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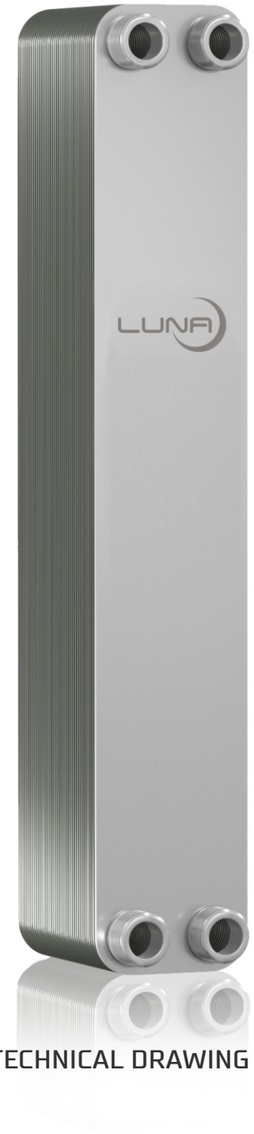
LUNA

stainless
brazed plate heat exchanger

LUNA heat exchangers are stainless brazed plate heat exchangers. Due to stainless brazing the construction is resistant to pressure and temperature changes as well as corrosion. Moreover, the exchanger reaches high level of hygiene and therefore can be used in heating and refrigerating systems with high hygienic standards.
Thanks to its unique construction LUNA has wide range of applications and high durability. There are many connection types to be chosen as well as one- or two-pass variants.



APPLICATION

WHEN HIGH LEVEL OF HYGIENE IS CRUCIAL
- cooling systems with high hygienic standards
- tap water heating systems

WHEN RELIABILITY IS ESSENTIAL
- central heating systems
- systems with aggressive media
- systems with galvanized pipes
- industrial cooling systems
- hydraulic oil cooling

CONSTRUCTION

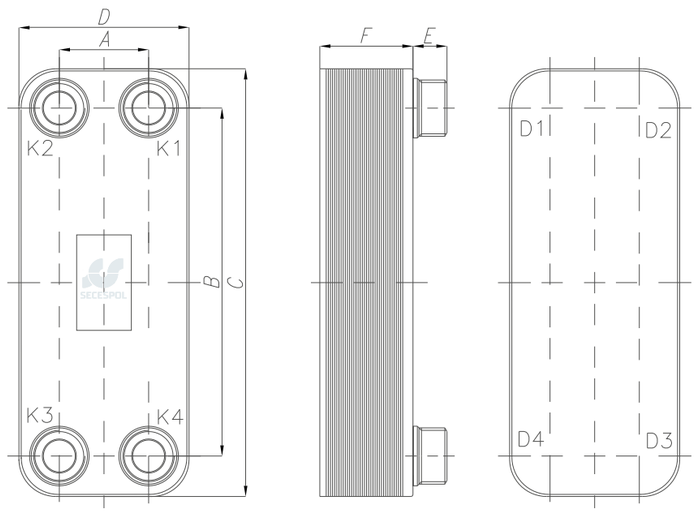
Made completely of stainless materials LUNA brazed plate heat exchangers are counter current flow devices. Heat exchange area is created by stainless steel corrugated plates brazed together with stainless brazing as a non-dismountable unit. Media flow is arranged so that the two media go through channels formed by every other heating plate. Connections, threaded or flanged, are placed in cover plates.

TECHNICAL DRAWING

Standard location of connections – one-pass:
K1/K4 – inlet/outlet hot side
K3/K2 – inlet/outlet cold side

Standard location of connections – two-pass:
D4/K4 – inlet/outlet hot side
K3/D3 – inlet/outlet cold side

two-pass with 6 connections:
K1 – vent connection/ inlet of central heating return
K2 – vent connection/ inlet of tap water heating circulation return



TECHNICAL PARAMETERS

Type	Dimensions mm / inch						Max. no of plates	Weight kg / lb
	A	B	C	D	E	F		
LA12LN	40 / 1.6	154 / 6.1	190 / 7.5	72 / 2.8	16 / 0.6	9+2.3*NP / 0.35+0.09*NP	60	0.5+0.04*NP / 1.1+0.09*NP
LA14LN	42 / 1.7	164 / 6.5	203 / 8.0	81 / 3.2	16 / 0.6	9+2.3*NP / 0.35+0.09*NP	60	0.6+0.05*NP / 1.3+0.11*NP
LA22LN	42 / 1.7	260 / 10.2	299 / 11.8	81 / 3.2	16 / 0.6	9+2.3*NP / 0.35+0.09*NP	60	0.7+0.07*NP / 1.5+0.15*NP
LA34LN	42 / 1.7	432 / 17.0	471 / 18.5	81 / 3.2	16 / 0.6	9+2.3*NP / 0.35+0.09*NP	60	0.9+0.11*NP / 2.0+0.24*NP
LB31LN	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	1.2+0.11*NP / 2.6+0.24*NP
LB47LN	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	1.7+0.16*NP / 3.7+0.35*NP
LB60LN	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	2.2+0.2*NP / 4.8+0.44*NP
LC110LN	170 / 6.7	378 / 14.9	466 / 18.4	258 / 10.2	28; 100 / 1.1; 3.9	11+2.4*NP / 0.43+0.09*NP	180	6.7+0.44*NP / 14.9+1.0*NP
LC170LN	170 / 6.7	600 / 23.6	688 / 27.1	258 / 10.2	28; 100 / 1.1; 3.9	11+2.4*NP / 0.43+0.09*NP	180	9.3+0.65*NP / 20.5+1.2*NP
LD235LN	204 / 8.0	682 / 26.9	788 / 31.0	310 / 12.2	100 / 3.9	13+2.45*NP / 0.51+0.1*NP	180	15.2+0.85*NP / 33.5+1.79*NP

dim. F+/-3% NP - number of plates

WORKING PARAMETERS

- max. temp.:	200°C	392°F
- min. temp.:	-195°C / 0°C (for flange CS)	-319°F / 32°F (for flange CS)
- max. pressure:	LA LN, LB LN: 2 MPa	LA LN, LB LN: 290PSI
	LC LN, LD LN: 1,6 MPa	LC LN, LD LN: 232 PSI

FLOW TYPES:

1 - one-pass
2 - two-pass with 4 connections
2S - two-pass with 6 connections

MATERIALS

- stainless steel
- stainless brazing

MEDIA

- water
- air
- aggressive media
- other

INSULATION

Two part insulation for LUNA is made of polyurethane foam covered with aluminium (APFI). Parts are fastened with latch clamps.

Working parameters:

- max. working temperature:	135 °C / 275°F
- thickness:	30 mm / 1.19 in
- thermal conductivity:	0,024 W/mK
	0.0139 Btu/ft. hour °F

TYPES AND SIZE OF CONNECTIONS

Type	thread SS	flange CS or SS
LA12LN	3/4"	
LA14LN	3/4"	
LA22LN	3/4"	
LA34LN	3/4"	
LB31LN	1"; 5/4"	
LB47LN	1"; 5/4"	
LB60LN	1"; 5/4"	
LC110LN	2"; 5/2"	DN50/2"
LC170LN	2"; 5/2"	DN50/2"
LD235LN		DN80/3"

SS – stainless steel CS – carbon steel