

SafePLATE

DOUBLE WALL HEAT EXCHANGERS

DESIGNED FOR APPLICATIONS WHERE IT IS CRUCIAL TO DOUBLE-PROTECT MEDIA FROM MIXING AND QUICKLY DETECT ANY POTENTIAL INTERNAL LEAK.

APPLICATION



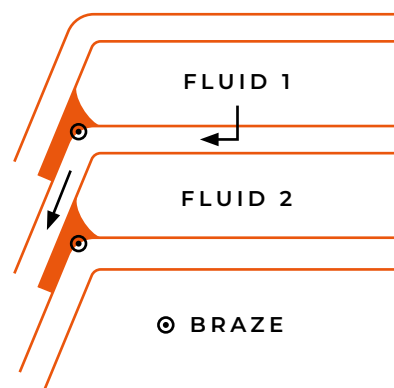
TAP WATER
HEATING SYSTEMS



CENTRAL
HEATING SYSTEMS



TECHNOLOGICAL
SYSTEMS



DOUBLE-WALL SYSTEM

In case of failure, either corrosion or pressure induced, special arrangement of double walls and interspace in sidewalls helps to prevent potential mixing of working media and allows the leakage to be visually detected.

ADVANTAGES



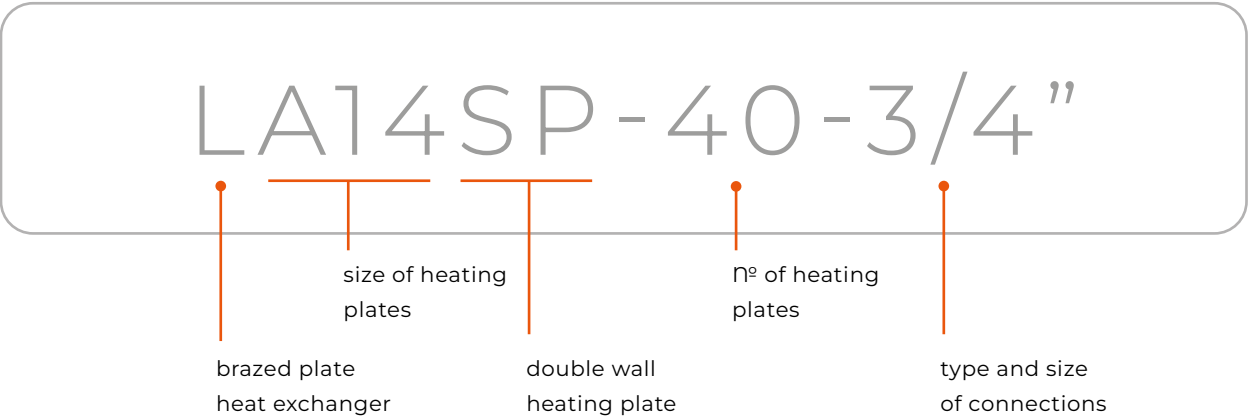
EFFECTIVE LEAK DETECTION



HELPS TO PREVENT POTENTIAL
MIXING OF WORKING MEDIA



EXEMPLAR DESIGNATION



PRODUCT LINE



TECHNICAL DATA

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

MIN. TEMPERATURE — -195°C / -319°F

MAX. PRESSURE

LA SP, LB SP

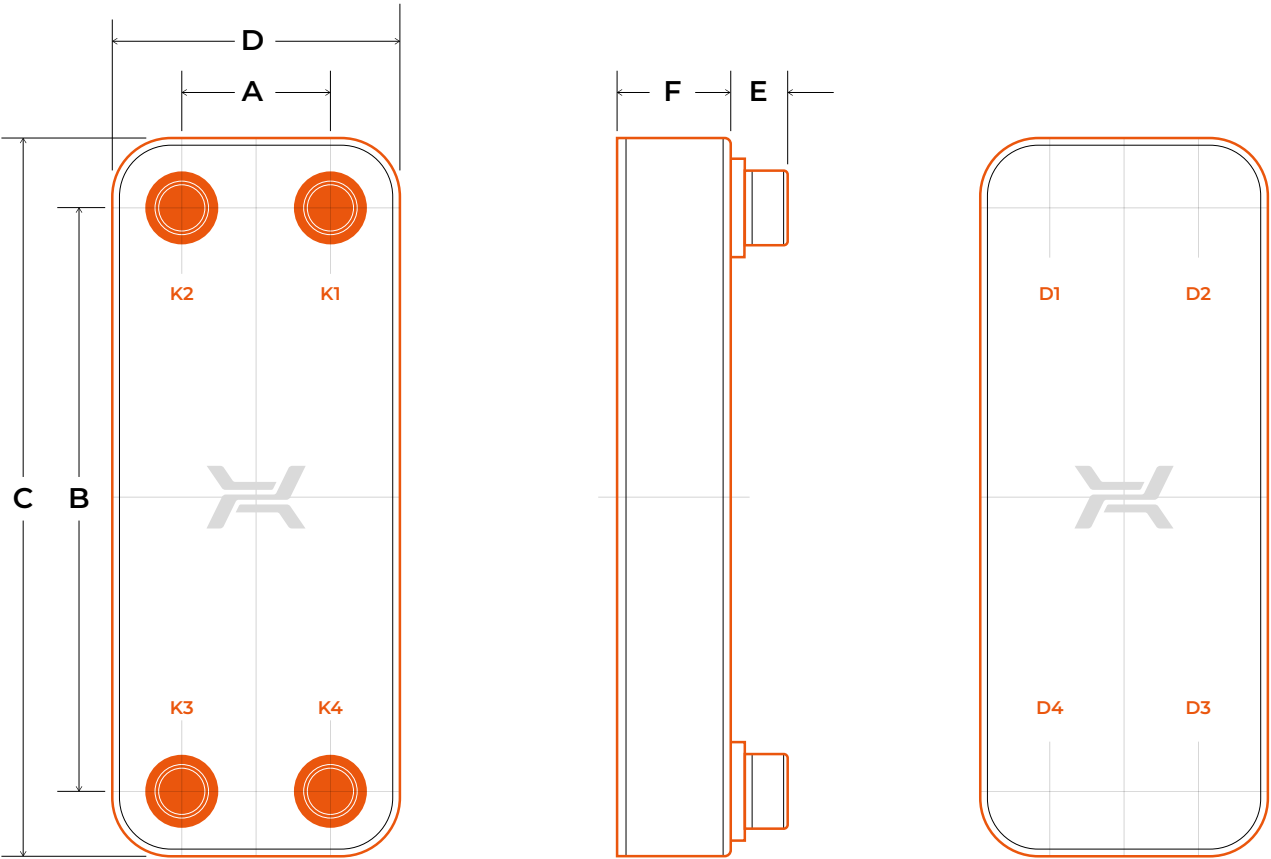
— 3 MPA / 435 PSI

LC SP

— 2 MPA / 290 PSI

STANDARD LOCATION OF CONNECTIONS

K1 / K4 — inlet / outlet hot side K1 / K4 — inlet / outlet hot side



Double-wall heat exchangers have been designed to prevent media from mixing and enable quick leak detection. However, it should be remembered that no heat exchangers of this type guarantee the reliability of such operation and cannot be used instead of other safety systems.

TECHNICAL PARAMETERS

Type	Dimensions												max N° of plates	Mass		
	A		B		C		D		E		F					
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	
LA14SP	42	1.7	164	6.5	203	8.0	81	3.2	16	0.6	9 + 2,5 × NP	0.35 + 0.1 × NP	40	0,6 + 0,064 × NP	1.32 + 0.14 × NP	
LB31SP	68	2.7	232	9.1	286	11.3	123	4.8	28	1.1	10 + 2,5 × NP	0.39 + 0.1 × NP	100	1,6 + 0,114 × NP	3.53 + 0.25 × NP	
LB60SP	68	2.7	480	18.9	538	21.2	123	4.8	28	1.1	10 + 2,5 × NP	0.39 + 0.1 × NP	100	2,6 + 0,247 × NP	5.73 + 0.54 × NP	
LC110SP	170	6.7	378	14.9	466	18.3	258	10.2	28	1.1	11 + 2,5 × NP	0.43 + 0.1 × NP	150	8,7 + 0,777 × NP	19.18 + 1.71 × NP	

NP – number of plates | dim. F+/-3%

All dimensions and technical data are approximate only and may be changed without further notice.

TYPE AND SIZE OF CONNECTIONS

L	Luna	R	Safe PLATE	Connections										
				3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	DN50	DN80	DN100
LA12					⊙⊙	⊙⊙	⊙⊙							
LA14	LA14LN	RVA14	RCA14	LA14SP	⊙⊙⊕	⊙⊙⊕	⊙⊙⊕							
LA22	LA22LN	RVA22	RCA22		⊙⊙⊕	⊙⊙⊕	⊙⊙⊕							
LA34	LA34LN	RVA34	RCA34		⊙⊙⊕	⊙⊙⊕	⊙⊙⊕							
LJ30							⊙⊙	⊙						
LH40							⊙⊙	⊙						
LB31	LB31LN	RVB31	RCB31	LB31SP			⊙⊙△⊕	⊙⊙△⊕	⊙⊙△⊕	△⊕				
LB47	LB47LN	RVB47	RCB47				⊙⊙△⊕	⊙⊙△⊕	⊙⊙△⊕	△⊕				
LB60	LB60LN	RVB60	RCB60	LB60SP			⊙⊙△⊕	⊙⊙△⊕	⊙⊙△⊕	△⊕				
LM110	LM110LN	RVM110	RCM110							⊙⊕				
LC110	LC110LN	RVC110	RCC110	LC110SP			⊙⊕	⊙⊙△⊕	⊙⊙△⊕	⊙△⊕	⊙△⊕	⊕⊕		
LC170	LC170LN	RVC170	RCC170				⊙⊕	⊙⊙△⊕	⊙⊙△⊕	⊙△⊕	⊙△⊕	⊕⊕		
LD235	LD235LN	RVD235	RCD235										⊕⊕	
LE400														⊕

- ⊙ internal thread
- △ Victaulic
- ⊕ welded connection for R heat exchangers
- ⊙ dual (external thread and soldering)
- ⊕ flange

MOUNTING BRACKETS

MOUNTING BRACKETS ARE MANUFACTURED USING STAINLESS STEEL OR CARBON ZINC-PLATED STEEL



INSULATION

INSULATION MADE OF POLYURETHANE FOAM COVERED WITH ALUMINIUM (APFI)

- MAX. WORKING TEMPERATURE: 135°C / 275°F
- THICKNESS: 30 MM / 1.18 IN
- THERMAL CONDUCTIVITY: 0,026 W/MK / 0.015 BTU/FT. HOUR°F



INSULATION MADE OF EXPANDED POLYPROPYLENE (EPPI) WITH ALUMINIUM (APFI)

- MAX. WORKING TEMPERATURE: 110°C / 230°F
- THICKNESS: 28 MM / 1.10 IN
- THERMAL CONDUCTIVITY: 0,035 W/MK / 0.020 BTU/FT. HOUR°F



COLD INSULATION FOR R-LINE HEAT EXCHANGERS

- WORKING TEMPERATURE RANGE: -40°C TO 110°C / -40°F TO 230°F
- THICKNESS: 20 MM / 0.787 IN
- THERMAL CONDUCTIVITY: 0,037 W/MK / 0.021 BTU/FT. HOUR°F

