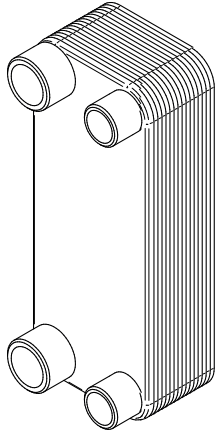




HCBP Plate Heat Exchanger

HENNLICH - Cooling - Technologies GmbH

Brazed plate heat exchanger HCBP with internal thread



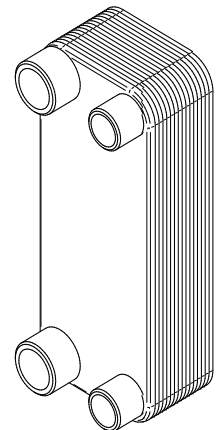
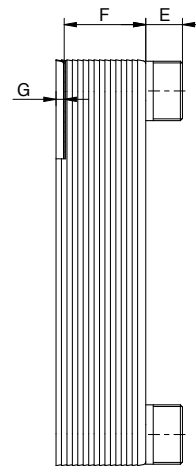
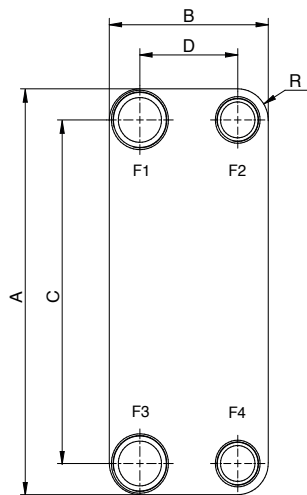
Our brazed plate heat exchangers are used in those applications, where heat transfer is exchanged between two fluids. The heat exchangers HCBP are designed to reach maximum efficiency, which leads to smaller dimensions. The standard plate material is AISI 316 (1.4401) and the plates are brazed with copper. Our plate heat exchangers HCBP can be used for all types of media, which are suitable for used materials.

This data sheet shows just some typical solutions/dimensions for oil cooling applications. Contact us for more information.

Temperature range	-195 °C to +225 °C
Standard working pressure	31 bar (static)

Description

The plate heat exchangers HCBP can be used for cooling of liquids or gases. Different designs are available - from very small units to exchangers with high cooling performance and high flow rates. Standard exchangers are copper brazed. A double wall design (such as safety exchangers) or nickel brazed exchangers for aggressive media are available. Our portfolio comprises different plate design and pressure levels.



The main BENEFITS

of our plate heat exchangers are:

- compact design
- high efficiency
- short delivery terms (standard types)

F1	warm side OUT	F4	cold side OUT
F3	warm side IN	F2	cold side IN

Type	A mm (+/-2)	B [mm] (+/-2)	C [mm] (+/-1)	D [mm] (+/-1)	E mm (+/-1)	F +/- 3%	Max. plate number	Weight	Standard connections ISO G HEX with internal thread
HCBP-B5T	193	76	154	40	20,1	4 + (2,24 x PN)	60	0,6 + (0,044 x PN)	2 x 3/4" – 2 x 1/2"
HCBP-B8T	317	76	278	40	20,2	4 + (2,24 x PN)	60	0,8 + (0,075 x PN)	2 x 3/4" – 2 x 1/2"
HCBP-B10T	289	119	243	72	20,1	4 + (2,24 x PN)	140	1,4 + (0,096 x PN)	2 x 1" – 2 x 3/4"
HCBP-B12	287	117	234	63	27,1	4,4 + (2,34 x PN)	140	1,7 + (0,116 x PN)	2 x 1 1/4" – 2 x 1"
HCBP-B15T	468	76	432	40	20,1	4 + (2,24 x PN)	60	1,4 + (0,104 x PN)	2 x 3/4" – 2 x 1/2"
HCBP-B16	376	119	320	63	27,1	4 + (2,24 x PN)	140	1,7 + (0,120 x PN)	2 x 1 1/4" – 2 x 1 1/4"
HCBP-B25T	526	119	479	72	20,1	4 + (2,24 x PN)	140	2,2 + (0,178 x PN)	2 x 1 1/4" – 2 x 1"
HCBP-B28	526	119	470	63	27,1	4 + (2,24 x PN)	140	2,3 + (0,164 x PN)	2 x 1 1/4" – 2 x 1 1/4"
HCBP-B35	393	243	324	174	27,1	8 + (2,34 x PN)	250	7,0 + (0,340 x PN)	2 x 1 1/2" – 2 x 1 1/4"
HCBP-B120T	525	243	456	174	27,1	10 + (2,29 x PN)	250	10,3 + (0,404 x PN)	2 x 1 1/2" – 2 x 1 1/4"
HCBP-B56	525	243	430	148	54,2	14 + (2,44 x PN)	280	16,3 + (0,419 x PN)	4 x 2 1/2"

Plate heat exchangers are also available with other equipment such as fastenings or insulation. Other types, dimensions, connections or materials upon request.

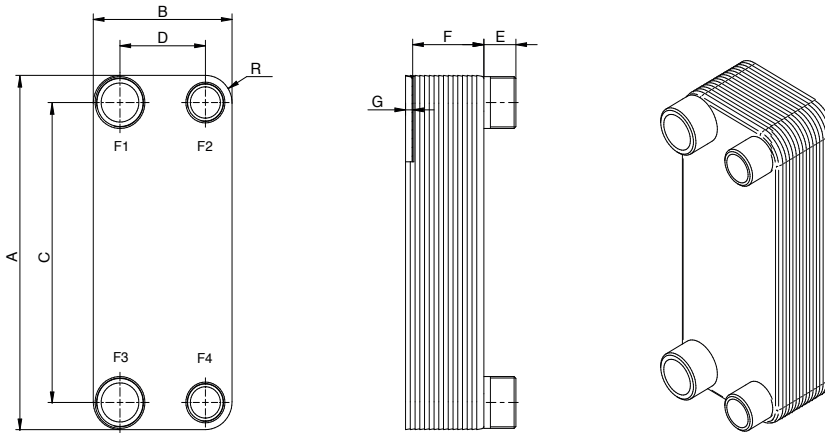
PN = plate number



HCBP Plate Heat Exchanger

HENNLICH - Cooling - Technologies GmbH

Brazed plate heat exchanger HCBP with external thread



The HCBP plate can also be delivered as a 2-way option with different connections (soldered thread) on the front and back side.

temperature range	-195 °C to +225 °C
standard working pressure	31 bar (static)

F1	hot side OUT	F4	cold side OUT
F3	hot side IN	F2	cold side IN

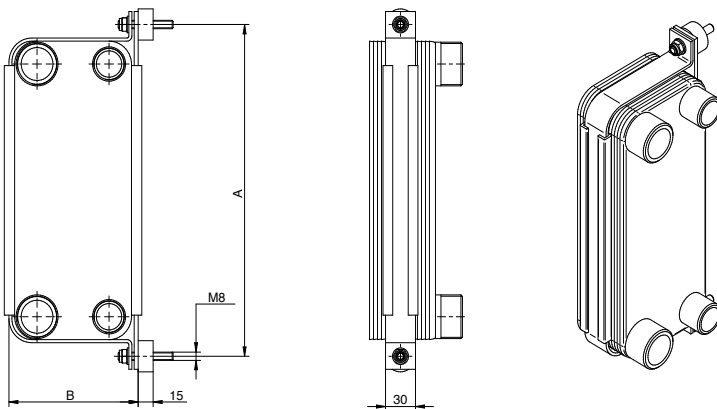
Type	A mm (+/-2)	B [mm] (+/-2)	C [mm] (+/-1)	D [mm] (+/-1)	E mm (+/-1)	F +/- 3%	Max. plate number	Weight	Standard connections ISO G external thread
HCBP-B5T	193	76	154	40	20,1	4 + (2,24 x PN)	60	0,6 + (0,044 x PN)	3/4"
HCBP-B8T	317	76	278	40	20,2	4 + (2,24 x PN)	60	0,8 + (0,075 x PN)	3/4"
HCBP-B10T	289	119	243	72	20,1	4 + (2,24 x PN)	140	1,4 + (0,096 x PN)	1" / 1 1/4"
HCBP-B12	287	117	234	63	27,1	4,4 + (2,34 x PN)	140	1,7 + (0,116 x PN)	1 1/4"
HCBP-B15T	468	76	432	40	20,1	4 + (2,24 x PN)	60	1,4 + (0,104 x PN)	1 1/4"
HCBP-B16	376	119	320	63	27,1	4 + (2,24 x PN)	140	1,7 + (0,120 x PN)	1 1/4"
HCBP-B25T	526	119	479	72	20,1	4 + (2,24 x PN)	140	2,2 + (0,178 x PN)	1" / 1 1/4"
HCBP-B28	526	119	470	63	27,1	4 + (2,24 x PN)	140	2,3 + (0,164 x PN)	1" / 1 1/4"
HCBP-B35	393	243	324	174	27,1	8 + (2,34 x PN)	250	7,0 + (0,340 x PN)	1 1/2"
HCBP-B120T	525	243	456	174	27,1	10 + (2,29 x PN)	250	10,3 + (0,404 x PN)	1 1/2"
HCBP-B56	525	243	430	148	54,2	14 + (2,44 x PN)	280	16,3 + (0,419 x PN)	2 1/2"

Plate heat exchangers are also available with other equipment such as fastening threads or insulation. Other types, dimensions, connections or materials upon request.

PN = plate number

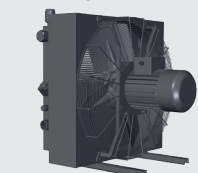
Fixing set HCBB

Fixing clamps HCBB are made of galvanized steel. A set consists of two parts (upper and lower clamp), inclusive rubber profile, rubber blocks and bolts. According to the heat exchanger size, a number of fixing-sets should be used. We recommend to use 2 sets and more for the size HCBP15 and bigger and for 60 plates and more.

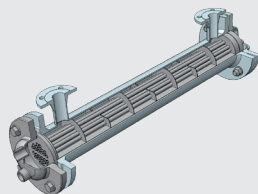


Type	A [mm]	B [mm]
HCBB-5	220	89
HCBB-8	343	89
HCBB-10 and 12	317	134
HCBB-15	495	89
HCBB-16	408	138
HCBB-25 and 28	553	134
HCBB-35	420	259
HCBB-56 and 120	553	259

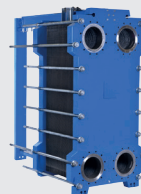
Other types:



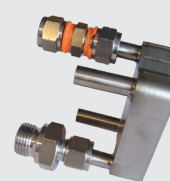
Air cooler HCA



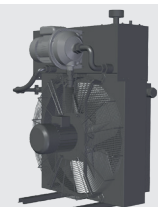
Tube heat exchanger HCT



Gasketed plate heat exchanger HCGP



Microchannel heat exchanger



Special cooling systems HCS



HCBP Plate Heat Exchanger

HENNLICH - Cooling - Technologies GmbH

Performance curves

For an easier selection of the right brazed plate heat exchanger, we show some performance curves.

Charts vary with types and plate numbers.

Calculation is based on following presumptions:

Oil: ISO VG32

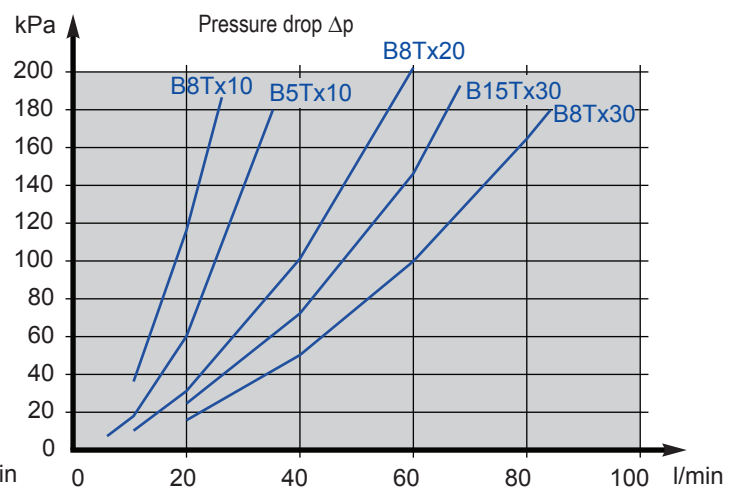
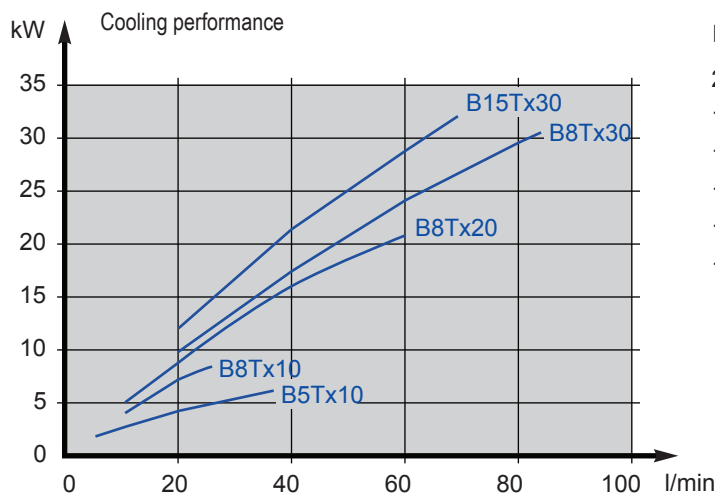
Mass flow rate oil/water: 2/1

Inlet temperature oil: 60 °C

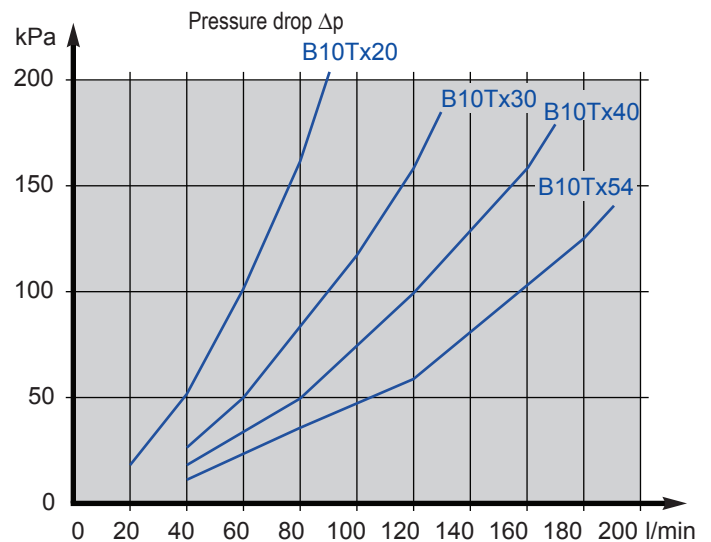
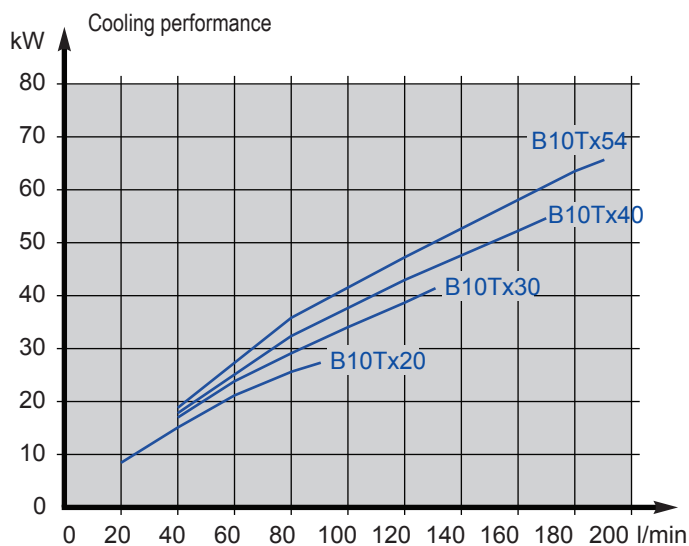
Inlet temperature water: 20 °C

For other thermodynamic parameters please contact us.

Types HCBP-B5T, HCBP-B8T, HCBP-B15T



Types HCBP-B10T

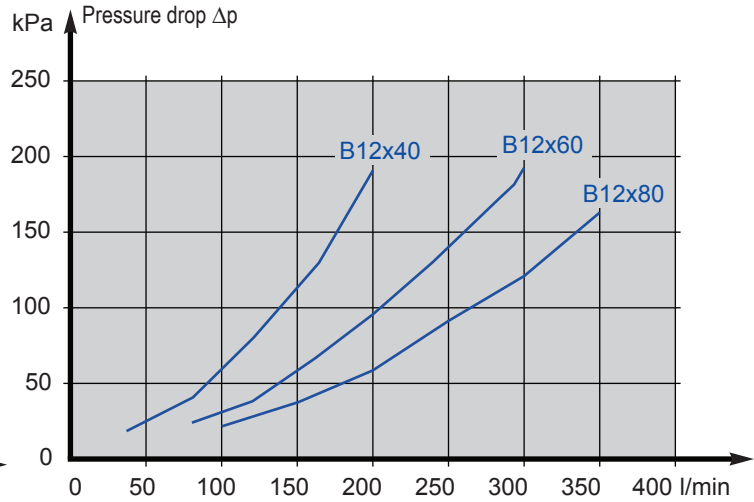
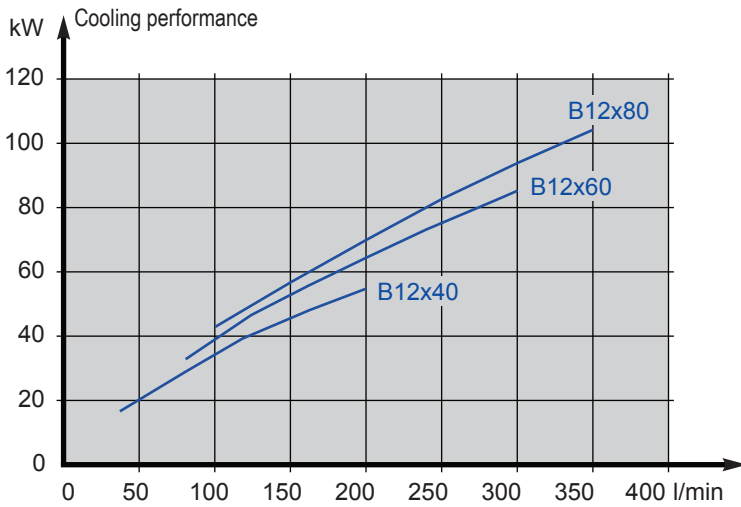




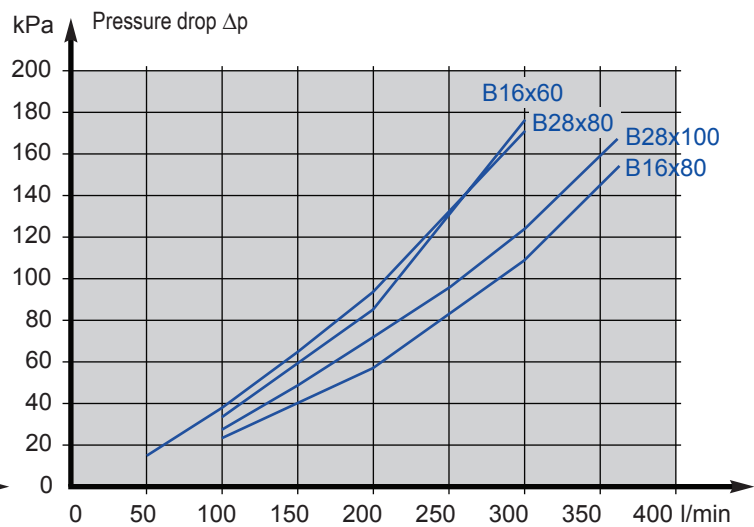
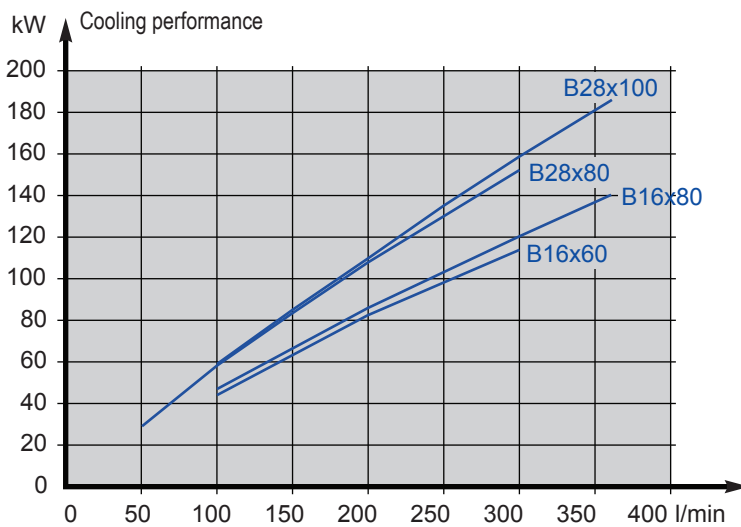
HCBP Plate Heat Exchanger

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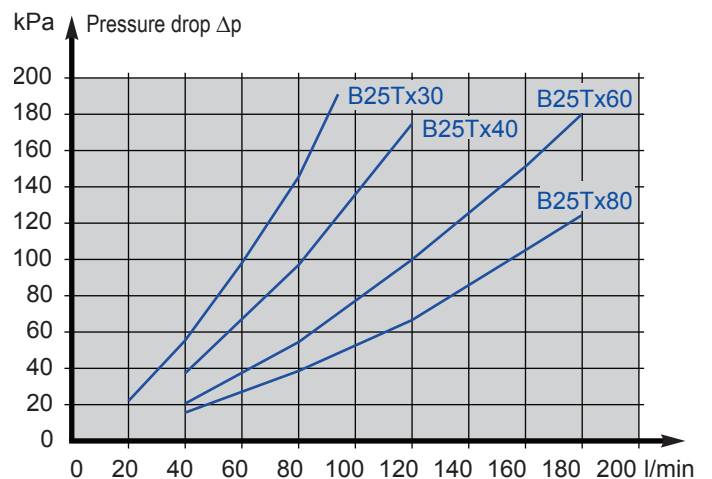
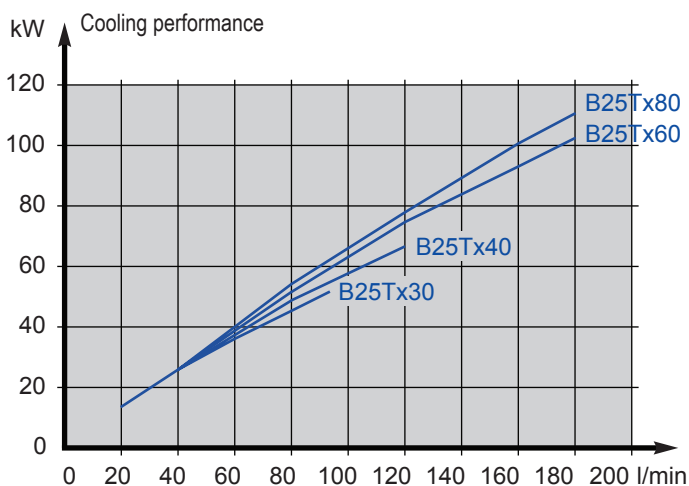
Type HCBP-B12



Types HCBP-B16, HCBP-B28



Type HCBP-B25T

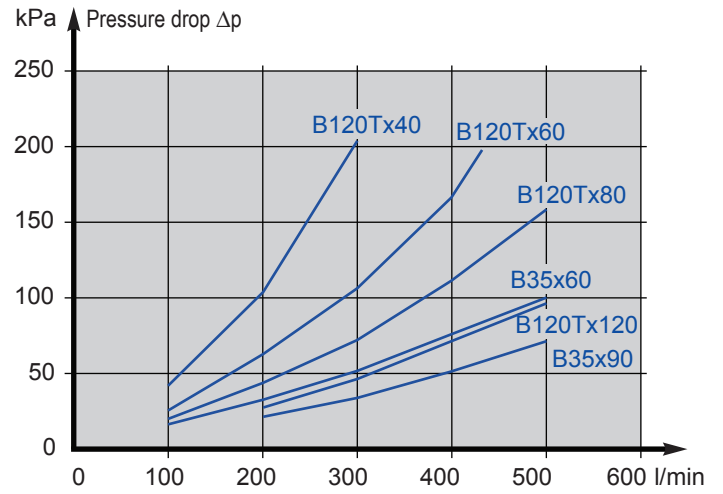
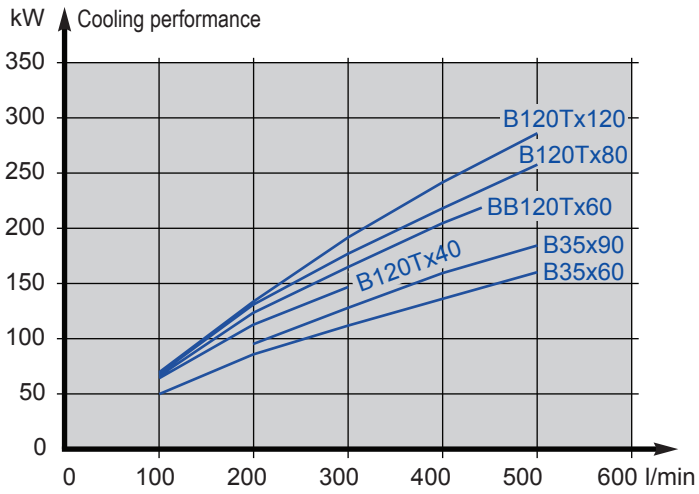




HCBP Plate Heat Exchanger

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Types HCBP-B35, HCBP-B120T



Type HCBP-B56

