



▶▶ Engineering technology for the future

Heat Exchanger Solution Partner Brazen Plate-Fin Heat Exchanger

Our company endeavor ceaselessly
to develop new products
and for quality improvement

- Compactness – space and weight savings
- High pressure capability of over 300bar
- Variable temperature service
& close temperature approachment
- Multiple process steam into a single unit



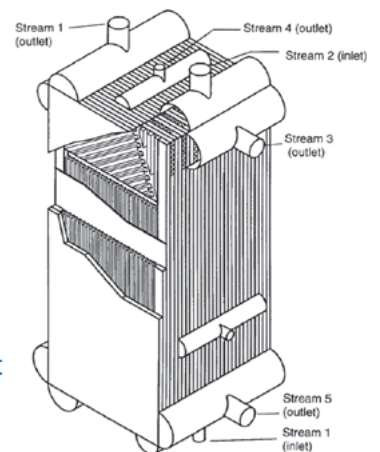
Brazed Plate-Fin Heat Exchanger (PFHE)

○ General Plate-fin Heat Exchanger overview

Plate-fin heat exchanger consists of corrugated fins, separated parting sheets, nozzles and manifolds. Its principal use has been in oil & gas process, cryogenics and in aerospace where high performance with low mass and volume are important. Plate-fin heat exchanger can treat multi-streams in only one unit.

Features are as below

- Compactness – space and weight savings
- High pressure capability of over 300bar
- Variable temperature service & close temperature approachment
- Multiple process steam into a single unit

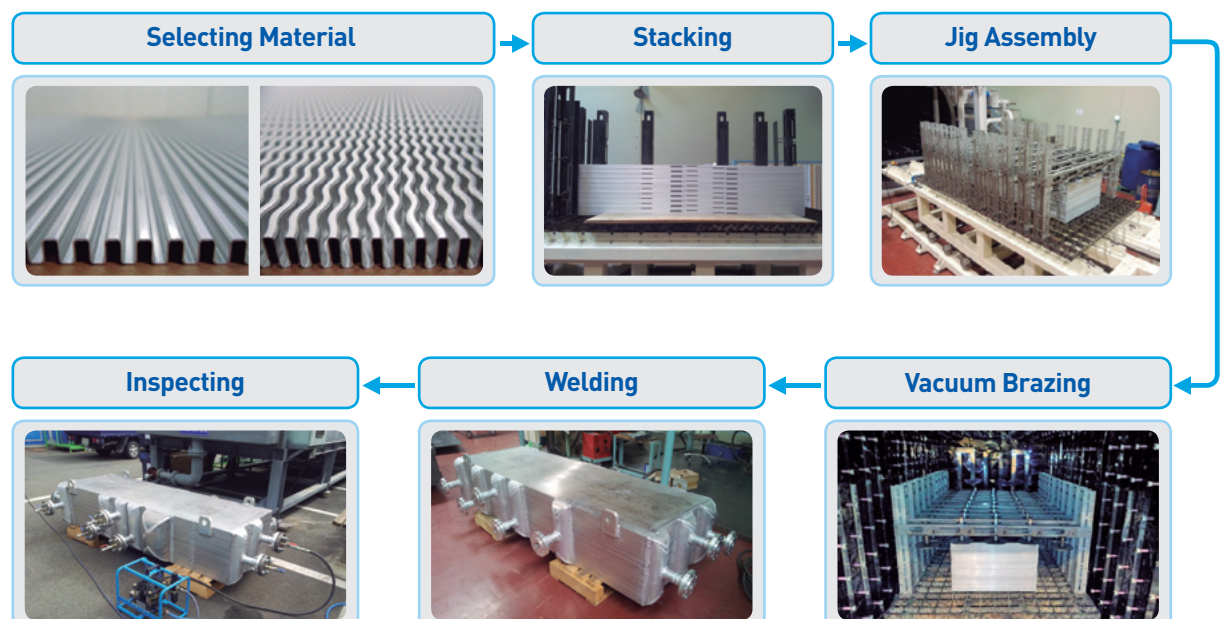


○ Manufacturing Procedure

Core part is built by stacking layers of corrugated fins, parting sheets and side bar. And then it is brazed under vacuum condition, nozzles and manifolds are welded on core part finally.

Donghwa Entec heat exchangers are manufactured according to quality standards, as well as KGS, ASME.

Standard Manufacturing Procedure is as below chart.

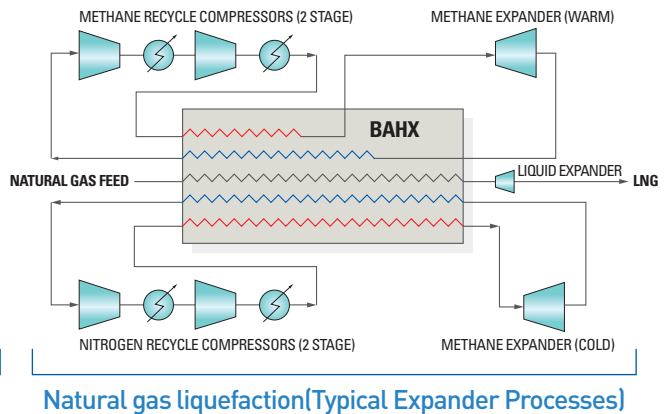
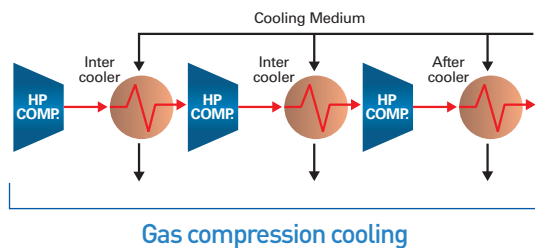




Our Applications

DongHwaEntec designs and manufactures compact Brazed Plate-Fin Heat Exchangers(PFHE) for use in gas and hydrocarbon process.

- Gas compression cooling
- Main cryogenic heat exchanger in natural gas liquefaction
- High pressure vaporizer in re-gasification for LNG RV/FSRU
- AIR separation unit
- Heat exchanger in aero space
- Heat exchanger on high temperature for fuel cell



Production Capability

Donghwa Entec has three Vacuum Brazing Furnaces for manufacturing of plate-fin heat exchanger as follows. Maximum product core size is W1,450 x H1,150 x L4,300mm

Specification	Low temp. Large Brazing furnace	Low temp. Brazing furnace	High temp. Brazing furnace
Donghwa Entec Vacuum Brazing Furnace			
Chamber size	Ø3,268 (outer dia.)	Ø1,200 (outer dia.)	Ø2,500 (outer dia.)
Work zone size	1.65 x 1.35 x 4.5 M	0.5 x 0.5 x 0.5 M	1.0 x 1.0 x 1.5M
Maximum temp.	800°C	800°C	1,300°C
Temperature Uniformity	±5°C	±5°C	±5°C
Vacuum degree	5 x 10 ⁻⁶ torr	5 x 10 ⁻⁶ torr	5 x 10 ⁻⁶ torr
Material	AL	AL	SUS, Inconel, Ti

www.dh.co.kr

We wish to communicate with our customers.
If you would like any further information about DongHwa Entec,
please visit our website (www.dh.co.kr).
DongHwa Entec cares for your concerns.



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