



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 and end plate in the table below shows the case of A-Plate.

First plate	Channel plates	End plate
<p>No flow</p>	<p>Trapezoidal flow</p> <p>Flow</p> <p>...</p>	<p>No flow</p>
<p>No flow</p>	<p>Diagonal flow</p> <p>Flow</p> <p>...</p> <p>B-Plate A-Plate B-Plate A-Plate</p>	<p>Flow</p> <p>No flow</p> <p>Front side Back side</p>
<p>Refer to section "D-Plate" for gasket installation.</p>	<p>Refer to section "Channel-Plate" for gasket installation.</p>	<p>Refer to section "E-Plate" for gasket installation.</p>

- 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".

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

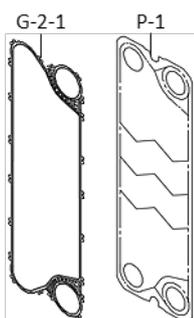
Note2) CXW is a heat transfer plate made by laser welding two heat transfer plates. The mounting method of the gasket is the same as other series.

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

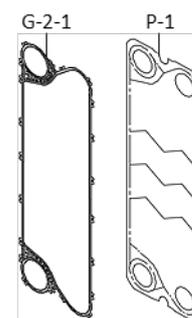
Channel-Plate (trapezoidal flow)

CX(W)-01, CX-10, 03, 21, 23

B-Plate with gasket



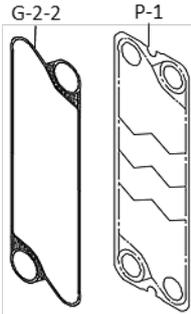
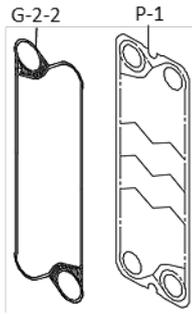
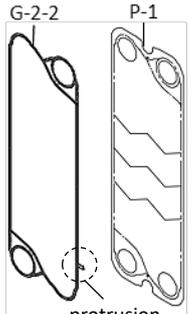
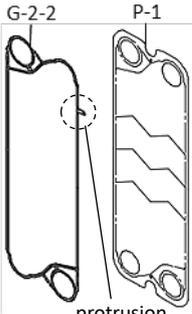
A-Plate with gasket



P-1 PLATE (4-HOLES)

G-2-1 PLATE GASKET

Channel-Plate (diagonal flow)

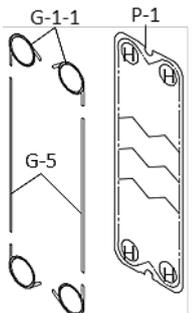
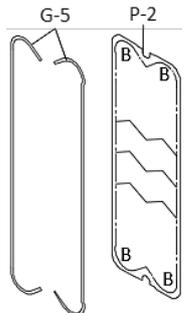
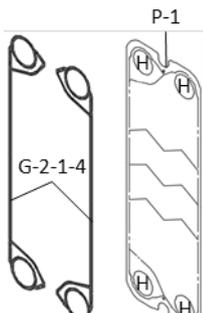
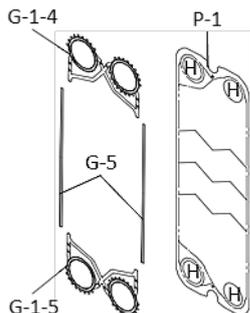
CX-10D		CX-01D	
B-Plate with gasket	A-Plate with gasket	B-Plate with gasket	A-Plate with gasket
 <p>G-2-2 P-1</p>	 <p>G-2-2 P-1</p>	 <p>G-2-2 P-1</p> <p>protrusion</p>	 <p>G-2-2 P-1</p> <p>protrusion</p>
P-1	PLATE (4-HOLES)	G-2-2	PLATE GASKET (DIAGONAL FLOW)

Note3) The diagonal flow gasket is used upside down. When attaching, check the marking position and pay attention to the reverse direction.

CX-10D: In the case of A plate, the marking shall be the top side.

CX-01D: In the case of A plate, the mark "A" on the protrusion shall be the top side.

D-Plate

CX-10,10D	
<u>4-Holes</u>	<u>Without holes</u>
 <p>G-1-1 P-1</p> <p>G-5</p>	 <p>G-5 P-2</p> <p>B</p> <p>B</p>
<u>4-Holes</u>	<u>4-Holes</u>
 <p>P-1</p> <p>G-2-1-4</p>	 <p>G-1-4 P-1</p> <p>G-5</p> <p>G-1-5</p>

H: Hole B: Blind

P-1	PLATE (4-HOLES)
P-2	PLATE (WITHOUT HOLES)
G-1-1	D GASKET
G-1-4	D-A GASKET
G-1-5	D-B GASKET
G-2-1-4	PLATE GASKET (CUTTING)
G-5	S DISTANCE Note)7

Note4) D-Plate in the table above shows the case of A-Plate.

Note5) The figure shows a typical installation. The actual shape may differ depending on the model.

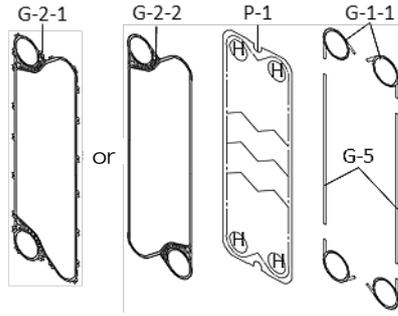
Note6) D-plate of CX (W) -01, CX-01D, 03, 21, 23 is a 4-Holes plate.

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

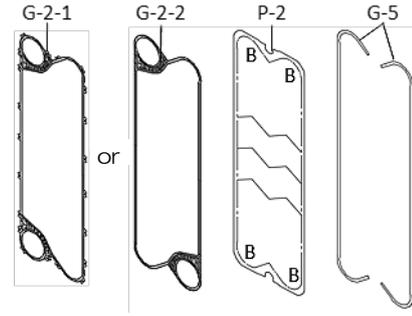
E-Plate

CX-10, CX-10D

4-Holes

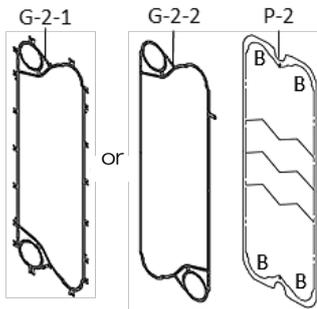


Without holes



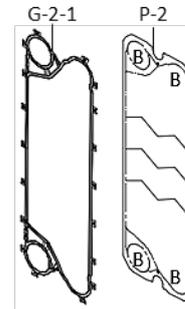
CX(W)-01, CX-01D

Without holes



CX-03, 21, 23

Without holes



H:Hole B:Blind

P-1	PLATE (4-HOLES)
P-2	PLATE (WITHOUT HOLES)
G-1-1	D GASKET
G-2-1	PLATE GASKET
G-2-2	PLATE GASKET (DIAGONAL FLOW)
G-5	S DISTANCE Note)10

Note8) E-Plate in the table above shows the case of A-Plate.

Note9) E-Plate of CX (W) -01, CX-01D, 03, 21, 23 is a Without holes plate.

Note10) 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
CX(W)-01(D)	N/A			
CX-10(D)	D-Plate / E-Plate	4-Holes	510	2
		Without holes	960	2
CX-03	D-Plate	4-Holes	430	2
		Without holes	N/A	
	E-Plate	N/A		
CX-21	D-Plate	4-Holes	470	2
		Without holes	N/A	
	E-Plate	N/A		
CX-23	D-Plate	4-Holes	370	2
		Without holes	N/A	
	E-Plate	N/A		

Note11) 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."

Note12) Notation is a representative dimension. Please install the small parts according to the actual product.

Note13) For other product information and inquiries, please refer to our website and "2 Operation and Maintenance Manual".

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