

LB31

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	30 bar	435 PSI
Max. temp.	230°C	446°F
Min. temp.	-195°C	-319°F
Max. no. of plates	150	
Weight	1,9±0,12*NP kg	4,19±0,26*NP. lb
Type and material of connections	Thread SS	
Connection size	1"; 5/4"	
Type	1; 2; 2S	
Plate material	austenitic stainless steel	
Capacity of one channel	0,047 l	0,012 gal
Max flow for water **	12,8 m ³ /h	0,012 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

