# Brazed Plate Heat Exchangers
## E Series

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## Progress In Cooling

The asa E plate heat exchanger is designed for both cooling and heating applications. It is commonly used to cool hydraulic fluid and lubricating oil and can be used for water, air, steam and gas applications.

The benefits of asa E plate heat exchangers are:

- strength
- safety
- downsizing
- high thermal efficiency
- low maintenance
- no gaskets – no leaks
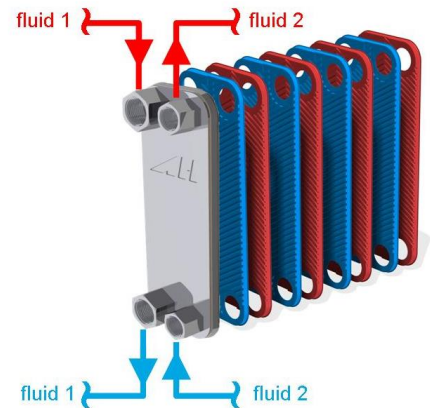
## Design

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.

## 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.

## Scale Drawing
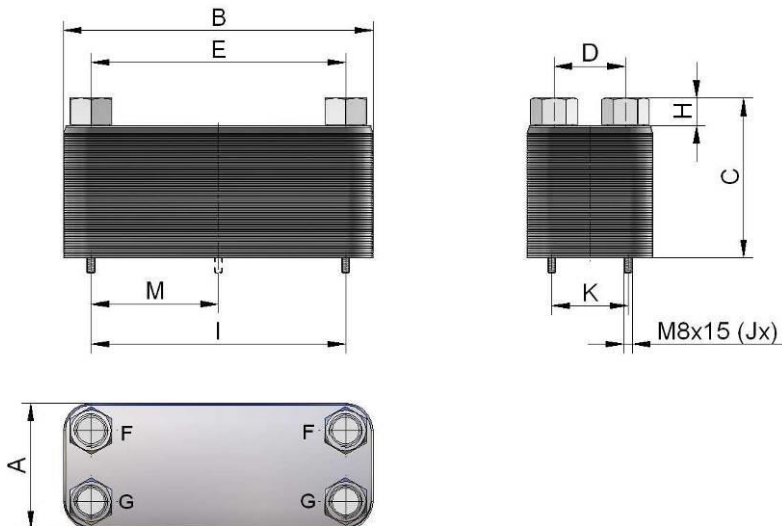


| material | | |
|---|---|---|
| plates | steel 1.4401 | |
| upper plate | steel 1.4301 | |
| connectors | steel 1.4301 | |
| solder | copper CW004A | |

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

## Technical Data

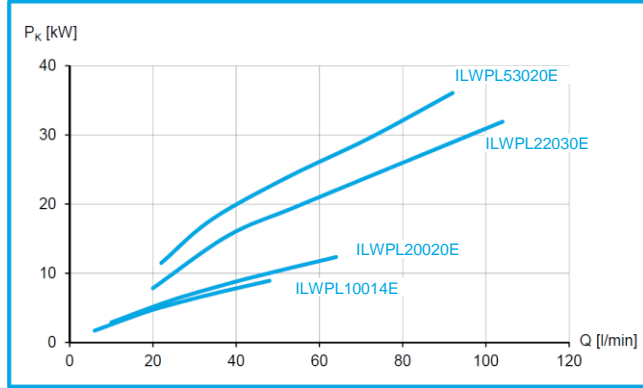| order number | description | A | B | C | D | E | F | G | H | I | J | K | M | weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | | | [mm] | [mm] | # of bolts | [mm] | [mm] | [kg] |
| ILWPL10014EK | ASA – PL 10-14 E | 73 | 205 | 64,5 | 42 | 172 | G ½" | G ½" | 27 | 120 | 2 | - | - | 1,8 |
| ILWPL20020EK | ASA – PL 20-20 E | 80 | 194 | 82 | 40 | 154 | G ¾" | G ¾" | 27 | 150 | 2 | - | - | 2,3 |
| ILWPL22030EK | ASA – PL 22-30 E | 106 | 306 | 109 | 50 | 250 | G 1" | G ¾" | 27 | 250 | 4 | 40 | - | 6,1 |
| ILWPL40050EK | ASA – PL 40-50 E | 124 | 304 | 157 | 70 | 250 | G 1" | G 1" | 27 | 250 | 4 | 75 | - | 10,2 |
| ILWPL53020EK | ASA – PL 53-20 E | 124 | 504 | 85 | 64 | 444 | G 1" | G 1" | 27 | 450 | 4 | 75 | - | 8,8 |
| ILWPL53040EK | ASA – PL 53-40 E | 124 | 504 | 133 | 64 | 444 | G 1" | G 1" | 27 | 450 | 4 | 75 | - | 13,1 |
| ILWPL53060EK | ASA – PL 53-60 E | 124 | 504 | 181 | 64 | 444 | G 1" | G 1" | 27 | 450 | 4 | 75 | - | 18,4 |
| ILWPL70060EK | ASA – PL 70-60 E | 246 | 528 | 182, | 174 | 456 | G 1½" | G 1½" | 27 | 420 | 6 | 150 | 210 | 39,9 |

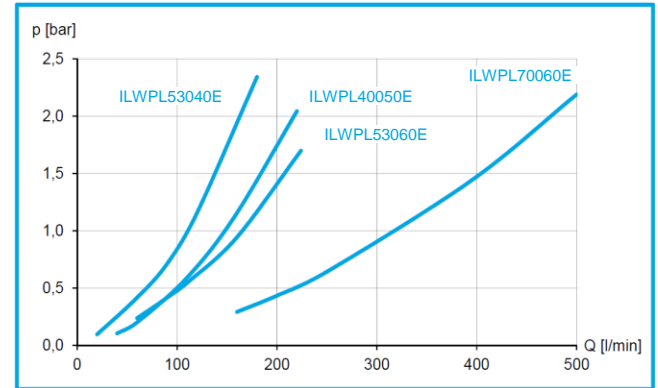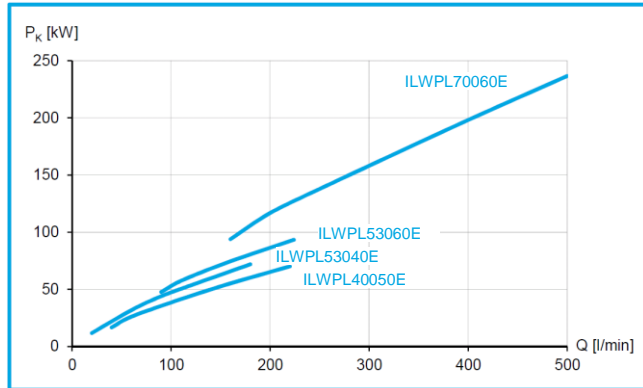# Brazed Plate Heat Exchangers
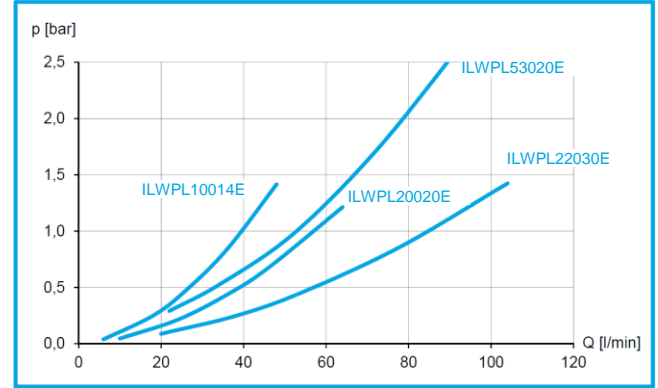## E Series

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## Performance

The shown performance curves were created with an oil/water ratio of 2:1 with hydraulic oil ISO VG32 at an oil inlet temperature of 60°C and a water inlet of 20°C. Please contact us for other technical parameters to select the optimal cooler for you.
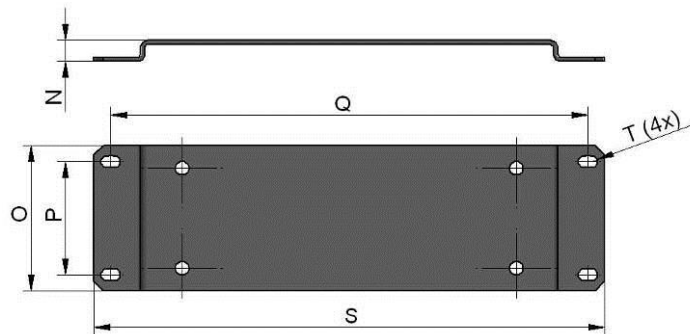
### cooling performance



P_K [kW] vs Q [l/min]: ILWPL53020E, ILWPL22030E, ILWPL20020E, ILWPL10014E



P_K [kW] vs Q [l/min]: ILWPL70060E, ILWPL53060E, ILWPL53040E, ILWPL40050E

### pressure drop



p [bar] vs Q [l/min]: ILWPL53020E, ILWPL22030E, ILWPL10014E, ILWPL20020E



p [bar] vs Q [l/min]: ILWPL70060E, ILWPL53040E, ILWPL40050E, ILWPL53060E

## Mounting Brackets



| bracket order number | fits on cooler type | N | O | P | Q | S | T slot hole | bracket weight | cooler order number |
|---|---|---|---|---|---|---|---|---|---|
| | | [mm] | [mm] | [mm] | [mm] | [mm] | | [kg] | with mounted bracket |
| ILWPZMON10 | ILWPL10014EK | 16 | 58 | 33 | 228 | 253 | 9 x 15 | 0,3 | ILWPL10014EP |
| ILWPZMON20 | ILWPL20020EK | 16 | 70 | 50 | 255 | 280 | 9 x 15 | 0,5 | ILWPL20020EP |
| ILWPZMON22 | ILWPL22030EK | 16 | 74 | 50 | 350 | 375 | 9 x 15 | 0,7 | ILWPL22030EP |
| ILWPZMON40 | ILWPL40050EK | 16 | 109 | 85 | 357 | 382 | 9 x 15 | 1,0 | ILWPL40050EP |
| ILWPZMON53 | ILWPL53020EK | 16 | 107 | 85 | 555 | 580 | 9 x 15 | 1,5 | ILWPL53020EP |
| ILWPZMON53 | ILWPL53040EK | 16 | 107 | 85 | 555 | 580 | 9 x 15 | 1,5 | ILWPL53040EP |
| ILWPZMON53 | ILWPL53060EK | 16 | 107 | 85 | 555 | 580 | 9 x 15 | 1,5 | ILWPL53060EP |
| ILWPZMON70 | ILWPL70060EK | 16 | 254 | 230 | 552 | 580 | 11 x 20 | 3,5 | ILWPL70060EP |

*Please contact us to select the optimal options or get further information at www.asahydraulik.com or support@asahydraulik.com .*

**Please read manual before installation!**