

Assembly instruction for gasketed plate heat exchanger kits

Applies for T2, M3, TL3 and T5 units



Note: The gaskted plate heat exchanger kits from Alfa Laval are divided into plate-kits and frame kits. Each plate kit contains 50 plates-and gaskets. Each frame kit contains one complete set of frame components.

This instruction is based on assembly process of a standard M3 unit with threaded pipe connection.











TL3

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Step 1 - Put on name plate and Alfa Laval logotype sticker







1.1 Place the sticker onto the frame plate according to the location sketch

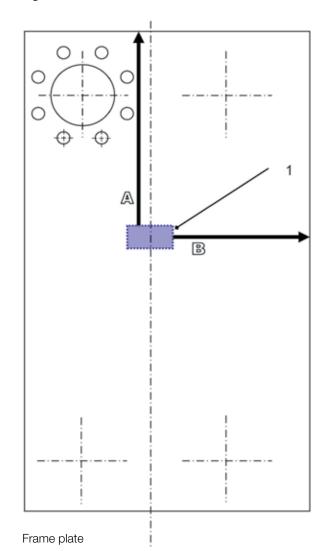


1.2 Mark the name plate position according to the location sketch

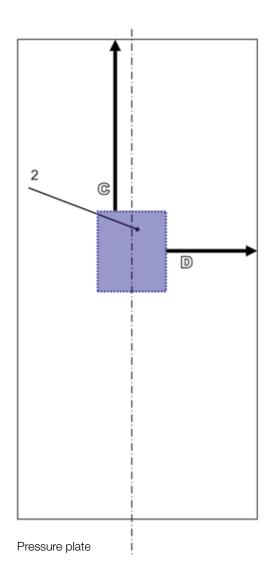




1.3 Drill four holes on the pressure plate to fit the holes in name plate and then put the name plate into position







1. Alfa Laval logotype sticker

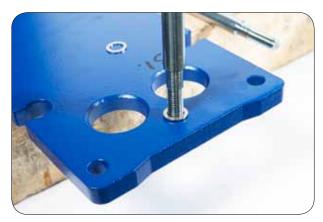
2. Name plate

Unit type	А	В	С	D
Т2	100 mm	22 mm	83 mm	25 mm
M3	170 mm	43 mm	134 mm	32 mm
TL3	250 mm	47 mm	285 mm	37 mm
Т5	220 mm	76 mm	220 mm	65 mm

Step 2 - Assembly carrying bar and guiding bar







2.1 Place the carrying bar into the hole on the top of the frame plate.

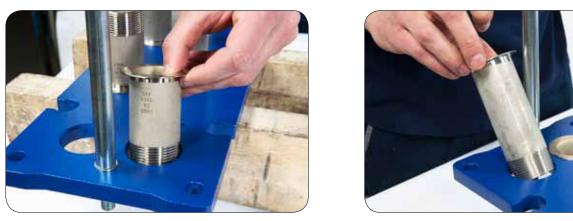




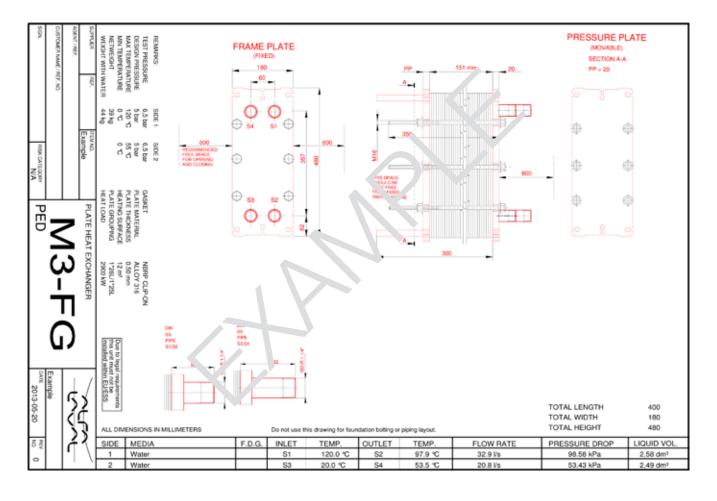
2.2 Assemble the carrying bar with help of nut and repeat the procedure to assemble the guiding bar.

Step 3 - Assemble connections





3.1 Assemble the connections with the threaded side facing out from the frame plate. Connection position according to the drawing of the heat exchanger.



Step 4 - Assemble gaskets





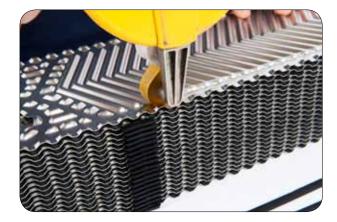
4.1 Assemble the gaskets onto the four-holed channel plates by using the fastening clips.



4.2 Repeat the above procedure to assemble the gasket onto the zero-holed end plate.



4.3 Repeat the above procedure to assemble the gasket onto the zero-holed end plate.



4.4. Apply glue in the gasket groove.



4.5 Cut two channel plate gaskets into half.





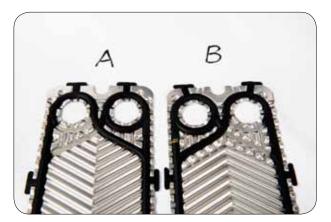
4.6 Cut off the clips from one of the half gaskets.

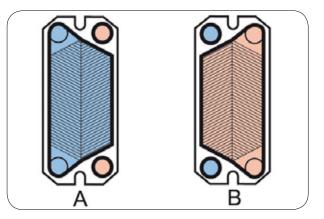


4.7 Combine the two half gaskets and assemble them onto the end plate.

Step 5 - Assemble plates

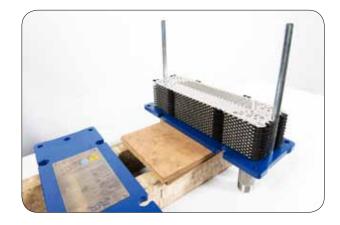




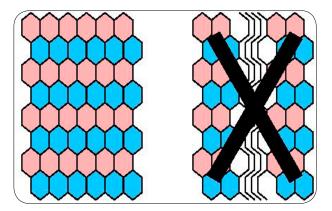


5.1 Assort the A-plates and B-plates according to the fishbone pattern.

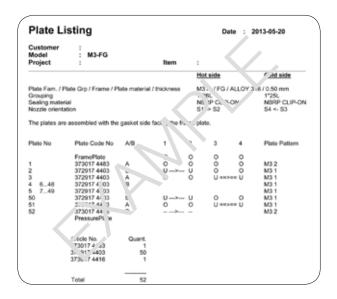




5.2 Assemble the plates according to the plate list of the heat exchanger.



5.3 Check that the plate pack forms a honeycomb pattern. If not, the plates are not properly inserted.



Step 6 - Assemble pressure plate





Step 7 - Assemble tightening bolts





7.1 Grease the tightening bolts and nuts.







7.2 Assemble the tightening bolts, washers and nuts.

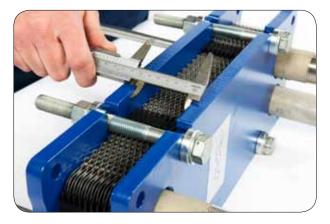




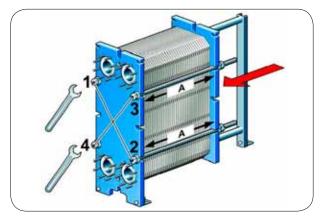




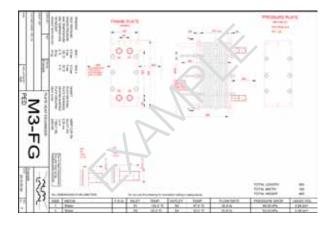
7.3 Tighten the plate heat exchanger to reach the A-measurement that is stated on the drawing of the heat exchanger.



7.5. Check the A-measure and the parallel between the frame and pressure plate.

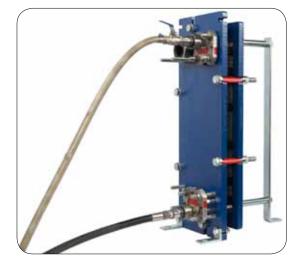


7.4 Tighten the bolt diagonally.



Step 8 - Pressure test

See separate testing instruction.



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