

BPHE

BRAZED PLATE
HEAT EXCHANGERS



BRAZED PLATE HEAT EXCHANGERS

Brazed plate heat exchangers are the perfect solution that allows to maintain high thermal performance at low operating costs.

Wide range of types, sizes, and numbers of plates and connections allows for optimizing the selection to particular application.

Copper or stainless brazing option offer additional application possibilities. Brazed plate heat exchangers guarantee reliable, long-term operation.



WHY CHOOSE **HEXONIC** BRAZED PLATE HEAT EXCHANGERS?



HIGH PERFORMANCE

Heat exchangers are designed for very efficient operations within a wide range of applications. They guarantee compact and flexible solutions.



WIDE RANGE OF APPLICATIONS

Heat exchangers are used in central heating and domestic hot water systems, ventilation, technological and air-conditioning installations, as well as in heat pumps and ice water generators.



CERTIFICATES AND STANDARDS

Manufactured in accordance with ASME, UL, PED, EAC.



RELIABILITY

Advanced technology and high quality materials offer durability and reliability.



FLEXIBLE DESIGN

We offer 1- or 2-pass versions with a choice of different types of connections such as: dual (external thread / soldering), internal thread, Victaulic, stainless steel flange, carbon steel flange.



CAIRO EASY SELECTION

User-friendly CAIRO Selection Software makes the selection process easy.

L

BRAZED PLATE HEAT EXCHANGERS

DEDICATED TO HEATING OR COOLING SYSTEMS.

APPLICATION



DOMESTIC HOT WATER SYSTEMS



CENTRAL HEATING SYSTEMS



SOLAR AND GEOTHERMIC HEATING SYSTEMS



INSTALLATIONS WITH HEAT PUMP



INSTALLATIONS WITH FIREPLACE WITH WATER JACKET

ADVANTAGES



HIGH HEAT TRANSFER COEFFICIENT



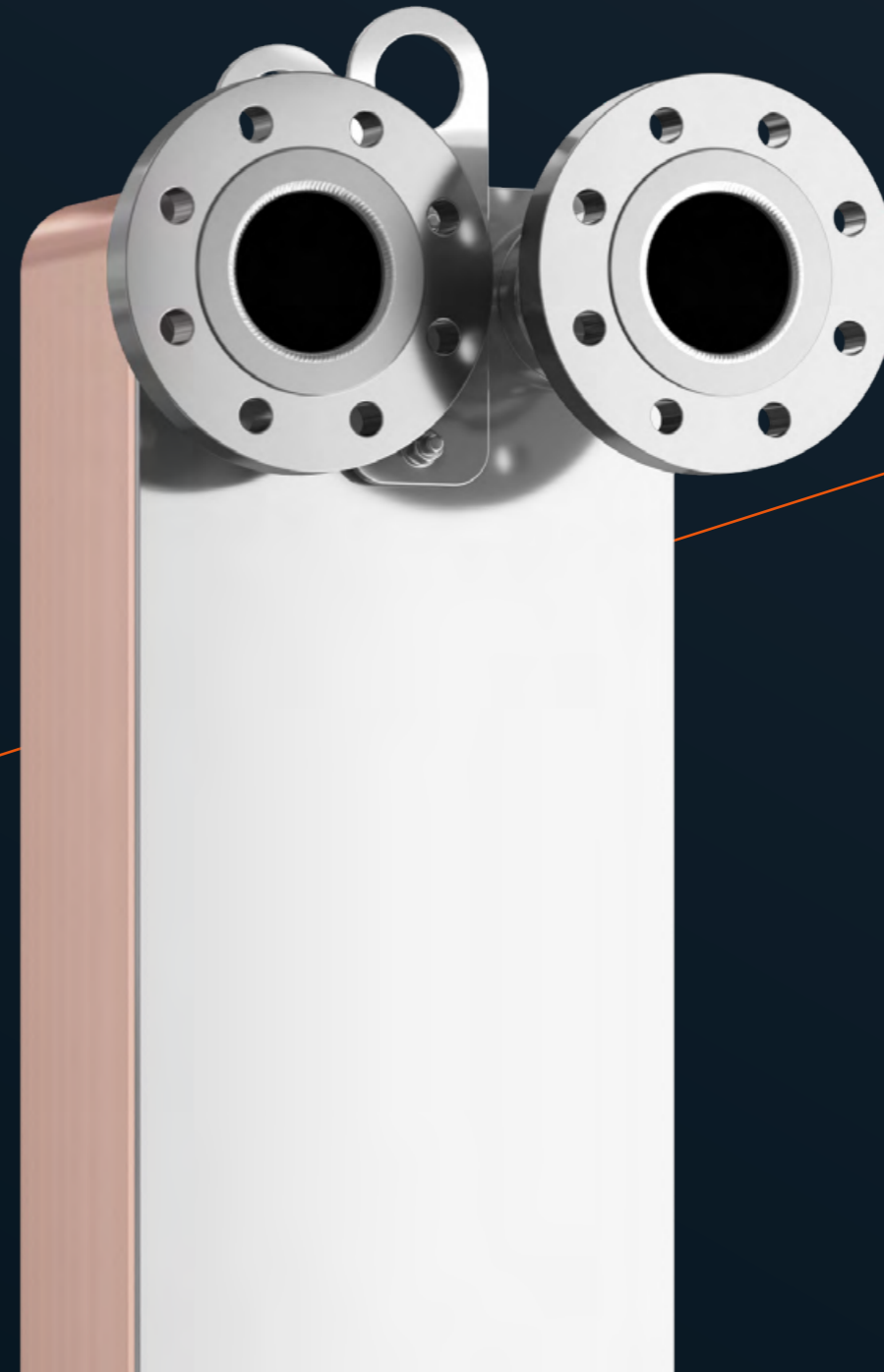
EASY ASSEMBLY AND DISMANTLE



COMPACT SIZE



RESISTANCE TO HIGH TEMPERATURE AND PRESSURE





MICROCHANNEL BRAZED
PLATE HEAT EXCHANGER

8%
↑

**INCREASE OF HEAT EXCHANGE
EFFICIENCY BY UP TO 8%**
COMPARING TO OTHER COMPETITIVE
MICROCHANNEL HEAT EXCHANGERS

9%
↓

**REDUCTION OF FLOW
RESISTANCE BY UP TO 9%**
COMPARING TO THE MOST
EFFICIENT MICROCHANNEL HEAT
EXCHANGER ON THE MARKET

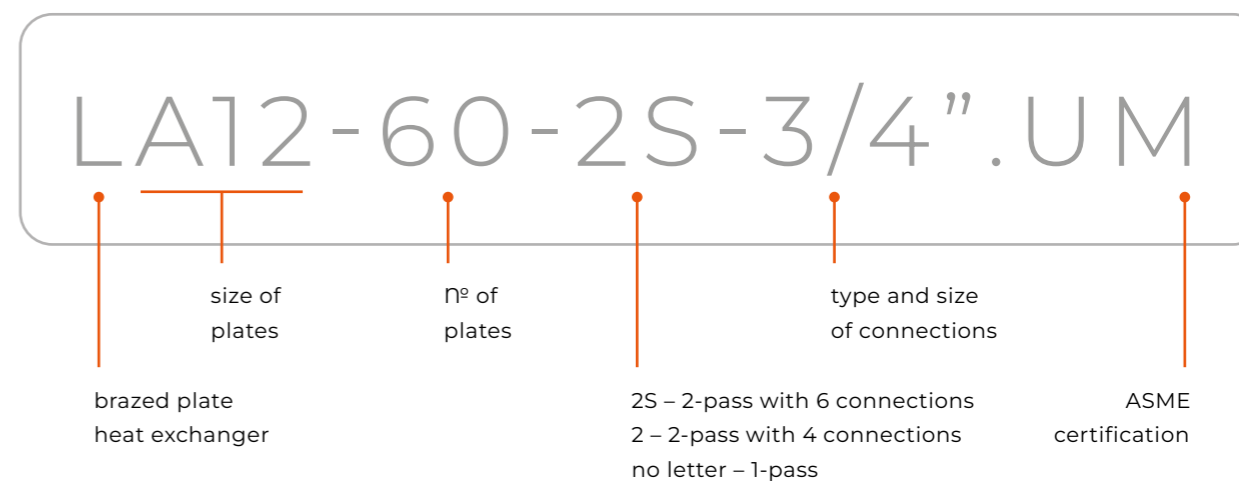
35%
↑

**INCREASE OF HEAT EXCHANGE
EFFICIENCY BY 35%**
COMPARING TO EXCHANGERS
WITH STANDARD HEAT PLATES



**HIGHER FLOW TURBULENCE
ENHANCES HEAT EXCHANGE**
THANKS TO OPTIMIZATION
OF FLOW VELOCITY

EXEMPLAR DESIGNATION



PRODUCT LINE



TECHNICAL DATA

STANDARD LOCATION OF CONNECTIONS

1-PASS HEAT EXCHANGER

- K1 / K4** — inlet / outlet hot side
- K3 / K2** — inlet / outlet cold side

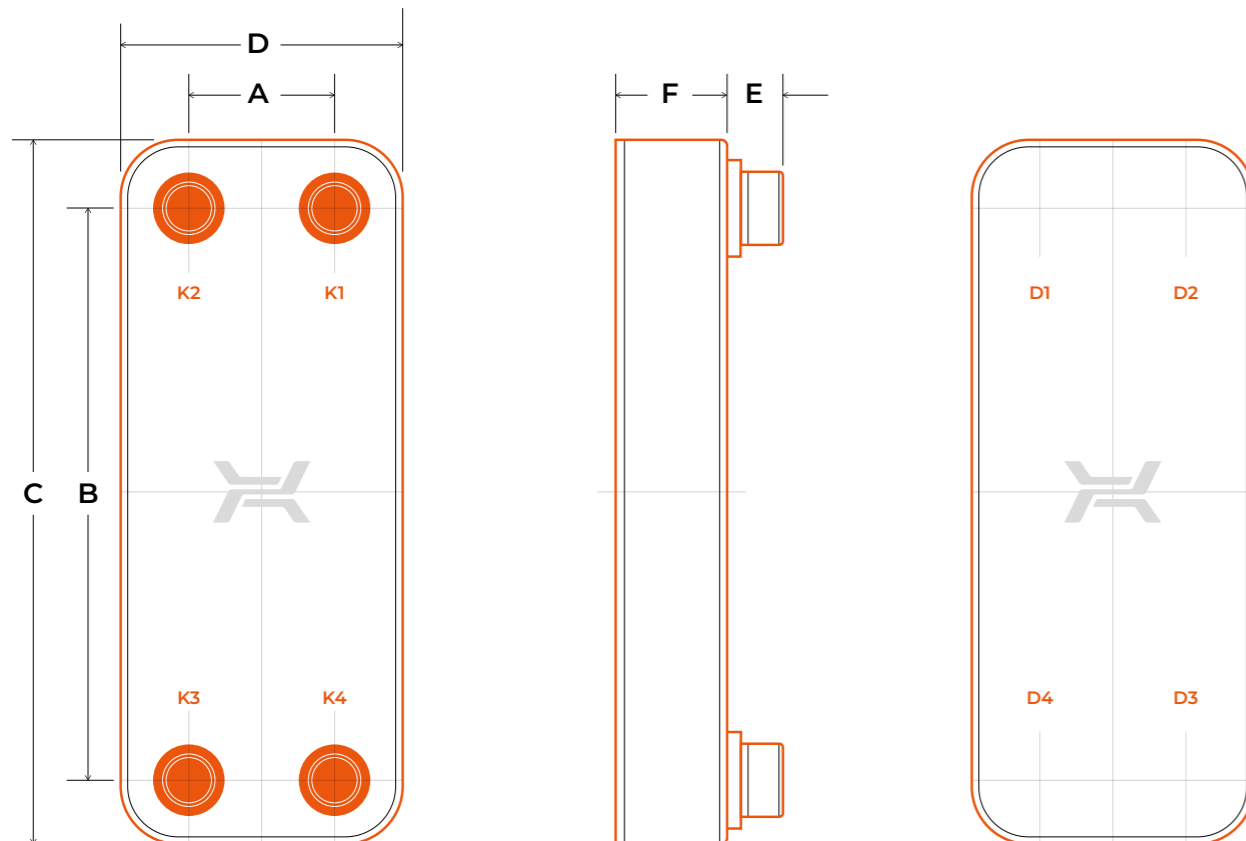
2-PASS HEAT EXCHANGER

- D4 / K4** — inlet / outlet hot side
- K3 / D3** — inlet / outlet cold side

2-PASS WITH 6 CONNECTIONS

ADDITIONALLY:

- K1** — vent connection / inlet of central heating return
- K2** — vent connection / inlet of domestic hot water circulation return



MATERIALS

- STAINLESS STEEL
- COPPER BRAZING

EXEMPLARY MEDIA

- WATER
- PROPYLENE GLYCOL SOLUTIONS
- OTHER (CONSULT THE MANUFACTURER)

WORKING PARAMETERS

MAX. TEMPERATURE — 445°F

MIN. TEMPERATURE — -150°F

MAX. PRESSURE

- LA, LB, LH — 435 PSI
- LM, LC, LD, LE — 362 PSI

TECHNICAL PARAMETERS

Type	Dimensions						Max N° of plates	Mass lb
	A	B	C	D	E	F		
	in	in	in	in	in	in		
LA14	1.65	6.46	7.95	3.15	0.63	0.35 + 0.09 × NP	60	0.6 + 0.049 × NP
LA22	1.65	10.24	11.81	3.15	0.63	0.35 + 0.09 × NP	60	0.8 + 0.073 × NP
LA34	1.65	17.01	18.46	3.15	0.63	0.35 + 0.09 × NP	60	1.2 + 0.116 × NP
LH40	1.69	16.34	18.23	3.50	1.10	0.35 + 0.09 × NP	60	3.75 + 0.30 × NP
LB31	2.68	9.13	11.26	4.61	1.10	0.39 + 0.09 × NP	150	1.6 + 0.114 × NP
LB47	2.68	14.17	16.30	4.61	1.10	0.39 + 0.09 × NP	150	2.1 + 0.168 × NP
LB60	2.68	18.90	21.20	4.61	1.10	0.39 + 0.09 × NP	150	2.6 + 0.219 × NP
LM110	3.58	20.47	24.37	7.48	1.89	0.39 + 0.1 × NP	200	8.4 + 0.408 × NP
LC110	6.69	14.88	18.23	10.04	1.50	0.39 + 0.09 × NP	200	9.6 + 0.408 × NP
LC170	6.69	23.62	26.97	10.04	1.50	0.39 + 0.09 × NP	200	12,3 + 0,617 × NP
LD235	8.03	26.85	30.87	12.04	4.72; 8.66	0.51 + 0.1 × NP	280	50.04 + 0,75 × NP
LE400	9.45	33.90	39.68	15.24	4.49; 8.43	0.67 + 0.11 × NP	400	94,6 + 1,625 × NP

NP – number of plates | dim. F+/-3%

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

LUNA

BRAZED PLATE HEAT EXCHANGERS
 ENTIRELY MADE OF STAINLESS
 MATERIALS DESIGNED TO MAINTAIN
 HIGH SANITARY STANDARDS.

APPLICATION

WHEN HIGH LEVEL
 OF HYGIENE IS CRUCIAL



SYSTEMS WITH
 DEMINERALIZED WATER



DOMESTIC HOT
 WATER SYSTEMS



COOLING SYSTEMS
 WITH HIGH HYGIENIC
 STANDARDS

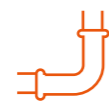
WHEN RELIABILITY
 IS ESSENTIAL



CENTRAL HEATING
 SYSTEMS



SYSTEMS WITH
 AGGRESSIVE MEDIA



SYSTEMS WITH
 GALVANIZED PIPES



INDUSTRIAL
 COOLING SYSTEMS



HYDRAULIC
 OIL COOLING

ADVANTAGES



STAINLESS BRAZING
 ALLOWS HOMOGENEOUS
 CONSTRUCTION



HIGH SANITARY
 STANDARDS



RESISTANCE
 TO HIGH TEMPERATURE
 AND PRESSURE



RESISTANCE
 TO CORROSION



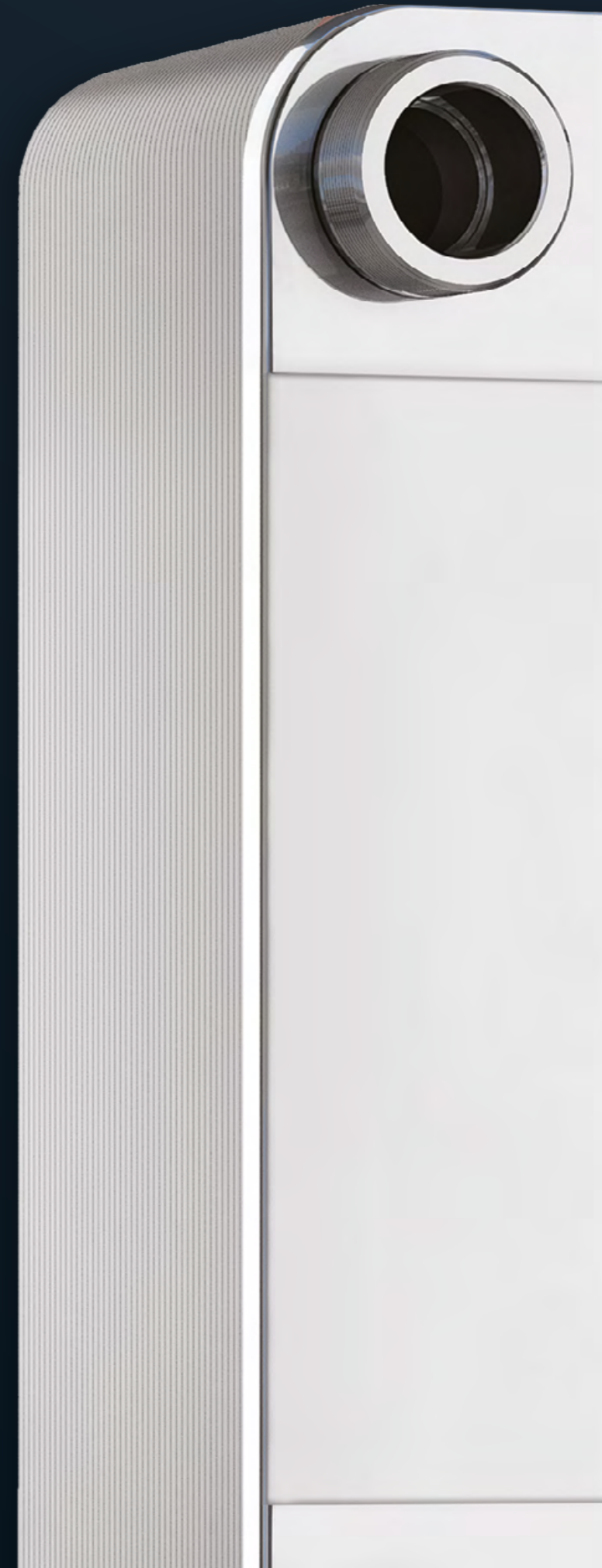
HIGH
 DURABILITY

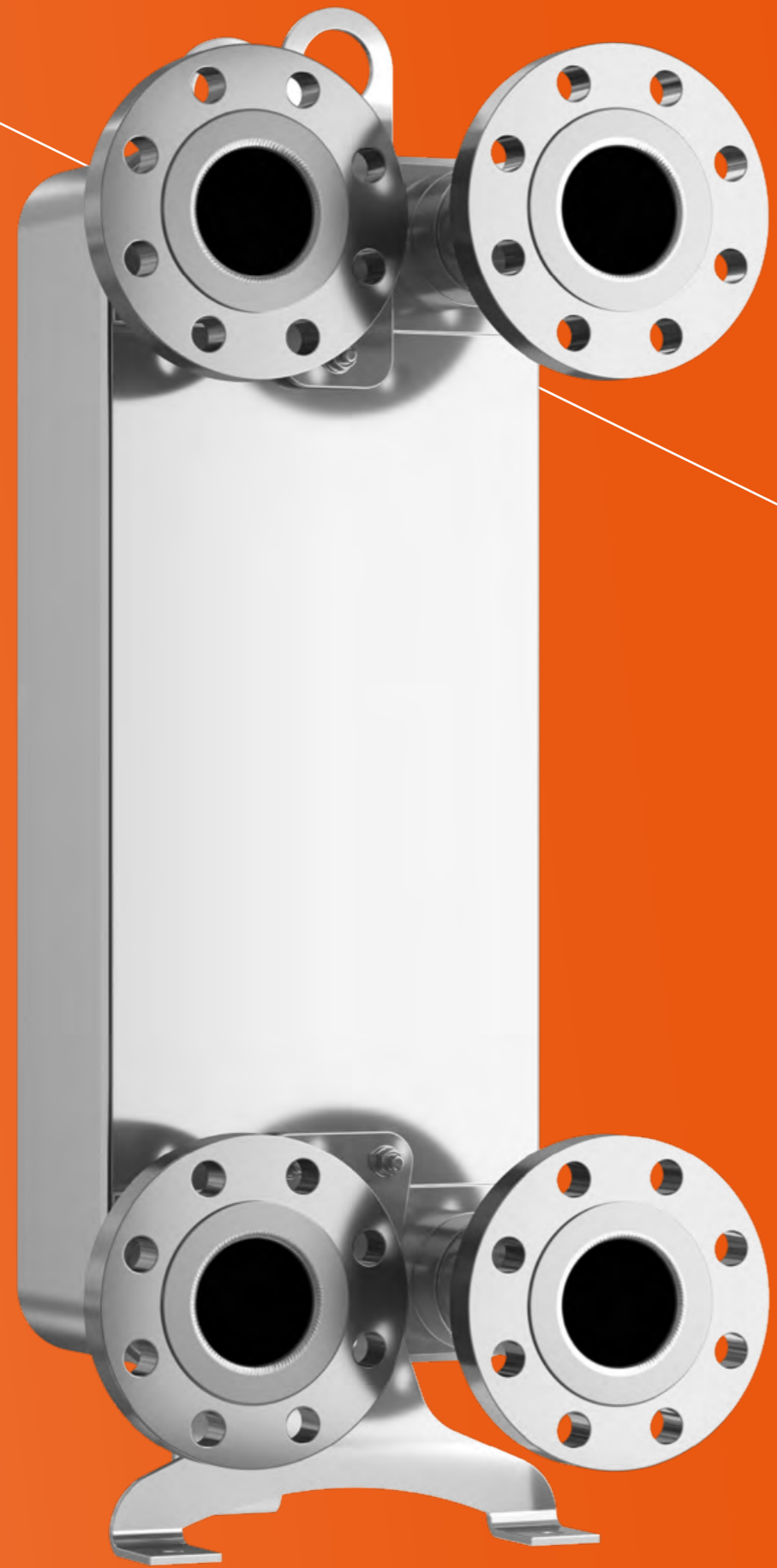


WIDE RANGE
 OF APPLICATIONS

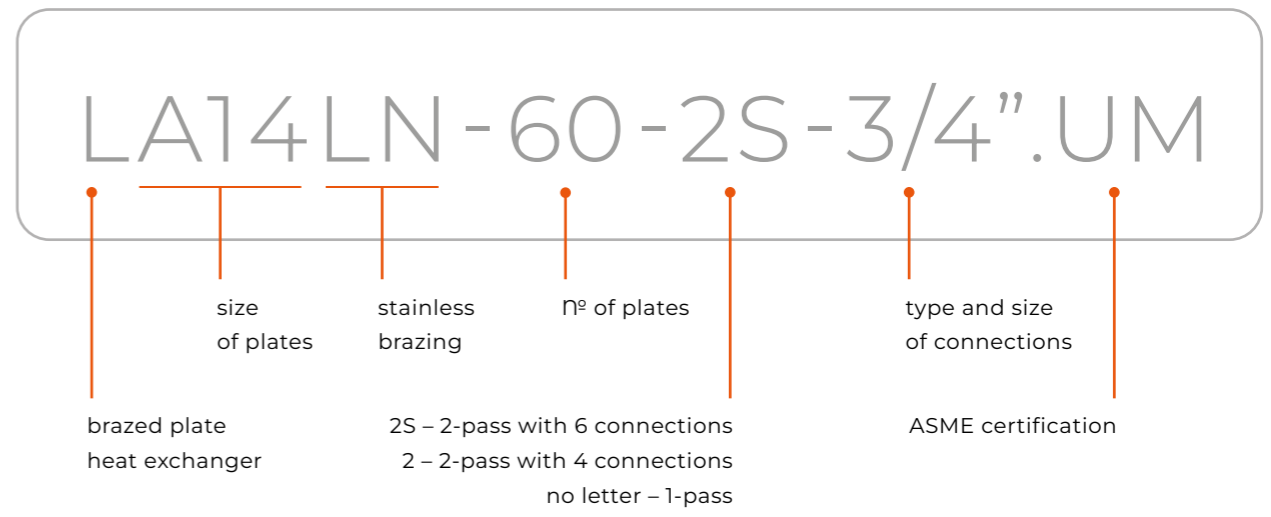


NO COPPER IONS
 IN THE WATER





EXEMPLAR DESIGNATION



PRODUCT LINE



TECHNICAL DATA

STANDARD LOCATION OF CONNECTIONS

1-PASS HEAT EXCHANGER

- K1 / K4** — inlet / outlet hot side
- K3 / K2** — inlet / outlet cold side

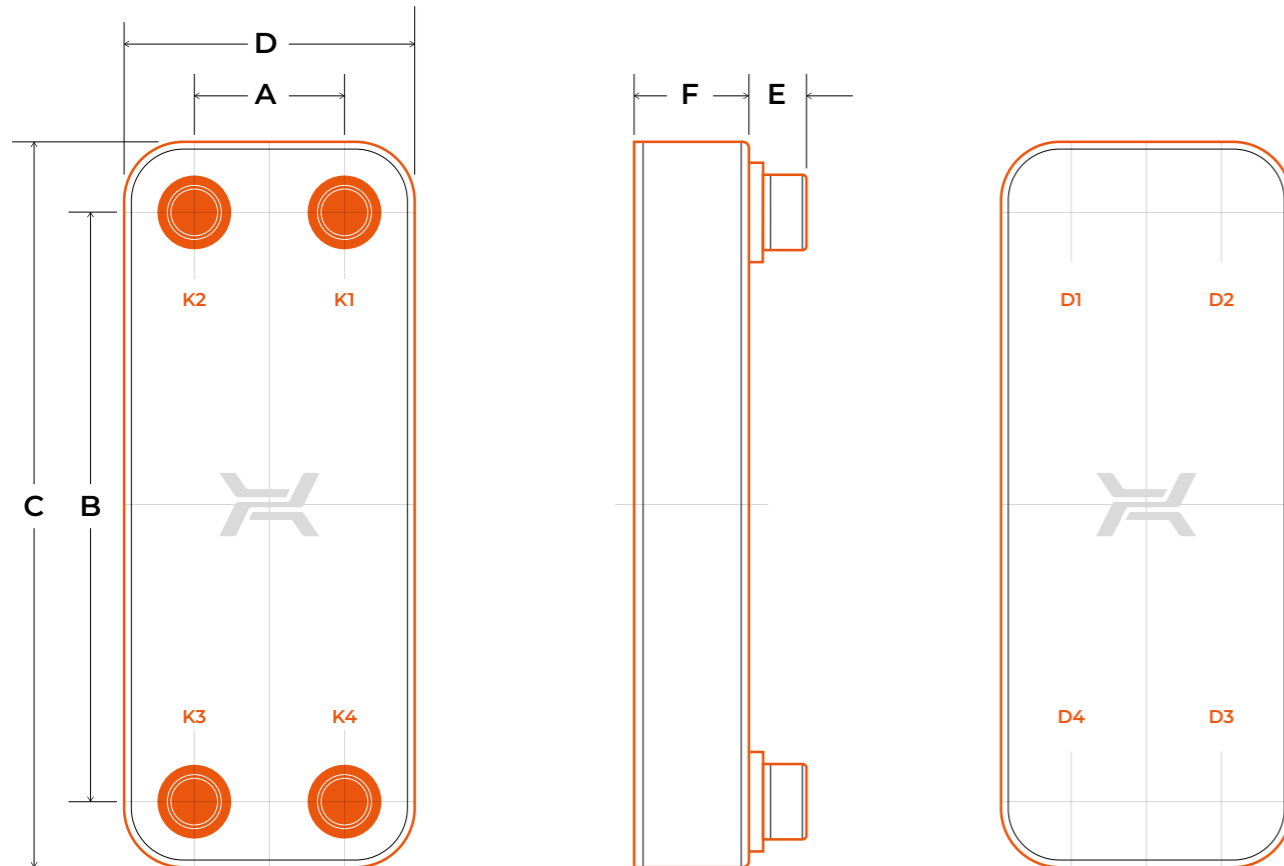
2-PASS HEAT EXCHANGER

- D4 / K4** — inlet / outlet hot side
- K3 / D3** — inlet / outlet cold side

2-PASS WITH 6 CONNECTIONS

ADDITIONALLY:

- K1** — vent connection / inlet of central heating return
- K2** — vent connection / inlet of domestic hot water circulation return



MATERIALS

- STAINLESS STEEL
- STAINLESS BRAZING

EXEMPLARY MEDIA

- WATER
- PROPYLENE GLYCOL SOLUTIONS
- OTHER (CONSULT THE MANUFACTURER)

WORKING PARAMETERS

- MAX. TEMPERATURE — 392°F
- MIN. TEMPERATURE — -319°F
- LM LN — -150°F
- MAX. PRESSURE
- LA LN, LB LN, LC LN — 290 PSI
- LM LN, LD LN — 232 PSI

TECHNICAL PARAMETERS

Type	Dimensions						Max N° of plates	Mass
	A	B	C	D	E	F		
	in	in	in	in	in	in	lb	
LA14LN	1.65	6.46	7.95	3.15	0.63	0.35 + 0.09 × NP	60	0.6 + 0.054 × NP
LA22LN	1.65	10.24	11.81	3.15	0.63	0.35 + 0.09 × NP	60	0.8 + 0.075 × NP
LA34LN	1.65	17.01	18.46	3.15	0.63	0.35 + 0.09 × NP	60	1.2 + 0.112 × NP
LB31LN	2.68	9.13	11.26	4.61	1.10	0.39 + 0.09 × NP	150	1.6 + 0.126 × NP
LB47LN	2.68	14.17	16.30	4.61	1.10	0.39 + 0.09 × NP	150	2.2 + 0.174 × NP
LB60LN	2.68	18.90	21.02	4.61	1.10	0.39 + 0.09 × NP	150	2.7 + 0.219 × NP
LC170LN	6.7	23.6	27.1	10.2	1.1; 3.9	0.43 + 0.09 × NP	180	26.24 + 1.41 × NP
LC110LN	6.69	14.88	18.23	10.04	1.50	0.39 + 0.09 × NP	180	11.9 + 0.642 × NP

NP – number of plates | dim. F+/-3%

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

R

BRAZED PLATE HEAT EXCHANGERS

DESIGNED FOR USE IN COOLING
OR HEATING INSTALLATIONS.
REFRIGERANT EVAPORATORS,
CONDENSERS AND ECONOMIZERS.

APPLICATION



CHILLERS

REFRIGERATION
UNITSHEAT
PUMPSICE WATER
GENERATORSCOOLING SYSTEMS
WITH SPECIAL
CONSTRUCTION

ADVANTAGES

OUTSTANDING
RELIABILITYOPTIMIZED
FOR MODERN
REFRIGERANTSRESISTANCE TO
CYCLIC FATIGUESPECIAL CHANNEL
PATTERN ENSURES
EFFECTIVE
EVAPORATION
OR CONDENSATIONRESISTANCE
TO FREEZING

EVAPORATORS

A two-phase refrigerant is sent to the bottom welded connection of the exchanger. Flowing through the channels it evaporates completely while acquiring the required degree of overheating. Water or glycol flows in counter-current flow.

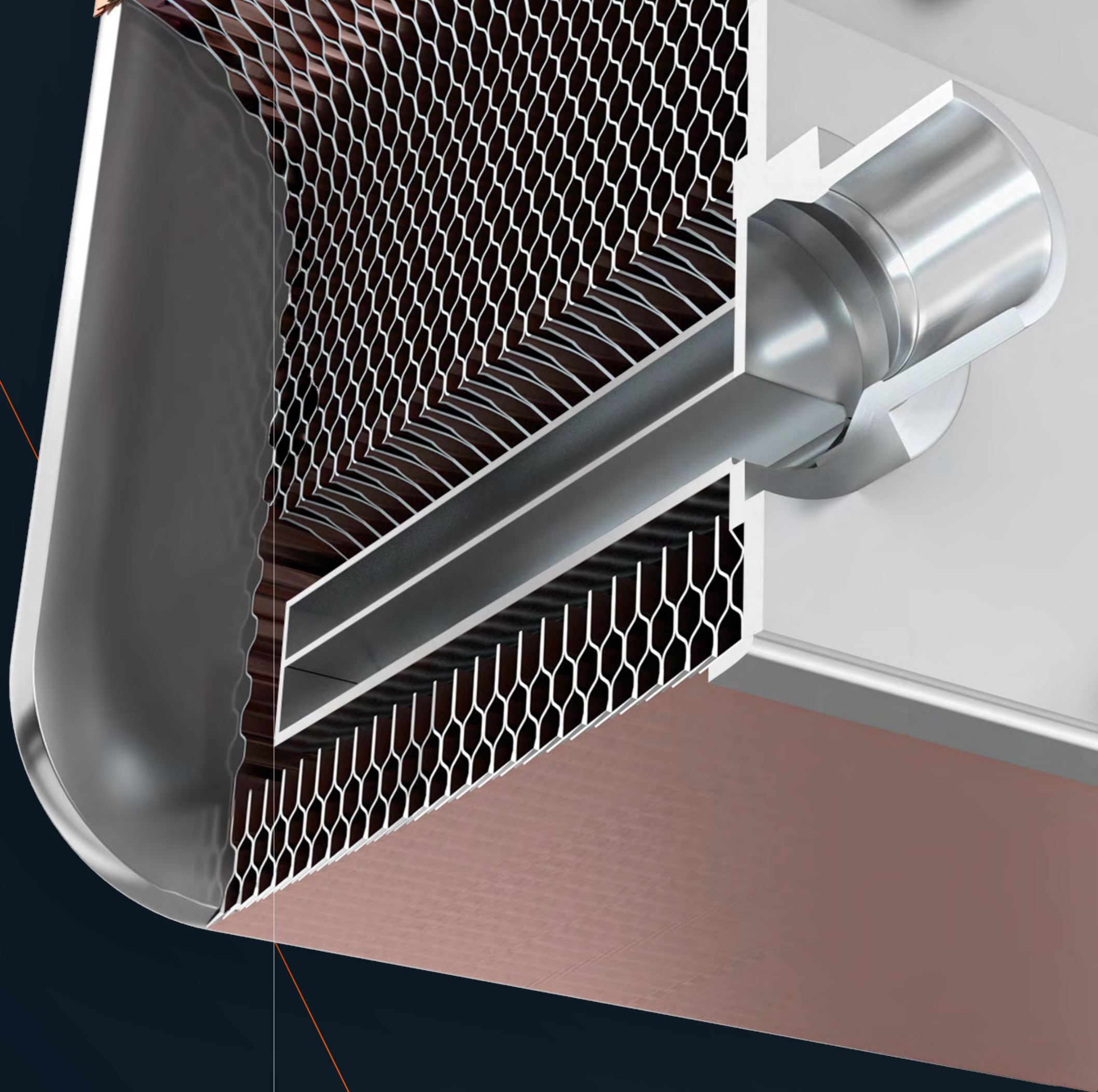
CONDENSERS

Hot refrigerant vapours are sent to the top welded connection of the exchanger. Flowing through the channels they condense while acquiring the required degree of subcooling. Water and glycol flows in counter-current flow.

RDS SYSTEM

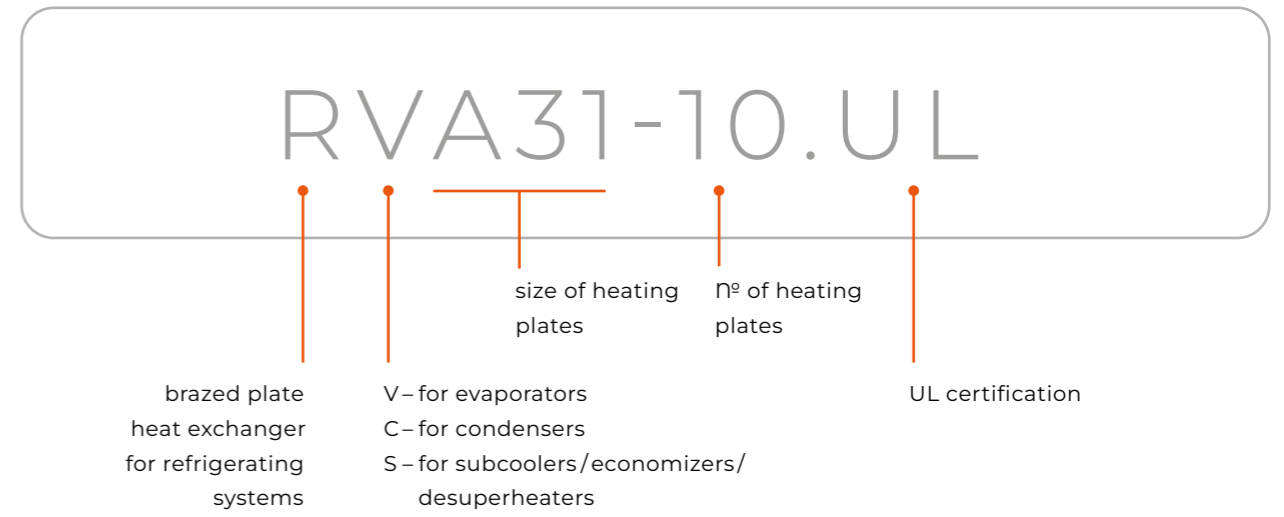
Refrigerant Distribution System is a unique system of dynamical distribution of a boiling agent which has been developed by Hexonic for evaporators with higher refrigerating capacity.

This system ensures a balanced distribution of the agent inside the channels and simultaneously reduces the fluctuations in vapour overheating.





EXEMPLAR DESIGNATION



PRODUCT LINE



RVA34

RVB60

RVB31

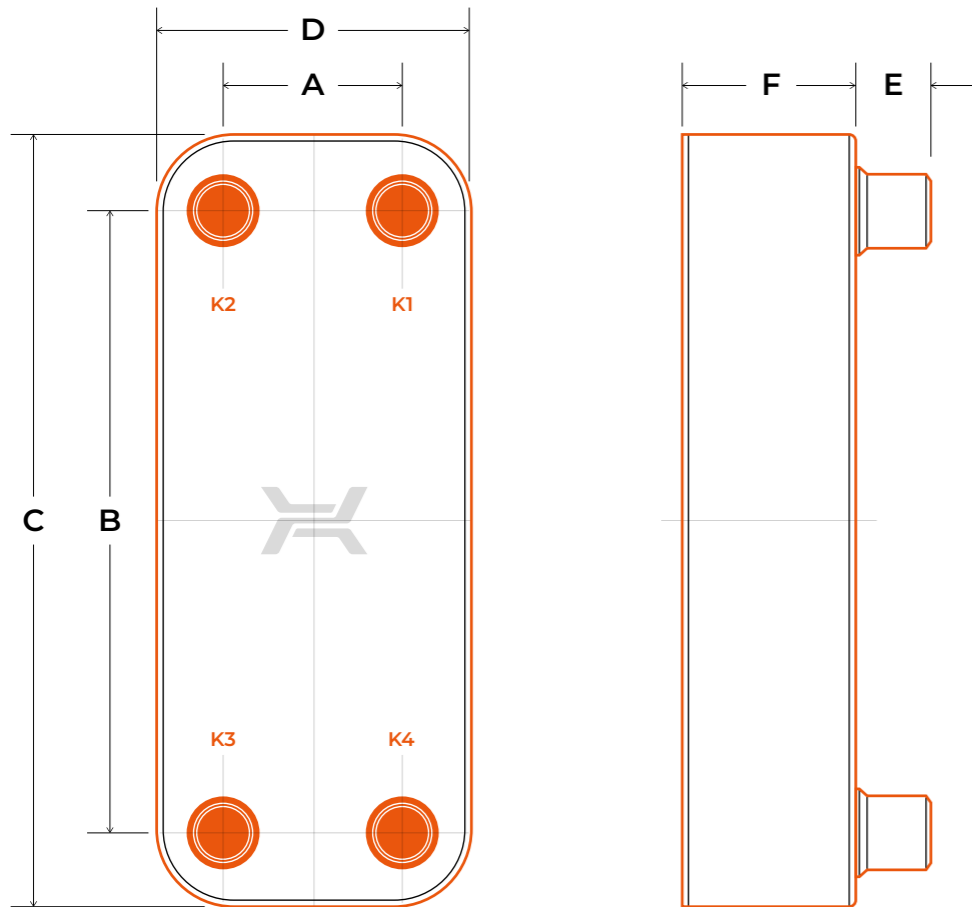
RVM110

TECHNICAL DATA

STANDARD LOCATION OF CONNECTIONS

(DEPENDING ON WHETHER IT IS EVAPORATOR OR CONDENSER)

- K 4 / K 1** — inlet /outlet of water or glycol
- K 3 / K 2** — inlet /outlet of refrigerant



MATERIALS

- STAINLESS STEEL
- COPPER BRAZING

EXEMPLARY MEDIA

REFRIGERANT SIDE

- R32, R452B, R454B, R1234ZE, R290, R410

OTHER SIDE

- WATER
- PROPYLENE GLYCOL SOLUTIONS
- OTHER (CONSULT THE MANUFACTURER)

WORKING PARAMETERS

MAX. TEMPERATURE — 302°F

MIN. TEMPERATURE — -150°F

MAX. PRESSURE — 653 PSI

TECHNICAL PARAMETERS

Type	Dimensions						Weight
	A	B	C	D	E	F	
	in	in	in	in	in	in	lb

EVAPORATORS

RVA14	1,7	6,5	8,0	3,2	0,6	0.35 + 0.09 × NP	1.54 + 0.11 × NP
RVA22	1,7	10,2	11,8	3,2	0,6	0.35 + 0.09 × NP	1.98 + 0.16 × NP
RVA34	1,7	17,0	18,5	3,2	0,6	0.35 + 0.09 × NP	2.87 + 0.26 × NP
RVB31	2,7	9,1	11,3	4,8	1,1	0.39 + 0.09 × NP	3.75 + 0.25 × NP
RVB47	2,7	14,2	16,4	4,8	1,1	0.39 + 0.09 × NP	5.07 + 0.37 × NP
RVB60	2,7	18,9	21,2	4,8	1,1	0.39 + 0.09 × NP	6.17 + 0.48 × NP
RVC110	6,7	14,9	18,3	10,2	1,1	0.39 + 0.09 × NP	19.40 + 0.9 × NP
RVC170	6,7	23,6	27,1	10,2	1,1	0.39 + 0.09 × NP	25.35 + 1.36 × NP
RVM110	3,6	20,5	24,4	7,5	1,1	0.393 + 0.102 × NP	18.52 + 0.9 × NP
RVD235	8,0	26,9	31,0	12,2	1,1	0.51 + 0.10 × NP	88.18 + 1.83 × NP

CONDENSERS

RCA14	1,7	6,5	8,0	3,2	0,6	0.35 + 0.09 × NP	1.54 + 0.11 × NP
RCA22	1,7	10,2	11,8	3,2	0,6	0.35 + 0.09 × NP	1.98 + 0.16 × NP
RCA34	1,7	17,0	18,5	3,2	0,6	0.35 + 0.09 × NP	2.87 + 0.26 × NP
RCB31	2,7	9,1	11,3	4,8	1,1	0.35 + 0.09 × NP	3.75 + 0.25 × NP
RCB47	2,7	14,2	16,4	4,8	1,1	0.39 + 0.09 × NP	5.07 + 0.37 × NP
RCB60	2,7	18,9	21,2	4,8	1,1	0.39 + 0.09 × NP	6.17 + 0.48 × NP
RCC110	6,7	14,9	18,3	10,2	1,1	0.39 + 0.09 × NP	19.4 + 0.9 × NP
RCC170	6,7	23,6	27,1	10,2	1,1	0.39 + 0.09 × NP	25.35 + 1.36 × NP
RCM110	3,6	20,5	24,4	7,5	1,1	0.39 + 0.10 × NP	18.52 + 0.9 × NP
RCD235	8,0	26,9	31,0	12,2	1,1	0.51 + 0.10 × NP	88.18 + 1.83 × NP

SUBCOOLERS / ECONOMIZERS / DESUPERHEATERS

RSA14	1,7	6,5	8,0	3,2	0,6	0.35 + 0.09 × NP	1.54 + 0.11 × NP
RSA22	1,7	10,2	11,8	3,2	0,6	0.35 + 0.09 × NP	1.98 + 0.16 × NP
RSB31	2,7	9,1	11,3	4,8	1,1	0.39 + 0.09 × NP	3.75 + 0.25 × NP
RSB47	2,7	14,2	16,4	4,8	1,1	0.39 + 0.09 × NP	5.07 + 0.37 × NP

NP – number of plates | dim. F±/3%

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

COOLING CAPACITY TABLE FOR LOW POWER INSTALLATIONS

EVAPORATOR [dT _{GROUND SOURCE} = 5K]						CONDENSER [dT _{INSTALLATION} = 10°F]					
39/44,4°F - 54/44°F						105/101,4°F - 85/95°F					
R32	R452B	R454B	R1234ZE	R290	R410	R32	R452B	R454B	R1234ZE	R290	R410
0,5	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10	0,5	RA22-10	RA14-20	RA14-20	RA22-10	RA14-20
0,75	RA34-20	RA34-10	RA34-10	RA34-20	RA22-30	0,75	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	1	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1,5	RA34-20	RA34-20	RA34-20	RA34-30	RA34-20	1,5	RA34-10	RA22-30	RA22-30	RA34-10	RA34-10
2	RA34-30	RA34-30	RA34-30	RA34-40	RA34-30	2	RA22-30	RA34-20	RA34-20	RA22-30	RA34-20
2,5	RA34-30	RA34-30	RA34-30	RA34-60	RA34-30	2,5	RA34-20	RA34-30	RA34-20	RA34-20	RA34-20
3	RA34-40	RA34-40	RA34-30	RB60-40H	RA34-40	3	RA34-20	RA34-30	RA34-30	RA34-20	RA34-20
3,5	RA34-50	RA34-40	RA34-40	RB60-40H	RB60-30H	3,5	RA34-30	RA34-30	RA34-30	RA34-30	RA34-30
4	RB60-30H	RA34-50	RA34-50	RB60-50H	RB60-30H	4	RA34-30	RA34-40	RA34-30	RA34-30	RA34-30
5	RB60-40H	RB60-40H	RB60-40H	RB60-70H	RB60-40H	5	RA22-60	RA34-40	RA34-40	RA34-40	RA34-40
6	RB60-50H	RB60-40H	RB60-40H	RM110-40-2	RB60-50H	6	RB47-40	RB60-30H	RB60-30H	RB47-40H	RB60-30H
7,5	RB60-70H	RB60-60H	RB60-60H	RM110-50-2	RM110-30H	7,5	RB47-40H	RB60-40H	RB60-40	RB60-30	RB47-50H

29/34,4°F - 44/34°F						125/121,4°F - 105/115°F					
R32	R452B	R454B	R1234ZE	R290	R410	R32	R452B	R454B	R1234ZE	R290	R410
0,5	RA34-10	RA34-10	RA34-10	RA22-30	RA34-10	0,5	RA22-10	RA14-20	RA14-20	RA22-10	RA14-20
0,75	RA34-20	RA34-10	RA34-10	RA34-20	RA34-20	0,75	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	1	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1,5	RA34-20	RA34-20	RA34-20	RA34-30	RA34-20	1,5	RA22-30	RA22-30	RA22-30	RA34-10	RA22-30
2	RA34-30	RA34-30	RA34-30	RA34-50	RA34-30	2	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20
2,5	RA34-40	RA34-30	RA34-30	RB60-30H	RA34-40	2,5	RA34-20	RA34-30	RA34-20	RA34-20	RA34-20
3	RA34-50	RA34-40	RA34-40	RB60-40H	RA34-50	3	RA34-30	RA34-30	RA34-30	RA34-20	RA34-30
3,5	RA34-60	RA34-50	RA34-50	RB60-50H	RB60-30H	3,5	RA34-30	RA34-30	RA34-30	RA34-30	RA34-30
4	RB60-40H	RB60-30H	RA34-60	RB60-60H	RB60-40H	4	RA34-30	RA34-40	RA34-40	RA34-30	RA34-30
5	RB60-40H	RB60-40H	RB60-40H	RB60-80H	RB60-40H	5	RA34-40	RA34-40	RA34-40	RA34-40	RA34-40
6	RB60-50H	RB60-50H	RB60-50H	RM110-40H	RB60-60H	6	RB60-30H	RB47-50H	RB60-30H	RB47-40H	RB60-30H
7,5	RB60-80H	RB60-70H	RB60-60H	RM110-50H	RM110-30H	7,5	RB60-40	RB60-40H	RB60-40H	RB47-50H	RB60-40H

18/23,4°F - 32/23°F						145/141,4°F - 125/135°F					
R32	R452B	R454B	R1234ZE	R290	R410	R32	R452B	R454B	R1234ZE	R290	R410
0,5	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	0,5	RHA22-10	RHA14-20	RHA14-20	RA22-10	RA34-10
0,75	RA34-20	RA34-20	RA34-20	RA34-30	RA34-20	0,75	RHA34-10	RHA34-10	RHA34-10	RA34-10	RA34-10
1	RA34-30	RA34-20	RA34-20	RA34-40	RA34-30	1	RHA34-10	RHA22-20	RHA22-20	RA34-10	RA34-10
1,5	RA34-40	RA34-30	RA34-30	RB60-40-1	RA34-40	1,5	RHA34-10	RHA22-30	RHA22-30	RA34-10	RA34-10
2	RA34-50	RA34-40	RA34-40	RB60-50H	RA34-50	2	RHA22-30	RHA34-20	RHA34-20	RA34-20	RHA34-20
2,5	RB60-40H	RA34-60	RA34-60	RB60-60H	RB60-40H	2,5	RHA34-20	RHA34-30	RHA34-30	RA34-20	RHA34-20
3	RB60-50H	RB60-40H	RB60-40H	RB60-90H	RB60-40H	3	RHA34-20	RHA34-30	RHA34-30	RA34-20	RHA34-30
3,5	RB60-50H	RB60-50H	RB60-50H	RM110-40H	RB60-50H	3,5	RHA34-30	RHA34-40	RHA34-40	RA34-30	RHA34-30
4	RB60-60H	RB60-50H	RB60-50H	RM110-40H	RB60-60H	4	RHA34-30	RHA34-40	RHA34-40	RA34-30	RHA34-30
5	RM110-40H	RB60-70H	RB60-70H	RM110-50H	RM110-40H	5	RHA34-40	RHA34-50	RHA34-50	RA34-40	RHA34-40
6	RM110-50H	RB60-100H	RB60-100H	RM110-60H	RM110-40H	6	RHB47-40	RHB47-50H	RHB47-50H	RB47-40H	RHB60-30H
7,5	RM110-60H	RM110-50H	RM110-50H	RM110-80H	RM110-50H	7,5	RHB47-40H	RHB60-50	RHB47-60H	RB47-50H	RHB60-40H

EVAPORATOR

MEDIUM
EVAPORATION TEMP.
— 39/29/19°F
OVERHEATING — 3K

WATER
54/44°C - 44/34°F

PG35
32/23°F, DPMAX<30KPA

CONDENSER

MEDIUM
CONDENSING TEMP.
— 105/125/145°F
OVERCOOLING — 2K

WATER
85/95 - 105/115 - 125/135°F

DPMAX<30KPA

COOLING CAPACITY TABLE FOR HIGH POWER INSTALLATIONS

EVAPORATOR [dT _{GROUND SOURCE} = 5K]						CONDENSER [dT _{INSTALLATION} = 10°F]					
39/44,4°F - 54/44°F						105/101,4°F - 85/95°F					
R32	R452B	R454B	R1234ZE	R290	R410	R32	R452B	R454B	R1234ZE	R290	R410
10	RM110-40H	RM110-40H	RM110-30H	RM110-60H	RM110-40H	10	RB60-40	RB60-50H	RB60-50H	RB60-40	RB60-50
12,5	RM110-50H	RM110-40H	RM110-40H	RM110-70H	RM110-50H	12,5	RM110-30	RM110-40	RM110-40	RM110-30	RM110-40
15	RM110-60H	RM110-50H	RM110-50H	RM110-90H	RM110-60H	15	RM110-40	RM110-40H	RM110-40H	RM110-40	RM110-40H
20	RM110-70H	RM110-60H	RM110-60H	RM110-130H	RM110-70H	20	RM110-50	RM110-60	RM110-60	RM110-50	RM110-60
25	RM110-90H	RM110-80H	RM110-80H	RD235-80	RM110-90H	25	RM110-50	RM110-70H	RM110-70	RM110-50	RM110-70
30	RM110-110H	RM110-90H	RM110-90H	RD235-100	RM110-120H	30	RM110-60	RM110-80H	RM110-80	RM110-60	RM110-80
35	RM110-150H	RM110-120H	RM110-120H	RD235-130	RD235-70	35	RM110-70	RM110-100	RM110-100	RM110-70	RM110-100
40	RD235-80	RD235-70	RD235-70	—	RD235-80	40	RM110-90	RM110-120	RM110-110	RM110-90	RM110-100
50	RD235-110	RD235-90	RD235-90	—	RD235-120	50	RM110-110	RM110-150	RM110-140	RM110-110	RM110-120
60	—	RD235-130	RD235-120	—	—	60	RM110-150	RC170-130	RC170-130	RM110-150	RC170-130
70	—	—	—	—	—	70	RD235-100	RD235-100	RD235-100	RD235-100	RD235-100
80	—	—	—	—	—	80	RD235-120	RD235-120	RD235-120	RD235-120	RD235-120

29/34,4°F - 44/34°F						125/121,4°F - 105/115°F					
R32	R452B	R454B	R1234ZE	R290	R410	R32	R452B	R454B	R1234ZE	R290	R410
10	RM110-40H	RM110-40H	RM110-40H	RM110-70H	RM110-40H	10	RB60-50	RB60-60	RB60-50H	RB47-60H	RB60-50H
12,5	RM110-50H	RM110-50H	RM110-50H	RM110-80H	RM110-50H	12,5	RM110-40	RM110-40	RM110-40	RM110-30	RM110-40
15	RM110-60H	RM110-50H	RM110-50H	RM110-100H	RM110-60H	15	RM110-40	RM110-40H	RM110-40H	RM110-40	RM110-40H
20	RM110-80H	RM110-70H	RM110-70H	RD235-70	RM110-80H	20	RM110-60	RM110-60H	RM110-60	RM110-50	RM110-60
25	RM110-100H	RM110-80H	RM110-80H	RD235-90	RM110-100H	25	RM110-70	RM110-70H	RM110-70H	RM110-60	RM110-70H
30	RM110-130H	RM110-110H	RM110-110H	RD235-120	RM110-150H	30	RM110-80	RM110-80H	RM110-80H	RM110-70	RM110-80H
35	RD235-80	RM110-140H	RM110-140H	—	RD235-80	35	RM110-90	RM110-100H	RM110-100H	RM110-80	RM110-100
40	RD235-90	RD235-80	RD235-80	—	RD235-90	40	RM110-110	RM110-110H	RM110-110H	RM110-90	RM110-110H
50	RD235-130	RD235-100	RD235-100	—	RD235-120	50	RM110-130	RM110-150	RM110-150	RM110-110	RM110-130
60	—	—	—	—	—	60	RC170-130	RC170-130	RC170-130	RM110-150	RC170-130
70	—	—	—	—	—	70	RD235-100	RD235-100	RD235-100	RD235-100	RD235-100
80	—	—	—	—	—	80	RD235-120	RD235-120	RD235-120	RD235-120	RD235-120

18/23,4°F - 32/23°F						145/141,4°F - 125/135°F					
R32	R452B	R454B	R1234ZE	R290	R410	R32	R452B	R454B	R1234ZE	R290	R410
10	RM110-70H	RM110-60H	RM110-60H	RM110-100H	RM110-70H	10	RHB60-40	RHB60-60	RHB60-60	RB47-60H	RHB60-50H
12,5	RM110-90H	RM110-80H	RM110-80H	RM110-140H	RM110-80H	12,5	RHC110-40	RHC110-50	RHC110-50	RM110-30	RHC110-50
15	RM110-110H	RM110-90H	RM110-90H	RD235-80	RM110-100H	15	RHC110-50	RHC110-60	RHC110-60	RM110-40	RHC110-60
20	RM110-150H	RM110-120H	RM110-120H	RD235-100	RD235-70	20	RHC110-60	RHC110-80	RHC110-80	RM110-50	RHC110-80
25	RD235-90	RD235-80	RD235-80	—	RD235-90	25	RHC110-80	RHC110-100	RHC110-100	RM110-60	RHC110-100
30	RD235-110	RD235-90	RD235-90	—	RD235-110	30	RHC110-90	—	—	RM110-60	RM110-80
35	—	RD235-110	RD235-110	—	—	35	RHC110-100	—	—	RM110-70	RM110-90
40	—	—	—	—	—	40	—	—	—	RM110-80	RM110-100
50	—	—	—	—	—	50	—	—	—	RM110-110	RM110-120
60	—	—	—	—	—	60	—	—	—	RM110-150	RM110-150
70	—	—	—	—	—	70	—	—	—	RD235-100	RD235-100
80	—	—	—	—	—	80	—	—	—	RD235-120	RD235-120

EVAPORATOR

MEDIUM
EVAPORATION TEMP.
— 39/29/19°F
OVERHEATING — 3K

WATER
54/44°C - 44/34°F

PG35
32/23°F, DPMAX<30KPA

CONDENSER

MEDIUM
CONDENSING TEMP.
— 105/125/145°F
OVERCOOLING — 2K

WATER
85/95 - 105/115 - 125/135°F

DPMAX<30KPA

TYPE AND SIZE OF CONNECTIONS

L	Luna	R	Connections												
			3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	2"	3"	4"		
LA14	LA14LN		⊙	⊙	⊙										
LA22	LA22LN		⊙	⊙	⊙										
LA34	LA34LN	RVA34	RCA34	⊙⊙⊕	⊙⊙⊕	⊙⊙⊕									
LH40					⊙	⊙									
LB31	LB31LN	RVB31	RCB31			⊙⊙△⊕	⊙⊙△⊕	⊙⊙△⊕	△⊕						
LB47	LB47LN					⊙⊙△	⊙⊙△	⊙⊙△	△						
LB60	LB60LN	RVB60	RCB60			⊙⊙△⊕	⊙⊙△⊕	⊙⊙△⊕	△⊕						
LM110	LM110LN	RVM110	RCM110								⊙⊕				
LC110	LC110LN						⊙	⊙⊙△	⊙⊙△	⊙△	⊙△	⊕			
LC170							⊙	⊙⊙△	⊙⊙△	⊙△	⊙△	⊕			
LD235														⊕	
LE400															⊕

- ⊙ internal thread
- △ Victaulic
- ⊕ welded connection for R-line
- ⊙ 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 ALUMINUM (APFI)

- MAX. WORKING TEMPERATURE: 275°F
- THICKNESS: 1.18 IN
- THERMAL CONDUCTIVITY: 0.015 BTU/FT. HOUR°F



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

- MAX. WORKING TEMPERATURE: 230°F
- THICKNESS: 1.10 IN
- THERMAL CONDUCTIVITY: 0.020 BTU/FT. HOUR°F



COLD INSULATION FOR R-LINE HEAT EXCHANGERS

- WORKING TEMPERATURE RANGE: -40°F TO 230°F
- THICKNESS: 0.787 IN
- THERMAL CONDUCTIVITY: 0.021 BTU/FT. HOUR°F



