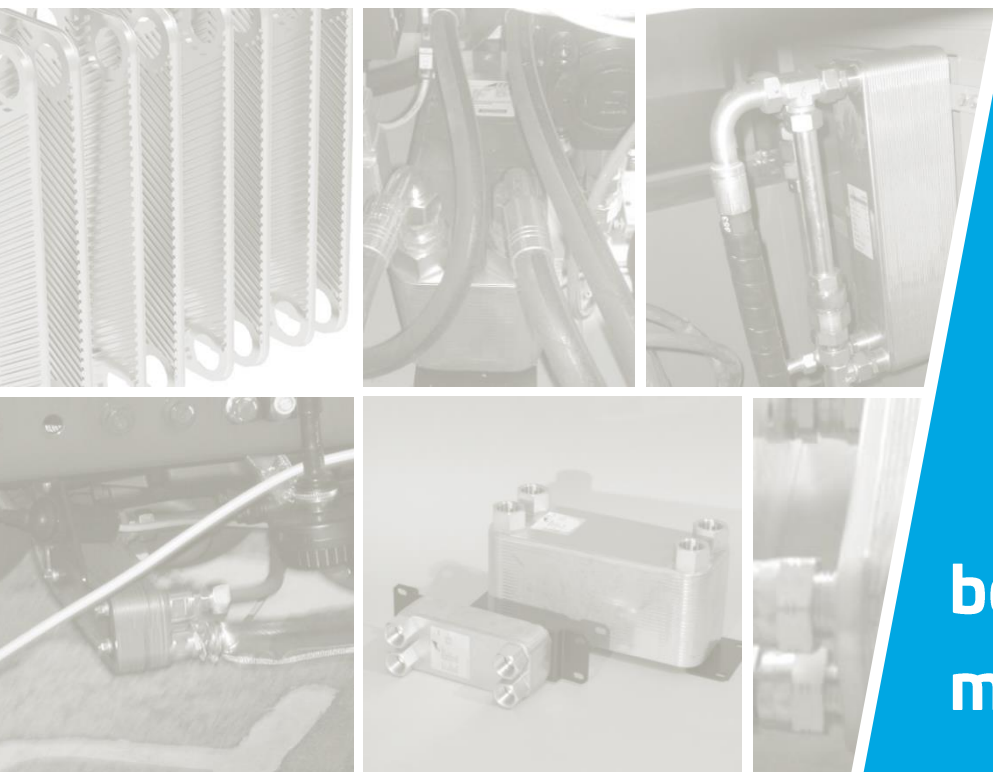




# Thermal Systems/Special Ranges E-Series / Plate Heat Exchangers



**be different.  
make a difference.**

# Special Ranges

## Brazed Plate Heat Exchangers / E-Series



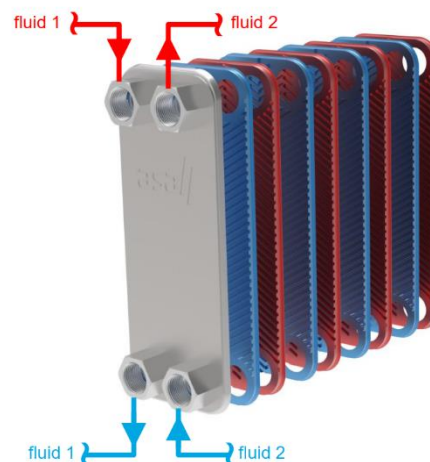
### Construction

The Plate Heat Exchangers ASA-PL is designed for hydraulic fluid and lubricating. The benefits of plate heat exchangers are:

- strength
- installation dimension
- efficiency
- low maintenance

### Design

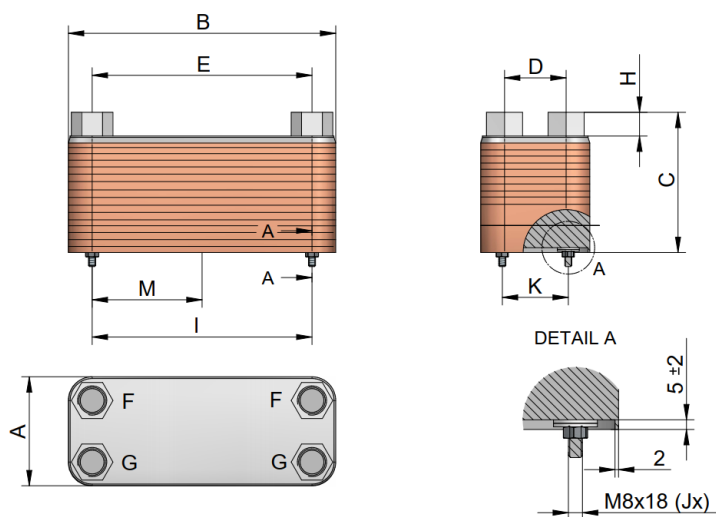
The asa E plate heat exchanger is designed for maximum heat transfer using profiled plates of acid proof stainless steel. The plates form channels through which oil and water pass (alternating every other channel). At the front and back side of the plate package there are cover plates. The cooler plates 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.



### Standard Range

Our standard range of plate heat exchanger covers a large field of applications to ensure you competitive pricing, high quality and short delivery times. Contact us for more information and non standard coolers to work out the optimal solution for you.

### Dimensions



#### material

plates	steel 1.4401
cover plates	steel 1.4306
connectors	steel 1.4306
solder	copper

#### temperature

working temperature range	-160°C to +200 °C
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#### pressure

test pressure	43 bar
max. pressure	30 bar

### Technical data

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]
ILWPL10014EK	ASA – PL 10-14 E	73	205	65,5	42	172	G ½"	G ½"	27	120	2	-	-	1,4
ILWPL20020EK	ASA – PL 20-20 E	80	194	85	40	154	G ¾"	G ¾"	27	150	2	-	-	1,6
ILWPL22030EK	ASA – PL 22-30 E	106	306	111,5	50	250	G 1"	G ¾"	27	250	4	40	-	5,2
ILWPL22060EK	ASA – PL 22-60 E	106	306	183,5	50	250	G 1"	G ¾"	27	250	4	40	-	8,8
ILWPL40050EK	ASA – PL 40-50 E	124	304	159,5	70	250	G 1"	G 1"	27	250	4	75	-	8,5
ILWPL45020EK	ASA – PL 45-20 E	106	522	85,6	50	466	G 1"	G 1"	27	450	4	75	-	6,9
ILWPL45060EK	ASA – PL 45-60 E	106	522	180,8	50	466	G 1"	G 1"	27	450	4	75	-	15,1
ILWPL53020EK	ASA – PL 53-20 E	124	504	87,5	64	444	G 1"	G 1"	27	450	4	75	-	8,3
ILWPL53040EK	ASA – PL 53-40 E	124	504	135,5	64	444	G 1"	G 1"	27	450	4	75	-	13,1
ILWPL53060EK	ASA – PL 53-60 E	124	504	183,5	64	444	G 1"	G 1"	27	450	4	75	-	17,9
ILWPL65030EK	ASA – PL 65-30 E	186	613	113	92	519	G 1 ½"	G 1 ½"	27	540	6	120	270	19,0
ILWPL65060EK	ASA – PL 65-60 E	186	613	185	92	519	G 1 ½"	G 1 ½"	27	540	6	120	270	31,1
ILWPL70020EK	ASA – PL 70-20 E	246	528	86,5	174	456	G 1 ½"	G 1 ½"	27	420	6	150	210	17,6
ILWPL70060EK	ASA – PL 70-60 E	246	528	182,5	174	456	G 1 ½"	G 1 ½"	27	420	6	150	210	38,4
ILWPL70120EK	ASA – PL 70-120 E	246	528	326,5	174	456	G 1 ½"	G 1 ½"	27	420	6	150	210	69,6
ILWPL70160EK	ASA – PL 70-160 E	246	528	422,5	174	456	G 1 ½"	G 1 ½"	27	420	6	150	210	90,4

This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually. asa assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. All sound values are determined in accordance with ISO 9614-2, DIN EN ISO 11203 accuracy class 3 or Machinery Directive 2006/42/EG and are A-rated. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-VL. General tolerances for casted parts according EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-F+C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties; due to the wide-ranging possible applications, it is advised that all technical data herewith included be confirmed through testing carried out by the end-user. asa technology Produktions- und Vertriebs GmbH reserves the right to modify the product without any separate notification. This refers to both technical data and the product itself. Furthermore, it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions.  
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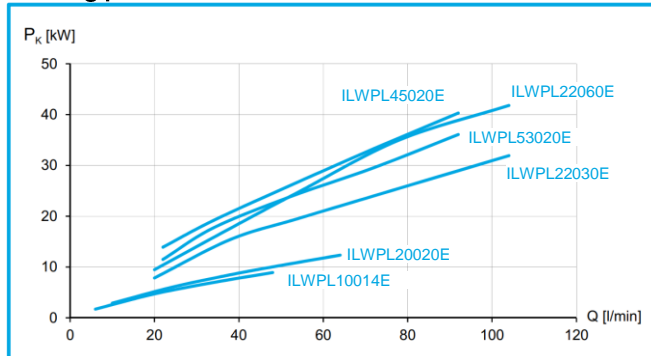
# Special Ranges

## Brazed Plate Heat Exchangers / E-Series

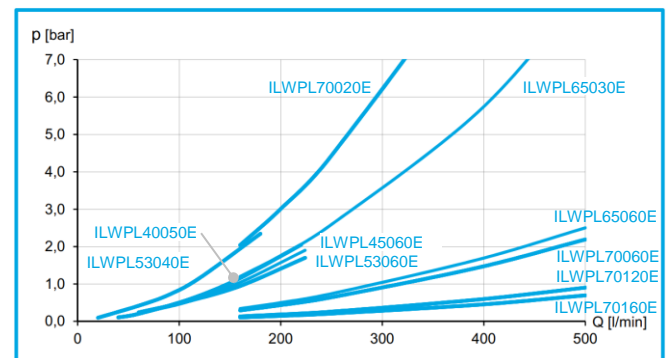
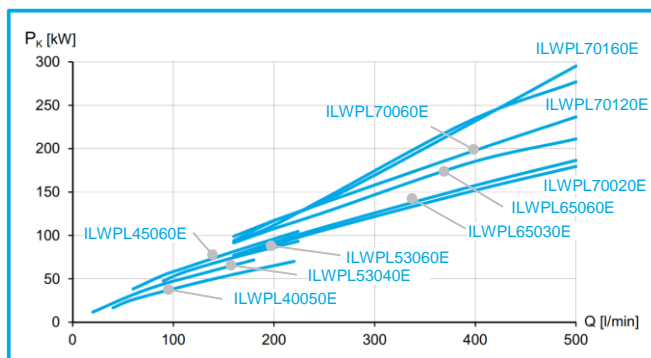
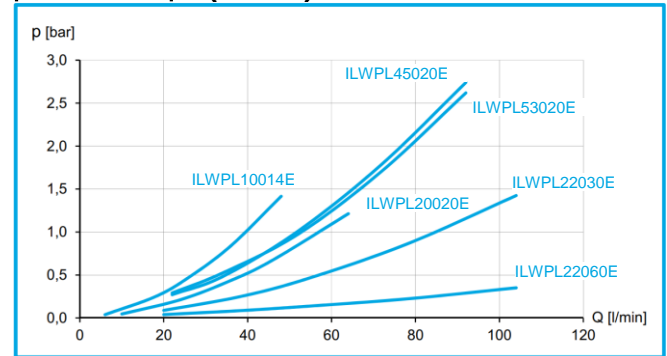


The shown performance curves are created at an oil/ water ratio of 2:1 with hydraulic oil ISO VG 32 at an oil inlet temperature of 60°C and a water entrance of 20°C. Please contact us for other technical parameters to select the optimal cooler for you.

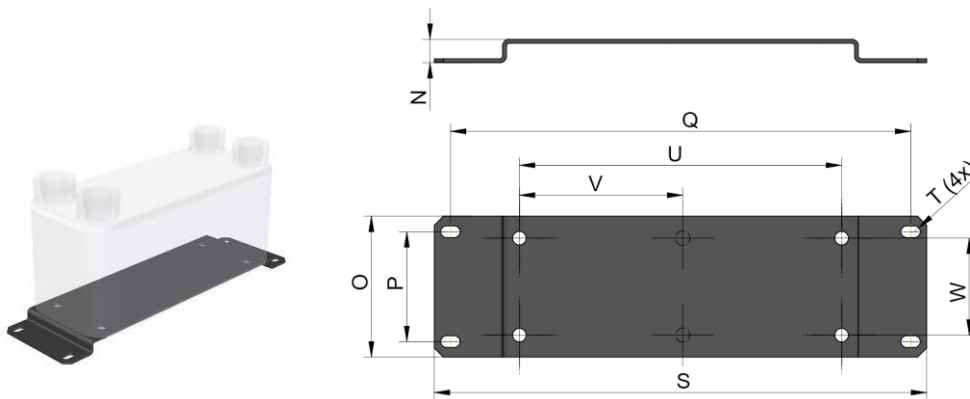
### Cooling performance



### pressure drops (oil side)



### Mounting brackets



cooler number with mounting brackets	included
ILWPL10014EP	ILWPZMON10
ILWPL20020EP	ILWPZMON20
ILWPL22030EP	ILWPZMON22
ILWPL22060EP	
ILWPL40050EP	ILWPZMON40
ILWPL45020EP	ILWPZMON53
ILWPL45060EP	
ILWPL53020EP	
ILWPL53040EP	
ILWPL53060EP	
ILWPL65030EP	ILWPZMON65
ILWPL65060EP	
ILWPL70020EP	ILWPZMON70
ILWPL70060EP	
ILWPL70120EP	
ILWPL70160EP	

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

Please contact us for details or get further information at [www.asahydraulik.com](http://www.asahydraulik.com) or [support@asahydraulik.com](mailto:support@asahydraulik.com). Please read the manual before operation.

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**Thermal Systems  
Connection Technology  
Fluid Controls**

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make a difference.**

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