

JeoTes™ WHAT GIVES?



More efficient and energy-conserving design



Most suitable plate heat exchanger designs for various conditions



Wider range of temperature and pressure, and wider application scope

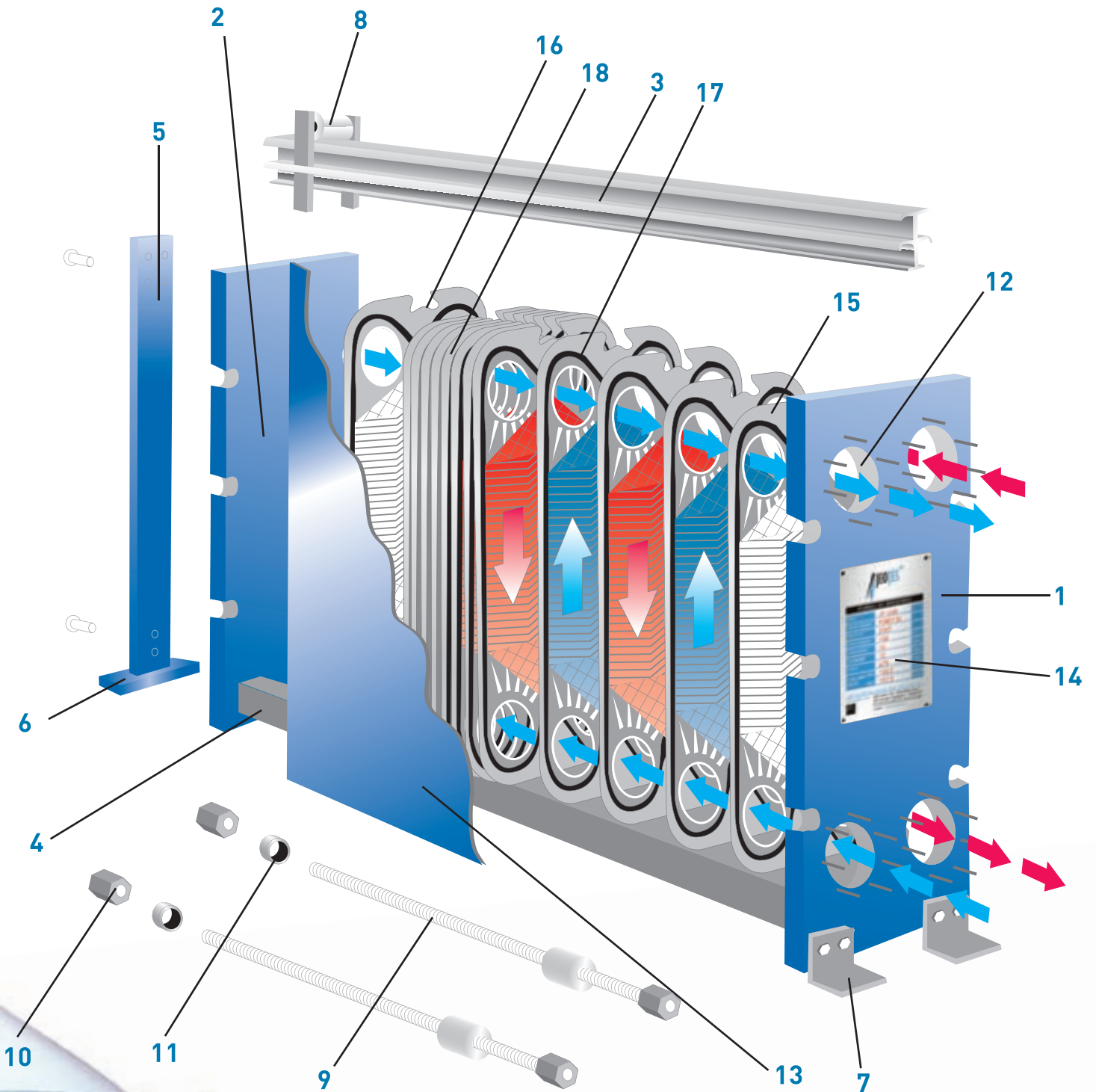


Lower operating and maintenance cost

Advantages of JeoTes™ PHE

- JeoTes™ Plate Heat Exchanger is more compact in structure compared to other heat exchanger.
- It can perform heat exchange under differential temperature of 1 °C with a designed pressure as high as 40Bar, capacity of 4500m³/h and connection size of DN25-DN500.
- JeoTes™ PHEs come in wide range of size and capacities. Different plate patterns are available for various duties and performance specifications.
- Jeotes™ PHEs provides convenience operating with the most suitable suppression depth.
- All plates are formed by one-step molding technology so as to reduce the plate's physical stress, improve the plate's uniformity and prolong the plate's useful life.
- Scientific distribution design of the plate can avoid scaling, dead spots, minimize dirtiness of the plate surface and increase the coefficient of heat transmission.
- The plate positioning system and single side flow design provide convenience for connection and maintenance.
- Jeotes™ PHE's can be made of different material, for example, stainless steel, titanium or other special alloy steel, are available to meet the requirements of various industries.
- The plate is easy to be inspected and manually cleaned. It can be cleaned by back flushing under many circumstances. The daily cleaning is not time consuming and professionals are not required.
- All plates use glue-free gasket so that there are less costs for operation and maintenance.
- The heat exchanging can be designed in many types from two fluid media with single counter-current to three or more fluid media with multi current, through the changing of flow type or increasing the flow passages. Therefore more suitable solutions can be selected by designers to meet different technical requirements.
- The best coefficient of heat transmission and pressure drop can be regulated and achieved by assembling the plates, thus the investment in equipment can be minimized.
- It is economical. The initial investment and operational and maintenance costs are substantially reduced because of its high heat transmission coefficient, convenient installation and service.

JeoTes™ PHE PARTS



1) Fixed head Plate	10) Lock washer
2) Mobile head Plate	11) Fastening nut
3) Carrying bar	12) Connections
4) Guiding bar	13) Isolation
5) Support column	14) Protection board
6) Support foot	15) Fore stand plate
7) Frame foot	16) End plate
8) Roller assembly	17) Gasket
9) Tightening bolts	18) Plate pack

JeotEs™ PHE PARTS

MATERIAL OF PLATE

Stainless steel AISI304, 316 Purified water, river water, edible oil and mineral oil, geothermal water

Titanium and palladium Sea water, salty water and salt substances, geothermal water

Hastelloy Alloy concentrated sulfuric acid, hydrochloric acid and phosphoric acid

Nickel High temperature and concentrated super alkali

Molybdenum, SM0254 Diluted sulfuric acid, diluted salt substance water solution, inorganic substance water solution, geothermal water and phosphoric acid
Molybdenum, SM0254

MATERIAL OF GASKET

NBR	water, sea water, mineral oil and salty water	-15~110°C
HNBR	high temperature mineral oil and high temperature water	-15~140°C
EPDM	hot water, steam, acid and alkali	-25~170°C
Fluorine Rubber	acid and alkali	-5~180°C
Neoprene	acid and alkali	-5~130°C
Silicon Rubber	food, oil, fattiness, alkyl	-65~250°C

MATERIAL OF FRAME

Standard	: Epoxy-coated carbon steel
Special purpose	: All stainless steel or coated with stainless steel

MATERIAL OF CONNECTION

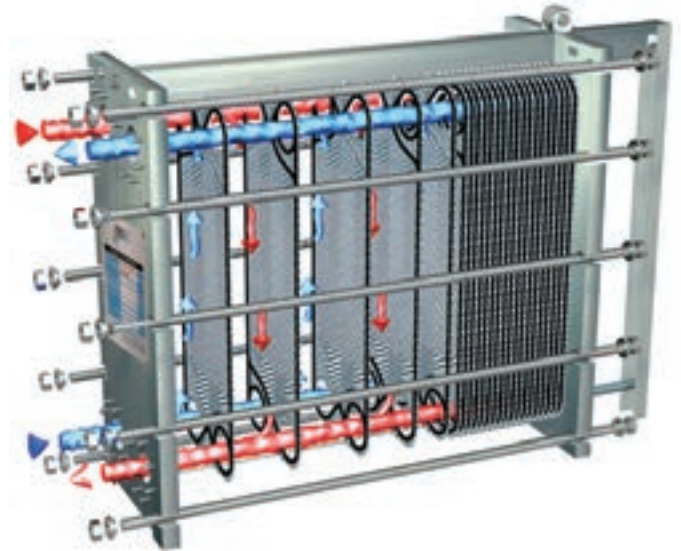
Standard	: Stainless steel threaded, flange
Special purpose	: Rubber lining, hastelloy alloy lining, titanium lining, other alloy lining

ACCESSORIES

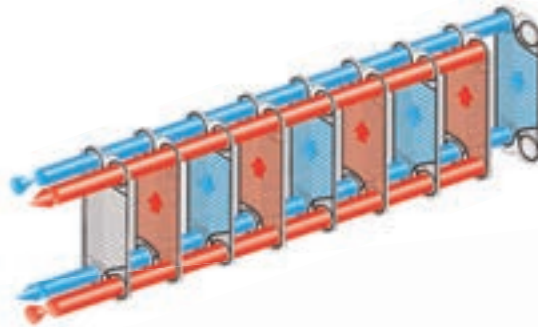
Insulation, interior filters, necked flange, thermometer, manometer, reverse washing system can also be provided on customer's request.

HOW JeoTes™ PHE WORKS?

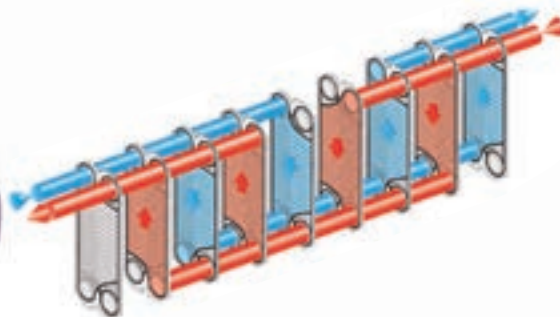
Plate heat exchangers consist of a number of corrugated plates. The plate pack is mounted between a fixed and movable pressure plate, positioned by an upper and lower carrying bar, and compressed by several tightening bolts. The media involved in the heat exchange process are fed into the plate pack via connections on the fixed and movable pressure plates.



The arrangement of the plates creates two separate channel systems, enabling the two media to flow past and between each other without physical contact, leaving the exchanger again via connections in the pressure plates. Plate with different patterns can be mixed in the heat exchanger in order to achieve optimum efficiency at a given pressure drop.



By installing special distribution plates in the plate pack, the media can be conducted several times through the flow channel.



FEATURES OF JeoTes™

Glue-Free Gasket

The most practical gasket currently used around the world are glue-free gaskets. JeoTes™ PHEs adopts Hang-On gasket and provides improvements on its original design. The gasket is embedded in the groove and fastened on the plate by plate claw. So that it is not so easy to drop and requires no special tools during installation. The gasket has an excellent tightness and long useful life due to its roof type structure. JeoTes™ PHE that adopts such gasket can withstand the pressure of 40Bar. These gaskets also are specially designed to avoid fluids to being wasted and even to being mixed. When the gaskets completed their physical service life or somehow couldn't fix properly, failed or non-slotted gasket can be detected immediately by the observed outflow in leakage section and be corrected once the gasket fails. For the maintenance, the plate of heat exchanger can be cleaned just after removing the gasket, which can be reassembled without any other special tools.



Excellent Plate Design



JeoTes™ has many types of plates with various angles and different corrugate depths and choose the most ideal plate according to your working duty and applications. It provides heat exchangers that are suitable for wide flow passage or narrow flow passage to meet different working duties and special media requirements.

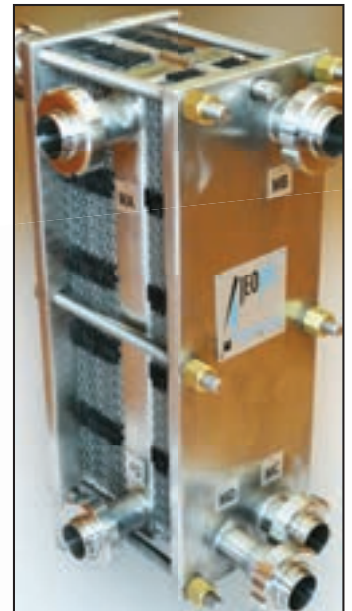
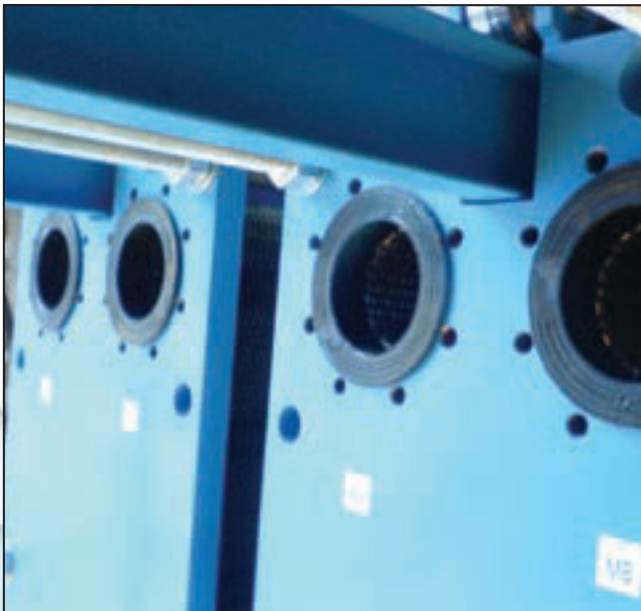
For example, there are two kinds of plates for the same model according to the angles of the pattern. One of them is of high coefficient heat transmission and high pressure drop, and the other one is of low coefficient heat transmission and low pressure drop. By combining of these two plate types, more effective and long-life design can be achieved. This is JeoTes™'s affair.

Five-point Positioning Structure

Especially for DN100 and upper models, five-point positioning structure makes the gasket clip on the plate accurately. At the same time consecutive plates fix each other. Consequently it makes PHE to be disassembled and assembled easily.



Advanced Frame Structure

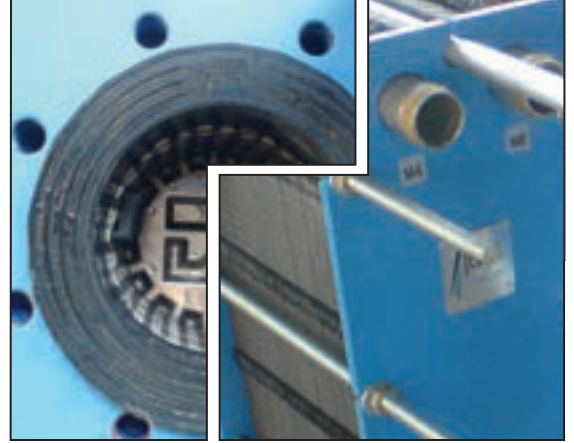


JeoTes™ plate heat exchanger is designed as single side flow. Flow passages can be formed by rotating the same plate 180° and arranging in a row. Consecutive plates are completely locked each other with an interlocking mechanism. The free bearing and the plates' easy moving in this bearing help the PHE to be tightened to an appropriate position. All bolts are covered with high-strength galvanization

Alternative Connection Types For More Durable PHEs

JeoTes™ PID, akışı tamamen plaka kanalları içinde tutabilmek, akışkanın gövde ile temasını kesebilmek için, bağlantı noktalarında, uygulamaya göre plaka veya conta malzemesinden imal edilmiş bağlantı elemanları içerir. Bu, gövdenin ömrünü uzattığı gibi, akışkanın da gövdenin boyasından etkilenmemesini sağlar.

Örneğin, arıtma, ilaç endüstrisi, gıda endüstrisi, gemi endüstrisi, ISOHA (HVAC), soğutma endüstrisi vb. yatırım ve işletme maliyeti yüksek ileri uygulamalar için, bağlantılarda meydana gelebilecek korozyonu önlemek ve daha önemlisi akışkanı korumak amacıyla, bu kaplama sistemlerinden birinin kullanılması son derece önemlidir. JeoTes™, bu maksatla, PID'nin ebadına göre dişli ya da flanş bağlantı şekli sunabilir, akışkana göre ise paslanmaz çelik, titanyum, kauçuk vb. malzemeler ile çözüm getirebilir.



Effective Distribution System



Distribution system makes the fluid possible to distribute uniformly across the entire width of the plate, eliminating dead spots. JeoTes™'s designs provide complete fluid distribution across even for its widest plate.

TECHNICAL SERVICES

JeoTes™'s professional and experienced engineers offer assembly, repair, renewal, PHE cleaning, spare part replacement services especially for local cooling-heating applications in maintenance times.

MAINTENANCE CONTRACT

The maintenance contract which was signed as you demand can assure the normal and effective operation of your heat exchangers. The experiences have told us the regular preventive maintenance is better than repair of big trouble. JeoTes™'s trained personnel will make preventive maintenance for you and help you make maintenance plan.

SERVICE

You can demand maintenance service from JeoTes™ for dirtiness, old gaskets and place in your place or our workshop. personnel will make preventive maintenance for you and help you make maintenance plan.



SPARE PARTS

JeoTes™ has quite wide stock for its own models. Delivery can be carried out within the same day in urgent cases. For other PHE brands, you can also supply them from JeoTes™. JeoTes™ supplies spare parts for all models of all brands and besides produces most of them and stocks for customers.



TECHNICAL SUPPORT



To ensure our products are installed, technical structure, maintained correctly, security cautions, spare parts and application fields, our maintenance engineers and technicians are always ready for cooperation.

DOCUMENTATION

Detailed operation manual is provided for customers to solve operating problems in time.
An original JeoTes™ technical data sheet is provided with each PHE.

CERTIFICATIONS

You can find our certificates as follows.

- Pressure Vessel –Directive 97/23 EC (CE Certificate)
- ISO 9007:2008 Quality management system certificate



ISO 9001:2008

It is possible to supply below certificates according to customer requirements

- China GB 16409-1996 Standard
- Italy Racolta M Standard
- Swedish Pressure Vessel Standard
- Australia Pressure Vessel Standard
- Japanese JIS Standard
- Chinese Pressure Vessel Standard
- AD 2000-Merkblatt
- ASME (Div.1/Div.2)
- TEMA (International)
- API (USA)
- GOST (Russia)
- ISCR (Romania)
- Lloyd's Register
- ASME U-Stamp
- HP0/DIN EN 729-2
- Bureau Veritas Certificates

