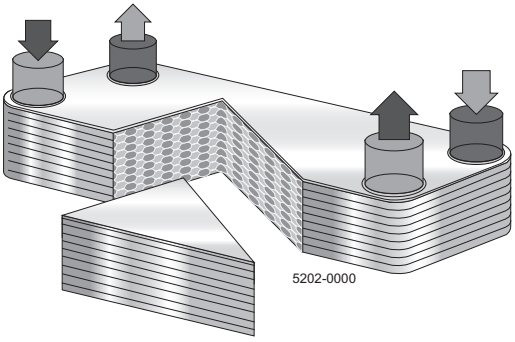
CBH16-CB300

CB14-300 - Brazed Plate Heat Exchanger

Working principles

The heating surface consists of thin corrugated metal plates stacked on top of each other. Channels are formed between the plates and corner ports are arranged so that the two media flow through alternate channels, always in counter-current flow. The media are kept in the unit by a brazed seal around the edge of the plates. The contact points of the plates are also brazed to withstand the pressure of the media handled



Flow principle of an AlfaNova plate heat exchanger

Standard materials

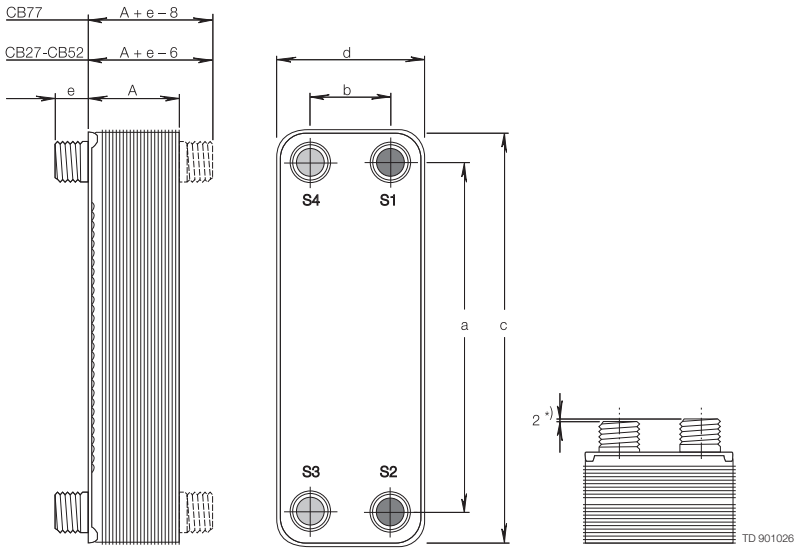
Cover plates
Stainless steel AISI 316

Connections
Stainless steel AISI 316

Plates
Stainless steel AISI 316

Brazing material
Copper

Technical data



Not valid for CB77

(n = number of plates)

	CB14	CB20	CB30	CB52/CB60	CB76	CB77	CB200	CB300
Max./min. working temperature [°C]**)	175/-160	225/-160	175/-160	175/-160	175/-160	175/-160	-160/175	-160/175
Max. working pressure S3-S4/S1-S2 [bar] **)	32	16	32	32	A,E,H: 32 L,M: 25	25/16	16	S1/S2: 16 S3/S4: 27 (CBR300: 33)
Volume/channel [litres]	0.02	0.028	0.05	0.095	A: 0.18/0.25 E: 0.18/0.18 C,M,H: 0.25/0.25	0.25	0.5	0.65
Max. flowrate S3S4/S1S2. [m^3/h] *)	3.6	7.3	8.1/12.7	8.1/12.7	39	39/63	102	S1/S2: 140 S3/S4: 60
Height c [mm]	208	208	310	526	618	618	740	990
Width d [mm]	78	78	112	112	191	191	323	365
Vertical connection distance, a [mm]	172	172	250	466	519	519	622	861
Horizontal connection distance, b [mm]	42	42	50	50	92	92	205	213.5
Weight empty [kg]	0.7 + n x 0.06	0.4 + n x 0.07	1.2 + n x 0.13	1.9 + n x 0.23	7.0 + n x 0.44	7.0 + n x 0.44	29 + n x 0.6	40 + n x 1.26
Plate material	Stainless steel AISI 316							
Connection material	Stainless steel AISI 316							
Bounding material	Copper							

*) = Water at 5 m/s (connection velocity)

**) = According to European pressure vessel Directive (PED) (CE-Approval)

n = number of plates

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