of various inorganic acids, alkalis and salts; sulfuric-acid cooling; heating of high-concentration lye & electrolyte; heat-recovery units for desalination process.

Food Industry



Heating of raw-fruit juice & fruit pulp; pasteurization & cooling of milk; heating of carbonated drinks; heating-and-cooling processes for various wines.

Power & Nuclear Energy



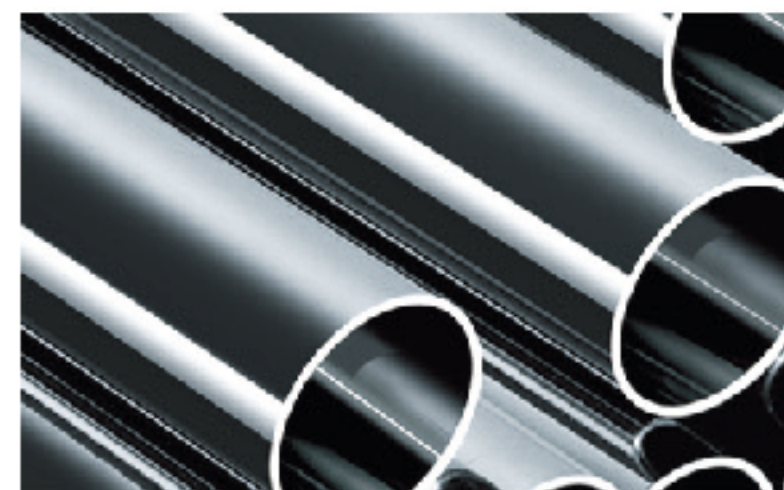
Closed circulating water cooling; nuclear island auxiliary cooling; auxiliary feed-water system; unit vacuum-pump cooling.

Steel Industry



Mold cooling; continuous-casting machine cooling; hydraulic-oil cooling; emulsion cooling; furnace-water cooling.

Surface Treatment



Electrolyte cooling; paint cooling; electroplating-solution cooling; phosphating-solution cooling.

Metallurgical Industry



Cooling for blast furnaces & continuous casters; closed circulating-water cooling; cooling for lubricating oil, emulsion and transmission oil in metallurgical processes.

Automotive Industry



Quench-oil cooling; paint-liquid cooling; phosphating-treatment liquid cooling.

Marine & Engine



Central cooling; lube-oil cooling; piston refrigerant cooling; transmission-oil cooling; preheating of heavy fuel oil and diesel oil; seawater temperature-rise.

Pharmaceutical & Healthcare



Cooling for emulsion, plasma, conveying liquid, antibacterial agent and starch liquid.

Water Treatment & Seawater Desalination



Membrane-system application; aquatic microorganism treatment; water purification; clean circulating-water reuse.

Petrochemical Industry



Heating & cooling of various oil products; desalted-water cooling system; large-scale unit applications.