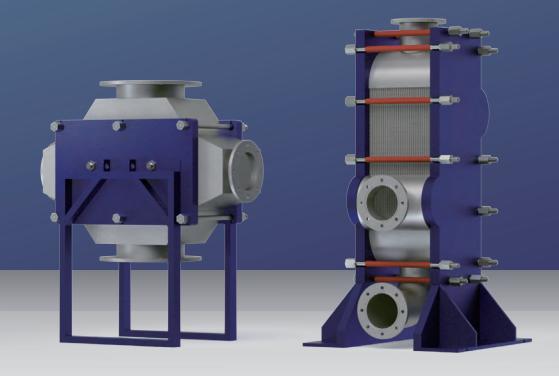
PLATE & BLOCK HEAT EXCHANGER



What is a Plate Block Heat Exchanger?

A Plate Block Heat Exchanger is a fully welded plate-type exchanger. It consists of corrugated metal plates welded together to form a compact block, with no gaskets, and enclosed in a pressure-retaining shell.

Advantage:

- No gaskets suitable for high temperature and pressure
- Handles corrosive media
- Compact with high thermal efficiency
- Low maintenance and leak risk
- Well-suited for phase-change duties

Available Material:

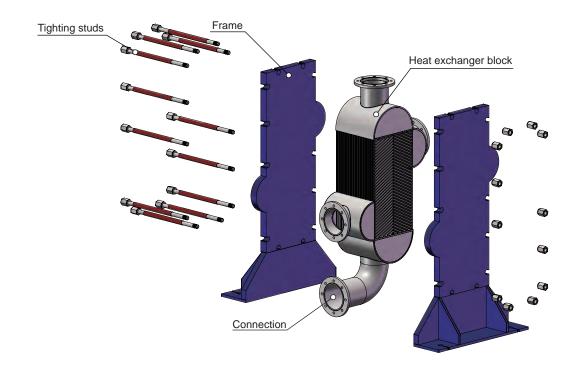
- -304 / 316L stainelss
- -SMO
- -C276/C22
- -TI

PBPHE vs Gasket PHE

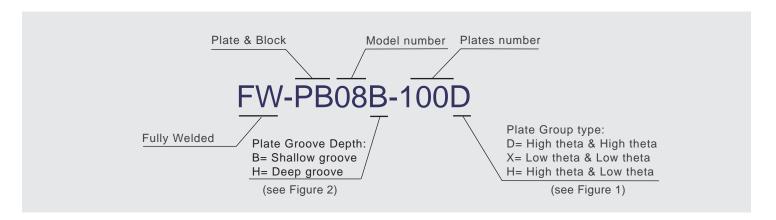
which plate heat exchanger is right for your application?

Feature	PBHEX	GPHE		
Plate group	Plates & Block	Gasketed Plate Pack		
Temperature	Max 400 C	Max 200 C		
Pressure	40 Bar	16 Bar		
Maintenance	Fully welded, no maintenance required	Periodic Gasket Replacement		
Leakage Risk	Very Low	Potential aging, Leakage risk		
Typical Fluids	CO2, NH3	OIL, WATER		
Cost	High	Low		

Consturction:



Model Code Explaination:



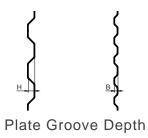


X : Low theta plate

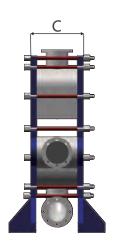
(Figure 1)

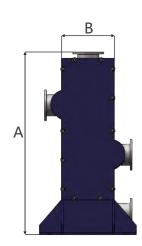
120

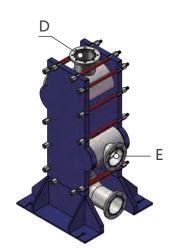
D: High theta plate



(Figure 2)







Specification Data

Model	A (mm)	B (mm)	Max C (mm)	Plate Area(m²)	Channel Depth (mm)	Max D Size	Max E Size
FW-PB08	910	262	960	0.08	4	DN150	DN80
FW-PB20	1425	367	1050	0.2	2/4	DN200	DN80
FW-PB33	1664	427	2750	0.33	4	DN250	DN125
FW-PB65	2186	511	2900	0.65	4	DN350	DN200
FW-PB96	2560	718	3100	0.96	4.5	DN500	DN300
FW-PB119	2860	718	3300	1.19	4.5	DN500	DN300
FW-PB140	3160	718	3500	1.4	4.5	DN500	DN300
FW-PB165	2950	1300	3200	1.65	4.5	DN600	DN300
FW-PB185	3250	1300	3500	1.85	5	DN600	DN300

Main industries



Pharmaceutical Industry

- Reactor cooling systems
- Modular heat exchanger application
- Process fluid heating and cooling
- •Sterile and hygienic processes



Petroleum Industry

- •Applications in refining units
- Catalytic/cracking unit processe
- •Hydrogenation unit processes
- Regenerator cooling systems
- •Crude oil preheating and material heating
- •Gas shift reaction processes
- •Acid water cooling processes
- •Natural gas preheating applications



Oil Refining Industry

- •Degumming and deacidification processes
- Deodorization processes
- •De-soaping processes
- •Oil heat exchange processes
- •Oil cooling processes



Coal Chemical Industry

- •Coal-to-Methanol Processes Steam system
- Dry quenching system applica tions
- Methanol distillation process
- •Ammonia synthesis processes
- Coal-to-Synthetic Ammonia
 Applications in MDBA and DHP systems
- •Ammonia recovery processes
- •Compound fertilizer production processes



Inorganic Chemical Industry

- •Hydrogen Peroxide Production Process
- Hydrogenation systems
- •Oxidation systems, Extraction and purification systems
- •Condensation and heat exchange systems
- •Waste heat recovery processes



Organic Chemical Industry

•Organic and food processing reactions, especially in nitration towers, stripping towers, saponification towers, evaporators, vacuum systems, and distillation towers.