



Thermal Systems/

Plate Heat Exchanger

Fluid / Fluid Coolers

B-Line

**be different.
make a difference.**

Brazed Plate Heat Exchangers

B-Line



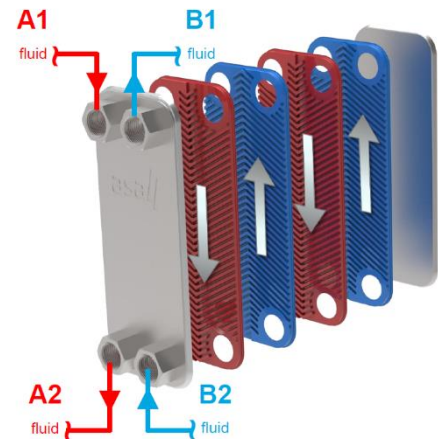
Design

The **asa B-Line plate heat exchanger** is designed for maximum heat transfer, using profiled plates of acid proof stainless steel. The plates form channels through which oil and water pass (alternating every other channel). At the front and back side of the plate package there are cover plates. The cooler plates are brazed together at all outer and inner points of contact. The cooler can be installed in charge-pump circuits as well as in return lines with high pressure variations. This product is also suitable for water, air and gas.

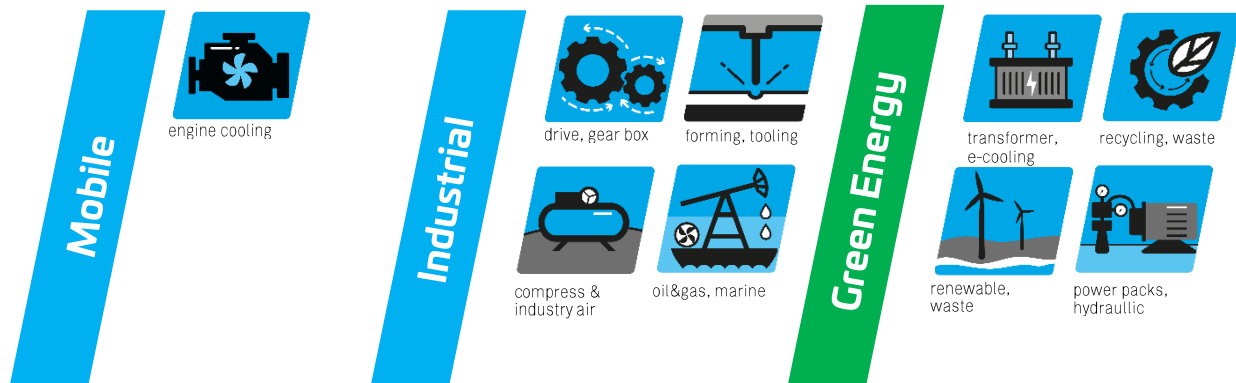
Advantages

The benefits of plate heat exchangers are:

- **High corrosion resistance**
All plates are manufactured from stainless steel, with copper used as the brazing material. This offers a high corrosion resistance against a variety of fluids.
- **High pressure resistant**
Thanks to the brazing process, plate heat exchangers are pressure resistant up to 30 bar.
- **High thermal efficiency**
The plates are designed to maximize thermal transfer in a counter-flow arrangement.
- **High working temperature**
The Brazed Plate Heat Exchanger's stainless steel material structure offers a high working temperature range up to 225°C.
- **Compactness**
The Brazed Plate Heat Exchangers are much lighter and smaller than conventional shell and tube heat exchangers. This makes them easier to install and replace.
- **Low maintenance**
The fluids are kept in their best operating conditions thanks to the high cooling performance. This extends fluid service life and reduces maintenance intervals.



Applications



Brazed Plate Heat Exchangers

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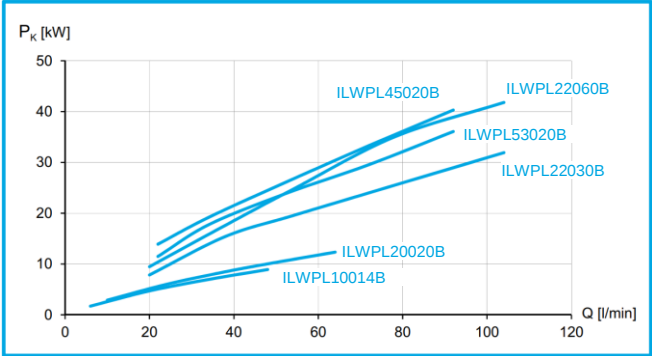
General Data

max. working temperature	+225 °C
test pressure	45 bar
max. pressure	30 bar
chevron plates	steel 1.4401
cover plates	steel 1.4306
connectors	steel 1.4306
solder	copper
bracket	powder coated steel

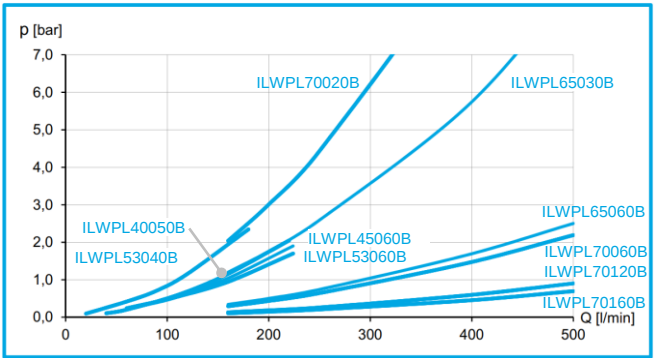
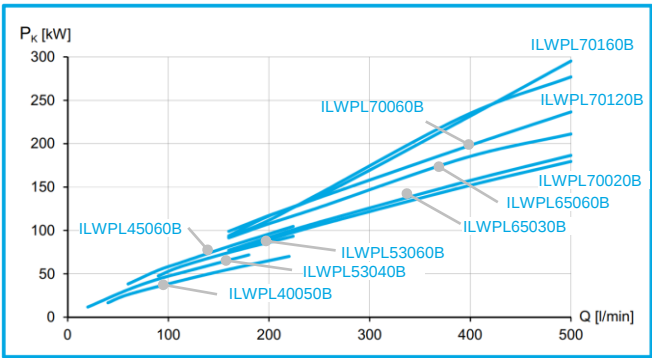
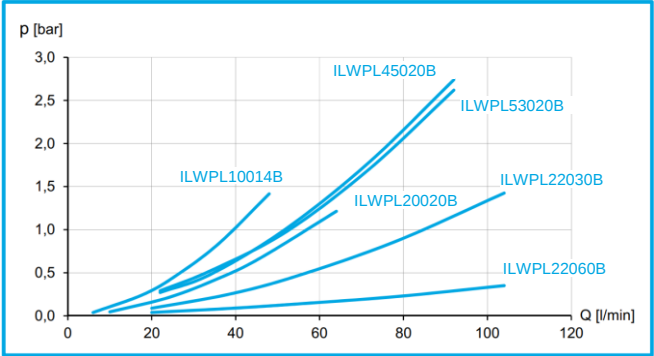
The shown performance curves are based on an oil / water ratio of 2:1 with hydraulic oil ISO VG 32 at an oil inlet temperature of 60°C and a water inlet temperature of 20°C. For other operating conditions or technical parameters, please contact us to ensure the optimal cooler selection for your application.

Overview

cooling performance



pressure drops (oil side)

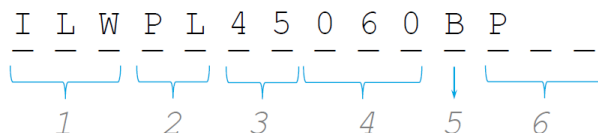


Brazed Plate Heat Exchangers

B-Line



Order Code



1 Product Category

I	Industrial Application
L	Heat exchanger
W	Oil/Water cooling

2 Product Series

PL	Plate-Heat-Exchanger
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3 Size

10	10
20	20
22	22
40	40
45	45
53	53
65	65
70	70

4 Number of plates

060	e.g.60 plates (all available standard combinations listed in below table)*
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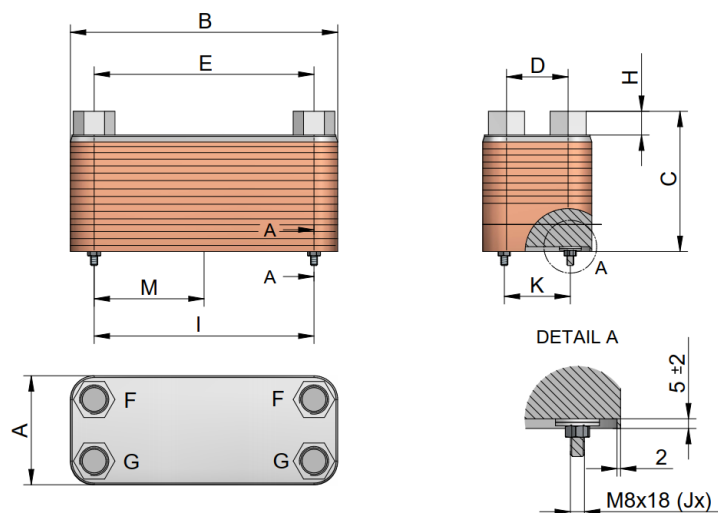
*...any other configuration is on request

5 Series

B	B-Line
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6 Index / Customized

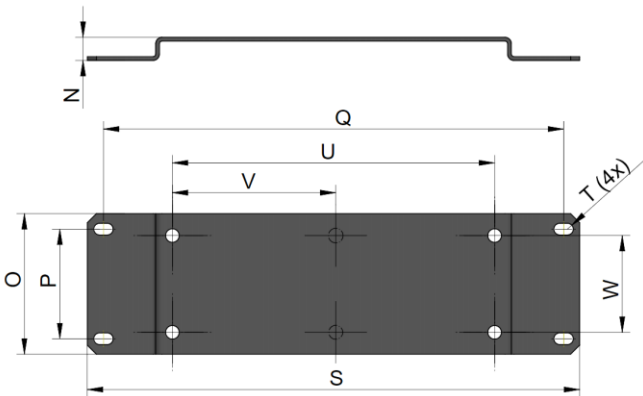
P	mounting brackets
K	standard sales kit
B00	special / customized specifications; to be advised by asa



Dimensions

order number	description	A	B	C	D	E	F	G	H	I	J	K	M	weight
		[mm]	[mm]	[mm]	[mm]	[mm]			[mm]	[mm]	#bolt	[mm]	[mm]	[kg]
ILWPL10014BK	ASA – PL 10-14 B	78	208	70	42	172	G 1/2"	G 1/2"	27	120	2	-	-	2
ILWPL20020BK	ASA – PL 20-20 B	78	208	83	42	172	G 3/4"	G 3/4"	27	150	2	-	-	3
ILWPL22030BK	ASA – PL 22-30 B	106	306	107	50	250	G 1"	G 3/4"	27	250	4	40	-	6
ILWPL22060BK	ASA – PL 22-60 B	106	306	175	50	250	G 1"	G 3/4"	27	250	4	40	-	9
ILWPL40050BK	ASA – PL 40-50 B	124	304	157	70	250	G 1"	G 1"	27	250	4	75	-	9
ILWPL45020BK	ASA – PL 45-20 B	106	523	85	50	466	G 1"	G 1"	27	450	4	60	-	7
ILWPL45060BK	ASA – PL 45-60 B	106	523	176	50	466	G 1"	G 1"	27	450	4	60	-	15
ILWPL53020BK	ASA – PL 53-20 B	118	525	85	63	470	G 1"	G 1"	27	450	4	75	-	9
ILWPL53040BK	ASA – PL 53-40 B	118	525	130	63	470	G 1"	G 1"	27	450	4	75	-	13
ILWPL53060BK	ASA – PL 53-60 B	118	525	175	63	470	G 1"	G 1"	27	450	4	75	-	18
ILWPL65030BK	ASA – PL 65-30 B	181	609	127	92	519	G 1 1/2"	G 1 1/2"	27	540	6	120	270	20
ILWPL65060BK	ASA – PL 65-60 B	181	609	211	92	519	G 1 1/2"	G 1 1/2"	27	540	6	120	270	31
ILWPL70020BK	ASA – PL 70-20 B	246	528	89	174	456	G 1 1/2"	G 1 1/2"	27	420	6	150	210	18
ILWPL70060BK	ASA – PL 70-60 B	246	528	181	174	456	G 1 1/2"	G 1 1/2"	27	420	6	150	210	39
ILWPL70120BK	ASA – PL 70-120 B	246	528	320	174	456	G 1 1/2"	G 1 1/2"	27	420	6	150	210	70
ILWPL70160BK	ASA – PL 70-160 B	246	528	412	174	456	G 1 1/2"	G 1 1/2"	27	420	6	150	210	91

Mounting brackets



Dimensions

order number	description	N	O	P	Q	S	T slot hole	U	V	W	weight
		[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[kg]
ILWPZMON10	Mounting plate PL10-	18	58	33	228	253	9 x 15	120	-	-	0,4
ILWPZMON20	Mounting plate PL20-	18	70	50	255	280	9 x 15	150	-	-	0,5
ILWPZMON22	Mounting plate PL22-	18	74	50	350	375	9 x 15	250	-	40	0,7
ILWPZMON40	Mounting plate PL40-	18	109	85	357	382	9 x 15	250	-	75	1,0
ILWPZMON53	Mounting plate PL53-	18	107	85	555	580	9 x 15	450	-	75	1,5
ILWPZMON65	Mounting plate PL65-	18	160	120	640	680	11 x 20	540	270	120	2,6
ILWPZMON70	Mounting plate PL70-	18	254	230	552	580	11 x 20	420	210	150	3,3

Order number with mounting brackets

order number	included
ILWPL10014BP	ILWPZMON10
ILWPL20020BP	ILWPZMON20
ILWPL22030BP	ILWPZMON22
ILWPL22060BP	
ILWPL40050BP	ILWPZMON40
ILWPL45020BP	ILWPZMON53
ILWPL45060BP	
ILWPL53020BP	
ILWPL53040BP	
ILWPL53060BP	ILWPZMON65
ILWPL65030BP	
ILWPL65060BP	ILWPZMON70
ILWPL70020BP	
ILWPL70060BP	
ILWPL70120BP	
ILWPL70160BP	



Please contact us for details or get further information at www.asahydraulik.com or support@asahydraulik.com. Please read the manual before operation.



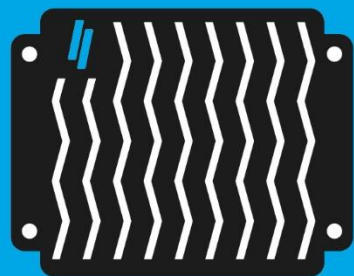
Company

asa stands for innovations and reliable solutions that are already being used by our customers in various mobile and stationary applications. With over 40 years of experience in thermal systems, connection technology, and fluid control, we have become a global leader in advanced fluid power solutions. Our experience fosters progress to grant you competitive pricing, consistent product performance, and exceptional reliability.

History

1980-1990

- Hydraulic components distribution, service and system integration
- Manufacture of valves and components
- Heat exchanger Shell & Tube platform "Silver ST80"



Thermal Management Systems

Our heat exchangers are designed and produced with an innovative spirit and a passion for technology, ensuring highest performance and quality.

- Bar & Plate: oil and water/glycol coolers
- Tube & Fin: coolant cooler, silent pump, electronics cooler
- Shell & Tube

1990 - 2000

- Specializing on heat exchanger market
- Manufacture first modular cooler system in plate & bar "OKO" (2 brazing lines)
- Foundation of asa hydraulic of America Inc./ USA



Ventilation & Drive

We offer a broad range of ventilation solutions. The installation space influences the choice of the most suitable airflow technology, thus ensuring the optimal configuration for volume flow, efficiency and noise reduction.

- Ventilation: adjustable fan blade systems
- Six phase sensorless VR-motor
- Electronic fan speed control, temperature control

2000 - 2010

- Foundation of asa Products Pty Ltd / Australia
- Foundation of asa Hydraulik Technology
- Patents:
 - AUC - 1st flexible connectors
 - ABP - 1st intergated bypass tube
 - ATT - asa extruded profil



Fluid Controls

The asa gerotor pumps meet the demands of modern fluid power systems, while our centrifugal water pump units are designed primarily to create compact, cost-efficient cooling circuits for electric devices, such as battery packs and electric motors.

- Gerotor pumps
- Centrifugal water pumps

2010 - 2020

- New R&D Center / Austria
- Manufacture of water/oil pumps
- Foundation of asa heat exchanger Pvt. Ltd / India
- Patents:
 - x-changer "Fusion of heat exchanger & ventilation"
 - Multiaxial silent absorber



Connection Technology

Our connection product collection fills technological gaps in various markets and applications.

- Silent absorbers
- Multi-axle vibration absorbers
- Expansion joints
- Hybrid SAE/DIN shut-off valves

2020 - today

- New technology of six phase sensorless
- VR-motors
- Manufacture ST heat exchanger
- Manufacture X wings (new lead fins)
- Foundation of asahydraulic do Brasil Pvt. Ltd /Brazil
- Patents:
 - META - microchannel with flexible lead fins
 - AHM - hybrid shell tube heat exchanger



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