

L-Line Plate-To-Plate Heat Exchangers



Plates and Connections:

- AISI 316L Stainless Steel

Brazing Material:

- Copper, Single Wall Plates.
- Working Pressure up to 481 PSI.
- Working Temperature up to 445° F



**Not for
Steam**



**CAUTION:
NOT FOR USE
WITH SWIMMING
POOLS!**

Typical Applications:

- Central Heating
- Hydronic Heating
- Solar and Geothermic Heating
- Industrial Process Heat Recovery
- Condensers and Evaporators in Refrigeration Systems
- Oil Coolers
- Close Approach Fluid - To - Fluid Heat Transfer

**Made in
POLAND**



**To choose a heat exchanger for your specific application,
or for help with sizing, please call our office.**



SINGLE WALL

Model #:	Dimensions	Connections	LIST PRICE
LA14-10	L. 7.6in W. 3.1in	3/4" MPT	\$183.60
LA14-20	L. 7.6in W. 3.1in	3/4" MPT	\$220.80
LA14-30	L. 7.6in W. 3.1in	3/4" MPT	\$258.00
LA14-40	L. 7.6in W. 3.1in	3/4" MPT	\$294.00
LB31-10XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$283.08
LB31-20XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$378.46
LB31-30XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$461.54
LB31-40XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$566.15
LB31-50XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$645.52
LB31-60XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$746.67
LB31-70XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$838.52
LB31-80XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$961.20
LB31-90XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$1,052.40
LB31-100XJ	L. 12.0in W. 5.0in	1" MPT OD 3/4" Solder ID •	\$1,144.80
LC110-1-5/8	2"NPT to 1-5/8" Refrigerant Insert for LC 110X2J connections		\$22.23 Each
LC110-30X2J	L. 20.9in W. 9.8in	2" MPT	\$1,450.80
LC110-40X2J	L. 20.9in W. 9.8in	2" MPT	\$1,779.60
LC110-50X2J	L. 20.9in W. 9.8in	2" MPT	\$2,112.00
LC110-60X2J	L. 20.9in W. 9.8in	2" MPT	\$2,439.60
LC110-70H	L. 20.9in W. 9.8in	2-1/2" MPT	\$2,769.60

- These are nominal copper ID's. These will fit standard copper pipe.
Many Other Sizes Available as a Special Order.

Please Call For Sizing and Price!



Brazed Plate Heat Exchangers



Advantages of Brazed Plate Heat Exchangers

- high heat transfer coefficient
- small unit size with high heat transfer capacity
- high resistance to pressure and temperature fluctuations
- cost efficiency
- stainless steel connections
- easy installation

Brazed plate heat exchangers consist of stainless steel plate packs, which have embossed chevron patterns. The plates are turned 180° to each other, causing the plate ridges to intersect, and creating a lattice of intersecting channels. The fluids can flow in counter-current or co-current way.

The entire construction is sealed together by the means of brazing in a special vacuum furnace.

Special corrugation patterns promotes high turbulence flow.

Turbulence dramatically improves heat transfer rates and reduces the amount of deposits inside the unit.



Flow Chanel Diagram in Heat Exchanger



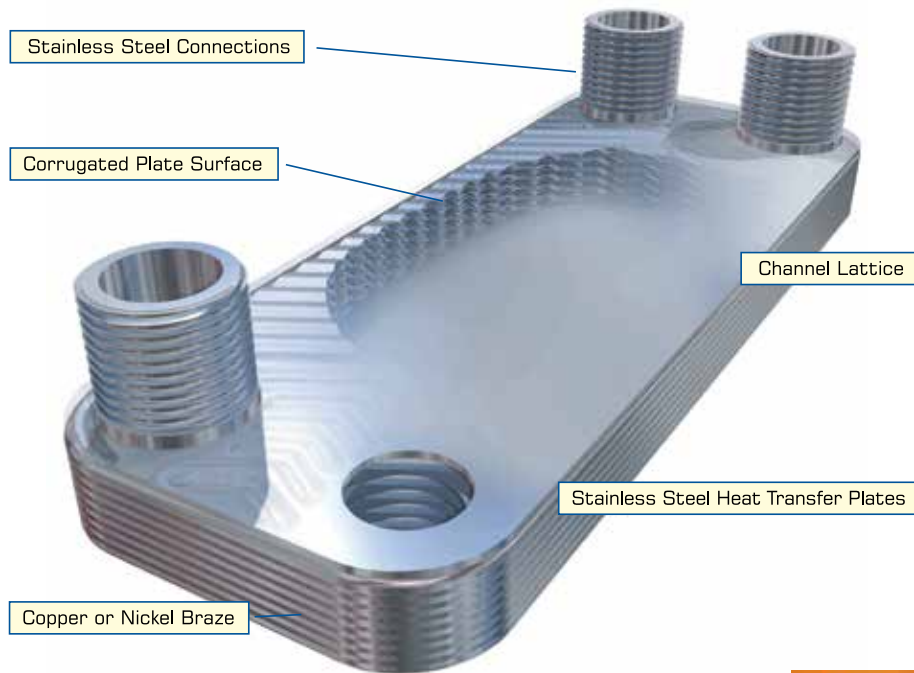
one-pass - channels are parallel.



multi-pass - system of channels is divided into groups which are connected in series.

By changing number of plates, geometry of plates, pattern of plate corrugation and channel diagrams we can custom design heat exchangers for individual needs of the customers.

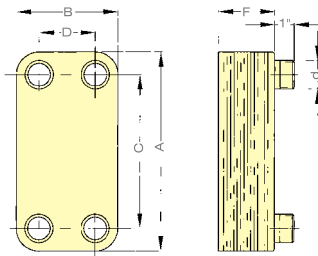




Applications:

- Central Heating
- Hydronic Heating
- Solar and Geothermal Heating
- Industrial Process Heat Recovery
- Condensers and Evaporators in Refrigeration Systems
- Oil Coolers
- Close Approach Fluid-To-Fluid Heat Transfer





Technical Parameters

Heat Exchanger Type	Dimensions mm (in)					Plate Area m ² (sq.ft)	Chanel Volume L (USGPM)	Maximum Flow L/min (GPM)	Maximum Number of Plate	Weight (empty) kg (lb)
	A	B	C	D	F					
LA 14	194 (7.6)	80 (3.1)	154 (6.1)	40 (1.6)	10.0 + 2.3NP (0.39 + 0.09NP)	0.012 (0.13)	0.021 (0.005)	110 (29)	80	0.8 + 0.05NP (1.8 + 0.10NP)
LA 22	300 (11.8)	79 (3.1)	260 (10.2)	42 (1.7)	9.0 + 2.3NP (0.36 + 0.09NP)	0.022 (0.24)	0.034 (0.009)	68 (18)	80	1.1 + 0.09NP (2.4 + 0.20NP)
LB 22	183 (7.2)	122 (4.8)	130 (5.1)	68 (2.7)	9.0 + 2.3NP (0.36 + 0.09NP)	0.022 (0.24)	0.034 (0.009)	68 (18)	80	1.2 + 0.09NP (2.6 + 0.20NP)
LB 31	306 (12.0)	126 (5.0)	250 (9.8)	70 (2.8)	12.4 + 2.4NP (0.49 + 0.09NP)	0.032 (0.34)	0.054 (0.014)	290 (77)	150	2.2 + 0.16NP (4.8 + 0.35NP)
LB 47	414 (16.3)	122 (4.8)	360 (14.2)	68 (2.7)	9.0 + 2.3NP (0.36 + 0.09NP)	0.047 (0.51)	0.072 (0.019)	190 (50)	150	2.1 + 0.18NP (4.6 + 0.40NP)
LB 60	506 (19.9)	126 (5.0)	444 (17.5)	64 (2.5)	12.4 + 2.4NP (0.49 + 0.09NP)	0.058 (0.62)	0.097 (0.026)	240 (63)	150	3.6 + 0.25NP (7.9 + 0.55NP)
LC 110X	530 (20.9)	248 (9.8)	456 (17.9)	174 (6.9)	13.0 + 2.4NP (0.51 + 0.09NP)	0.113 (1.22)	0.196 (0.052)	450 (119)	200	7.2 + 0.52NP (15.8 + 1.14NP)
LC 110Y	523 (20.6)	241 (9.5)	430 (16.9)	148 (5.8)	13.4 + 2.8NP (0.53 + 0.11NP)	0.104 (1.12)	0.216 (0.057)	700 (185)	200	7.2 + 0.55NP (15.8 + 1.21NP)
LC 110Z	523 (20.6)	241 (9.5)	430 (16.9)	148 (5.8)	13.4 + 2.8NP (0.53 + 0.11NP)	0.104 (1.12)	0.216 (0.057)	900 (238)	200	7.3 + 0.55NP (15.9 + 1.21NP)

NP - number of plates

Standard Construction:

- Plates & Connections: AISI 316
- Brazing Material: Copper (Optional - Nickel)
- Single Wall Plates (Optional - Double-Wall)

Design Parameters:

- Working Pressure up to 481 PSI
- Working Temperature up to 445°F

Standard Connections

Heat Exchanger Type	Solder	Threaded NPT
	d* (in)	d (in)
LA 14	7/8"	3/4"
LA 22	7/8"	3/4"
LB 22	1-1/8"	1"
LB 31	1-1/8"	1"
LB 47	1-1/8"	1"
LB 60	1-1/8"	1"
LC 110X	1-5/8"	1-1/2"
LC 110Y	1-5/8"	2 1/2"
LC 110Z	1-5/8"	3"

* inner diameter of connection





L-Line Double Wall Plate-To-Plate Heat Exchangers



Plates and Connections:

- ANSI 316 Stainless Steel

Brazing Material:

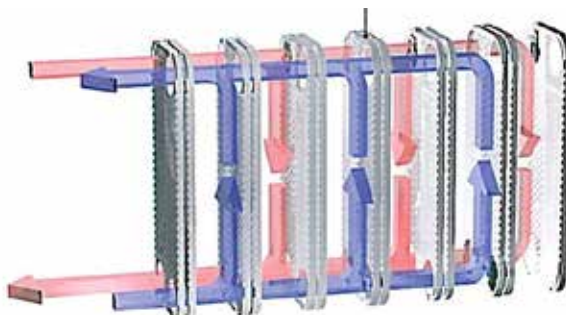
- Double Wall Plates.
- Working Pressure up to 481 PSI
- Working Temperature up to 445° F

Typical Applications:

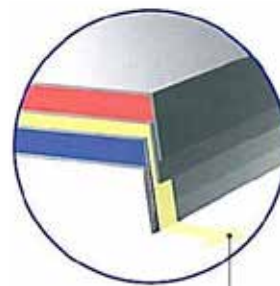
- Potable Water Heating
- Domestic Hot Water Heating
- Suitable for any stringent applications and regulations that require double wall, vented heat exchangers.



**Not for
Steam**



Double walls allow leaks to be visually detected without cross contaminating the fluid streams.



Leaks escape into the atmosphere through the airgap between the double walls.

**CAUTION:
NOT FOR USE
WITH SWIMMING
POOLS!**

**Made in
POLAND**



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L-Line Double Wall Plate-To-Plate Heat Exchangers

DOUBLE WALL

Model #:	Dimensions	Connections	LIST PRICE
LA14-10DWR	L. 7.6in W. 3.1in	3/4" MPT	\$469.24
LA14-20DWR	L. 7.6in W. 3.1in	3/4" MPT	\$614.48
LA14-30DWR	L. 7.6in W. 3.1in	3/4" MPT	\$794.48
LA14-40DWR	L. 7.6in W. 3.1in	3/4" MPT	\$1,091.17
LB31-10DWR	L. 12.0in W. 5.0in	1" MPT / 3/4" Solder ID •	\$707.59
LB31-20DWR	L. 12.0in W. 5.0in	1" MPT / 3/4" Solder ID •	\$1,082.40
LB31-30DWR	L. 12.0in W. 5.0in	1" MPT / 3/4" Solder ID •	\$1,474.80
LB31-40DWR	L. 12.0in W. 5.0in	1" MPT / 3/4" Solder ID •	\$1,977.52
LB31-50DWR	L. 12.0in W. 5.0in	1" MPT / 3/4" Solder ID •	\$2,356.80
LB31-60DWR	L. 12.0in W. 5.0in	1" MPT / 3/4" Solder ID •	\$2,749.20
LC110-30DWRB	L. 18.2in W. 10in	2-1/2" MPT OD / 2" solder ID •	\$3,438.00
LC110-40DWRB	L. 18.2in W. 10in	2-1/2" MPT OD / 2" solder ID •	\$4,267.20
LC110-50DWRB	L. 18.2in W. 10in	2-1/2" MPT OD / 2" solder ID •	\$5,202.00
LC110-60DWRB	L. 18.2in W. 10in	2-1/2" MPT OD / 2" solder ID •	\$6,039.60
LC110X-70DWRB	L. 18.2in W. 10in	2-1/2" MPT OD / 2" solder ID •	\$6,973.20
LC110X-80DWRB	L. 18.2in W. 10in	2-1/2" MPT OD / 2" solder ID •	\$7,854.00

- These are nominal copper ID's. These will fit standard copper pipe.
Many Other Sizes Available as a Special Order.

Please Call For Sizing and Price!

Connection size and style may vary.

Special corrugation patterns promote highly turbulent flow. Turbulence dramatically improves heat transfer rates and reduces the amount of deposits inside the unit.

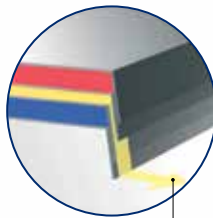


Advantages of AIC Double Wall Brazed Plate Heat Exchangers

- visual leak detection
- prevents fluid cross-contamination
- high thermal efficiency
- compact design
- strong, durable stainless steel construction
- quick and easy installation

The design of the double wall brazed plate heat exchanger prevents cross contamination of fluid streams if there is an internal leak within the unit.

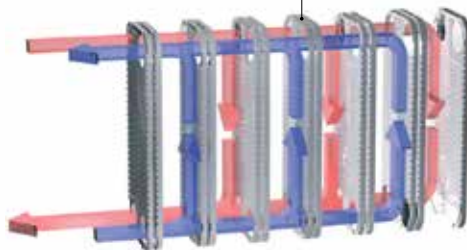
Two stainless steel plate walls separate the fluid streams, with an air gap in between. In the event of a leak, the affected fluid will flow into the air gap and escape out of the heat exchanger, enabling visual detection of the leak.

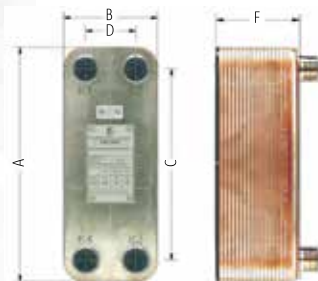


Leaks escape into the atmosphere through the air gap between the double walls.

Flow Channel Diagram in Double Wall Heat Exchanger

Double walls allow leaks to be visually detected without cross contaminating the fluid streams.





Technical Parameters

Model	Dimensions mm (in)					Plate Area m ² (sq.ft)	Channel Volume L (Gal)	Maximum Flow L/min (GPM)	Maximum Number of Plates	Weight (empty) kg (lb)
	A	B	C	D	F					
LA14 DW	201 (7.9)	79 (3.1)	165 (6.5)	43 (1.7)	7.62 + 2.36NP (0.30 + 0.093NP)	0.014 (0.15)	0.023 (0.006)	75 (20)	50	0.9 + 0.07NP (2.0 + 0.15NP)
LB31 DW	287 (11.3)	122 (4.8)	231 (9.1)	69 (2.7)	8.89 + 2.46NP (0.35 + 0.097NP)	0.030 (0.33)	0.045 (0.012)	220 (58)	80	1.3 + 0.14NP (2.9 + 0.30NP)
LC110 DW	462 (18.2)	254 (10.0)	378 (14.9)	170 (6.7)	12.7 + 2.03NP (0.50 + 0.08NP)	0.110 (1.18)	0.163 (0.043)	340 (90)	80	3.6 + 0.5NP (8.0 + 1.10NP)

NP - number of plates

Standard Construction

- Double Wall Plates
- Plate Material: ANSI 316
- Brazing Material: Copper

Design Parameters

- Working Temperature up to 445°F
- Working Pressure up to 481 PSI

AIC brazed plate heat exchangers consist of stainless steel plate packs, which have embossed chevron patterns. The plates are turned 180° to each other, causing the plate ridges to interact, and creating a lattice of intersecting channels. The fluids can flow in either a counter-current or a co-current direction.

Standard Connection Sizes

Heat Exchanger Type	Solder (in)*	Thread NPT (in)
LA14 DW	7/8"	3/4"
LB31 DW	1-1/8"	1"
LC110 DW	1-5/8"	1-1/2"

* inner diameter of connection

The entire construction is sealed together by means of brazing in a special vacuum furnace.



Applications:

- Potable Water Heating
- Domestic Hot Water Heating

Suitable for any stringent applications and regulations that require double wall, vented heat exchangers.

AIC heat exchangers are designed, manufactured, and tested to the strictest codes, and are certified by many national and international inspection authorities. We are a registered ISO-9001 company and are UL certified.

High Temp Boiler to Low Temp Radiant Floor Heating

Boiler side water (Supply) 180° F , (Return) 160° F					Radiant Floor Side (Supply) 120° F, (Return) 100° F				
			Pressure Drop PSI - (HP)					Pressure Drop PSI - (HP)	
Model #:	BTU/Hr	Flow GPM	PSI	Feet of Head	Flow GPM	PSI	Feet of Head	Inlet / outlet	Suggested pipe size
LA14-10	25,000	2.57	1	2.3	2.52	1.6	3.7	0.75	0.75
LA14-20	50,000	5.14	1.2	2.8	5.04	1.49	3.4	0.75	1
LA14-20	75,000	7.71	2.53	5.8	7.56	3.16	7.3	0.75	1
LA14-30	100,000	10.28	2.6	6	10.08	2.95	6.8	0.75	1.25
LA14-40	125,000	12.84	3	6.9	12.59	3.24	7.5	0.75	1.25
LB31-010XJ	25,000	2.57	1.03	2.4	2.52	1.72	4	1	1
LB31-020XJ	50,000	5.1	1.05	2.4	5	1.4	3.2	1	1
LB31-020XJ	75,000	7.65	2.2	5.1	7.56	2.9	6.7	1	1
LB31-030XJ	100,000	10.28	1.84	4.3	10.08	2.25	5.2	1	1.25
LB31-040XJ	125,000	12.84	1.72	4	12.59	2.01	4.6	1	1.25
LB31-040XJ	150,000	15.41	2.41	5.6	15.11	2.81	6.5	1	1.5
LB31-050XJ	175,000	17.98	2.26	5.2	17.63	2.57	5.9	1	1.5
LB31-050XJ	200,000	20.55	2.89	6.7	20.15	3.29	7.6	1	1.5
LB31-060XJ	225,000	23.12	2.76	6.4	22.67	3.08	7.1	1	1.5
LB31-060XJ	250,000	25.69	3.36	7.8	25.19	3.74	8.6	1	2
LC110-30X2J	200,000	20.55	1.97	4.55	20.07	1.85	4.27	2	2
LC110-30X2J	250,000	25.69	2.96	6.84	25.19	2.78	6.42	2	2
LC110-30X2J	300,000	30.83	4.13	9.54	30.10	3.88	8.96	2	2
LC110-40X2J	400,000	41.1	4.22	9.75	40.13	4.1	9.47	2	2
LC110-50X2J	500,000	51.38	4.43	10.23	50.17	4.38	10.12	2	2
LC110-60X2J	600,000	61.66	4.73	10.93	60.2	4.73	10.93	2	2
LC110-70H	1,000,000	102.76	3.65	8.43	100.33	3.67	8.48	2.5	3



Condensing Boiler to Radiant Floor Heating

Boiler side water (Supply) 180° F, (Return) 160° F					Radiant Floor Side (Supply) 120° F, (Return) 100° F				
			Pressure Drop PSI - (HP)					Pressure Drop PSI - (HP)	
Model #:	BTU/Hr	Flow GPM	PSI	Feet of Head	Flow GPM	PSI	Feet of Head	Inlet / outlet	Suggested pipe size
LA14-10	25,000	2.53	1.00	2.30	2.52	1.60	3.70	0.75	0.75
LA14-20	50,000	5.07	1.23	2.80	5.04	1.49	3.40	0.75	1.00
LA14-20	75,000	7.60	2.61	6.00	7.56	3.16	7.30	0.75	1.00
LA14-30	100,000	10.14	2.66	6.10	10.08	2.95	6.80	0.75	1.25
LA14-40	125,000	12.67	3.05	7.00	12.59	3.24	7.50	0.75	1.25
LB31-10XJ	25,000	2.53	1.07	2.50	2.52	1.72	4.00	1.00	1.00
LB31-20XJ	50,000	5.04	1.10	2.50	5.04	1.38	3.20	1.00	1.00
LB31-20XJ	75,000	7.60	2.30	5.30	7.56	2.90	6.70	1.00	1.00
LB31-30XJ	100,000	10.14	1.92	4.40	10.08	2.25	5.20	1.00	1.25
LB31-40XJ	125,000	12.67	1.79	4.10	12.59	2.01	4.60	1.00	1.25
LB31-40XJ	150,000	15.20	2.51	5.80	15.20	2.81	6.50	1.00	1.25
LB31-50XJ	175,000	17.74	2.35	5.40	17.63	2.57	5.90	1.00	1.50
LB31-50XJ	200,000	20.27	3.00	6.90	20.15	3.29	7.60	1.00	1.50
LB31-60XJ	225,000	22.81	2.86	6.60	22.67	3.08	7.10	1.00	1.50
LB31-60XJ	250,000	25.34	3.47	8.00	25.19	3.74	8.60	1.00	2.00
LC110-30X2J	200,000	20.27	2.05	4.73	20.07	1.85	4.27	2.00	2.00
LC110-30X2J	250,000	25.34	3.09	7.14	25.08	2.78	6.42	2.00	2.00
LC110-30X2J	300,000	30.41	4.31	9.95	30.10	3.88	8.96	2.00	2.00
LC110-40X2J	400,000	40.54	4.39	10.14	40.13	4.10	9.47	2.00	2.00
LC110-50X2J	500,000	50.68	4.59	10.61	50.17	4.38	10.12	2.00	2.00
LC110-60X2J	600,000	60.81	4.88	11.27	60.20	4.73	10.93	2.00	2.00
LC110-70H	1,000,000	101.36	3.76	8.69	100.33	3.67	8.48	2.50	2.50



LOW Temp to LOW Temp Radiant Floor Heating

Boiler side water (Supply) 120° F , (Return) 100° F					Radiant Floor Side (Supply) 100° F, (Return) 80° F				
			Pressure Drop PSI - (HP)					Pressure Drop PSI - (HP)	
Model #:	BTU/Hr	Flow GPM	PSI	Feet of Head	Flow GPM	PSI	Feet of Head	Inlet / outlet	Suggested pipe size
LA14-10	25,000	2.52	1.64	3.79	2.50	1.10	2.54	0.75	1.00
LA14-20	50,000	5.04	1.49	3.44	5.00	1.29	2.98	0.75	1.25
LA14-30	75,000	7.56	1.72	3.98	7.50	1.60	3.70	0.75	1.25
LA14-40	100,000	10.08	2.12	4.90	10.00	2.04	4.71	0.75	1.25
LB31-10XJ	25,000	2.52	1.55	3.58	2.50	1.03	2.38	1.00	1.00
LB31-20XJ	50,000	5.04	1.25	2.88	5.00	1.05	2.42	1.00	1.25
LB31-20XJ	75,000	7.56	2.61	6.03	7.50	2.20	5.08	1.00	1.25
LB31-30XJ	100,000	10.08	2.03	4.69	10.00	1.84	4.25	1.00	1.50
LB31-40XJ	125,000	12.59	1.83	4.22	12.50	1.72	3.97	1.00	1.50
LB31-50XJ	150,000	15.11	1.77	4.08	15.00	1.70	3.93	1.00	2.00

Radiant Heating (High Temp) Selections

Boiler side water (Supply) 180° F , (Return) 160° F					Radiant Floor Side (Supply) 170° F, (Return) 150° F				
			Pressure Drop PSI - (HP)					Pressure Drop PSI - (HP)	
Model #:	BTU/Hr	Flow GPM	PSI	Feet of Head	Flow GPM	PSI	Feet of Head	Inlet / outlet	Suggested pipe size
LA14-20	25,000	2.57	0.33	0.80	2.56	0.40	0.90	0.75	0.75
LA14-30	50,000	5.14	0.70	1.60	5.12	0.77	1.80	0.75	1.00
LA14-40	75,000	7.71	1.10	2.50	7.68	1.20	2.80	0.75	1.00
LB31-10XJ	25,000	2.57	1.03	2.40	2.56	1.92	4.40	1.00	1.00
LB31-20XJ	50,000	5.14	1.54	3.60	5.12	1.30	3.00	1.00	1.00
LB31-20XJ	75,000	7.71	2.25	5.20	7.68	2.73	6.30	1.00	1.00
LB31-30XJ	100,000	10.28	1.84	4.30	10.24	2.12	4.90	1.00	1.25
LB31-30XJ	125,000	12.84	2.77	6.40	12.80	3.19	7.40	1.00	1.25
LB31-40XJ	150,000	15.41	2.41	5.60	15.36	2.67	6.20	1.00	1.50
LB31-50XJ	175,000	17.98	3.20	7.40	17.92	3.54	8.20	1.00	1.50
LC110-30X2J	200,000	20.55	1.97	4.55	20.33	1.75	4.04	2.00	2.00
LC110-30X2J	300,000	30.83	4.13	9.54	30.50	3.67	8.48	2.00	2.00
LC110-40X2J	400,000	41.10	4.22	9.75	40.66	3.89	8.99	2.00	2.00
LC110-50X2J	500,000	51.38	4.43	10.23	50.83	4.18	9.65	2.00	2.00
LC110-60X2J	600,000	61.66	4.73	10.93	60.99	4.53	10.47	2.00	2.00
LC110-70H	750,000	77.07	2.13	4.92	76.24	2.06	4.76	2.00	2.00



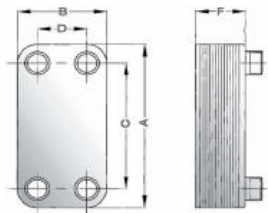
Snow Melt Selections

Boiler side water (Supply) 180° F, (Return) 160° F					Radiant Floor Side (Supply) 120° F, (Return) 100° F				
Model #:	BTU/Hr	Flow GPM	Pressure Drop PSI - (HP)		Flow GPM	Pressure Drop PSI - (HP)		Inlet / outlet	Suggested pipe size
			PSI	Feet of Head		PSI	Feet of Head		
LA14-10	25,000	2.57	1.00	2.30	2.79	2.60	6.00	0.75	0.75
LA14-20	50,000	5.14	1.19	2.70	5.58	2.29	5.30	0.75	1.00
LA14-30	75,000	7.71	1.51	3.50	8.36	2.55	5.90	0.75	1.00
LA14-40	100,000	10.28	1.96	4.50	11.15	3.04	7.00	0.75	1.25
LB31-10XJ	25,000	2.57	1.03	2.40	2.79	2.73	6.30	1.00	1.00
LB31-20XJ	50,000	5.14	1.05	2.40	5.58	2.19	5.10	1.00	1.00
LB31-30XJ	75,000	7.71	1.09	2.50	8.36	2.09	4.80	1.00	1.00
LB31-40XJ	100,000	10.28	1.14	2.60	11.15	2.09	4.80	1.00	1.25
LB31-40XJ	125,000	12.84	1.72	4.00	13.94	3.14	7.30	1.00	1.25
LB31-50XJ	150,000	15.41	1.70	3.90	16.73	2.98	6.90	1.00	1.25
LB31-50XJ	175,000	17.98	2.26	5.20	19.52	3.96	9.10	1.00	1.50
LB31-60XJ	200,000	20.55	2.22	5.10	22.30	3.77	8.70	1.00	1.50
LC110-30X2J	200,000	20.55	1.97	4.54	20.07	1.85	4.26	2.00	2.50
LC110-30X2J	300,000	30.83	4.13	9.54	30.10	3.88	8.97	2.00	2.50
LC110-40X2J	400,000	41.10	4.22	9.74	40.13	4.10	9.50	2.00	2.50
LC110-50X2J	500,000	51.38	4.43	10.23	50.17	4.38	10.12	2.00	2.50
LC110-60X2J	600,000	61.66	4.73	10.92	60.20	4.73	10.92	2.00	2.50

Domestic Heating (High Temp) Selections Double Wall

Boiler side water (Supply) 180° F, (Return) 160° F					Radiant Floor Side (Supply) 50° F, (Return) 120° F				
Model #:	BTU/Hr	Flow GPM	Pressure Drop PSI - (HP)		Flow GPM	Pressure Drop PSI - (HP)		Inlet / outlet	Suggested pipe size
			PSI	Feet of Head		PSI	Feet of Head		
LA14-10DWR	25	2.57	1.53	3.53	0.71	0.11	0.25	0.75	1.00
LA14-20DWR	50,000	5.14	1.41	3.26	1.43	0.13	0.30	0.75	1.00
LA14-20DWR	75,000	7.71	2.99	6.91	2.14	0.27	0.63	0.75	1.00
LB31-20DWR	75,000	7.71	2.11	4.88	2.14	0.20	0.46	1.00	1.00
LB31-20DWR	100,000	10.28	3.56	8.22	2.85	0.33	0.77	1.00	1.00
LB31-30DWR	150,000	15.41	3.58	8.27	4.28	0.35	0.81	1.00	1.25
LB31-40DWR	200,000	20.55	2.78	6.43	5.71	0.27	0.63	1.00	1.25
LC110-30DWR	300,000	30.83	2.87	6.63	8.56	0.29	0.67	2.50	2.50
LC110-30DWR	400,000	41.10	4.84	11.18	11.42	0.49	1.13	2.50	2.50
LC110-40DWR	500,000	51.38	4.18	9.66	14.27	0.43	0.99	2.50	2.50
LC110-50DWR	750,000	77.07	4.10	9.45	21.41	0.44	0.95	2.50	2.50





Refrigerant Fluid: R410A
Water in Secondary Circuit

EVAPORATOR SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31ES-10XJ	1	12,000
LB31ES-20XJ	2	24,000
LB60ES-20X5J	3	36,000
LB60ES-30X5J	5	60,000
LB60ES-50X5J	7.5	90,000
LC110ES-20X2J	10	120,000
LC110ES-30X2J	12.5	150,000
LC110ES-30X2J	15	180,000
LC110ES-50VX2J	20	240,000
LC110ES-60VX2J	25	300,000
LC110ES-70VX2J	30	360,000
LC110ES-110VX2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60ES-20x20-DCX5J	3+3	72,000
LB60ES-30x30-DCX5J	5+5	120,000
LB60ES-50x50-DCX5J	7.5+7.5	180,000
LC110ES-20x20-DCX2J	10+10	240,000
LC110ES-30x30-DCX2J	12.5+12.5	300,000
LC110ES-40x40-DCVX2J	15+15	360,000
LC110ES-50x50-DCVX2J	20+20	480,000

* VX... models available with distributor

CONDENSER SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31ES-10XJ	1	12,000
LB31ES-20XJ	2	24,000
LB60ES-20X5J	3	36,000
LB60ES-30X5J	5	60,000
LB60ES-40X5J	7.5	90,000
LC110ES-20X2J	10	120,000
LC110ES-30X2J	12.5	150,000
LC110ES-40X2J	15	180,000
LC110ES-50X2J	20	240,000
LC110ES-60X2J	25	300,000
LC110ES-70X2J	30	360,000
LC110ES-100X2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60ES-20x20-DCX5J	3+3	72,000
LB60ES-30x30-DCX5J	5+5	120,000
LB60ES-40x40-DCX5J	7.5+7.5	180,000
LC110ES-20x20-DCX2J	10+10	240,000
LC110ES-30x30-DCX2J	12.5+12.5	300,000
LC110ES-30x30-DCX2J	15+15	360,000
LC110ES-40x40-DCX2J	20+20	480,000

Heat Exchanger Type	Dimensions (in)					Dual Connections	
	A	B	C	D	F	NPT	Solder
LB31ES-XJ	12.0	5.0	9.8	2.8	0.47+0.09NP	1"	7/8"
LB60ES-X5J	20.0	5.0	17.5	2.5	0.60+0.09NP	1-1/2"	1-3/8"
LC110ES-X2J	20.9	9.8	17.9	6.9	0.57+0.09NP	2"	2"

NP = number of plates

Different Connection Options may be available from stock at time of order. Please consult AIC.

Standard Construction:

Heating Plates: AISI 316

Brazing Material: Copper (Optional-Nickel)

Single Wall Plates (Optional-Double Wall)

Design Parameters:

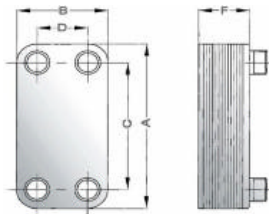
Working Pressure up to 650 PSI

Working Temperature up to 302° F

'ES' Models Required for high pressures

Standard Products are UL Listed
(ASME option- contact AIC for details)





Refrigerant Fluid: R22
Water in Secondary Circuit

EVAPORATOR
SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31-20XJ	1	12,000
LB31-30XJ	2	24,000
LB60-20X5J	3	36,000
LB60-30X5J	5	60,000
LB60-40X5J	7.5	90,000
LB60-60VX5J	10	120,000
LC110-40VX2J	12.5	150,000
LC110-50VX2J	15	180,000
LC110-60VX2J	20	240,000
LC110-80VX2J	25	300,000
LC110-100VX2J	30	360,000
LC110-130VX2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60-20x20-DCX5J	3+3	72,000
LB60-30x30-DCX5J	5+5	120,000
LB60-40x40-DCX5J	7.5+7.5	180,000
LC110-30x30-DCX2J	10+10	240,000
LC110-40x40-DCVX2J	12.5+12.5	300,000
LC110-50x50-DCVX2J	15+15	360,000
LC110-60x60-DCVX2J	20+20	480,000

CONDENSER
SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31-20XJ	1	12,000
LB31-30XJ	2	24,000
LB60-20X5J	3	36,000
LB60-30X5J	5	60,000
LB60-40X5J	7.5	90,000
LB60-60X5J	10	120,000
LC110-40X2J	12.5	150,000
LC110-50X2J	15	180,000
LC110-60X2J	20	240,000
LC110-80X2J	25	300,000
LC110-100X2J	30	360,000
LC110-130X2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60-20x20-DCX5J	3+3	72,000
LB60-30x30-DCX5J	5+5	120,000
LB60-40x40-DCX5J	7.5+7.5	180,000
LC110-30x30-DCX2J	10+10	240,000
LC110-40x40-DCX2J	12.5+12.5	300,000
LC110-50x50-DCX2J	15+15	360,000
LC110-60x60-DCX2J	20+20	480,000

* VX... models available with distributor

Heat Exchanger Type	Dimensions (in)					Dual Connections	
	A	B	C	D	F	NPT	Solder
LB31-XJ	12.0	5.0	9.8	2.8	0.39+0.09NP	1"	7/8"
LB60-X5J	20.0	5.0	17.5	2.5	0.39+0.09NP	1-1/2"	1-3/8"
LC110-X2J	20.9	9.8	17.9	6.9	0.45+0.09NP	2"	2"

NP = number of plates

Different Connection Options may be available from stock at time of order. Please consult AIC.

Standard Construction:

Heating Plates: AISI 316

Brazing Material: Copper (Optional-Nickel)

Single Wall Plates (Optional-Double Wall)

Design Parameters:

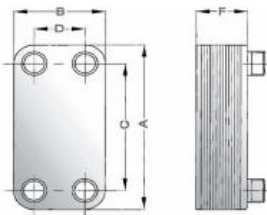
Working Pressure up to 435 PSI

Working Temperature up to 302° F

Standard Products are UL Listed

(ASME option- contact AIC for details)





Refrigerant Fluid: R134A
Water in Secondary Circuit

EVAPORATOR

SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31-20XJ	1	12,000
LB31-30XJ	2	24,000
LB60-20X5J	3	36,000
LB60-30X5J	5	60,000
LB60-50X5J	7.5	90,000
LC110-30X2J	10	120,000
LC110-40VX2J	12.5	150,000
LC110-50VX2J	15	180,000
LC110-70VX2J	20	240,000
LC110-90VX2J	25	300,000
LC110-110VX2J	30	360,000
LC110-180VX2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60-20x20-DCX5J	3+3	72,000
LB60-40x40-DCX5J	5+5	120,000
LB60-50x50-DCX5J	7.5+7.5	180,000
LC110-30x30-DCX2J	10+10	240,000
LC110-40x40-DCVX2J	12.5+12.5	300,000
LC110-50x50-DCVX2J	15+15	360,000
LC110-70x70-DCVX2J	20+20	480,000

* VX... models available with distributor

CONDENSER

SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31-20XJ	1	12,000
LB31-30XJ	2	24,000
LB60-20X5J	3	36,000
LB60-30X5J	5	60,000
LB60-40X5J	7.5	90,000
LC110-20X2J	10	120,000
LC110-30X2J	12.5	150,000
LC110-40X2J	15	180,000
LC110-50X2J	20	240,000
LC110-60X2J	25	300,000
LC110-70X2J	30	360,000
LC110-100X2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60-20x20-DCX5J	3+3	72,000
LB60-30x30-DCX5J	5+5	120,000
LB60-40x40-DCX5J	7.5+7.5	180,000
LC110-20x20-DCX2J	10+10	240,000
LC110-30x30-DCX2J	12.5+12.5	300,000
LC110-30x30-DCX2J	15+15	360,000
LC110-40x40-DCX2J	20+20	480,000

Heat Exchanger Type	Dimensions (in)					Dual Connections	
	A	B	C	D	F	NPT	Solder
LB31-XJ	12.0	5.0	9.8	2.8	0.39+0.09NP	1"	7/8"
LB60-X5J	20.0	5.0	17.5	2.5	0.39+0.09NP	1-1/2"	1-3/8"
LC110-X2J	20.9	9.8	17.9	6.9	0.45+0.09NP	2"	2"

NP = number of plates

Different Connection Options may be available from stock at time of order. Please consult AIC.

Standard Construction:

Heating Plates: AISI 316

Brazing Material: Copper (Optional-Nickel)

Single Wall Plates (Optional-Double Wall)

Design Parameters:

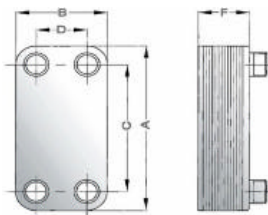
Working Pressure up to 435 PSI

Working Temperature up to 302° F

Standard Products are UL Listed

(ASME option- contact AIC for details)





Refrigerant Fluid: R407C
Water in Secondary Circuit

EVAPORATOR

SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31-10XJ	1	12,000
LB31-20XJ	2	24,000
LB60-20X5J	3	36,000
LB60-30X5J	5	60,000
LB60-40X5J	7.5	90,000
LC110-20X2J	10	120,000
LC110-30X2J	12.5	150,000
LC110-40VX2J	15	180,000
LC110-50VX2J	20	240,000
LC110-60VX2J	25	300,000
LC110-70VX2J	30	360,000
LC110-110VX2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60-20x20-DCX5J	3+3	72,000
LB60-30x30-DCX5J	5+5	120,000
LB60-40x40-DCX5J	7.5+7.5	180,000
LC110-20x20-DCX2J	10+10	240,000
LC110-30x30-DCX2J	12.5+12.5	300,000
LC110-40x40-DCVX2J	15+15	360,000
LC110-50x50-DCVX2J	20+20	480,000

* VX... models available with distributor

CONDENSER

SINGLE CIRCUIT

MODEL	RT	BTU/H
LB31-20XJ	1	12,000
LB31-40XJ	2	24,000
LB60-30X5J	3	36,000
LB60-40X5J	5	60,000
LC110-40X2J	7.5	90,000
LC110-50X2J	10	120,000
LC110-60X2J	12.5	150,000
LC110-70X2J	15	180,000
LC110-90X2J	20	240,000
LC110-110X2J	25	300,000
LC110-130X2J	30	360,000
LC110-180X2J	40	480,000

DUAL CIRCUIT

MODEL	RT	BTU/H
LB60-30x30-DCX5J	3+3	72,000
LB60-50x50-DCX5J	5+5	120,000
LC110-40x40-DCX2J	7.5+7.5	180,000
LC110-40x40-DCX2J	10+10	240,000
LC110-60x60-DCX2J	12.5+12.5	300,000
LC110-70x70-DCX2J	15+15	360,000
LC110-90x90-DCX2J	20+20	480,000

Heat Exchanger Type	Dimensions (in)					Dual Connections	
	A	B	C	D	F	NPT	Solder
LB31-XJ	12.0	5.0	9.8	2.8	0.39+0.09NP	1"	7/8"
LB60-X5J	20.0	5.0	17.5	2.5	0.39+0.09NP	1-1/2"	1-3/8"
LC110-X2J	20.9	9.8	17.9	6.9	0.45+0.09NP	2"	2"

NP = number of plates

Different Connection Options may be available from stock at time of order. Please consult AIC.

Standard Construction:

Heating Plates: AISI 316

Brazing Material: Copper (Optional-Nickel)

Single Wall Plates (Optional-Double Wall)

Design Parameters:

Working Pressure up to 435 PSI

Working Temperature up to 302° F

Standard Products are UL Listed

(ASME option- contact AIC for details)

