



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
No flow	Flow	Flow	Flow	Flow	Flow	No flow
					Trapezoidal flow	
					...	
No flow	Flow	Flow	Flow	Flow	Flow	No flow
					Diagonal flow	
					...	
	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.

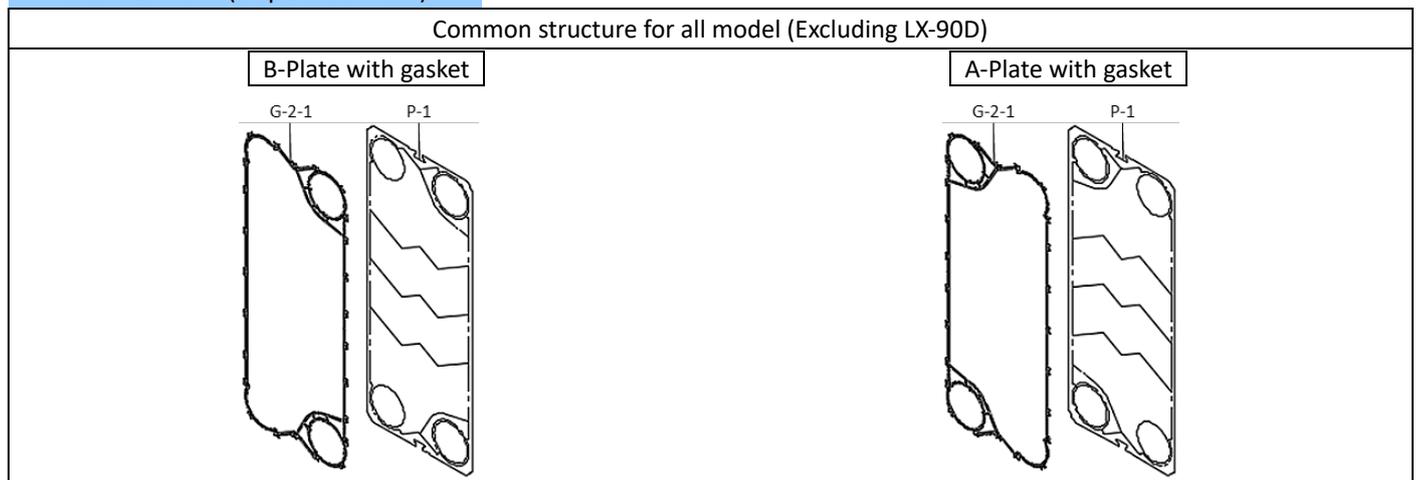
- Gasket has each type, style, size and setting position depend on PHE models.
- For gasket installation, refer to the manual "12-3-2 Replacement of Plate Gasket".
- Refer to Mixed Gasket Materials Manual for Several Composition Materials.
- For checking the model of the device you are using, refer to the manual "7 Model Description".

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 (trapezoidal flow)

Common structure for all model (Excluding LX-90D)



P-1 PLATE (4-HOLES)

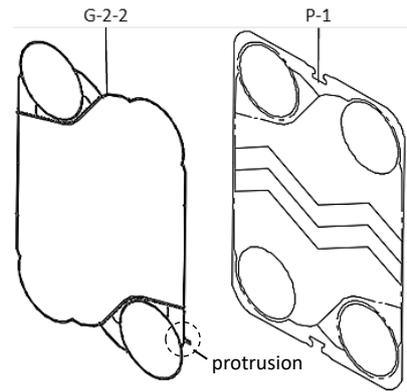
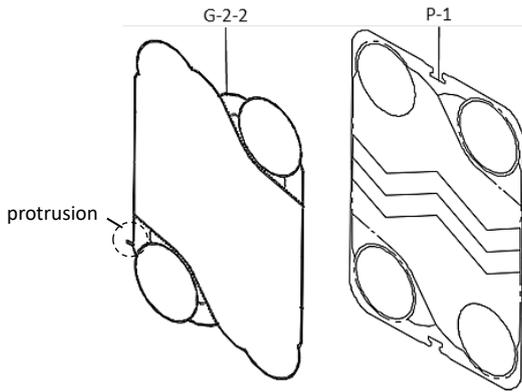
G-2-1 PLATE GASKET

Channel-Plate (diagonal flow)

LX-90D

B-Plate with gasket

A-Plate with gasket



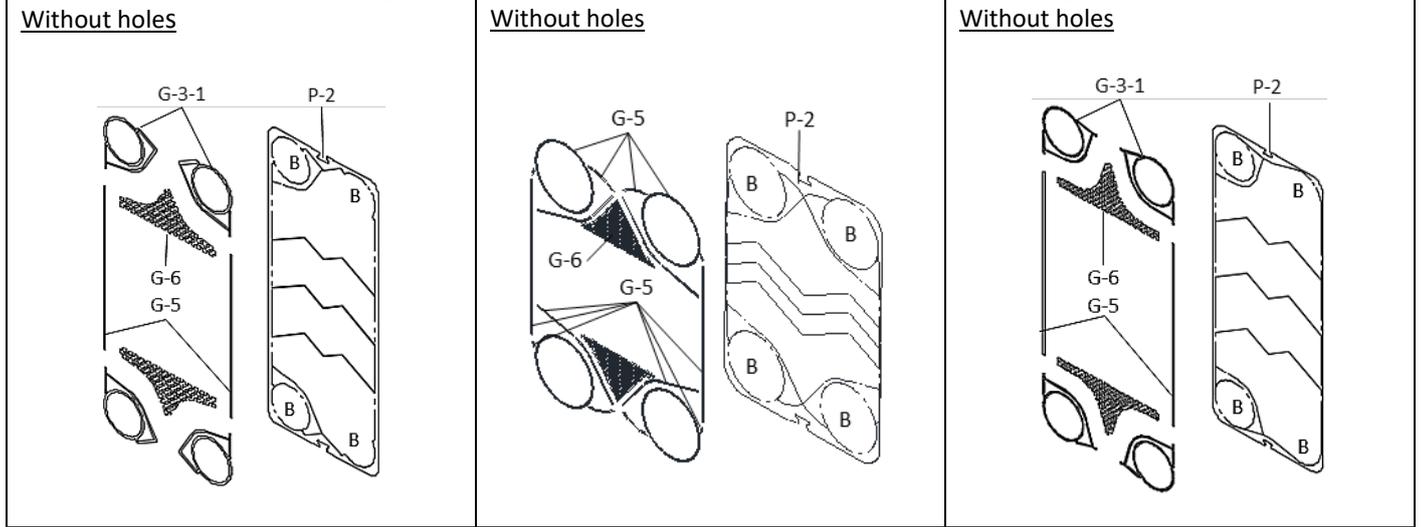
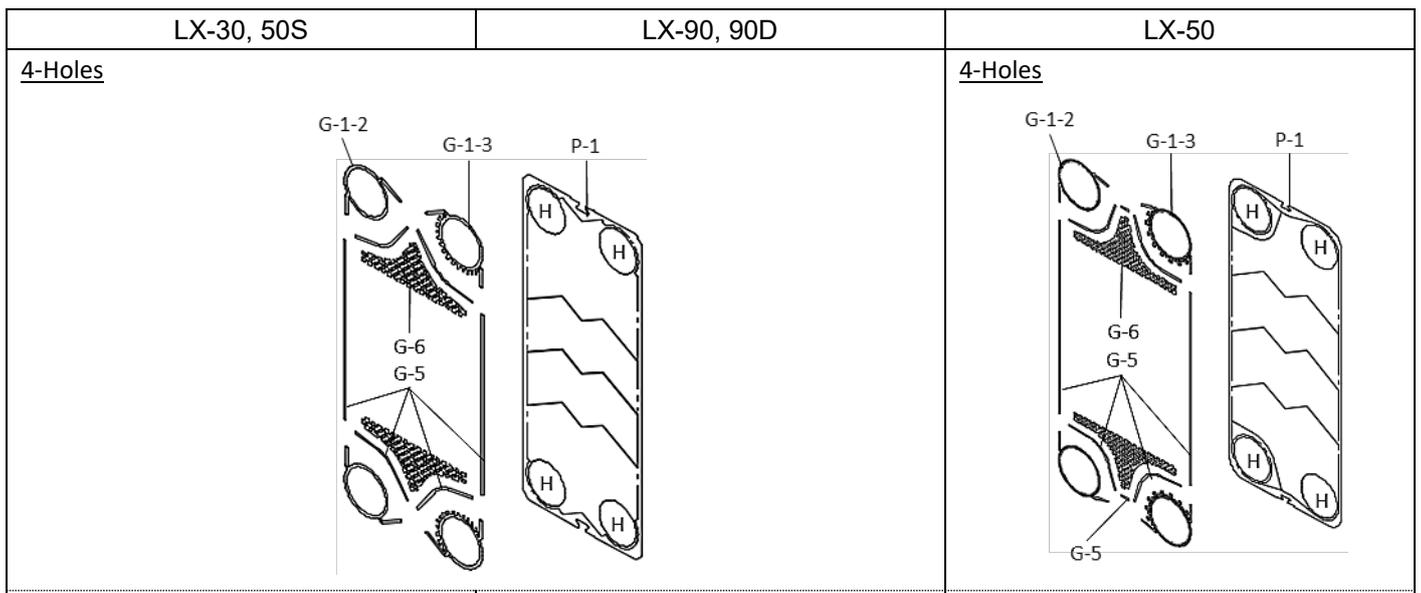
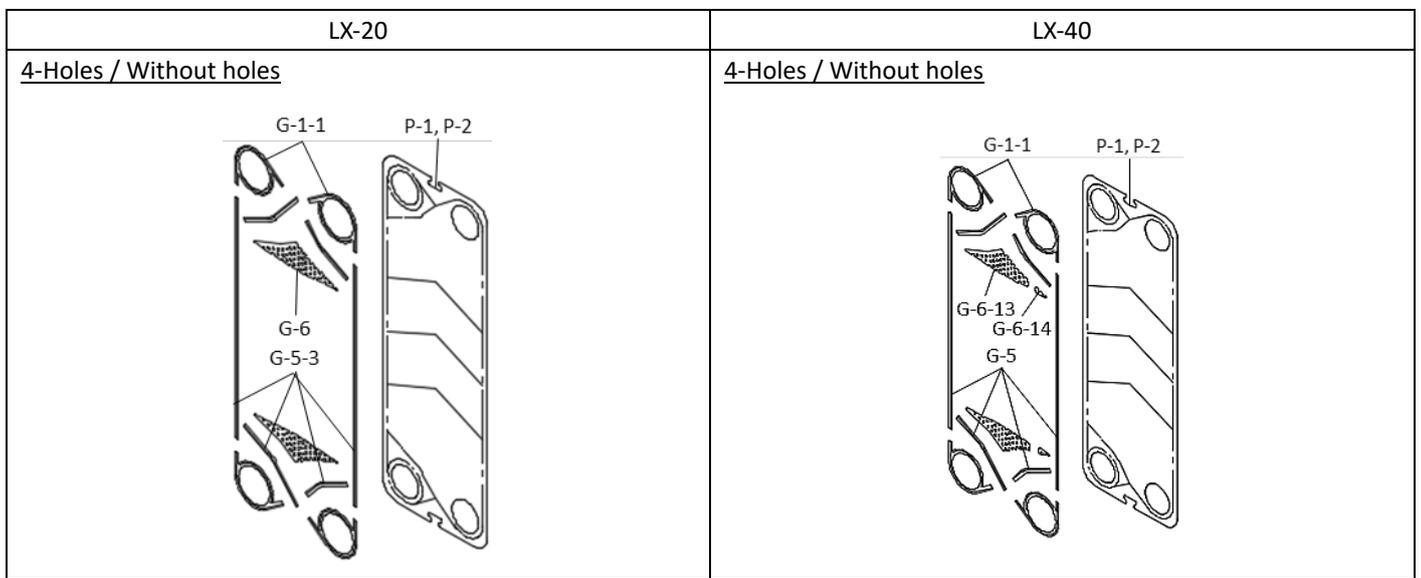
P-1 PLATE (4-HOLES)

G-2-2 PLATE GASKET (DIAGONAL FLOW)

Note2) The diagonal flow gasket is used upside down. When attaching, check the marking position and pay attention to the reverse direction. In the case of A plate, the mark "A" on the protrusion shall be the surface.

D-Plate

LX-00	LX-10		
	Gasket material: Rubber		Gasket material: TCG (PTFE cushion gasket)
	Nozzle connection material : Rubber	Nozzle connection material : Metal	
<u>4-Holes</u>	<u>4-Holes</u>	<u>4-Holes</u>	<u>4-Holes</u>
<u>Without holes</u>	<u>Without holes</u>		



H: Hole B: Blind

P-1	PLATE (4-HOLES)	G-3-1	E GASKET
P-2	PLATE (WITHOUT HOLES)	G-5	S DISTANCE Note4)
G-1-1	D GASKET	G-5-3	
G-1-2	DA GASKET	G-6	T DISTANCE
G-1-3	DB GASKET	G-6-13	
G-1-4	D-A GASKET	G-6-14	
G-1-5	D-B GASKET		

Note3) D-Plate in the table above shows the case of A-Plate.

Note4) For dimensions of G-5, refer to "3. S Distance (G-5) Dimension Table".

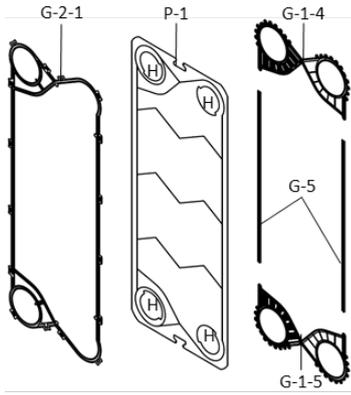
LX-10

LX-00

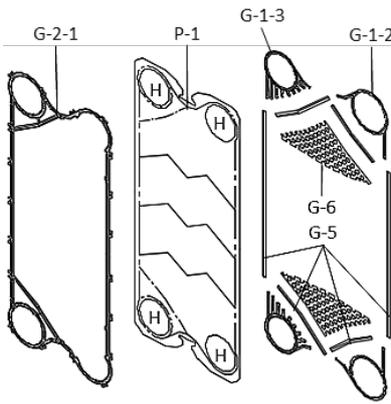
Gasket material: Rubber

Gasket material: TCG
(PTFE cushion gasket)

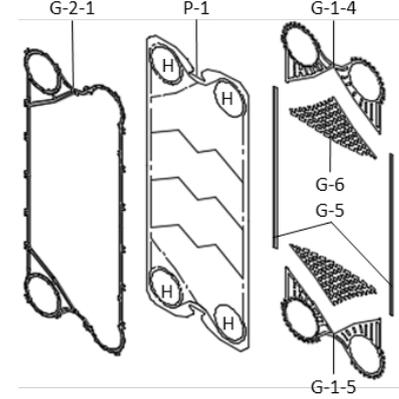
4-Holes



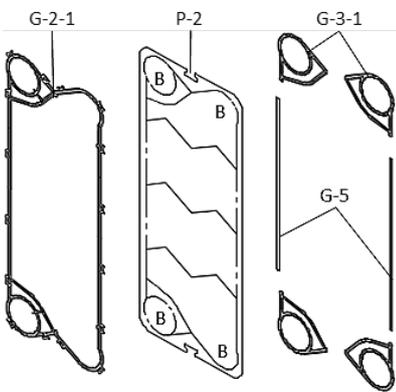
4-Holes



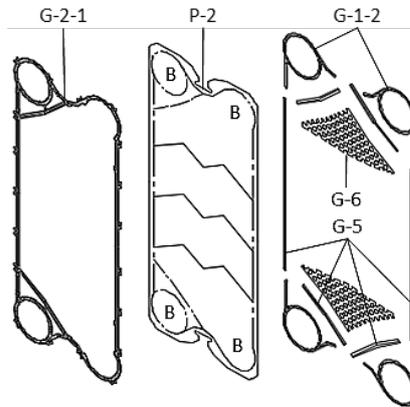
4-Holes



Without holes



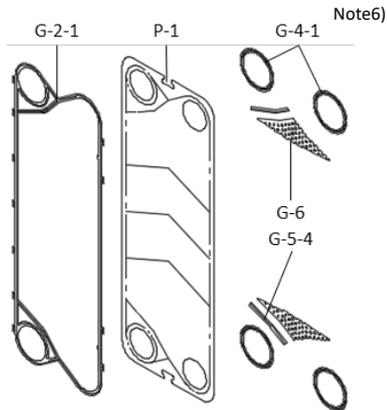
Without holes



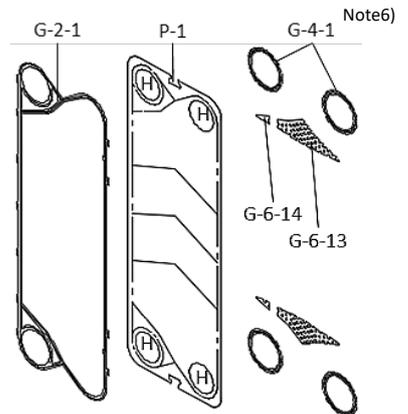
LX-20

LX-40

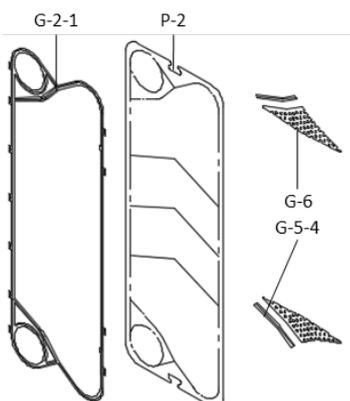
4-Holes



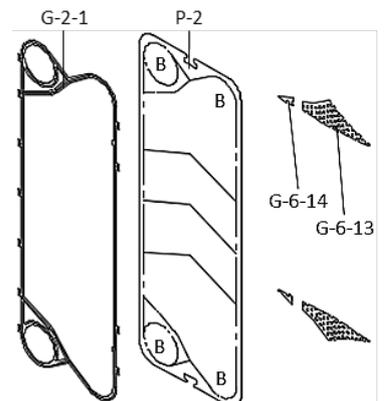
4-Holes

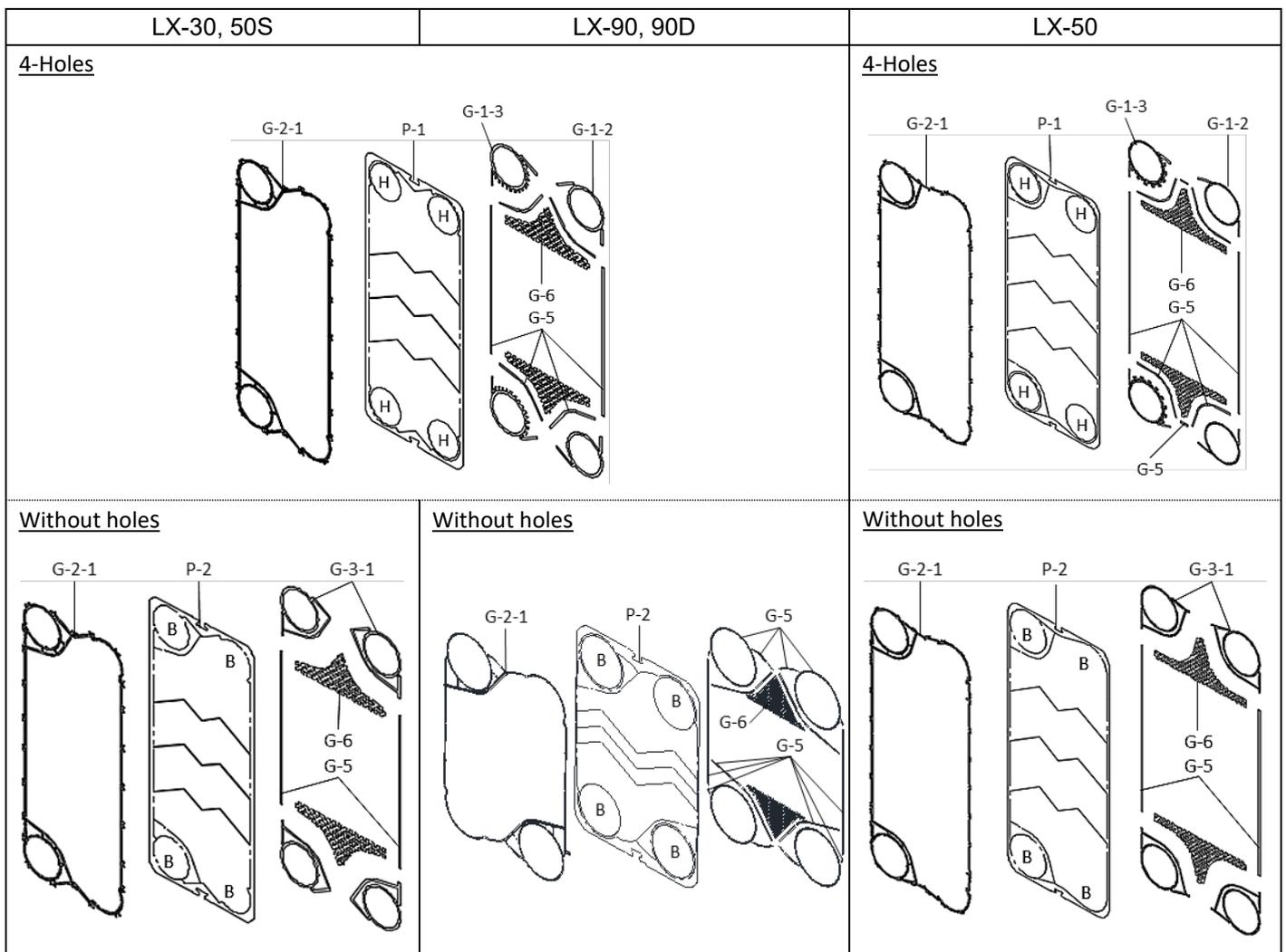


Without holes



Without holes





H:Hole B:Blind

P-1	PLATE (4-HOLES)
P-2	PLATE (WITHOUT HOLES)
G-1-2	DA GASKET
G-1-3	DB GASKET
G-1-4	D-A GASKET
G-1-5	D-B GASKET
G-2-1	PLATE GASKET
G-3-1	E GASKET
G-4-1	E NOZZLE GASKET
G-5	S DISTANCE Note7)
G-5-4	
G-6	T DISTANCE
G-6-13	
G-6-14	

Note5) E-Plate in the table above shows the case of A-Plate.

Note6) E-Nozzle gasket is no required when nozzle connection material is rubber covering.

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	
LX-00	D-Plate / E-Plate	4-Holes / Without holes	400	2	
LX-10	Gasket : Rubber	D-Plate (Nozzle : Rubber)	4-Holes	640	2
				210	4
				120	2
		Without holes	470	2	
			210	4	
	D-Plate (Nozzle : Meta)	4-Holes / Without holes	470	2	
			210	4	
	E-Plate	4-Holes / Without holes	470	2	
			210	4	
	Gasket : TCG	D-Plate / E-Plate	4-Holes	470	2
Without holes			470	2	
			210	4	
LX-20	D-Plate	4-Holes / Without holes	910	2	
			270	4	
	E-Plate	4-Holes / Without holes	250	2	
LX-30	D-Plate / E-Plate	4-Holes	770	2	
			300	4	
		Without holes	770	2	
LX-40	D-Plate	4-Holes / Without holes	1180	2	
			390	4	
	E-Plate	N/A			
LX-50	D-Plate / E-Plate	4-Holes	1060	2	
			420	4	
			50	2	
		Without holes	1060	2	
LX-50S	D-Plate / E-Plate	4-Holes	450	2	
			420	4	
		Without holes	450	2	
LX-90(D)	D-Plate / E-Plate	4-Holes	800	2	
			740	4	
			1060	2	
		Without holes	740	4	
			1370	4	
			210	4	
			40	4	

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/>)