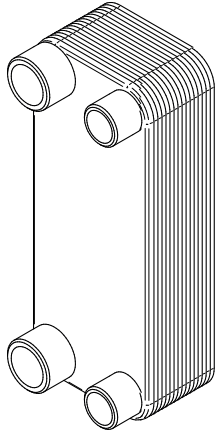




# HCBP Plate Heat Exchanger

HENNLICH - Cooling - Technologies GmbH

## Brazed plate heat exchanger HCBP with internal thread



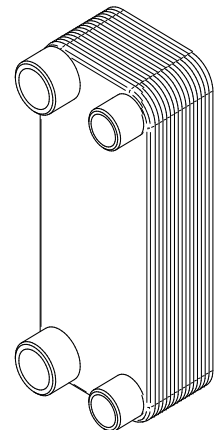
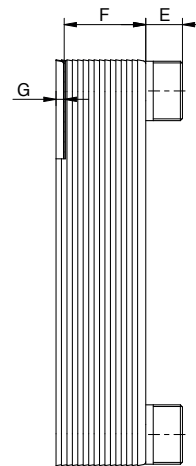
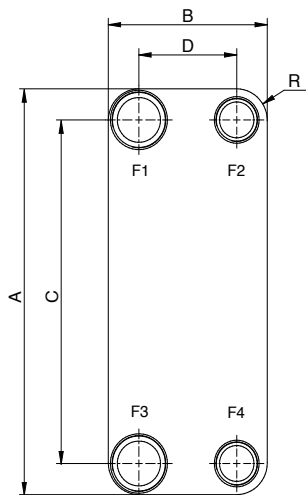
Our brazed plate heat exchangers are used in those applications, where heat transfer is exchanged between two fluids. The heat exchangers HCBP are designed to reach maximum efficiency, which leads to smaller dimensions. The standard plate material is AISI 316 (1.4401) and the plates are brazed with copper.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

<b>Temperature range</b>	-195 °C to +225 °C
<b>Standard working pressure</b>	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)

<b>F1</b>	warm side OUT	<b>F4</b>	cold side OUT
<b>F3</b>	warm side IN	<b>F2</b>	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
<b>HCBP-B5T</b>	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"
<b>HCBP-B8T</b>	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"
<b>HCBP-B10T</b>	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"
<b>HCBP-B12</b>	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"
<b>HCBP-B15T</b>	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"
<b>HCBP-B16</b>	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"
<b>HCBP-B25T</b>	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"
<b>HCBP-B28</b>	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"
<b>HCBP-B35</b>	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"
<b>HCBP-B120T</b>	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"
<b>HCBP-B56</b>	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.

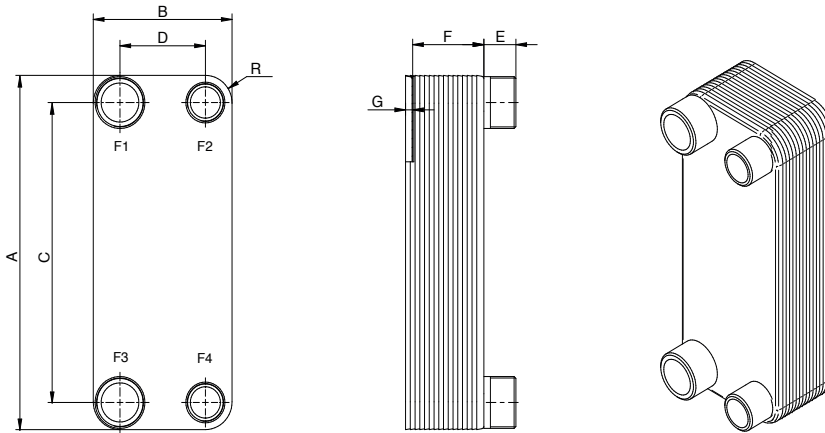
PN = plate number



# 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.

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

<b>F1</b>	hot side OUT	<b>F4</b>	cold side OUT
<b>F3</b>	hot side IN	<b>F2</b>	cold side IN

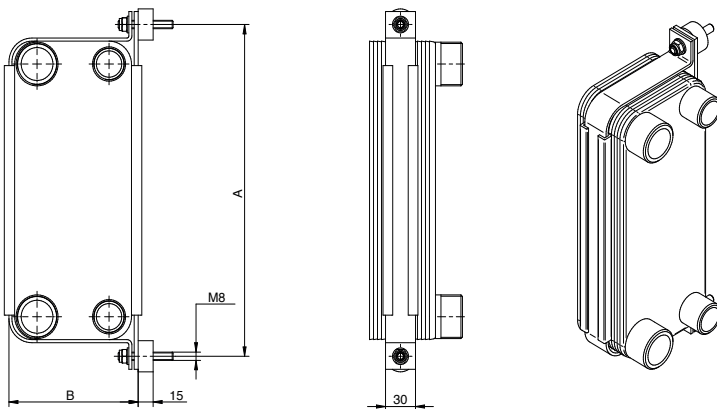
Type	A mm (+/-2)	B [mm] (+/-2)	C [mm] (+/-1)	D [mm] (+/-1)	E mm (+/-1)	F +/- 3%	Max. plate number	Weight	Standard connections ISO G external thread
HCBP-B5T	193	76	154	40	20,1	4 + (2,24 x PN)	60	0,6 + (0,044 x PN)	3/4"
HCBP-B8T	317	76	278	40	20,2	4 + (2,24 x PN)	60	0,8 + (0,075 x PN)	3/4"
HCBP-B10T	289	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

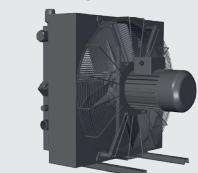
## Fixing set HCBB

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.

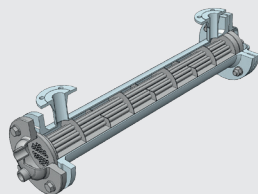


Type	A [mm]	B [mm]
HCBB-5	220	89
HCBB-8	343	89
HCBB-10 and 12	317	134
HCBB-15	495	89
HCBB-16	408	138
HCBB-25 and 28	553	134
HCBB-35	420	259
HCBB-56 and 120	553	259

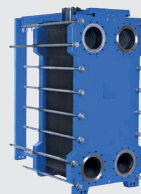
## Other types:



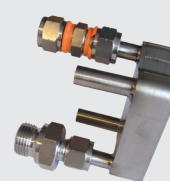
Air cooler HCA



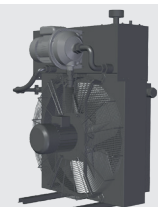
Tube heat exchanger HCT



Gasketed plate heat exchanger HCGP



Microchannel heat exchanger



Special cooling systems HCS



# HCBP Plate Heat Exchanger

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## 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

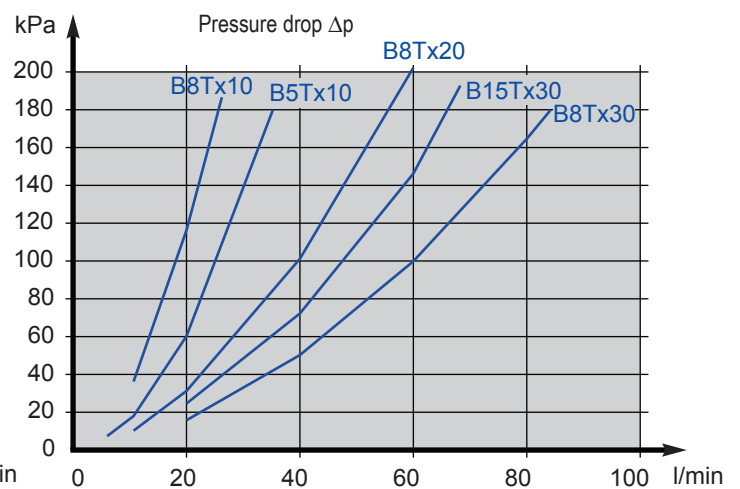
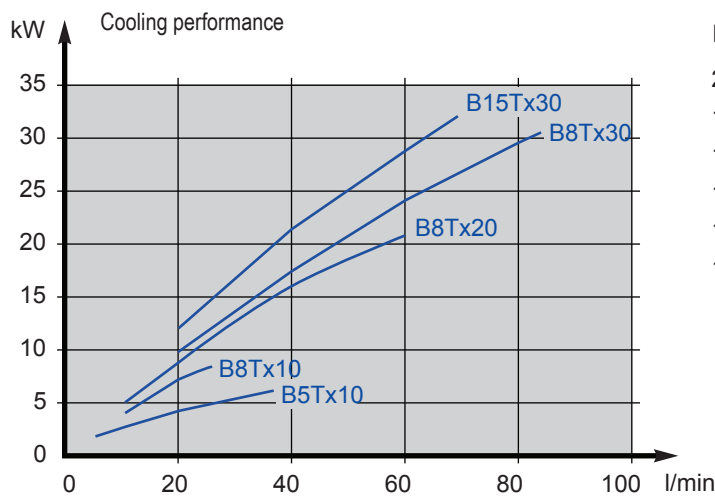
Mass flow rate oil/water: 2/1

Inlet temperature oil: 60 °C

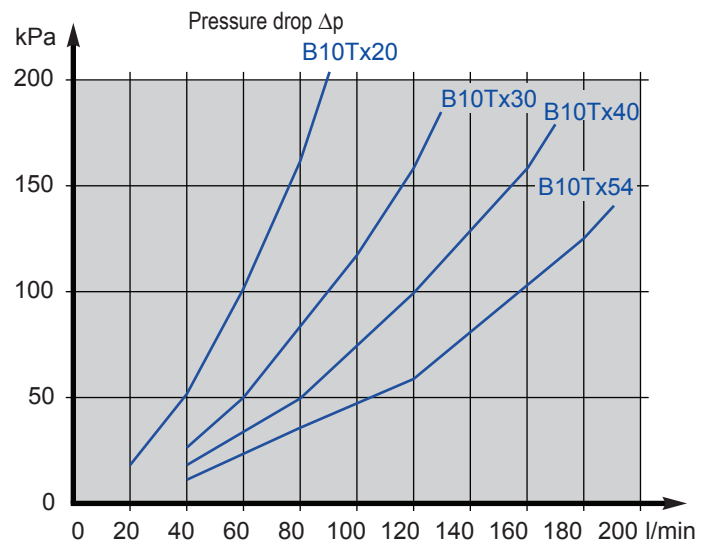
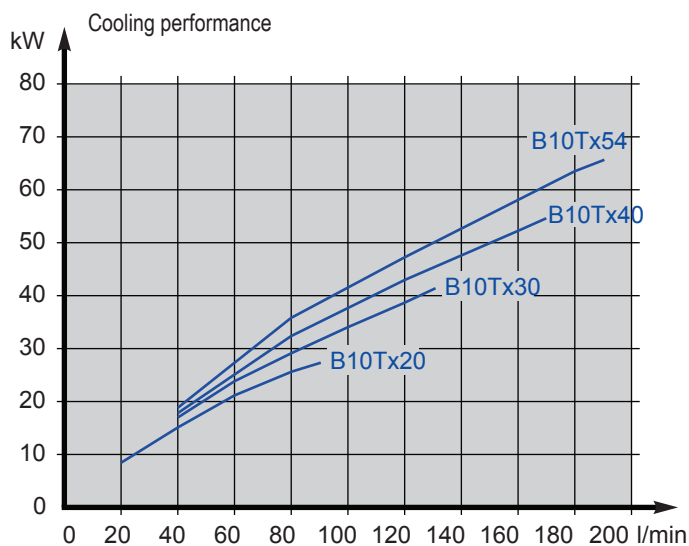
Inlet temperature water: 20 °C

For other thermodynamic parameters please contact us.

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



### Types HCBP-B10T

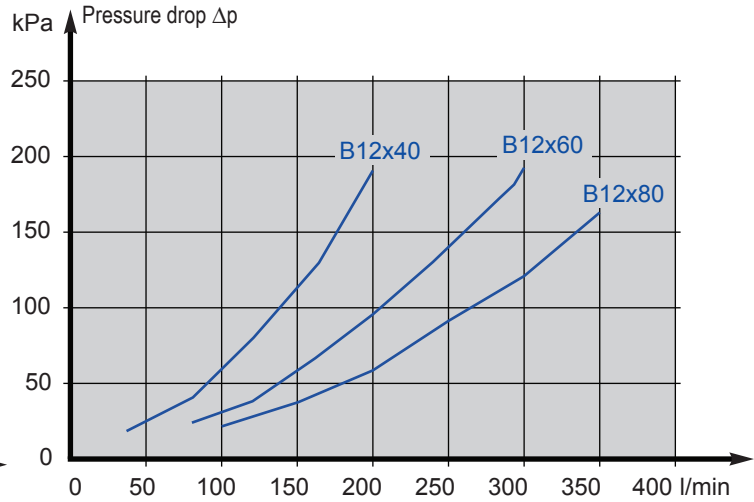
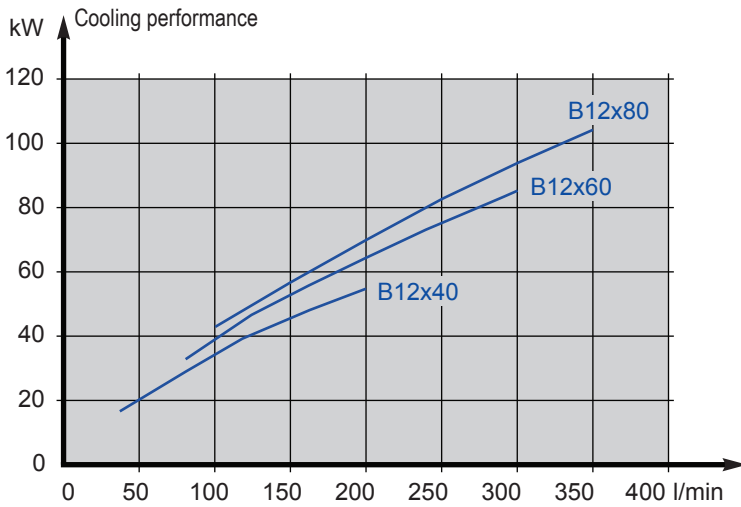




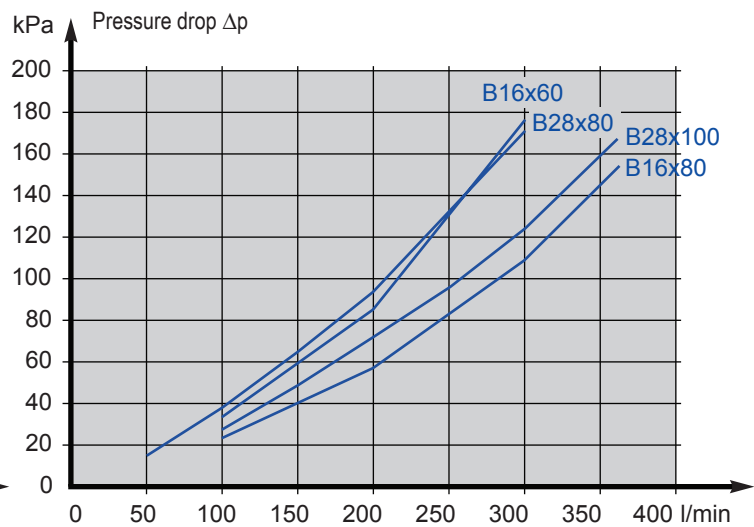
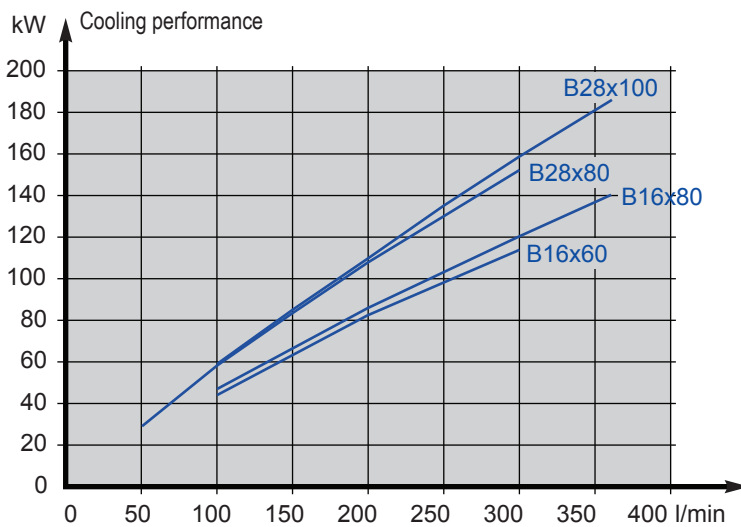
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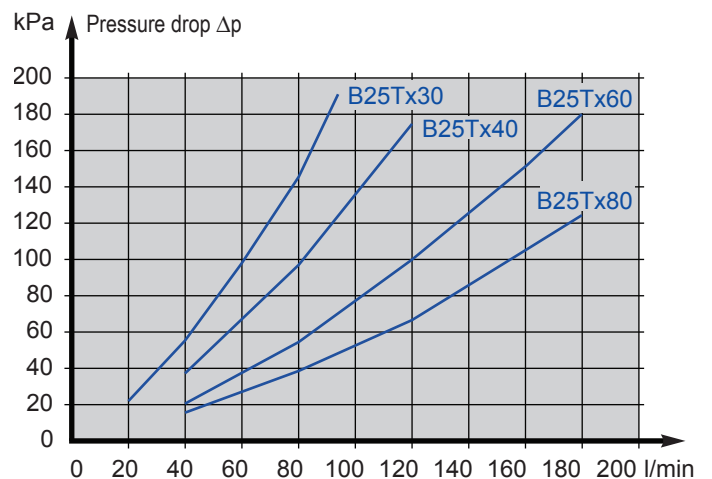
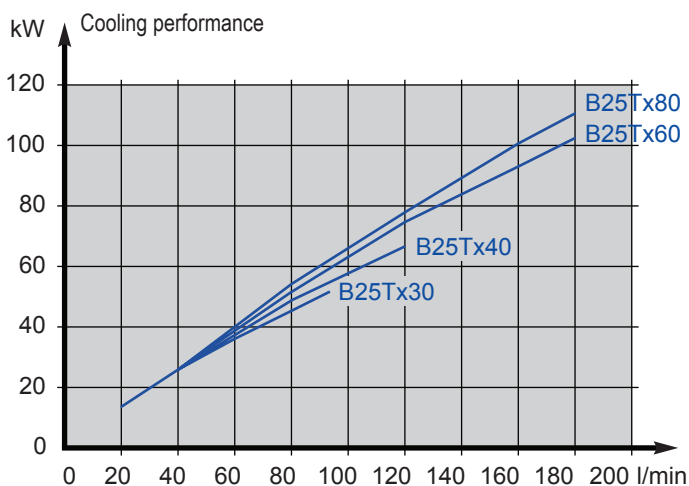
## Type HCBP-B12



## Types HCBP-B16, HCBP-B28



## Type HCBP-B25T

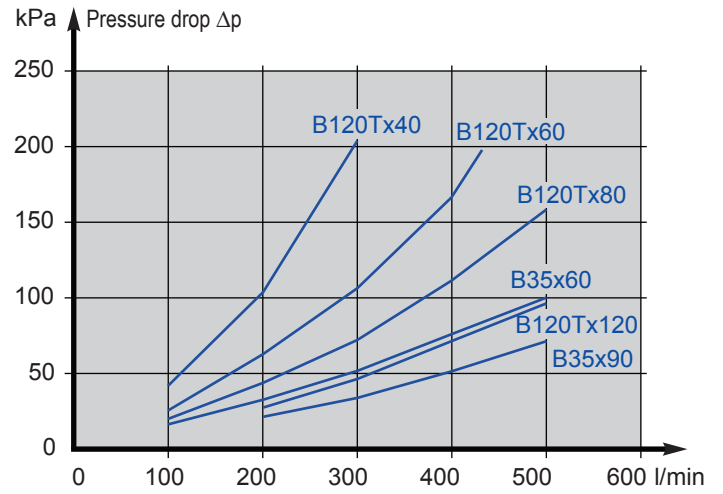
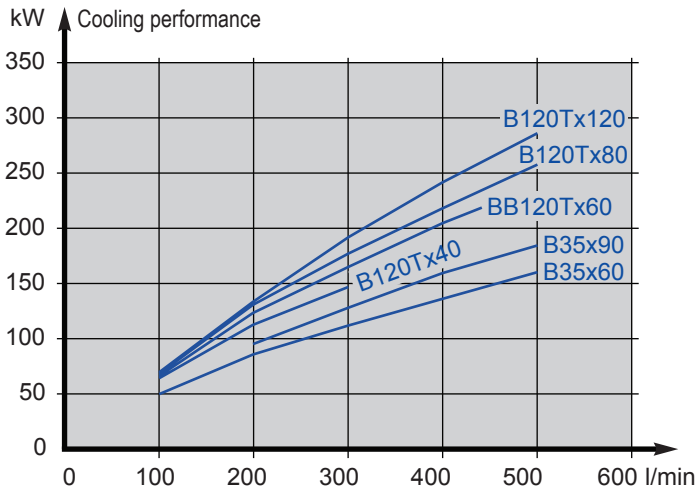




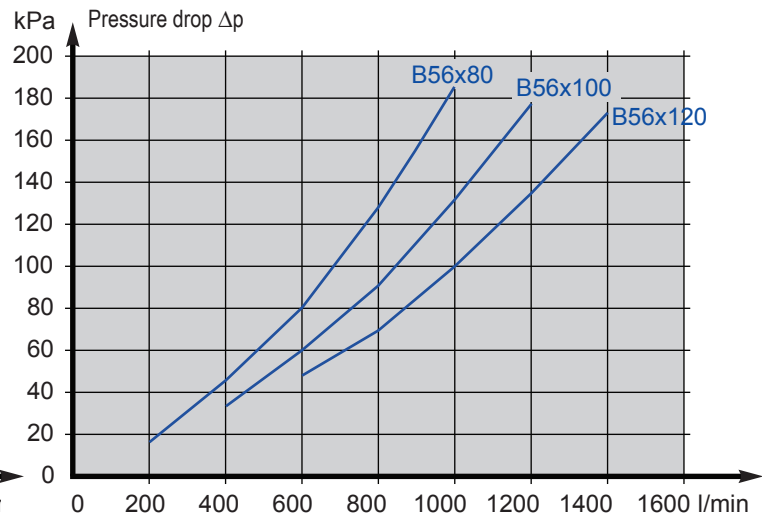
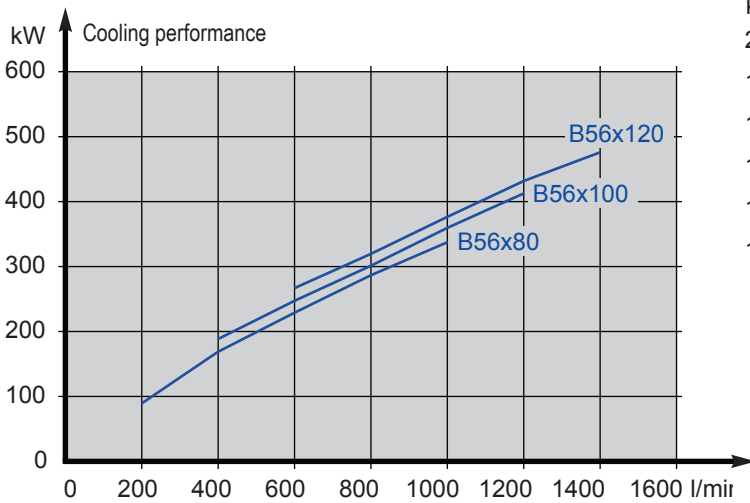
# HCBP Plate Heat Exchanger

HENNLICH - Cooling - Technologies GmbH

## Types HCBP-B35, HCBP-B120T



## Type HCBP-B56



All data subject to errors and modification

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