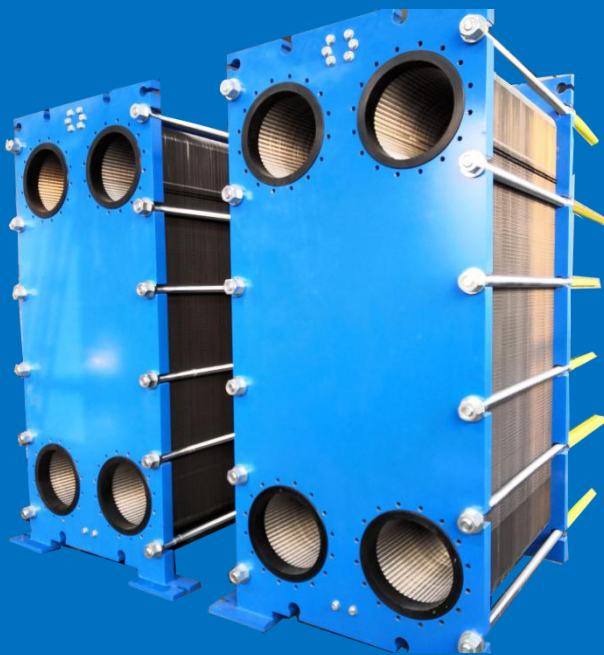


ALL ABOUT PLATE HEAT EXCHANGER



HFM
INDUSTRY

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HFM - Expert of Plate Heat Exchanger

HFM is Your One-Stop Plate Heat Exchanger Solutions and Services Provider!

Core Competitiveness "Five Providers"

- ◆ Excellent Product Quality
- ◆ Professional Design Solution
- ◆ Full Model Spares Support
- ◆ Global 24-7-365 Service Support
- ◆ Fast Delivery Export Operations



HFM History

Background

In 1998, General Manager James established Greenleading as GEA heat exchanger's authorized agent in China to develop the domestic market. It was leading record of No. 1 for 3 years in Power Plant projects.

Transfer

In 2009, HFM was founded as the first E-commerce platform of plate heat exchanger. It was created as an integrated global supply chain to provide full models product, all range of plate heat exchanger technical and service support.

Mature

Till June. 2017, HFM has served over 2,000 clients from 55 countries and areas over the world. And a global cooperated service center in USA, France and Italy.

Future

Cloud platform of plate heat exchanger industry, offering big data service for engineering, products, market & applications and services.

HFM Plate Heat Exchanger

Gasketed Plate Heat Exchanger

A gasketed plate heat exchanger (PHE) comprises a pack of spaced corrugated plates arranged such that the two heat exchanging fluids flow through alternate spaces in the pack. The corrugations maintain the gap between adjacent plates which are sealed against each other.

The plate design has two corrugated forms: horizontal corrugated and vertical corrugated. The plates can meet different pressure drop requirements and suit for different working conditions media.

The corrugated “herringbone” pattern makes more contact points between plates bearing more uniform pressure and ensures turbulent flow in the whole effective area.

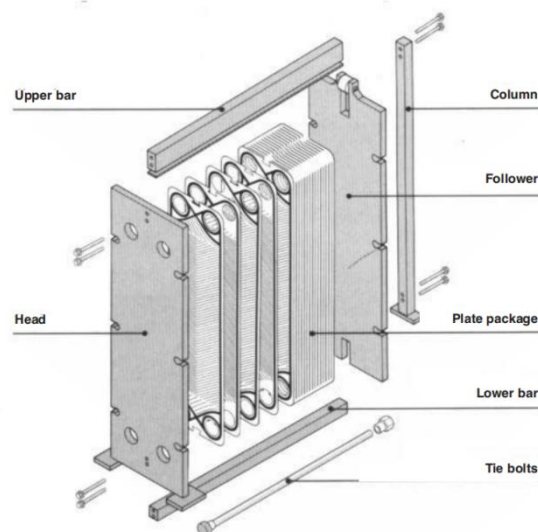
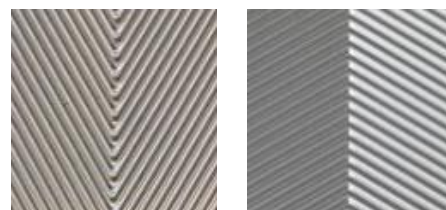
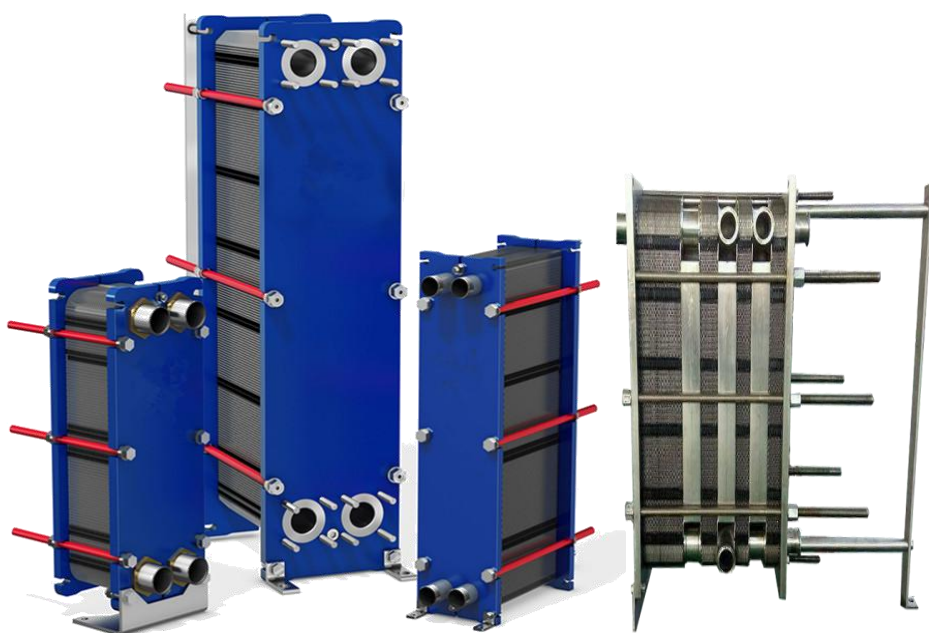


Plate Pattern



Features

- High heat transfer efficiency
- Low pressure lose
- Compact structure
- Easy assembly & disassembly
- Sensitive temperature control
- High operating flexibility
- Long life-time



Frame:

- Painted frame, colour RAL 5002 (available in other colours)
- Stainless steel frame, designed for the food and dairy industry.

Both frames comes with clamping bolts placed around the frame edge.

Plates:

Material: AISI304, AISI316, 254SMO, C276, Titanium
Other materials available on request.

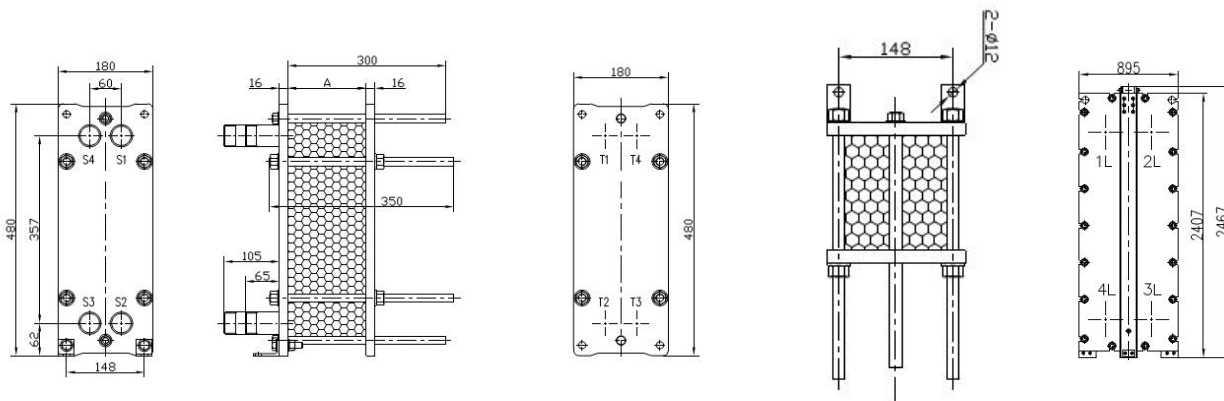
Gaskets:

The unique non-glued gasket which packs the plates together easily with clipped-on rubber sealing, so that the plates are strongly guided during the assembly of the plate heat exchanger.

Materials: NBR, EPDM and VITON.
Other materials available on request.

HFM Plate Heat Exchanger

Parameters of HFM Plate Heat Exchangers



Model No	Diameter DN	Heat Transfer Area m2	Max Flow Rate	Shape Size (W*H)
HFM5B	30	0.03	10	180*480
HFM15B	60	0.13	50	330*940
HFM25B	100	0.22	140	470*1084
HFM15C	60	0.25	50	320*1264
HFM25C	110	0.5	170	480*1881
HFM50C	140	0.62	280	610*1885
HFM85CM	205	0.85	200	780*2015
HFM35C	155	1	340	637*2692
HFM 5A	30	0.046	10	180*570
HFM10A	50	0.06	35	323*670
HFM 15A	50	0.115	35	290*920
HFM10B	50	0.155	35	323*1020
HFM10C	50	0.25	35	640*1390
HFM30A	100	0.25	140	540*1110
HFM 25A	80	0.26	90	425*1179
HFM30B	100	0.45	140	540*1515
HFM 45A	115	0.46	200	520*1570
HFM 50A	150	0.48	315	640*1657
HFM30C	100	0.65	140	540*2002
HFM 50B	150	0.75	315	640*2137
HFM 85A	180	0.84	450	910*2203
HFM 90A	250	0.88	880	895*2212
HFM 90B	250	1.13	880	895*2509
HFM 90C	250	1.38	880	895*2806
HFM 120A	350	1.48	1700	1370*2524

HFM Plate Heat Exchanger

Brazed Plate Heat Exchanger

The compact stainless steel plate pack of brazed plate heat exchanger is vacuum brazed together with copper or nickle. Compared with gasketed plate heat exchanger, brazed plate heat exchanger can endure high temperature of 225°C, pressure up to 45Mpa.

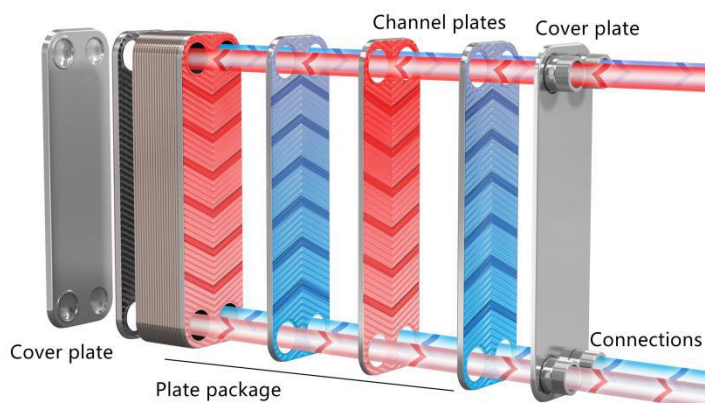
HFM brazed plate heat exchanger consists of a number of 0.4mm thin plates which transfer heat high efficiently. It can be used as a condenser or evaporator.

The plate pack, assembled with two end plates and connections, is vacuum brazed at extremely high temperatures providing a permanently sealed heat exchanger. The final result is a strong and compact plate heat exchanger with extremely high heat transmissions. The high heat transmission comes from the main pattern which is designed to create a



Data Required for Custom Design

- Types of Media
- Working Pressure
- Pressure Loss
- Thermodynamic properties
- Temperatures



Features

- High heat transfer efficiency
- Compact structure
- Easy installation
- Easy deinstallation
- Durability

Standard Materials:

- Channel plates and connections: AISI 316/ AISI304
- End plate: AISI 304
- Connections: AISI 304/ AISI316
- Brazing material: Copper or Nickle

Connections:

- Male/ female thread BSP/ NPT
- Pipe connection
- Other connections available on request.

Design Pressure:

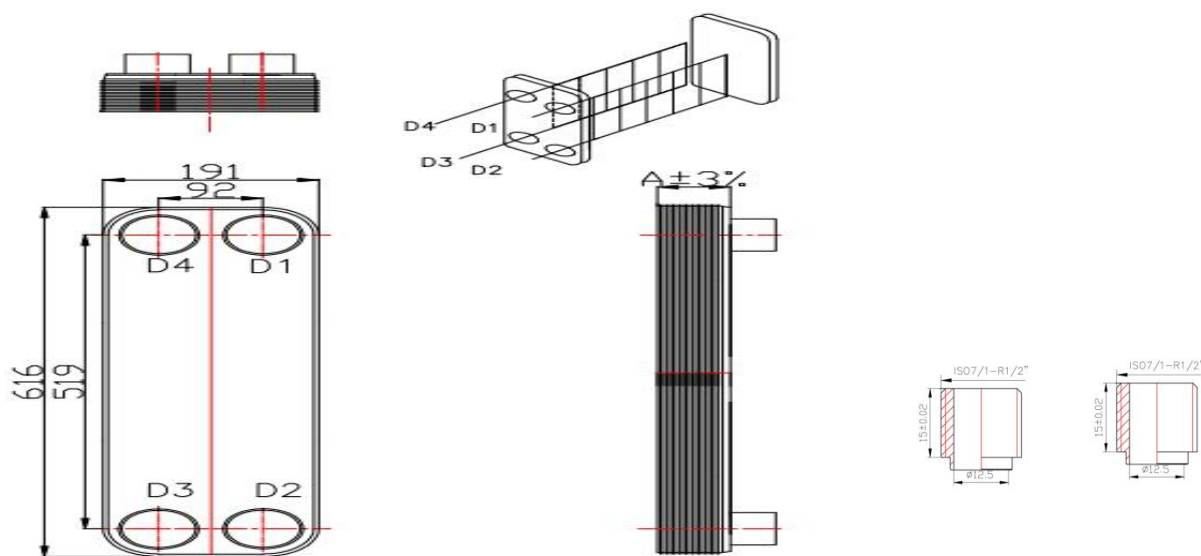
- Copper brazed: 45 Bar
- Nickle brazed: 15 Bar

Design Temperature:

- Copper brazed: -160~225°C
- Nickle brazed: -160~250°C

HFM Plate Heat Exchanger

Parameters of HFM Plate Heat Exchangers

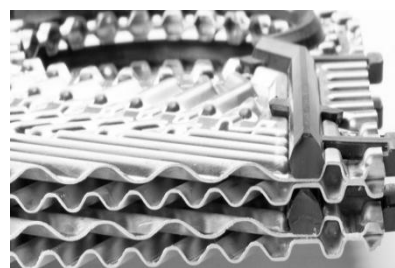
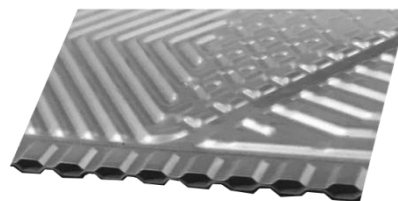


Model No	Width	Highth	Thickness	Hole Center Distance	Max Pressure	Max Flow Rate	Weight
HFQ10	76	206	9+2.3n	172*42	1/3/4.5	8	0.7+0.06n
HFQ15	80	190	9+2.3n	154*40	1/3/4.5	8	0.7+0.06n
HFQ25A	78	318	9+2.3n	282*42	3/4.5	8	1.0+0.08n
HFQ25B	86	315	9+2.3n	269*40	3/4.5	8	1.0+0.08n
HFQ30	111	310	10+2.36n	250*50	3/4.5	18	1.3+0.12n
HFQ35	124	304	13+2.4n	250*70	3/4.5	18	2.2+0.16n
HFQ36	122	282	11+3.1n	227*52	3	18	1.88+0.104n
HFQ50A	111	525	10+2.35n	466*50	3/4.5	18	2.6+0.19n
HFQ52B	111	525	10+2.35n	466*50	3/4.5	18	2.6+0.21n
HFQ60A	119	526	10+2.24n	470*63	3/4.5	18	2.379+0.194n
HFQ60B	119	526	10+2.24n	470*63	3/4.5	18	2.379+0.194n
HFQ90A	191	616	11+2.35n	519*92	3/4.5	42	7.8+0.36n
HFQ90B	191	616	11+2.72n	519*92	3/4.5	42	7.8+0.44n
HFQ100	248	496	10+2.15n	405*157	3/4.5	42	6.5+0.37n
HFQ125A	246	528	13+2.36n	456*174	3/4.5	42	7.2+0.52n
HFQ125B	246	528	13+2.36n	456*174	3/4.5	42	7.2+0.52n
HFQ180	307	696	13+2.76n	567*307	1.5/2.1	100	10+0.51n
HFQ210	321	738	13+2.7n	603*188	1.5/2.1	100	13+0.75n
HFQ210A	321	738	13+2.7n	603*188	1.5/2.1	100	13+0.75n
HFQ230	322	739	13+2.55n	631.7*205.2	3/4.5	100	13+0.82n
HFQ600	429	1398	22+2.78n	1190*220	1.5/2.1	300	31.8+1.73n

HFM Plate Heat Exchanger

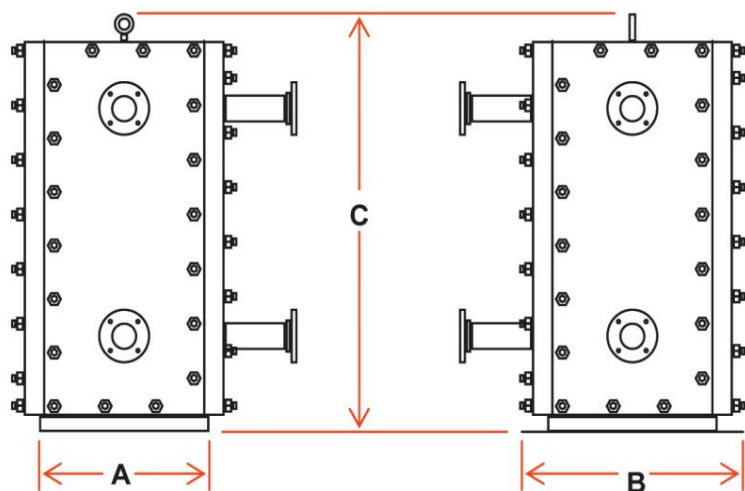
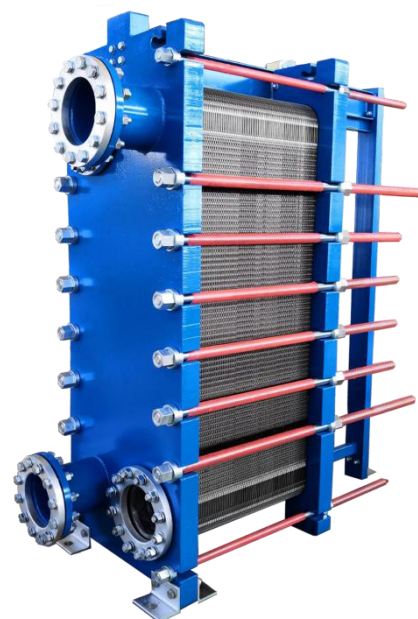
Semi-Welded Plate Heat Exchanger

The Semi-welded Plate Heat Exchanger is particularly offered for heating and cooling of aggressive media. Two corrugated plates are positioned back to back and welded together as "cassette" by laser, along the sealing groove designed for the gasket of the semi welded PHE. The semi-welded plate for PHE is specially offered for aggressive media. Generally, two pieces of PHE stainless steel plates are welded back to back by laser along the sealing groove for the gasket to form the plate cassette. Each cassette is sealed with a gasket. The refrigerant flows from one cassette to the other, contacting with only two of the four ring gaskets at the inlet and the outlet.



Features

- Wide temperature range from -38°C to 200°C
- Maximum design pressure up to 30 bar
- Rigid mechanical construction
- Outstanding leakproofness for high safety
- Capacity in handling aggressive media
- Adjustable size
- Compact structure and small installation space



Fully-Welded Plate Heat Exchanger

The fully-welded plate heat exchanger is widely applied in oil and gas industry, refinery applications, pharmaceutical industry, chemical/petrochemical industry. HFM's fully-welded plate heat exchanger can replace block heat exchanger.

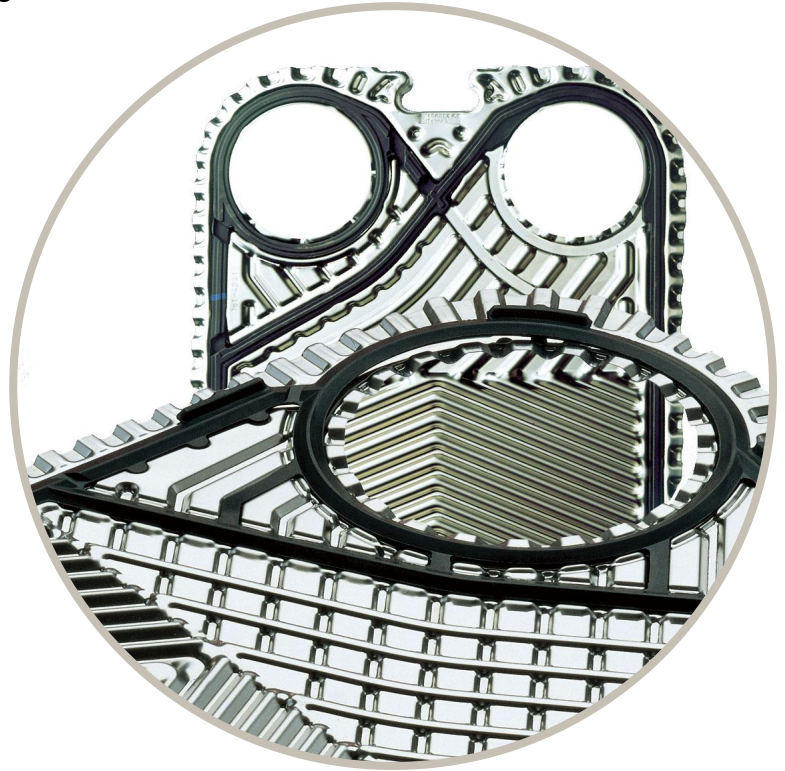
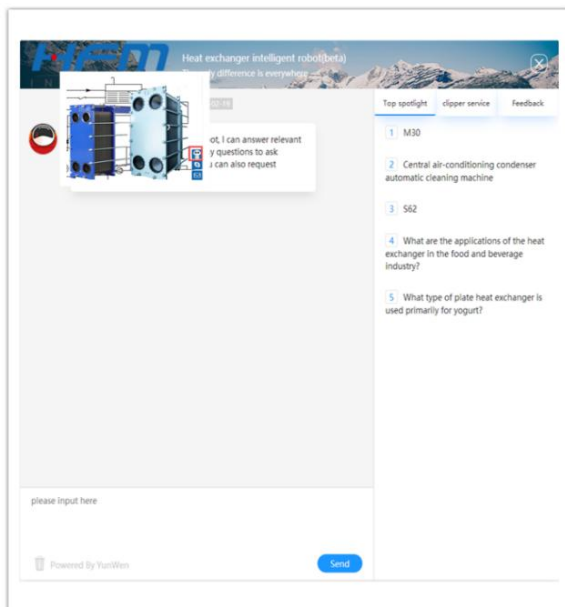
HFM Plate Heat Exchanger

Plate Heat Exchanger Spares HFM Bank

- Multi-brand full models gasket plate spares
- Tailor made for replacement market

All HFM do is to shorten delivery time!

- Local Inventory
- Production Distribution
- Big-data Analysis



HFM Plate Heat Exchanger

Plate Heat Exchanger HFM Service Network

HFM's headquarter office is based in Beijing, China. Our global service network is now covering North America, South America, Europe, Africa, Oceania and Asia through the cooperation with qualified and trustful partnership.

We are professional in:

- Plate heat exchanger new design/ redesign
- Application engineering solutions
- 24-7-365 customer inquiry answer
- Global maintenance service



HFM Plate Heat Exchanger

Plate Heat Exchanger HFM Quality Control

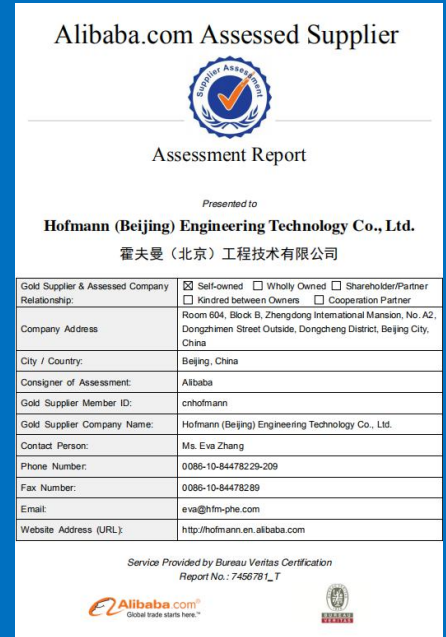


Raw Material Inspection during production.

Finished Product Inspection after production.



Second Inspection in HFM plant before shipment.



HFM Plate Heat Exchanger

HFM Plate Heat Exchanger - Application Expert and One-stop Service Provider!



At the E-commerce Time of Plate Heat Exchanger Technology and Global Supply Chain Growth.

With over 20 years experiences in plate heat exchanger design, manufacturing and services, HFM high quality, high performance products and services are on the job in demanding industrial and commercial installations around the world.

Contact us for a qualified discussion of your needs!



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HFM - Plate Heat Exchanger Expert



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