

BPHE

BRAZED PLATE
HEAT EXCHANGERS



BRAZED PLATE HEAT EXCHANGERS

Brazed plate heat exchangers are the perfect solution that allows to maintain high thermal performance at low operating costs.

Wide range of types, sizes, and numbers of plates and connections allows for optimizing the selection to particular application.

Copper or stainless brazing and the double wall option offer additional application possibilities. Brazed plate heat exchangers guarantee reliable, long-term operation.



WHY CHOOSE **HEXONIC** BRAZED PLATE HEAT EXCHANGERS?



HIGH PERFORMANCE

Heat exchangers are designed for very efficient operations within a wide range of applications. They guarantee compact and flexible solutions.



WIDE RANGE OF APPLICATIONS

Heat exchangers are used in central heating and domestic hot water systems, ventilation, technological and air-conditioning installations, as well as in heat pumps and ice water generators.



CERTIFICATES AND STANDARDS

Manufactured in accordance with ASME, UL, PED, EAC.



RELIABILITY

Advanced technology and high quality materials offer durability and reliability.



FLEXIBLE DESIGN

We offer 1- or 2-pass versions with a choice of different types of connections such as: dual (external thread / soldering), internal thread, Victaulic, stainless steel flange, carbon steel flange.



CAIRO EASY SELECTION

User-friendly CAIRO Selection Software makes the selection process easy.

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BRAZED PLATE HEAT EXCHANGERS

DEDICATED TO HEATING OR COOLING SYSTEMS.

APPLICATION



DOMESTIC HOT
WATER SYSTEMS



CENTRAL HEATING
SYSTEMS



SOLAR
AND GEOTHERMIC
HEATING SYSTEMS



INSTALLATIONS
WITH HEAT PUMP



INSTALLATIONS
WITH FIREPLACE
WITH WATER JACKET

ADVANTAGES



HIGH HEAT TRANSFER
COEFFICIENT



EASY ASSEMBLY
AND DISMANTLE



COMPACT SIZE



RESISTANCE TO
HIGH TEMPERATURE
AND PRESSURE





MICROCHANNEL BRAZED
PLATE HEAT EXCHANGER

8%
↑

**INCREASE OF HEAT EXCHANGE
EFFICIENCY BY UP TO 8%**
COMPARING TO OTHER COMPETITIVE
MICROCHANNEL HEAT EXCHANGERS

9%
↓

**REDUCTION OF FLOW
RESISTANCE BY UP TO 9%**
COMPARING TO THE MOST
EFFICIENT MICROCHANNEL HEAT
EXCHANGER ON THE MARKET

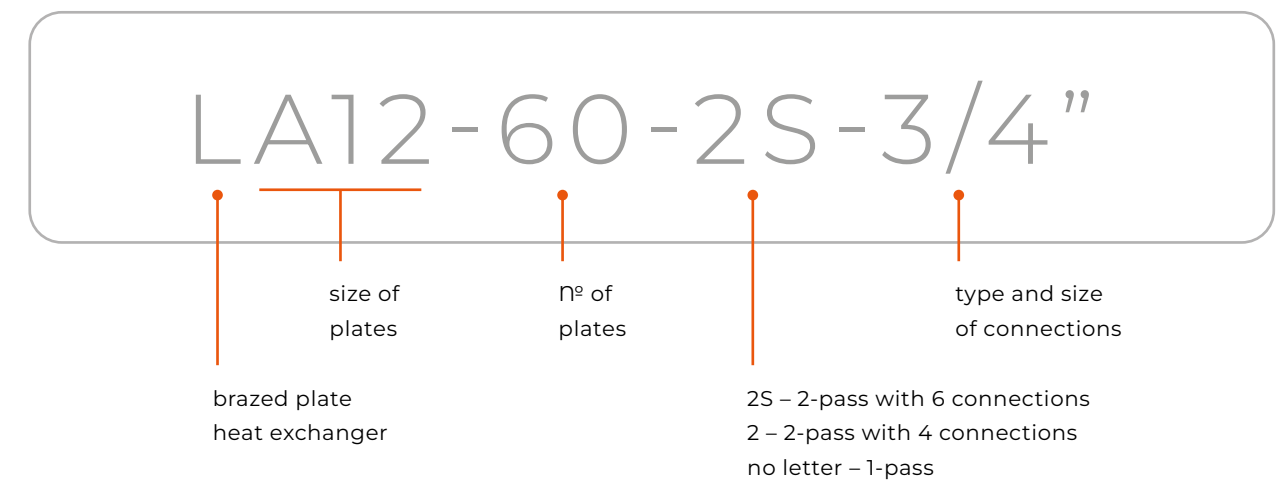
35%
↑

**INCREASE OF HEAT EXCHANGE
EFFICIENCY BY 35%**
COMPARING TO EXCHANGERS
WITH STANDARD HEAT PLATES

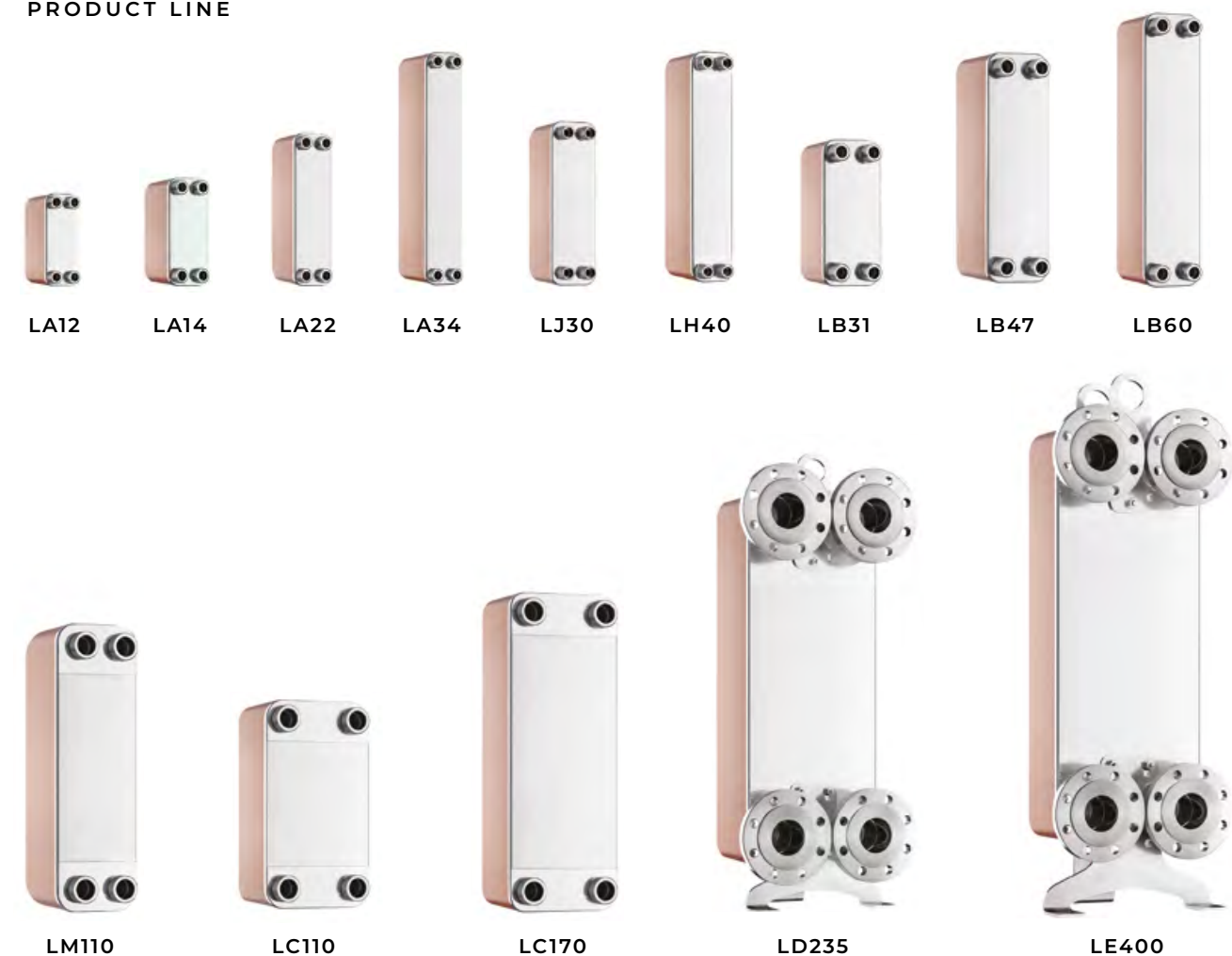


**HIGHER FLOW TURBULENCE
ENHANCES HEAT EXCHANGE**
THANKS TO OPTIMIZATION
OF FLOW VELOCITY

EXEMPLAR DESIGNATION



PRODUCT LINE



TECHNICAL DATA

STANDARD LOCATION OF CONNECTIONS

1-PASS HEAT EXCHANGER

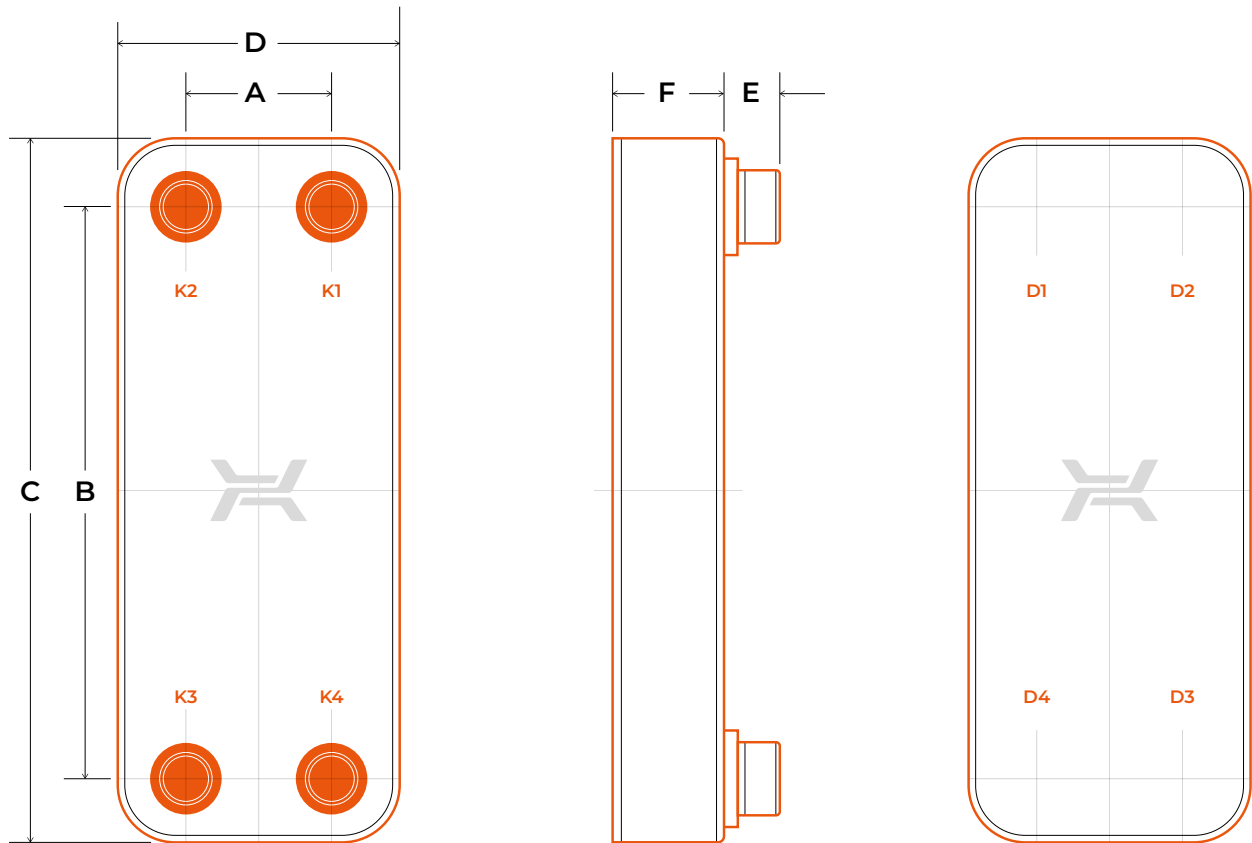
- K1 / K4 — inlet/outlet hot side
- K3 / K2 — inlet/outlet cold side

2-PASS HEAT EXCHANGER

- D4 / K4 — inlet/outlet hot side
- K3 / D3 — inlet/outlet cold side

2-PASS WITH 6 CONNECTIONS
ADDITIONALLY:

- K1 — vent connection / inlet of central heating return
- K2 — vent connection / inlet of domestic hot water circulation return



MATERIALS

- STAINLESS STEEL
- COPPER BRAZING

EXEMPLARY MEDIA

- WATER
- PROPYLENE GLYCOL SOLUTIONS
- GROUP II FLUIDS
- OTHER (CONSULT THE MANUFACTURER)

WORKING PARAMETERS

MAX. TEMPERATURE — 230°C / 446°F
LJ — 160°C / 320°F

MIN. TEMPERATURE — -195°C / -319°F
FOR FLANGE CS — 0°C / 32°F

MAX. PRESSURE
LA, LB, LH — 3 MPA / 435 PSI
LM, LC, LD, LE — 2,5 MPA / 363 PSI
LJ — 1,6 MPA / 232 PSI

TECHNICAL PARAMETERS

Type	Dimensions												max nº of plates	Mass		
	A		B		C		D		E		F			kg	lb	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in				
LA12	40	1.6	154	6.1	190	7.5	72	2.8	16/20	0.6/0.8	9 + 2,45 × NP	0.35 + 0.10 × NP	60	0,4 + 0,049 × NP	0.88 + 0.11 × NP	
LA14	42	1.7	164	6.5	203	8.0	81	3.2	16/20	0.6/0.8	9 + 2,30 × NP	0.35 + 0.09 × NP	60	0,6 + 0,049 × NP	1.32 + 0.11 × NP	
LA22	42	1.7	260	10.2	299	11.8	81	3.2	16/20	0.6/0.8	9 + 2,30 × NP	0.35 + 0.09 × NP	60	0,8 + 0,073 × NP	1.76 + 0.16 × NP	
LA34	42	1.7	432	17.0	471	18.5	81	3.2	16/20	0.6/0.8	9 + 2,30 × NP	0.35 + 0.09 × NP	60	1,2 + 0,116 × NP	2.65 + 0.26 × NP	
LJ30	46	1.8	270	10.6	318	12.5	98	3.9	20	0.8	9 + 1,70 × NP.	0.35 + 0.07 × NP	60	1,1 + 0,064 × NP	2.43 + 0.14 × NP	
LH40	43	1.7	415	16.3	461	18.1	89	3.5	28	1.1	10 + 2,25 × NP	0.39 + 0.09 × NP.	60	1,7 + 0,134 × NP	3.75 + 0.30 × NP	
LB31	68	2.7	232	9.1	286	11.3	123	4.8	28	1.1	10 + 2,35 × NP	0.39 + 0.09 × NP	150	1,6 + 0,114 × NP	3.53 + 0.25 × NP	
LB47	68	2.7	360	14.2	417	16.4	123	4.8	28	1.1	10 + 2,35 × NP	0.39 + 0.09 × NP	150	2,1 + 0,168 × NP	4.63 + 0.37 × NP	
LB60	68	2.7	480	18.9	538	21.2	123	4.8	28	1.1	10 + 2,35 × NP	0.39 + 0.09 × NP	150	2,6 + 0,219 × NP	5.73 + 0.48 × NP	
LM110	91	3.6	520	20.5	619	24.4	190	7.5	48	1.9	10 + 2,60 × NP	0.39 + 0.10 × NP	200	8,4 + 0,408 × NP	18.52 + 0.90 × NP	
LC110	170	6.7	378	14.9	466	18.4	258	10.2	28/38; 100	1.1/1.5; 3.9	11 + 2,40 × NP	0.43 + 0.09 × NP	200	8,7 + 0,408 × NP	19.18 + 0.90 × NP	
LC170	170	6.7	600	23.6	688	27.1	258	10.2	28/38; 100	1.1/1.5; 3.9	11 + 2,40 × NP	0.43 + 0.09 × NP	200	11,5 + 0,617 × NP	25.35 + 1.36 × NP	
LD235	204	8.0	682	26.9	788	31.0	310	12.2	100	3.9	13 + 2,5 × NP	0.51 + 0.10 × NP	280	40 + 0,828 × NP	88.18 + 1.83 × NP	
LE400	240	9.5	861	33.9	1008	39.7	387	15.2	93	3.7	17 + 2,75 × NP	0.67 + 0.11 × NP	400	74,3 + 1,625 × NP	163.80 + 3.58 × NP	

NP – number of plates | dim. F+/-3%
All dimensions and technical data are approximate only and may be changed without further notice.