

Petroleum Exploitation

Plate heat exchanger application



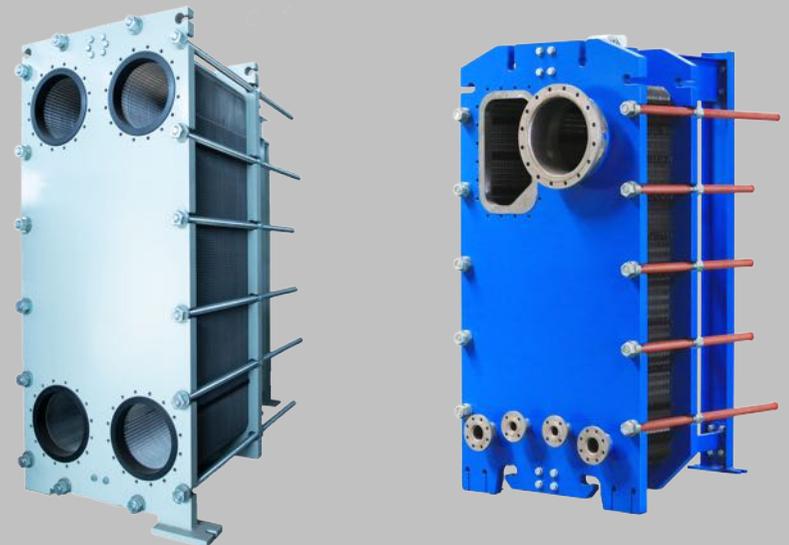
In the most of world, crude oil is the most precious non-renewable resource for countries . However, due to the rapid consumption for hundred years, the reserves are no longer that easy for us to find, it will eventually be depleted for the foreseeable future . Before then, we could manage to make drilling operation more efficient and profitable through plate heat exchanger .



The upstream of petroleum is E&P (exploitation and production), given the various ways of drilling, the raw crude oil contains large amount of water and corrosive mediums like acid, alkali and salt, which degrades the quality ratings. So further process is necessary before shipping. Plate heat exchanger could be used to heat the crude oil to separate them. The heat of the condensed water can be recovered in the other process, like preheating boiler feed water. The thermal energy of the dry crude could also be reused.



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Advantages

- 1, Less footprint;
- 2, Higher capacity;
- 3, Low maintenance cost;
- 4, Longer uptime;
- 5, Energy saving;
- 6, Environmental friendly;

How- Two Core Features

1, Turbulence: Liquid or steam flows through the passage between corrugated plates, generating high turbulence in the medium. This leads to better heat transfer between media. -High channel turbulence also means less scaling and less maintenance, thus more normal operation time, which in turn increases the production capacity of the factory.

2, Counter-current flow: cold fluid can be heated to a temperature very close to hot fluid. The closer the temperature between the two fluids is, the more heat is recovered.



PHE Standard Range General Specifications

	Gasket plate heat exchanger	Bloc plate heat exchanger
Max connection diameter/ DN	500	800
Max. volume flow m³/h	4000	2000
Max. Heat transfer surface/m²	1520	650
Designed Pressure rate MPa	2.5	4.0
Temperature °C	-40-180	-195~300
Plate material	316 SS, Avesta 254 SMO, Titanium	
Frame material	Carbon Steel, 304 SS, 316 SS	Carbon Steel



The Gasket plate heat exchanger is expandable and easy servicing. It is used in low-temperature and low-pressure auxiliary refineries, such as secondary cooling water circuits and condensation systems.



The Bloc plate heat exchanger's inside structure is similar with traditional plate heat exchanger only without gasket, the plates are laser-welded alternately. And its frame is easy to dismantle for cleaning and maintenance.



Our **service** is better than you expected

HFM offers rich experience in petroleum exploitation businesses. We have multiple global warehouses and service teams around the world, the delivery time and freight are reduced to the largest extent, and spare parts can be delivered at the fastest speed. Manufacturing is merely one part of our business, knowing our customers requirements and acknowledge various kinds of working conditions is our daily life.

1, Inventory management

In order to ensuring delivery effectiveness, based on the acknowledge of PHE market and supply chain management, HFM has distributed the warehouses around the world.

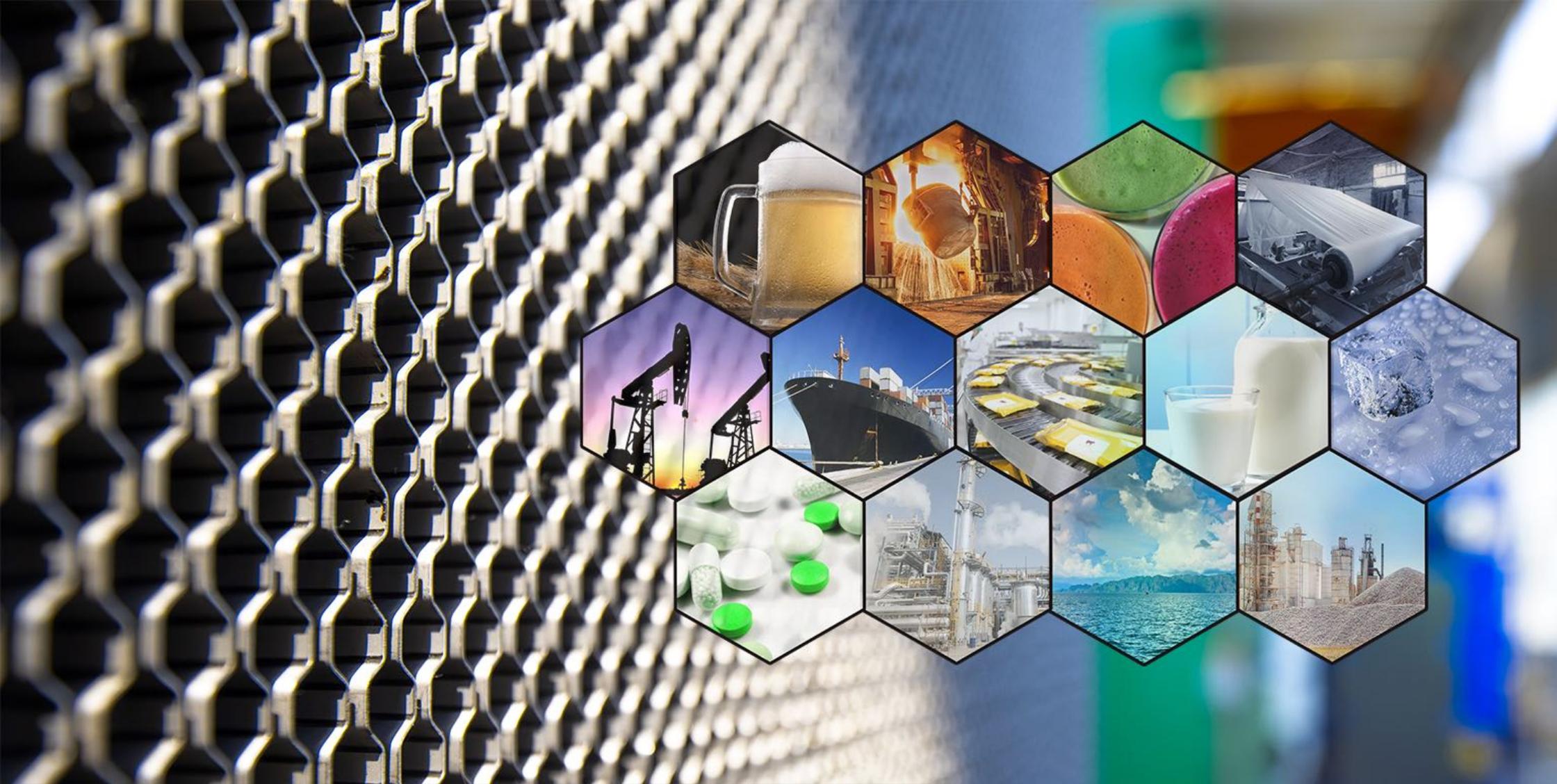
2, Spares replacement

HFM has the full range of plate heat exchanger spares, our service engineers could either travel to the scene or remote guid your team to replace.

3, Cleaning service

HFM can provide both CIP(cleaning in place) and disassembling cleaning services depending on your circumstances.





Professional design solution:

Our technical department dealt with various application year after year, the accumulative experience forged a special team with exploring spirit and critical spirit. The gasket plate heat exchanger is our core business, thousands of units have been in services for many years in different fields.

Service is our cornerstone :

We consider customer as our priority, understanding customers' real needs and rapid feedback are the basics. We and customers are bound to each other for learning and developing, sharing knowledge keeps us growing, which makes accomplishing projects easier and faster.

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