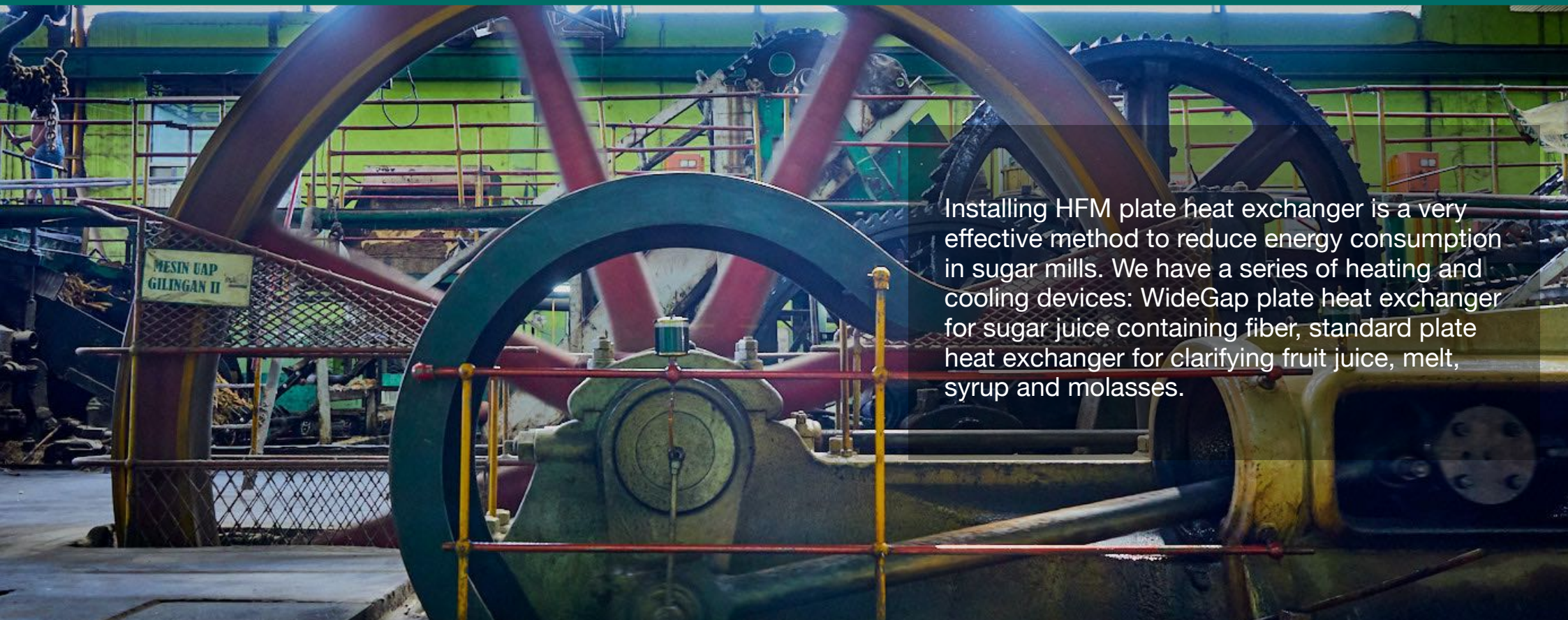


Sugar Industry

Plate heat exchanger application

For many years, Hoffman has been committed to customizing plate heat exchanger. Recycling and reusing expensive energy, whether purchased or produced during process operation, will have a great impact on your results. In the next few years, attention to energy conservation will be improved. This is why the sugar industry gradually turns to plate heat exchanger. Investment can bring huge benefits in increasing heat recovery.



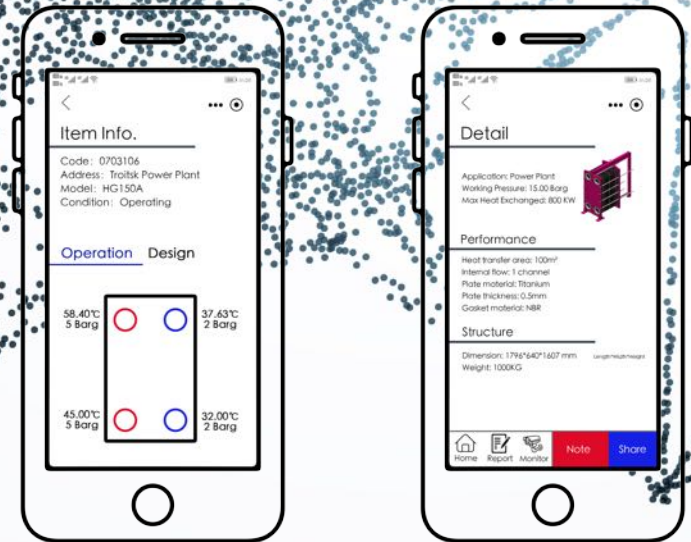


Installing HFM plate heat exchanger is a very effective method to reduce energy consumption in sugar mills. We have a series of heating and cooling devices: WideGap plate heat exchanger for sugar juice containing fiber, standard plate heat exchanger for clarifying fruit juice, melt, syrup and molasses.



In the process of sugar industry, flexibility is crucial especially during seasonal production cycles. Gasket plate heat exchanger is easy to disassemble, clean and transport. Under the food processing environment, there are only two main spares you get to care about for changing, plates and gaskets, if the unit has been taken care of within operation, it may takes 5~10 years for changing plates and 1~3 years for replacing gaskets, which makes it more reliable and timesaving compare to the other solutions, which will increase your uptime. But do not forget to clean them one or twice a year.

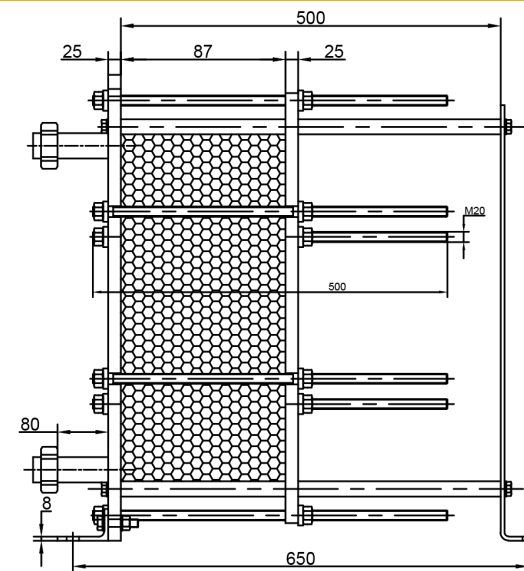
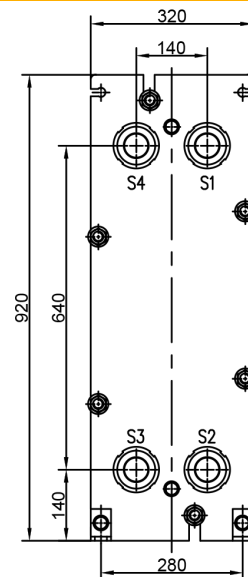
HX BOX



Hofmann has now developed a whole new IOT system aims to integrate single heat exchanger unit with global thermal statistic analysis algorithm, which could help our customers detect thermal exchanger inefficiency and acquiring diagnosis before it's too late. Have you encounter repeated modifying the inlet temperature every time you change the material, or complicated power and data cable you could never fix by yourself, or absence of monitoring? HX Box is carrying high-precision sensors, with independent power supply and network which could adapt harsh environment, you could remotely access the real time data through the APP.



	14% Sugar side/ Hot	20% Eth.glycol side / Cold
Actual volume flow m ³ /h	2000	27930
Design pressure MPa	1.0	1.0
Temperature inlet/ outlet °C	90/ 20	5/ 10
Pipe diameter DN	2" SMS	
Visc inlet/ outlet cP	0.464/ 1.61	2.60/ 2.22



Hofmann has been working with sugar industrial customers on offering cost effective and high efficient heat exchange solution.

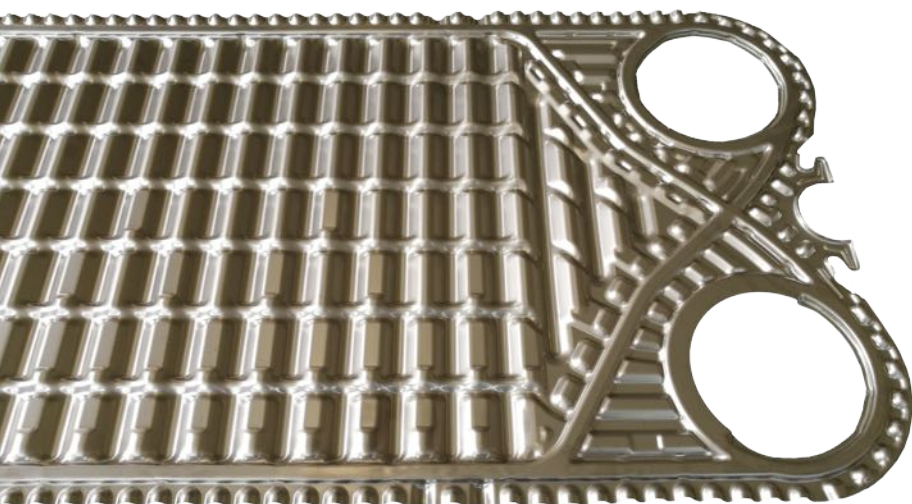
This is a sugar solution cooler, after the last step of vaporization, 90 °C sugar is injected into S1, chilled by huge flux of 5 °C 20% ethylene glycol, and drained out at 10 °C.

Any spares may contact the fluid meet the FDA specifications, such as AISI316 plates, specialized in food manufacturing EPDM gasket and carbon steel clad with AISI304 frame.



Our products for Sugar Industry

We know better on cooling solution



Given the viscosity of sugar is relatively high and the temperature is not too high, SS 316 is a good choice, EPDM is used for the rubber pad. The flow velocity of the low-pressure steam interface should be less than 50m/s. The logarithmic average is 42.5°C, which is greater than 10, the 8mm deep wide gap plates allow high velocity flow (up to 5mm diameter particles) going through without retention.



Gasket plate heat exchanger	
Max connection diameter/DN	350
Max. volume flow m ³ /h	1800
Max. Heat transfer surface/m ²	1380
Designed Pressure rate MPa	2.5
Temperature °C	-40-180
Plate material	304 SS, 316 SS, Titanium
Frame material	Carbon Steel, 304 SS, 316 SS

Gasket	Temperature/ °C	Media
EPDM Ethylene propylene diene monomer	-25-150	Water, aqueous solution, lean acid and base
NBR Nitrile rubber	-25-130	Water, aqueous solution, fat, vegetable oil and mineral oil, ethanol and glycol
FPM/Viton Fluoro rubber	-20-180	High concentration inorganic acid (oxidizing acid), hot water and steam, high temperature mineral oil
CR Chloroprene rubber	-40-125	Ammonia and various fluorine-containing refrigerants



Our **service** is better than you expected

HFM offers rich experience in Sugar Industry. 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.

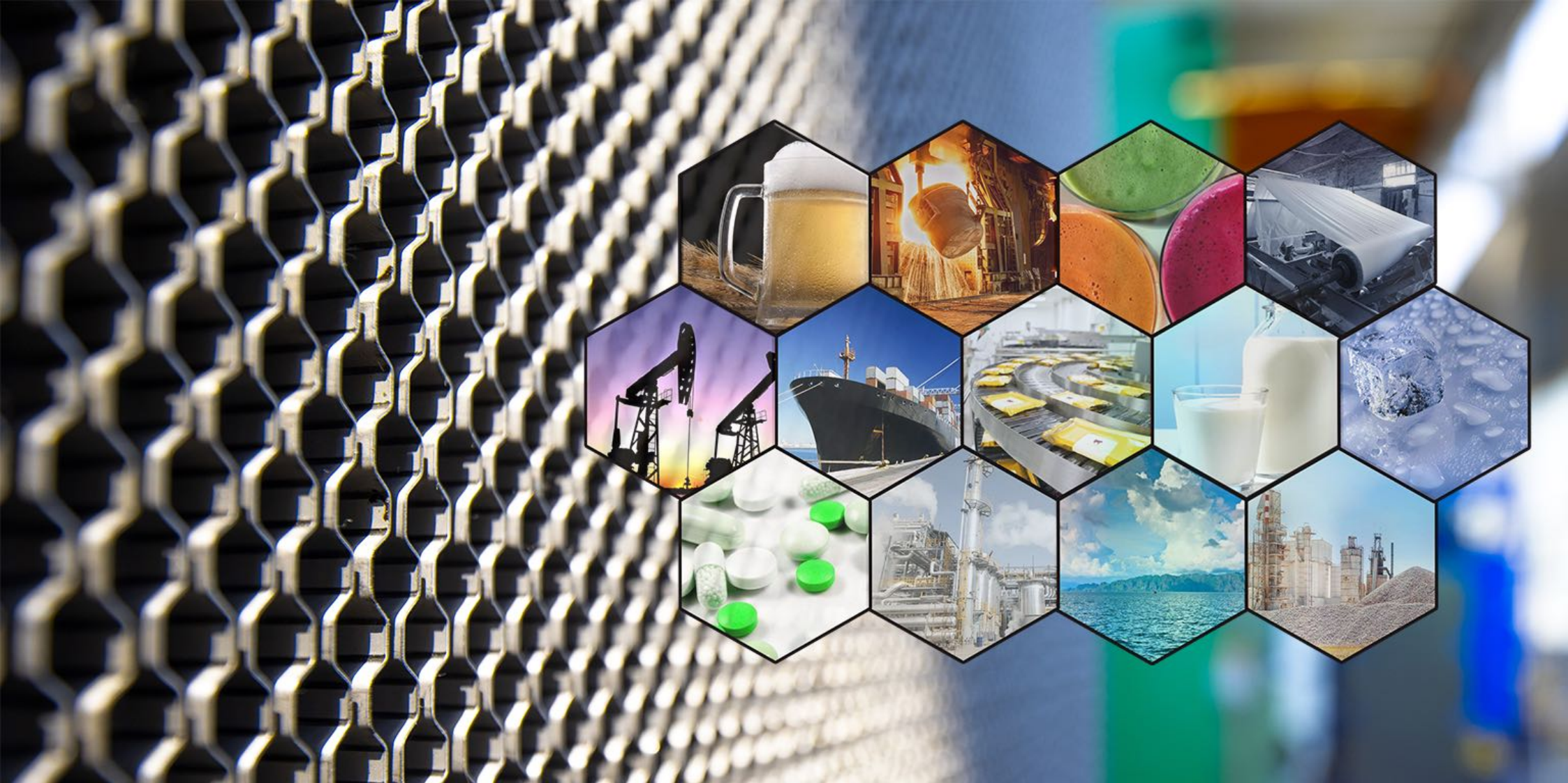
2, Spares replacement

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.

www.hofmann-heatexchanger.com



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