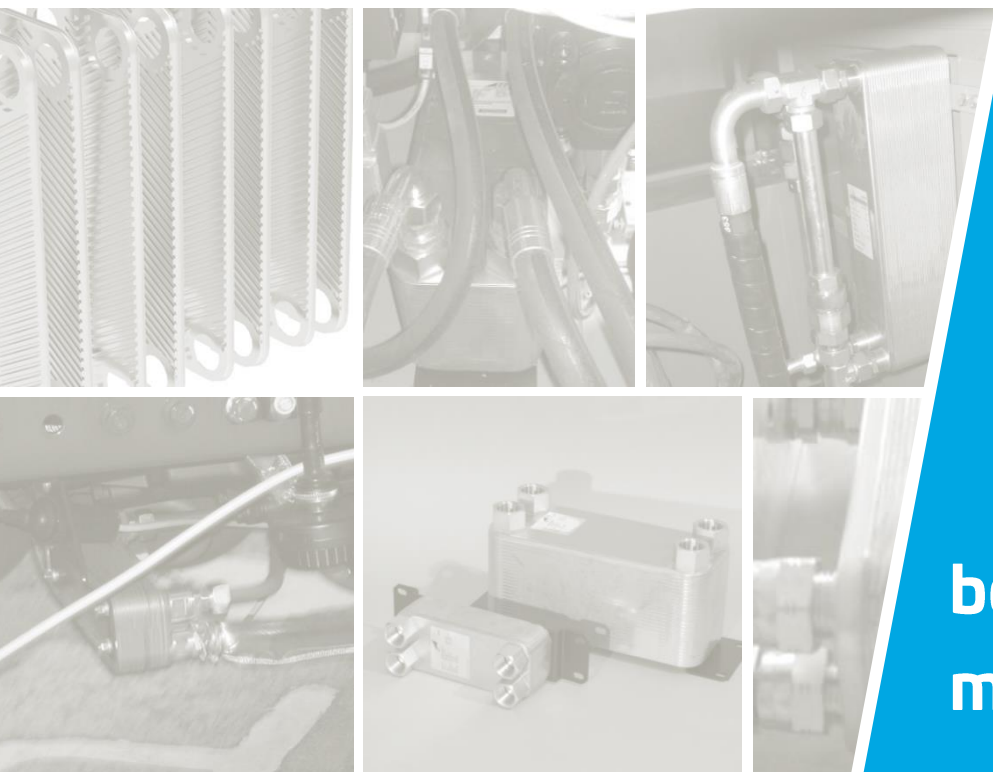




Thermal Systems/Special Ranges E-Series / Plate Heat Exchangers



**be different.
make a difference.**

Special Ranges

Brazed Plate Heat Exchangers / E-Series



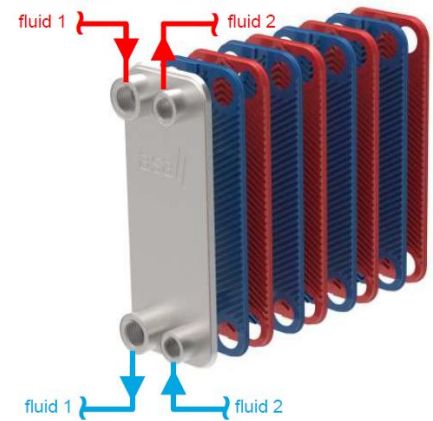
Construction

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

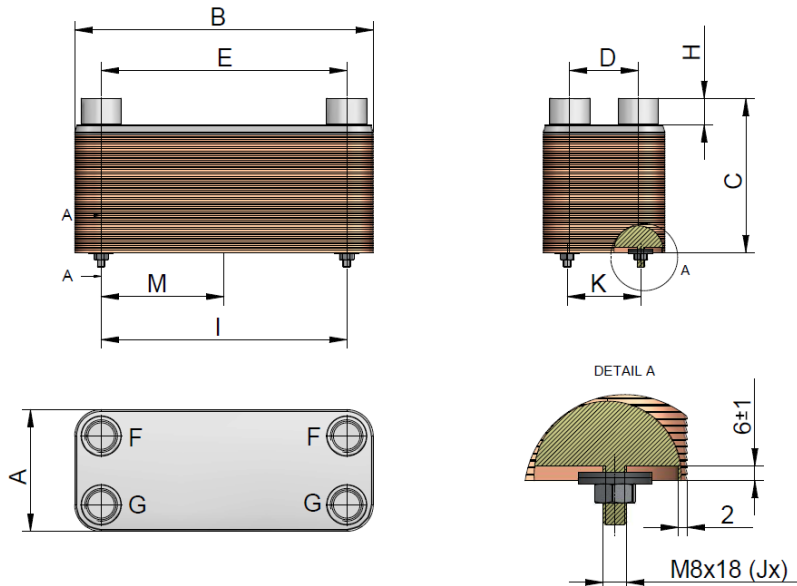
The asa E plate heat exchanger is designed for maximum heat transfer using profiled plates of acid proof stainless steel. The plates form channels through which oil and water pass (alternating every other channel). At the front and back side of the plate package there are cover plates. The cooler plates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

Technical Data



material

| | |
|-------------|--------------|
| plates | steel 1.4306 |
| upper plate | steel 1.4306 |
| connectors | steel 1.4306 |
| solder | copper |

temperature

| | |
|-------------------------|-------------------|
| max.working temperature | -160°C to +200 °C |
|-------------------------|-------------------|

pressure

| | |
|---------------|--------|
| test pressure | 43 bar |
| max. pressure | 30 bar |

| 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 | - | - | 1,8 |
| 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 |
| 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 |
| ILWPL70020EK | ASA – PL 70-20 E | 246 | 528 | 86,5 | 174 | 456 | G 1½" | G 1½" | 27 | 420 | 6 | 150 | 210 | 17,6 |
| ILWPL70060EK | ASA – PL 70-60 E | 246 | 528 | 182,5 | 174 | 456 | G 1½" | G 1½" | 27 | 420 | 6 | 150 | 210 | 39,9 |
| ILWPL70120EK | ASA – PL 70-120 E | 246 | 528 | 326,5 | 174 | 456 | G 1½" | G 1½" | 27 | 420 | 6 | 150 | 210 | 69,6 |
| ILWPL70160EK | ASA – PL 70-160 E | 246 | 528 | 422,5 | 174 | 456 | G 1½" | G 1½" | 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. Due to different conditions in testing and application environments the performance may also vary by +/- 15%. Because there is no standardized testing procedure, tests used by other manufacturers could have different results. Therefore we recommend all products to be checked under the system operating conditions. This is also true for 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 to 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. In addition to that we point out that any data sheet and corresponding scale drawing is no substitution for the manual.
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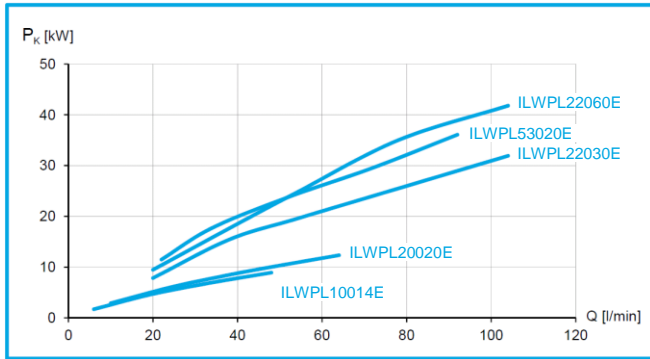
Special Ranges

Brazed Plate Heat Exchangers / E-Series

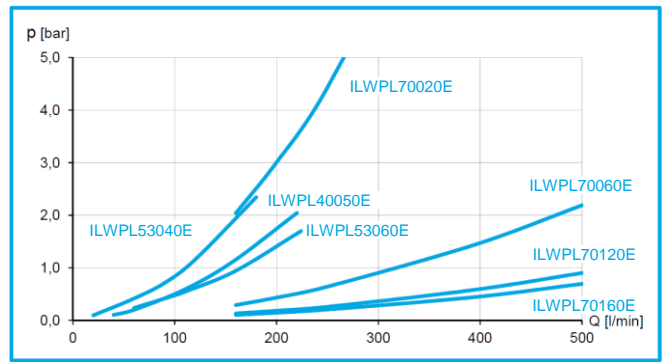
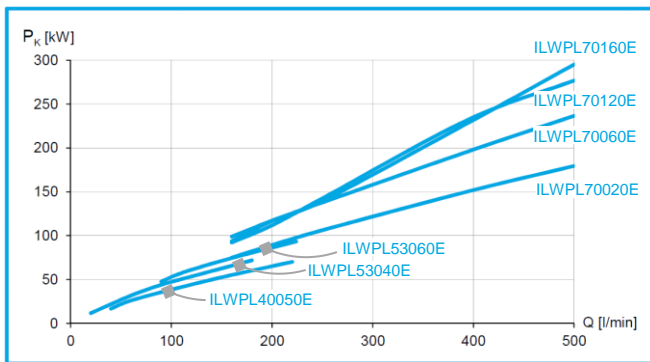
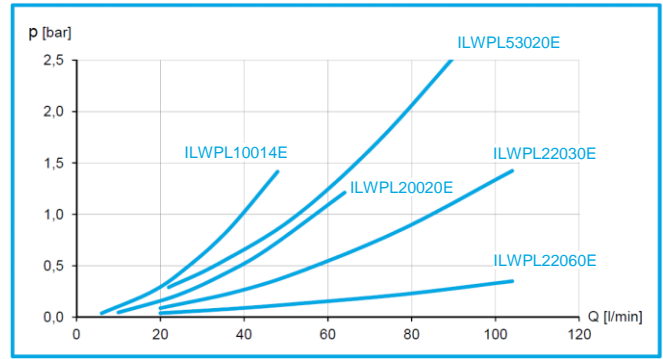


The shown performance curves created at an oil / water ratio of 2:1 with hydraulic oil ISO VG 32 at an oil inlet temperature of 60°C and a water entrance of 20°C. Please contact us for other technical parameters to select the optimal cooler for you.

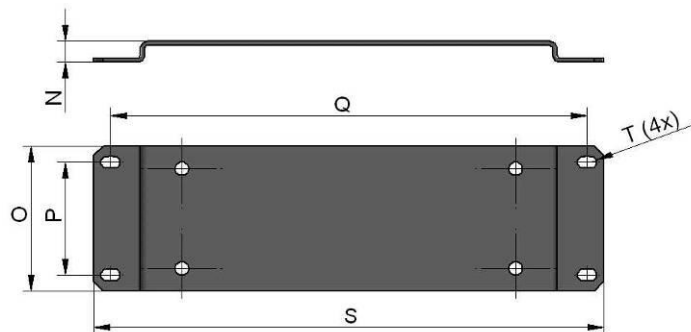
cooling performance



pressure drops (oil side)



Mounting brackets



cooler number with mounting brackets

- ILWPL10014EP
- ILWPL20020EP
- ILWPL22030EP
- ILWPL22060EP
- ILWPL40050EP
- ILWPL53020EP
- ILWPL53040EP
- ILWPL53060EP
- ILWPL70020EP
- ILWPL70060EP
- ILWPL70120EP
- ILWPL70160EP

| order number | description | N | O | P | Q | S | T slot hole | weight |
|--------------|-----------------|------|------|------|------|------|-------------|--------|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | | [kg] |
| ILWPZMON10 | ASA – PL 10-14E | 16 | 58 | 33 | 228 | 253 | 9 x 15 | 0,3 |
| ILWPZMON20 | ASA – PL 20-20E | 16 | 70 | 50 | 255 | 280 | 9 x 15 | 0,5 |
| ILWPZMON22 | ASA – PL 22-__E | 16 | 74 | 50 | 350 | 375 | 9 x 15 | 0,7 |
| ILWPZMON40 | ASA – PL 40-50E | 16 | 109 | 85 | 357 | 382 | 9 x 15 | 1,0 |
| ILWPZMON53 | ASA – PL 53-__E | 16 | 107 | 85 | 555 | 580 | 9 x 15 | 1,5 |
| ILWPZMON70 | ASA – PL 70-__E | 16 | 254 | 230 | 552 | 580 | 11 x 20 | 3,5 |

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

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make a difference.**

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