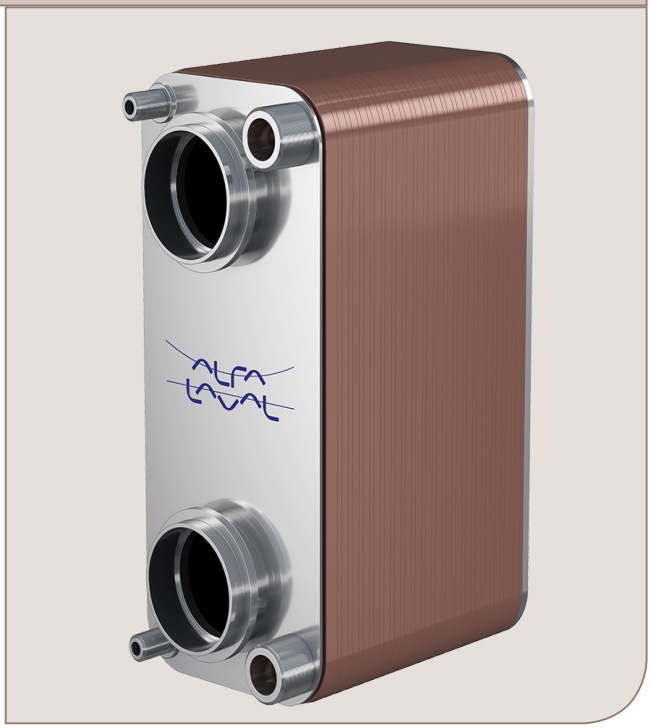
Alfa Laval GL50 / GLN50

Gas to liquid plate heat exchanger

GL50 is a high-efficiency compact brazed stainless steel heat exchanger designed to handle asymmetrical flows with exceptionally high performance.

GL50's patented plate design enables it to handle extremely high gas temperatures without thermal fatigue with sufficient cooling liquid. This makes GL50 superior as a high-temperature exhaust gas heat exchanger, as well as in all types of condensation applications.

The product´s compact size, versatility and excellent heat transfer makes it a perfect choice for a wide range of asymmetrical heat transfer applications. GL50 in single configuration is suitable for max. 250 kg/h gas.



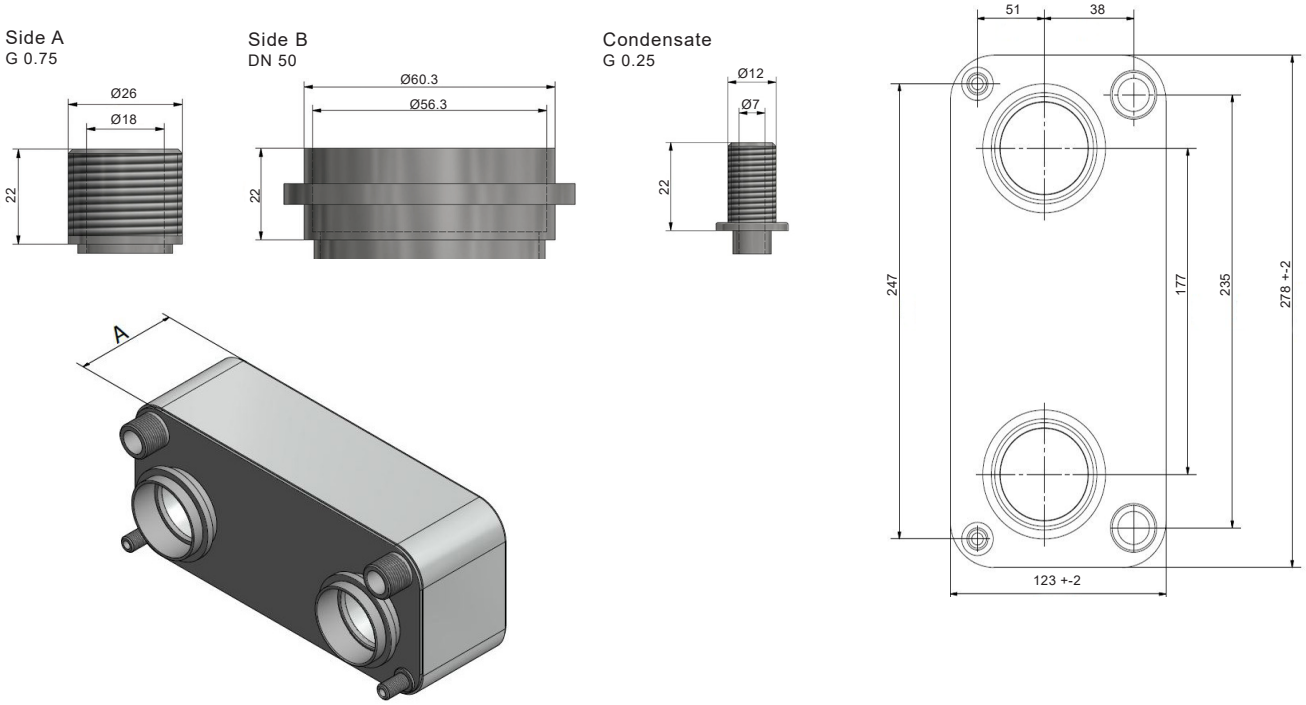
Technical Data

Side (A) "High density":	Water / Liquid / High pressure gas
Side (B) "Low density":	Gas / Steam
Plate material:	ASTM 316L / DIN 1.4404 / SS2348
Connections / Cover plates:	ASTM 304 / DIN 1.4301 / SS2333
Brazing material:	Copper (Cu) or Nickel (Ni)
Min. / Max. temperatures*:	-160°C / +190°C
Max. design pressure at	
-160/25/190°C:	Side A, Copper (Cu): 0/16/12 bar(a); 0/232/174 psi(a)
	Side A, Nickel (Ni): 0/9.2/7 bar(a); 0/133/102 psi(a)
	Side B: 0.5-1.5 bar(a) / 7-21 psi(a)
	For higher pressure see datasheet GLH50
Prim. heat transfer surface/plate:	≈ 3.9 dm^2
Manufacturing standard:	EN13445-3
PED Side A:	In conformance with 2014/68/EU
	Fluid Group: 1 & 2

* Max. design temperature refers to the temperature of the plate material. Gas inlet temperatures can exceed the max. design temperature; the actual acceptable gas inlet temperature will vary from case to case.

Standard Connections and Versions for GL50

For configuration options see the product description Configuration options for Alfa Laval GL.



Brazing material	Item name	Number of plates	Connection	Height (mm)		Weight empty ≈kg	Volume (l)	
				A	Tolerances		Side A	Side B
Cu	GL50-10AM-F	10	DN50-G0.75	43.5	±2.0	2.4	0.4	0.8
	GL50-20AM-F	20	DN50-G0.75	83.0	±2.0	3.4	0.9	1.5
	GL50-30AM-F	30	DN50-G0.75	122.5	±2.5	4.5	1.3	2.0
	GL50-40AM-F	40	DN50-G0.75	162.0	±3.0	5.5	1.8	3.0
	GL50-60AM-F	60	DN50-G0.75	241.0	±3.5	7.6	2.7	4.5
	GL50-80AM-F	80	DN50-G0.75	320.0	±4.0	9.7	3.6	6.0
Ni	GLN50-10AM-F	10	DN50-G0.75	43.5	±2.0	2.4	0.4	0.8
	GLN50-20AM-F	20	DN50-G0.75	83,0	±2.0	3.4	0.9	1.5
	GLN50-30AM-F	30	DN50-G0.75	122.5	±2.5	4.5	1.3	2.4
	GLN50-40AM-F	40	DN50-G0.75	162.0	±3.0	5.5	1.8	3.0
	GLN50-60AM-F	60	DN50-G0.75	241.0	±3.5	7.6	2.7	4.5
	GLN50-80AM-F	80	DN50-G0.75	320.0	±4.0	9.7	3.5	6.0

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