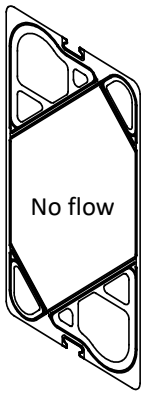
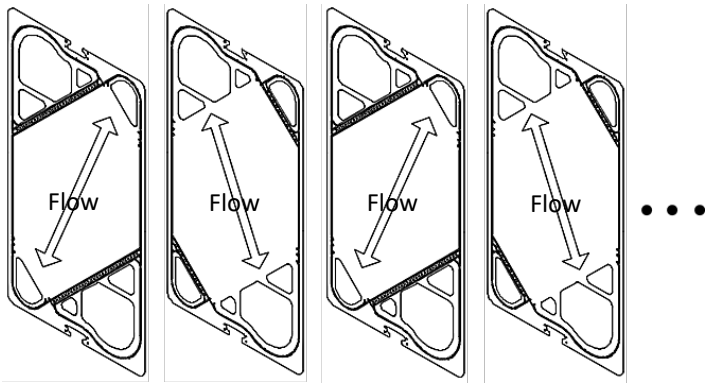
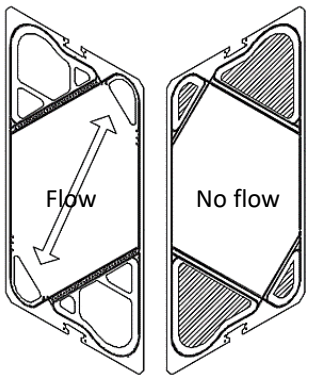
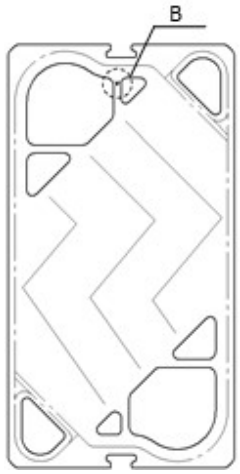
1. Plate Heat Exchanger (PHE) / Arrangement of heat transfer plate

PHE's plate pack consists of Heat transfer plate and Plate gasket.

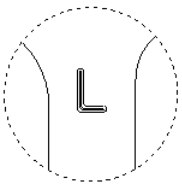
The first heat transfer plate between S-Frame, L-Frame, C-Frame and E-Frame is called "D-Plate". The end plate is called "E-Plate". Plates between D-Plate and E-Plate are called "Channel Plate". Plate arrangement shall follow the below illustration.

First plate	Channel plate	End plate
	 B-Plate A-Plate B-Plate A-Plate	 Front side Back side
Refer to section "D-Plate" for gasket installation.	Refer to section "Channel-Plate" for gasket installation.	Refer to section "E-Plate" for gasket installation.

- Gasket has each type, style, size and setting position depend on PHE models.
- For gasket installation, refer to the manual "12-3-2 Replacement of Plate Gasket".
- Refer to Mixed Gasket Materials Manual for Several Composition Materials.
- For checking the model of the device you are using, refer to the manual "7 Model Description ".
- The thickness of D-Plate and E-Plate is 0.8mm regardless of the thickness of Channel plate. If the thickness of the Channel plate is 0.6mm (the model is YX-836), please identify and be careful not to mix when disassembling.
- The plate thickness can be checked from the lot number stamped on the plate. Example) YX836 (thickness 0.6mm), YX838 (thickness 0.8mm)
- YX-83 plate cannot be used upside down. When hanging on the frame, please check the top and bottom of the plate by referring to the identification in the diagram below.

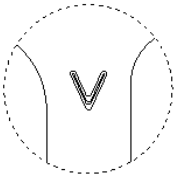


B-Plate (vapor side)



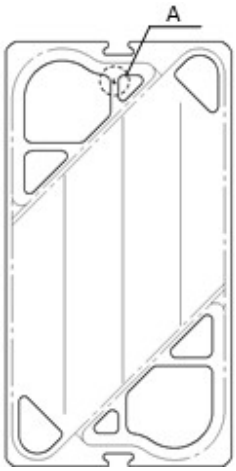
Detail of A

The A-Plate (liquid side) has the letter L on the top of the plate.



Detail of B

The B-Plate (vapor side) has the letter V on the top of the plate.



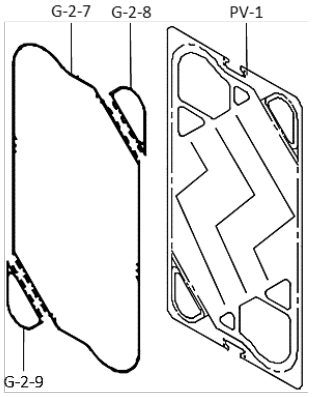
A-Plate (liquid side)

Note1) When purchase gaskets from our company, make sure the latest information because shape of gasket may change without prior notice.

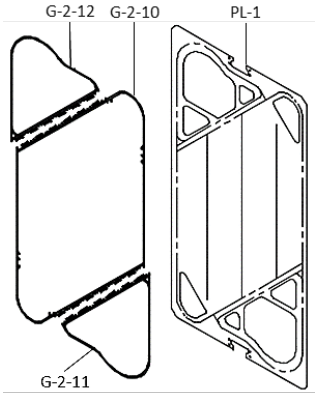
2. Type and name of heat transfer plate and gasket.

Channel-Plate

B-Plate with gasket (Vapor side)



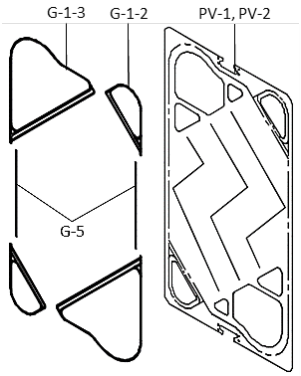
A-Plate with gasket (Liquid side)



PV-1	V PLATE (4-HOLES)	PL-1	L PLATE (4-HOLES)
G-2-7	V PLATE GASKET 1	G-2-10	L PLATE GASKET 3
G-2-8	V PLATE GASKET 2-1	G-2-11	L PLATE GASKET 4-1
G-2-9	V PLATE GASKET 2-2	G-2-12	L PLATE GASKET 4-2

D-Plate

4-Holes / Without holes



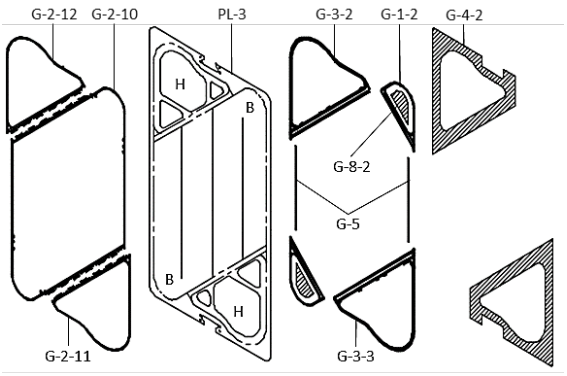
PV-1	V PLATE (4-HOLES)
PV-2	V PLATE (WITHOUT HOLES)
G-1-2	DA GASKET
G-1-3	DB GASKET
G-5	S DISTANCE Note3)

Note2) D-Plate is a B-Plate (Vaper side).

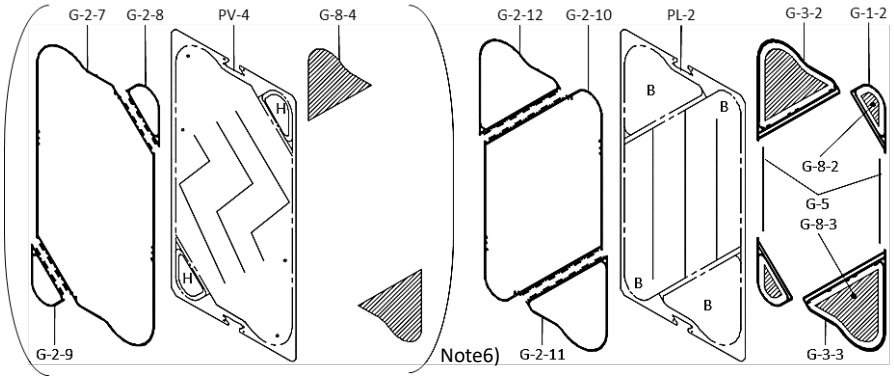
Note3) For dimensions of G-5, refer to "3. S Distance (G-5) Dimension Table".

E-Plate

For Pass



Without Holes



H:Hole B:Blind

PL-2	L PLATE (WITHOUT HOLES)	G-2-7	V PLATE GASKET 1
PL-3	L PLATE (FOR PASS)	G-2-8	V PLATE GASKET 2-1
PV-4	V PLATE (WITH SMALL HOLE FOR VACUUM)	G-2-9	V PLATE GASKET 2-2
G-1-2	DA GASKT	G-2-10	L PLATE GASKET 3
G-3-2	EB1 GASKET	G-2-11	L PLATE GASKET 4-1
G-3-3	EB2 GASKET	G-2-12	L PLATE GASKET 4-2
G-4-2	E NOZZLE GASKET (V)	G-8-2	B DISTANCE
G-5	S DISTANCE Note7)	G-8-3	
		G-8-4	

Note4) E-Plate is a A-Plate (Liquid side).

Note5) E-plate is For Pass or Without Holes plate.

Note6) The bracket is the plate added before E-Plate when the vapor side flow path may be in a vacuum state.

Note7) For dimensions of G-5, refer to "3. S Distance (G-5) Dimension Table".

3. S Distance (G-5) Dimension Table

Model	D-Plate / E-Plate	Holes	Dimension [mm]	Number
YX-83	D-Plate	4-Holes / Without holes	510	2
	E-Plate	For Pass / Without holes	510	2

Note8) Cut according to the dimensions in the table, and attach according to the figure in "2. Type and name of heat transfer plate and gasket."

Note9) Notation is a representative dimension. Please install the small parts according to the actual product.

Note10) For other product information and inquiries, please refer to our website and "2 Operation and Maintenance Manual".
（HP：https://www.hisaka.co.jp/english/）