

LC110

BRAZED PLATE HEAT EXCHANGER



CHARACTERISTICS

L-line heat exchangers are copper or nickel brazed exchangers dedicated to standard heating or cooling installations of liquid-liquid type. Special corrugation pattern of the plates ensures compromise between low flow resistance and high heat exchange efficiency. Vacuum furnace technology ensures integrity and permanent fusion of plates which enables the unit to withstand high-pressure and high-temperature conditions. It is an ideal solution for domestic heating systems, heat substations, boilers or water jacket fireplaces. There are many connection types to be chosen as well as one- or two-pass variants.

APPLICATION

L-line heat exchangers find their application in pumped domestic hot water and central heating systems. They can also be applied in HVAC and other technological systems where water, air or other inert liquid or gas is used as a medium. In close circuit treated water should be used whereas in open circuit water purifying devices such as a magnetizer should be installed.

CONSTRUCTION

L-line brazed plate heat exchangers are counter current flow devices. Heat exchange area is created by stainless steel corrugated plates brazed together with copper or nickel. The channels formed between the corrugated plates are arranged so that the two media flow through the alternative channels. There are connections placed in cover plates for inflow and outflow of the media. Heat exchangers are manufactured using stainless steel as non-dismantable units.

TECHNICAL DATA

Max. pressure	25 bar	363 PSI
Max. temp.	230° C	446° F
Min. temp.	-195° C (for SS); 0° C (for CS)	-319° F (for SS); 32° F (for CS)° F
Max. no. of plates	200	
Weight	4,3+0,39* NP kg	9,48+0,86* NP. lb
Type and material of connections	thread ss; flange cs or ss	
Connection size	2"; 2,5"; DN50	
Type	1; 2; 2S	
Plate material	austenitic stainless steel	
Capacity of one channel	0,162 l	0,043 gal
Max flow for water **	32,5 m ³ / h	0,043 gal/ h
Braze material	copper, nickel	

The above data are accurate for copper braze.

** - flow rate for max. no. of plates

Legend:

1 - one-pass

2 - two-pass with 4 connections

2S - two-pass with 6 connections

SS - stainless steel

CS - carbon steel

EXEMPLAR DESIGNATION

L C110- 200- 2S- DN50. SS

L	C110-	200-	2S-	DN50.	SS	material of flanges - for LC and LD only (SS-stainless steel, CS- carbon steel)
						type and size of connections
						2S - two-pass with 6 connections 2 - two-pass with 4 connections no letter - one-pass
						no. of heating plates
						size of heating plate
						brazed plate heat exchanger

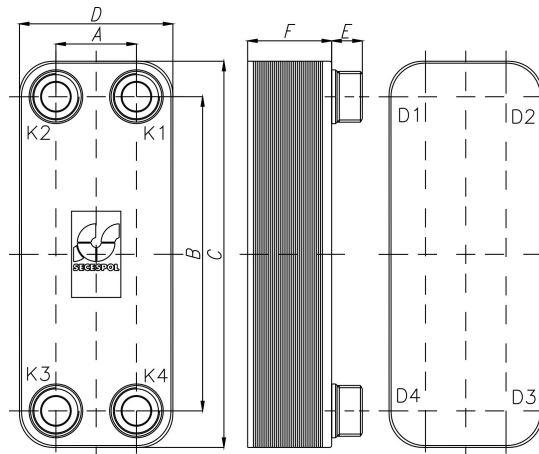
DRAWING AND BASIC DIMENSIONS

Standard location of connections – one-pass

Inlet hot side	K1
Outlet hot side	K4
Inlet cold side	K3
Outlet cold side	K2

Standard location of connections – two-pass

Inlet hot side	D4
Outlet hot side	K4
Inlet cold side	K3
Outlet cold side	D3



ACCESSORIES

Mounting brackets

L-line heat exchangers can be equipped with mounting brackets which allow easier setting of a heat exchanger to a floor or frame.

Insulation

Double part insulation for L-line is manufactured using aluminium covered polyurethane foam (APFI). Parts are fastened with latch clamps.

Working parameters:

- ▮ max. working temperature: +135 °C
- ▮ thickness: 30 mm
- ▮ thermal conductivity: 0,024 W/mK

Dimensions

	A	B	C	D	E	F
[mm]	170	378	463	255	28; 100	10+2,4*NP
[inch]	6,69	14,88	18,23	10,04	3,94	0,39+0,094*NP.

NP - no. of heating plates

Attn.:

Accessories are not supplied with the exchanger, they need to be ordered separately.