

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.

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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



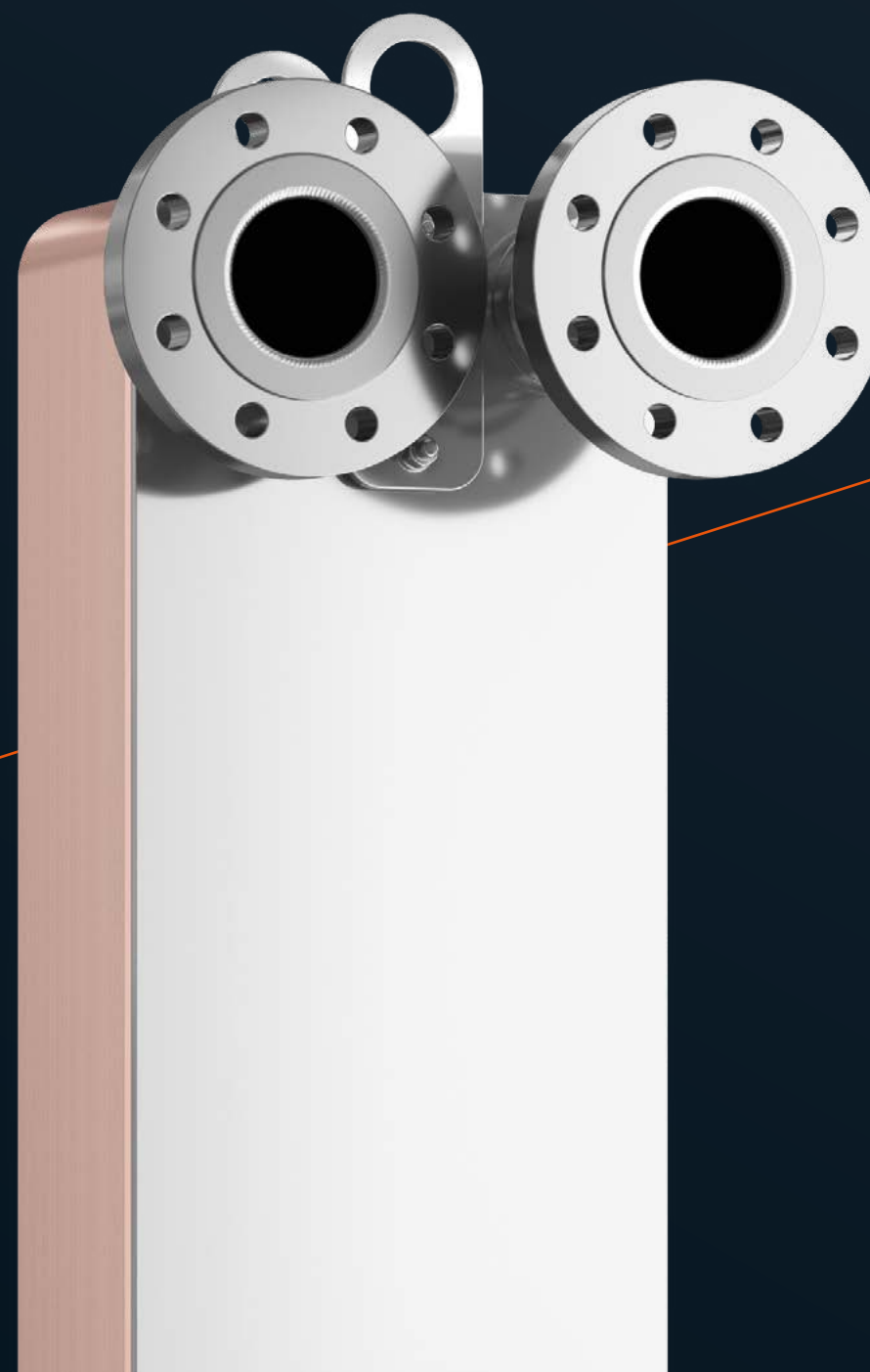
EASY ASSEMBLY
AND DISMANTLE



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

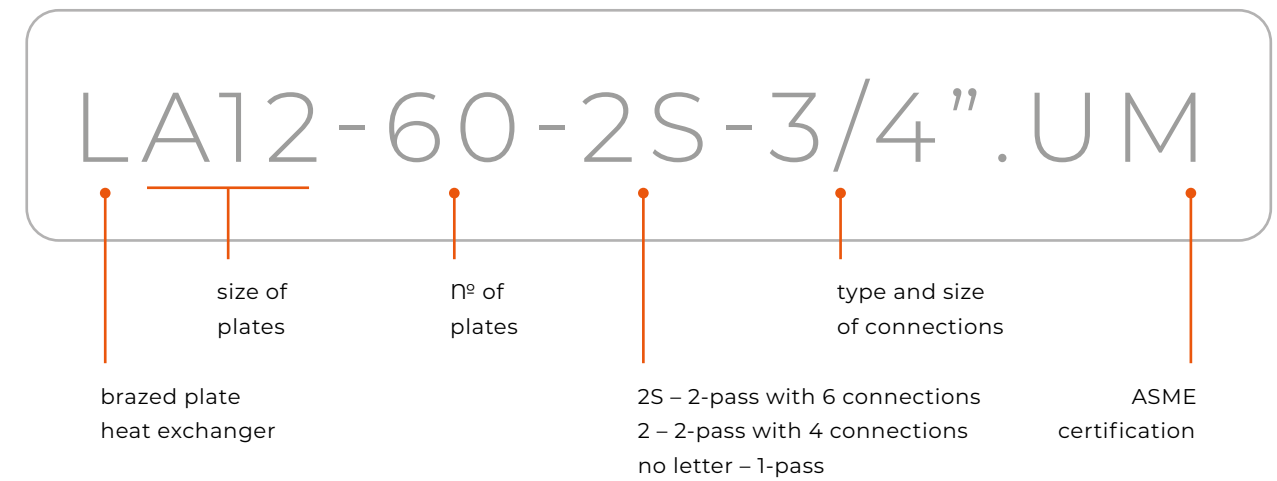
35%
↑

**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

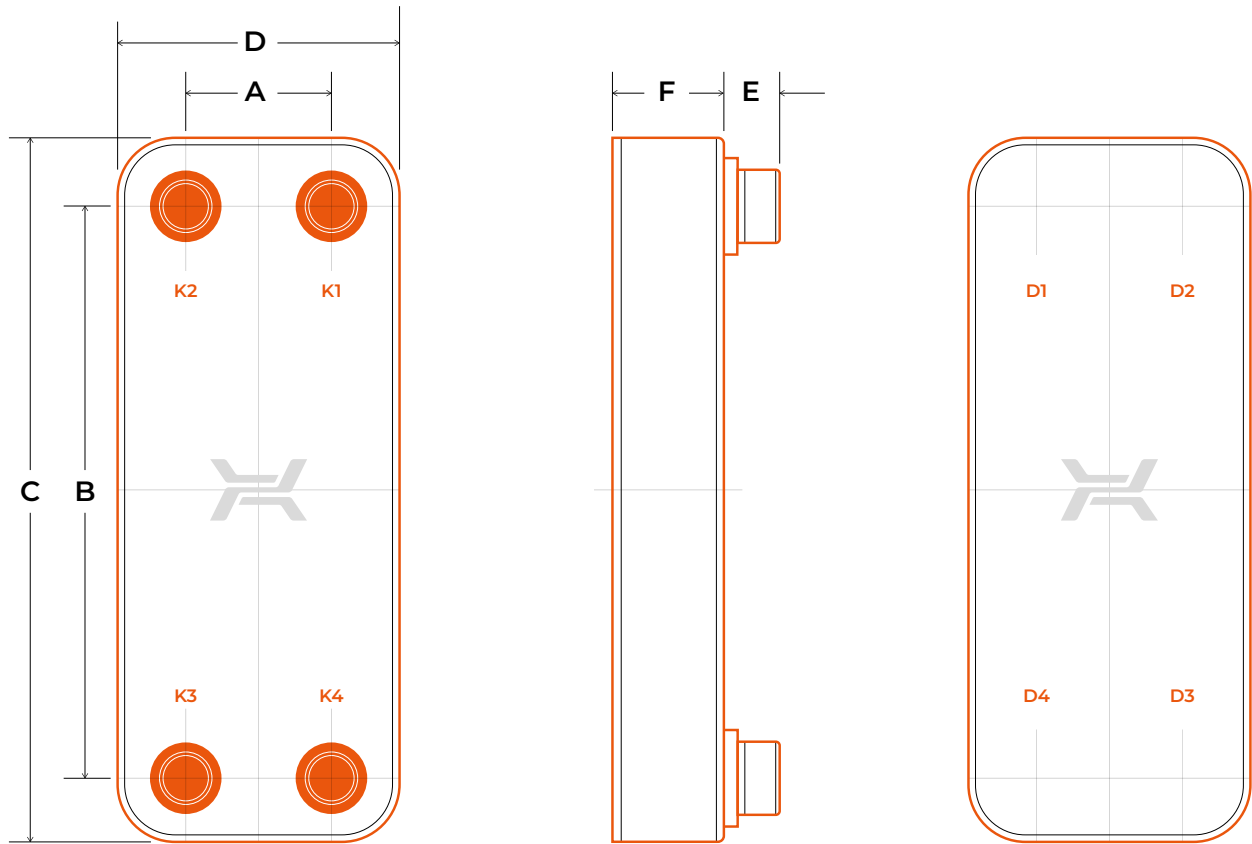
K1 / K4 — inlet / outlet hot side
K3 / K2 — inlet / outlet cold side

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
	A	B	C	D	E	F		
	in	in	in	in	in	in		lb
LA12	1.6	6.1	7.5	2.8	0.6/0.8	0.35 + 0.10 × NP	60	0.88 + 0.11 × NP
LA14	1.7	6.5	8.0	3.2	0.6/0.8	0.35 + 0.09 × NP	60	1.32 + 0.11 × NP
LA21AS	1.6	10.9	13.4	2.9	0.6	0.39 + 0.09 × NP	60	1.28 + 0.13 × NP
LA22	1.7	10.2	11.8	3.2	0.6/0.8	0.35 + 0.09 × NP	60	1.76 + 0.16 × NP
LA22(X)	1.7	10.2	11.8	3.2	0.6/0.8	0.35 + 0.07 × NP	60	1.76 + 0.16 × NP
LA34	1.7	17.0	18.5	3.2	0.6/0.8	0.35 + 0.09 × NP	60	2.65 + 0.26 × NP
LJ30	1.8	10.6	12.5	3.9	0.8	0.35 + 0.07 × NP	60	2.43 + 0.14 × NP
LH40	1.7	16.3	18.1	3.5	1.1	0.39 + 0.09 × NP.	60	3.75 + 0.30 × NP
LB31	2.7	9.1	11.3	4.8	1.1	0.39 + 0.09 × NP	150	3.53 + 0.25 × NP
LB47	2.7	14.2	16.4	4.8	1.1	0.39 + 0.09 × NP	150	4.63 + 0.37 × NP
LB60	2.7	18.9	21.2	4.8	1.1	0.39 + 0.09 × NP	150	5.73 + 0.48 × NP
LB60(X)	2.7	18.9	21.2	4.8	1.1	0.39 + 0.09 × NP	150	5.73 + 0.48 × NP
LM110	3.6	20.5	24.4	7.5	1.9	0.39 + 0.10 × NP	200	18.52 + 0.90 × NP
LC110	6.7	14.9	18.4	10.2	1.1/1.5; 3.9	0.43 + 0.09 × NP	200	19.18 + 0.90 × NP
LC110AS	6.7	14.9	18.4	10.2	1.9	0.39 + 0.09 × NP	200	19.18 + 0.90 × NP
LC170	6.7	23.6	27.1	10.2	1.1/1.5; 3.9	0.43 + 0.09 × NP	200	25.35 + 1.36 × NP
LD235	8.0	26.9	31.0	12.2	3.9	0.51 + 0.10 × NP	280	88.18 + 1.83 × NP
LE400	9.5	33.9	39.7	15.2	3.7	0.67 + 0.11 × NP	400	163.80 + 3.58 × NP
LF700	12.8	43.3	52.24	21.73	5.51	0.43 + 0.9 × NP	400	356.70 + 7.39 × 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

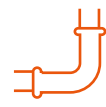
WHEN RELIABILITY
IS ESSENTIAL



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



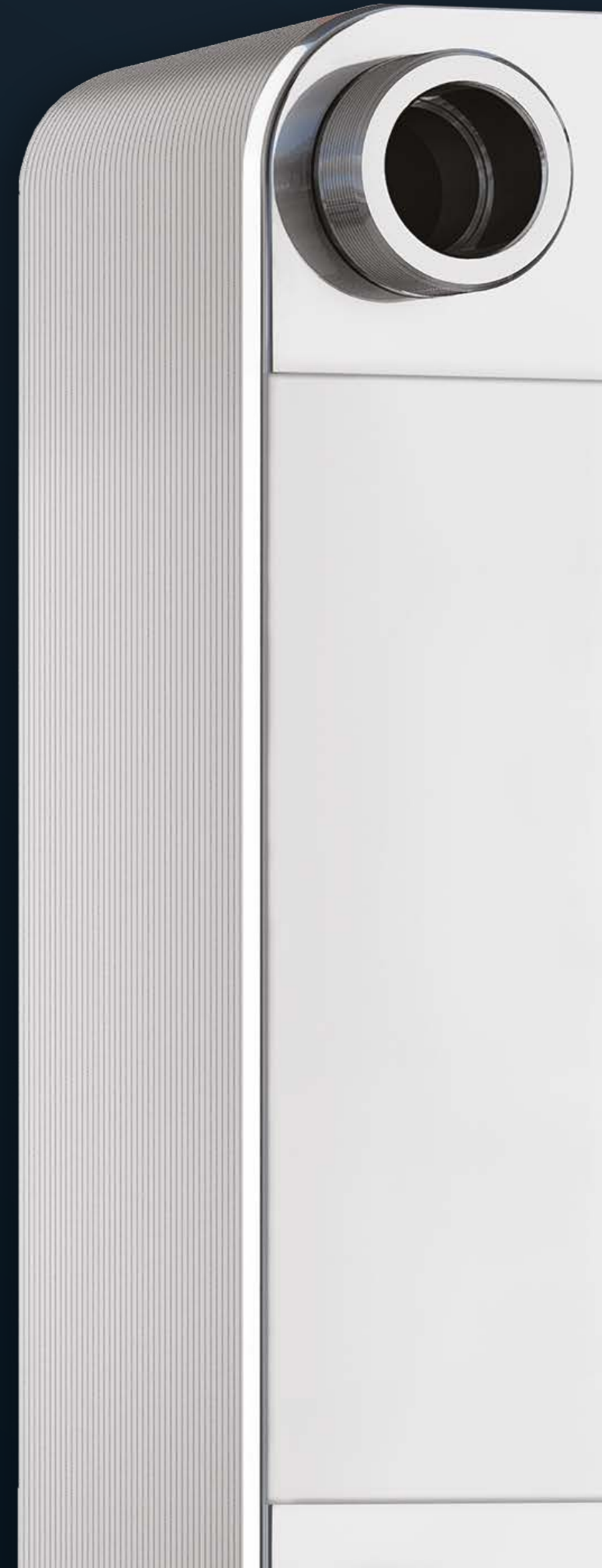
HIGH
DURABILITY



WIDE RANGE
OF APPLICATIONS



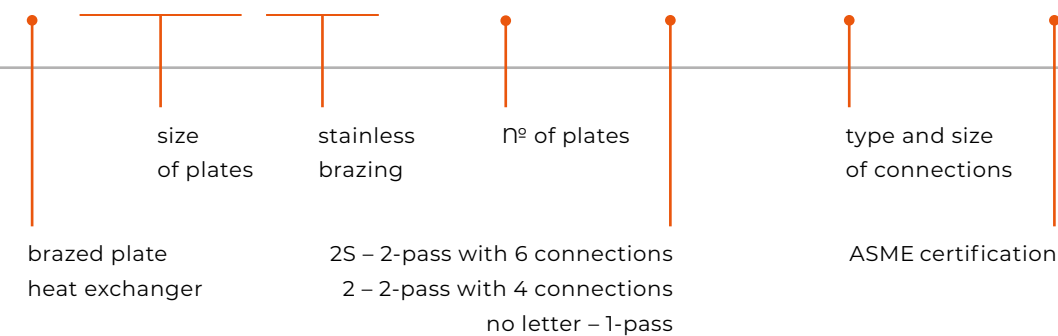
NO COPPER IONS
IN THE WATER



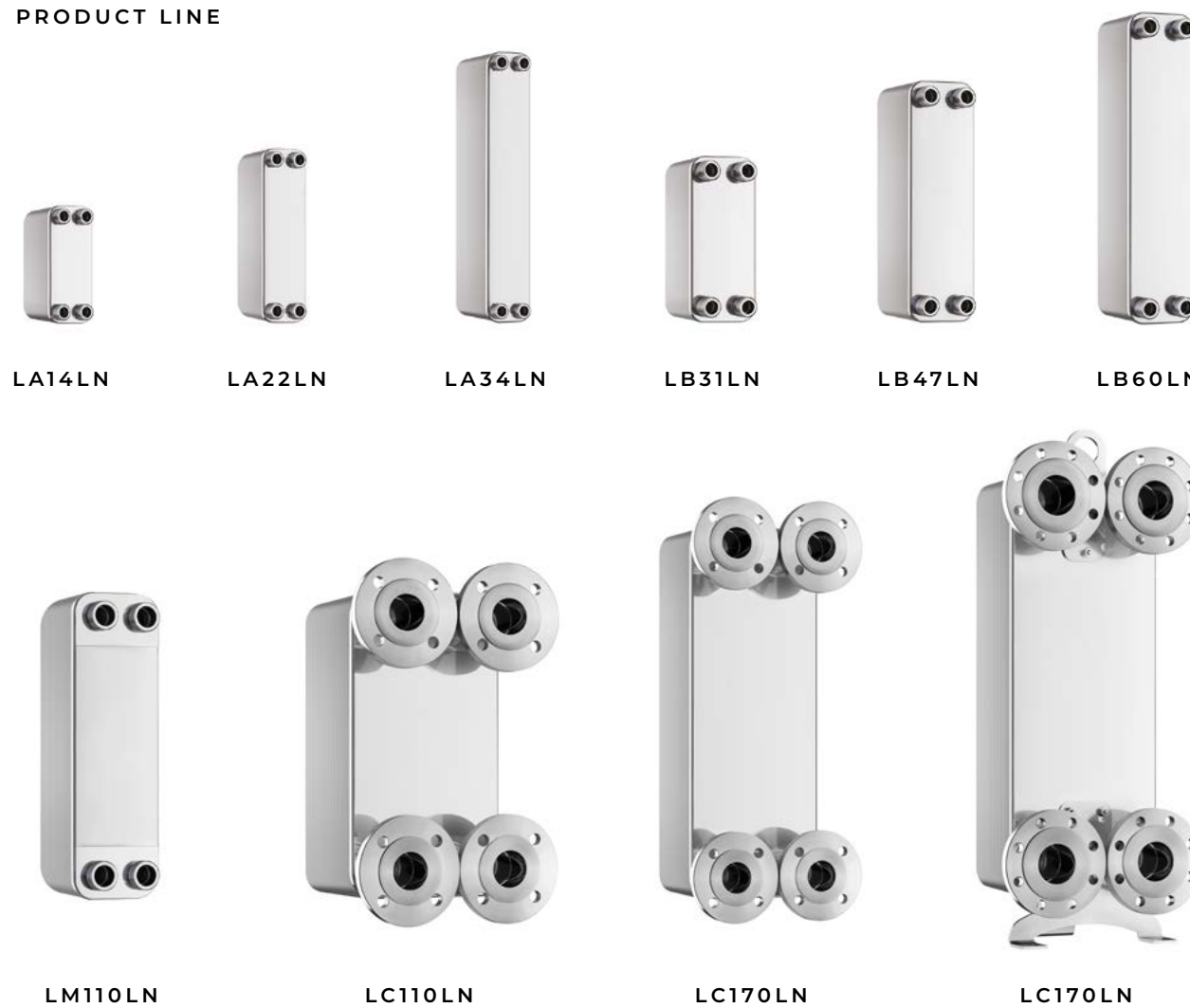


EXEMPLAR DESIGNATION

LA14LN-60-2S-3/4".UM



PRODUCT LINE



TECHNICAL DATA

STANDARD LOCATION OF CONNECTIONS

1-PASS HEAT EXCHANGER

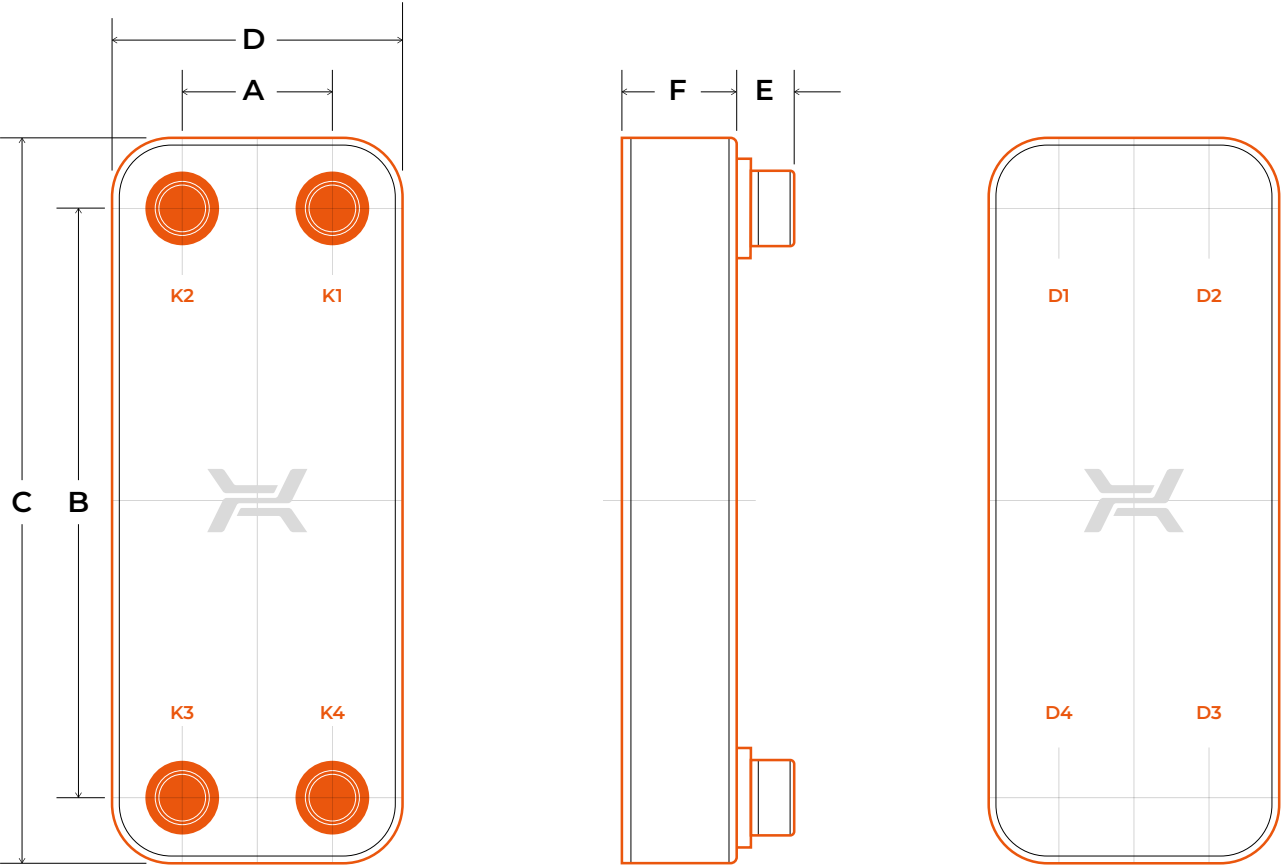
- K1 / K4 — inlet / outlet hot side
- K3 / K2 — inlet / outlet cold side

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	1.7	6.5	8.0	3.2	0.6	0.35 + 0.09 × NP	60	1.32 + 0.12 × NP
LA22LN	1.7	10.2	11.8	3.2	0.6	0.35 + 0.09 × NP	60	1.76 + 0.17 × NP
LA34LN	1.7	17.0	18.5	3.2	0.6	0.35 + 0.09 × NP	60	2.65 + 0.25 × NP
LB31LN	2.7	9.1	11.3	4.8	1.1	0.39 + 0.09 × NP	150	3.53 + 0.28 × NP
LB47LN	2.7	14.2	16.4	4.8	1.1	0.39 + 0.09 × NP	150	4.85 + 0.38 × NP
LB60LN	2.7	18.9	21.2	4.8	1.1	0.39 + 0.09 × NP	150	5.95 + 0.48 × NP
LM110LN	3.6	20.5	24.4	7.5	1.9	0.39 + 0.10 × NP	180	6.66 + 0.392 × NP
LCT10LN	6.7	14.9	18.4	10.2	1.1; 3.9	0.43 + 0.09 × NP	180	20.06 + 0.99 × 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
LD235LN	8.0	26.9	31.0	12.2	3.9	0.51 + 0.1 × NP	160	89.95 + 0.11 × NP

NP – number of plates | dim. F+/-3%
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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.

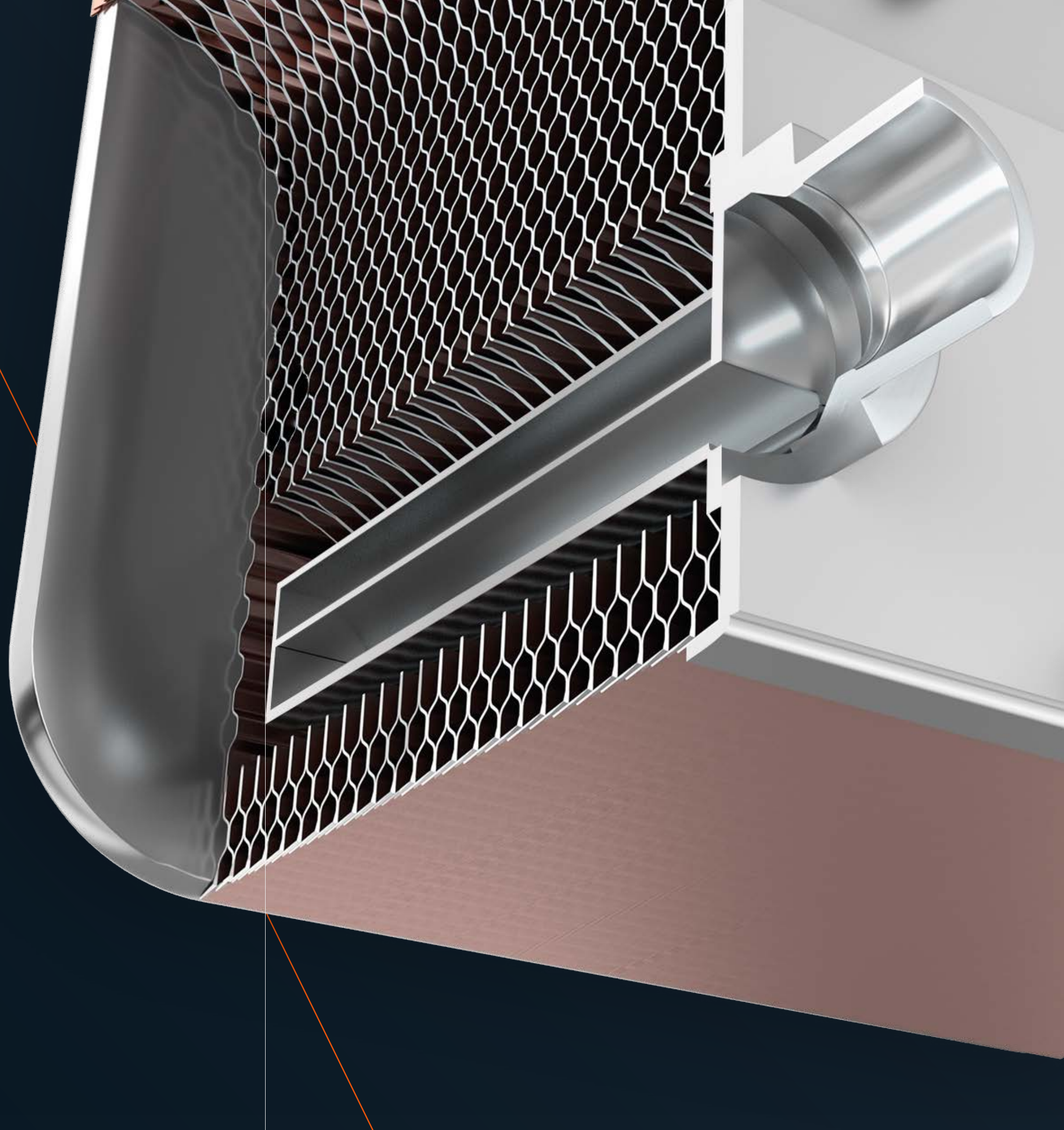
CONDENSERS

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

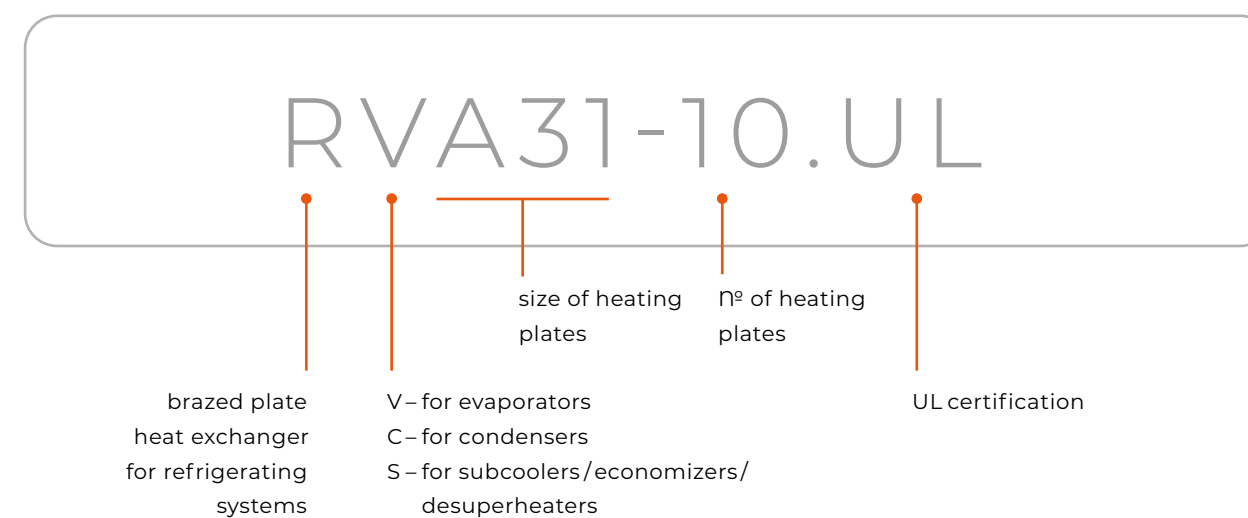
Hexonic developed the unique refrigerant distribution system RDS, for evaporators with potentially higher cooling performance.

The system ensures even medium distribution in evaporator channels, while at the same time reducing steam overheating fluctuations.





EXEMPLAR DESIGNATION



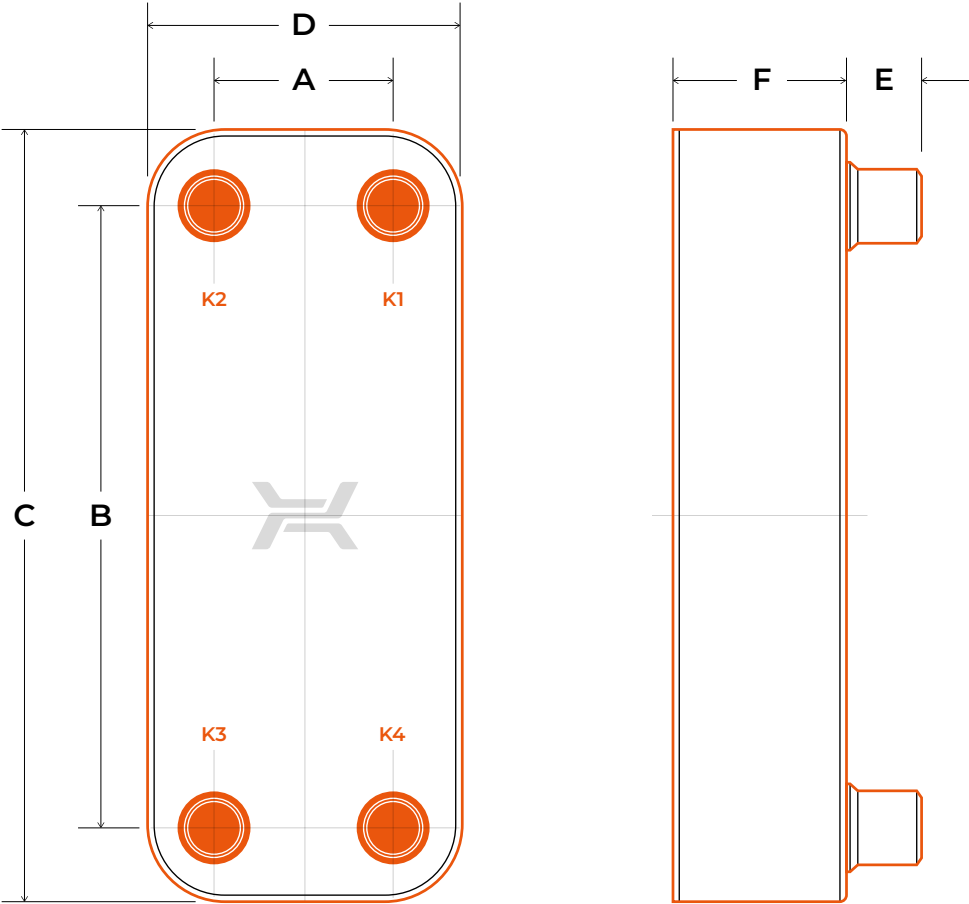
PRODUCT LINE



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	

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
RSA34	1,7	17,0	18,5	3,2	0,6	0.35 + 0.09 × NP	2.87 + 0.26 × 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%

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COOLING CAPACITY TABLE FOR LOW POWER INSTALLATIONS

EVAPORATOR [dT _{GROUND SOURCE} =5K]							[dT _{INSTALLATION} =10°F]						
39/44,4°F - 54/44°F	R32	R452B	R454B	R1234ZE	R290	R410	105/101,4°F - 85/95°F	R32	R452B	R454B	R1234ZE	R290	R410
0,5	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10	0,5	RA22-10	RA14-20	RA14-20	RA22-10	RA14-20	RA22-10
0,75	RA34-20	RA34-10	RA34-10	RA34-20	RA22-30	RA22-30	0,75	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	1	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1,5	RA34-20	RA34-20	RA34-20	RA34-30	RA34-20	RA34-20	1,5	RA34-10	RA22-30	RA22-30	RA34-10	RA34-10	RA22-30
2	RA34-30	RA34-30	RA34-30	RA34-40	RA34-30	RA34-30	2	RA22-30	RA34-20	RA34-20	RA22-30	RA34-20	RA34-20
2,5	RA34-30	RA34-30	RA34-30	RA34-60	RA34-30	RA34-30	2,5	RA34-20	RA34-30	RA34-30	RA34-20	RA34-20	RA34-20
3	RA34-40	RA34-40	RA34-30	RB60-40H	RA34-40	RA34-40	3	RA34-20	RA34-30	RA34-30	RA34-20	RA34-20	RA34-20
3,5	RA34-50	RA34-40	RA34-40	RB60-40H	RB60-30H	RA34-50	3,5	RA34-30	RA34-30	RA34-30	RA34-30	RA34-30	RA34-30
4	RB60-30H	RA34-50	RA34-50	RB60-50H	RB60-30H	RA34-60	4	RA34-30	RA34-40	RA34-30	RA34-30	RA34-30	RA34-30
5	RB60-40H	RB60-40H	RB60-40H	RB60-70H	RB60-40H	RB60-40H	5	RA22-60	RA34-40	RA34-40	RA34-40	RA34-40	RA34-40
6	RB60-50H	RB60-40H	RB60-40H	RM110-40-2	RB60-50H	RB60-50H	6	RB47-40	RB60-30H	RB60-30H	RB47-40H	RB47-40H	RB60-30H
7,5	RB60-70H	RB60-60H	RB60-60H	RM110-50-2	RM110-30H	RB60-60H	7,5	RB47-40H	RB60-40H	RB60-40	RB60-30	RB47-50H	RB60-40
29/34,4°F - 44/34°F	R32	R452B	R454B	R1234ZE	R290	R410	125/121,4°F - 105/115°F	R32	R452B	R454B	R1234ZE	R290	R410
0,5	RA34-10	RA34-10	RA34-10	RA22-30	RA34-10	RA34-10	0,5	RA22-10	RA14-20	RA14-20	RA22-10	RA34-10	RA14-20
0,75	RA34-20	RA34-10	RA34-10	RA34-20	RA34-20	RA34-20	0,75	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	1	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10	RA34-10
1,5	RA34-20	RA34-20	RA34-20	RA34-30	RA34-20	RA34-20	1,5	RA22-30	RA22-30	RA22-30	RA34-10	RA34-10	RA22-30
2	RA34-30	RA34-30	RA34-30	RA34-50	RA34-30	RA34-30	2	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20
2,5	RA34-40	RA34-30	RA34-30	RB60-30H	RA34-40	RA34-40	2,5	RA34-20	RA34-30	RA34-20	RA34-20	RA34-20	RA34-20
3	RA34-50	RA34-40	RA34-40	RB60-40H	RA34-50	RA34-40	3	RA34-30	RA34-30	RA34-30	RA34-20	RA34-20	RA34-30
3,5	RA34-60	RA34-50	RA34-50	RB60-50H	RB60-30H	RA34-60	3,5	RA34-30	RA34-30	RA34-30	RA34-30	RA34-30	RA34-30
4	RB60-40H	RB60-30H	RA34-60	RB60-60H	RB60-40H	RB60-40H	4	RA34-30	RA34-40	RA34-40	RA34-30	RA34-30	RA34-30
5	RB60-40H	RB60-40H	RB60-40H	RB60-80H	RB60-40H	RB60-40H	5	RA34-40	RA34-40	RA34-40	RA34-40	RA34-40	RA34-40
6	RB60-50H	RB60-50H	RB60-50H	RM110-40H	RB60-60H	RB60-50H	6	RB60-30H	RB47-50H	RB60-30H	RB47-40H	RB60-30H	RB60-30H
7,5	RB60-80H	RB60-70H	RB60-60H	RM110-50H	RM110-30H	RB60-80H	7,5	RB60-40	RB60-40H	RB60-40H	RB47-50H	RB60-40	RB60-40H
18/23,4°F - 32/23°F	R32	R452B	R454B	R1234ZE	R290	R410	145/141,4°F - 125/135°F	R32	R452B	R454B	R1234ZE	R290	R410
0,5	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	RA34-20	0,5	RHA22-10	RHA14-20	RHA14-20	RA22-10	RA34-10	RHA14-20
0,75	RA34-20	RA34-20	RA34-20	RA34-30	RA34-20	RA34-20	0,75	RHA34-10	RHA34-10	RHA34-10	RA34-10	RA34-10	RHA34-10
1	RA34-30	RA34-20	RA34-20	RA34-40	RA34-30	RA34-30	1	RHA34-10	RHA22-20	RHA22-20	RA34-10	RA34-10	RHA34-10
1,5	RA34-40	RA34-30	RA34-30	RB60-40-1	RA34-40	RA34-40	1,5	RHA34-10	RHA22-30	RHA22-30	RA34-10	RA34-10	RHA22-30
2	RA34-50	RA34-40	RA34-40	RB60-50H	RA34-50	RA34-50	2	RHA22-30	RHA34-20	RHA34-20	RA34-20	RA34-20	RHA34-20
2,5	RB60-40H	RA34-60	RA34-60	RB60-60H	RB60-40H	RB60-40H	2,5	RHA34-20	RHA34-30	RHA34-30	RA34-20	RA34-20	RHA34-20
3	RB60-50H	RB60-40H	RB60-40H	RB60-90H	RB60-40H	RB60-40H	3	RHA34-20	RHA34-30	RHA34-30	RA34-20	RA34-20	RHA34-30
3,5	RB60-50H	RB60-50H	RB60-50H	RM110-40H	RB60-50H	RB60-50H	3,5	RHA34-30	RHA34-40	RHA34-40	RA34-30	RA34-30	RHA34-30
4	RB60-60H	RB60-50H	RB60-50H	RM110-40H	RB60-60H	RB60-60H	4	RHA34-30	RHA34-40	RHA34-40	RA34-30	RA34-30	RHA34-30
5	RM110-40H	RB60-70H	RB60-70H	RM110-50H	RM110-40H	RB60-80H	5	RHA34-40	RHA34-50	RHA34-50	RA34-40	RA34-40	RHA34-40
6	RM110-50H	RB60-100H	RB60-100H	RM110-60H	RM110-40H	RM110-40H	6	RHB47-40	RHB47-50H	RHB47-50H	RB47-40H	RB60-30	RHB60-30H
7,5	RM110-60H	RM110-50H	RM110-50H	RM110-80H	RM110-50H	RM110-50H	7,5	RHB47-40H	RHB60-50	RHB47-60H	RB47-50H	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	R32	R452B	R454B	R1234ZE	R290	R410	105/101,4°F - 85/95°F	R32	R452B	R454B	R1234ZE	R290	R410
10	RM110-40H	RM110-40H	RM110-30H	RM110-60H	RM110-40H	RM110-40H	10	RB60-40	RB60-50H	RB60-50H	RB60-40	RB60-50	RB60-50H
12,5	RM110-50H	RM110-40H	RM110-40H	RM110-70H	RM110-50H	RM110-50H	12,5	RM110-30	RM110-40	RM110-40	RM110-30	RM110-40	RM110-40
15	RM110-60H	RM110-50H	RM110-50H	RM110-90H	RM110-60H	RM110-50H	15	RM110-40	RM110-40H	RM110-40H	RM110-40	RM110-40	RM110-40H
20	RM110-70H	RM110-60H	RM110-60H	RM110-130H	RM110-70H	RM110-70H	20	RM110-50	RM110-60	RM110-60	RM110-50	RM110-50	RM110-60
25	RM110-90H	RM110-80H	RM110-80H	RD235-80	RM110-90H	RM110-90H	25	RM110-50	RM110-70H	RM110-70	RM110-50	RM110-70	RM110-70
30	RM110-110H	RM110-90H	RM110-90H	RD235-100	RM110-120H	RM110-110H	30	RM110-60	RM110-80H	RM110-80	RM110-60	RM110-80	RM110-80
35	RM110-150H	RM110-120H	RM110-120H	RD235-130	RD235-70	RM110-140H	35	RM110-70	RM110-100	RM110-100	RM110-70	RM110-90	RM110-100
40	RD235-80	RD235-70	RD235-70	—	RD235-80	RD235-80	40	RM110-90	RM110-120	RM110-110	RM110-90	RM110-100	RM110-110
50	RD235-110	RD235-90	RD235-90	—	RD235-120	RD235-110	50	RM110-110	RM110-150	RM110-140	RM110-110	RM110-120	RM110-130
60	—	RD235-130	RD235-120	—	—	—	60	RM110-150	RC170-130	RC170-130	RM110-150	RM110-150	RC170-130
70	—	—	—	—	—	—	70	RD235-100	RD235-100	RD235-100	RD235-100	RD235-100	RD235-100
80	—	—	—	—	—	—	80	RD235-120	RD235-120	RD235-120	RD235-120	RD235-120	RD235-120
29/34,4°F - 54/34°F	R32	R452B	R454B	R1234ZE	R290	R410	125/121,4°F - 105/115°F	R32	R452B	R454B	R1234ZE	R290	R410
10	RM110-40H	RM110-40H	RM110-40H	RM110-70H	RM110-40H	RM110-40H	10	RB60-50	RB60-60	RB60-50H	RB47-60H	RB60-50H	RB60-50H
12,5	RM110-50H	RM110-50H	RM110-50H	RM110-80H	RM110-50H	RM110-50H	12,5	RM110-40	RM110-40	RM110-40	RM110-30	RM110-40	RM110-40
15	RM110-60H	RM110-50H	RM110-50H	RM110-100H	RM110-60H	RM110-60H	15	RM110-40	RM110-40H	RM110-40H	RM110-40	RM110-40	RM110-40H
20	RM110-80H	RM110-70H	RM110-70H	RD235-70	RM110-80H	RM110-80H	20	RM110-60	RM110-60H	RM110-60	RM110-50	RM110-60	RM110-60
25	RM110-100H	RM110-80H	RM110-80H	RD235-90	RM110-100H	RM110-100H	25	RM110-70	RM110-70H	RM110-70H	RM110-60	RM110-70	RM110-70H
30	RM110-130H	RM110-110H	RM110-110H	RD235-120	RM110-150H	RM110-130H	30	RM110-80	RM110-80H	RM110-80H	RM110-70	RM110-80	RM110-80H
35	RD235-80	RM110-140H	RM110-140H	—	RD235-80	RD235-80	35	RM110-90	RM110-100H	RM110-100H	RM110-80	RM110-90	RM110-100
40	RD235-90	RD235-80	RD235-80	—	RD235-90	RD235-90	40	RM110-110	RM110-110H	RM110-110H	RM110-90	RM110-110	RM110-110H
50	RD235-130	RD235-100	RD235-100	—	—	RD235-120	50	RM110-130	RM110-150	RM110-150	RM110-110	RM110-130	RM110-150
60	—	—	—	—	—	—	60	RC170-130	RC170-130	RC170-130	RM110-150	RC170-130	RC170-130
70	—	—	—	—	—	—	70	RD235-100	RD235-100	RD235-100	RD235-100	RD235-100	RD235-100
80	—	—	—	—	—	—	80	RD235-120	RD235-120	RD235-120	RD235-120	RD235-120	RD235-120
18/23,4°F - 32/23°F	R32	R452B	R454B	R1234ZE	R290	R410	145/141,4°F - 125/135°F	R32	R452B	R454B	R1234ZE	R290	R410
10	RM110-70H	RM110-60H	RM110-60H	RM110-100H	RM110-70H	RM110-70H	10	RHB60-40	RHB60-60	RHB60-60	RB47-60H	RB60-50	RHB60-50H
12,5	RM110-90H	RM110-80H	RM110-80H	RM110-140H	RM110-80H	RM110-80H	12,5	RHC110-40	RHC110-50	RHC110-50	RM110-30	RM110-40	RHC110-50
15	RM110-110H	RM110-90H	RM110-90H	RD235-80	RM110-100H	RM110-100H	15	RHC110-50	RHC110-60	RHC110-60	RM110-40	RM110-40	RHC110-60
20	RM110-150H	RM110-120H	RM110-120H	RD235-100	RD235-70	RM110-140H	20	RHC110-60	RHC110-80	RHC110-80	RM110-50	RM110-50	RHC110-80
25	RD235-90	RD235-80	RD235-80	—	RD235-90	RD235-90	25	RHC110-80	RHC110-100	RHC110-100	RM110-60	RM110-60	RHC110-100
30	RD235-110	RD235-90	RD235-90	—	RD235-110	RD235-100	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	—

TYPE AND SIZE OF CONNECTIONS

L	Luna	R	Connections																	
			1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 1/8"	1 3/8"	1 5/8"	2"	2 1/8"	2 1/2"	3"	4"	6"
LA12				⊙⊙	⊙⊙		⊙⊙													
LA14	LA14LN	RVA14	RCA14	RSA14	⊕	⊙⊙ ⊕	⊙⊙ ⊕	⊕	⊙⊙ ⊕	⊕										
LA22	LA22LN	RVA22	RCA22	RSA22	⊕	⊙⊙ ⊕	⊙⊙ ⊕	⊕	⊙⊙ ⊕	⊕										
LA34	LA34LN	RVA34	RCA34	RSA34	⊕	⊙⊙ ⊕	⊙⊙ ⊕	⊕	⊙⊙ ⊕	⊕										
LJ30								⊙⊙	⊙											
LH40								⊙⊙	⊙											
LB31	LB31LN	RVB31	RCB31	RSB31	⊕	⊕	⊕	⊕	⊙⊙ Δ⊕	⊕	⊙⊙ Δ	Δ	⊕	⊕						
LB47	LB47LN	RVB47	RCB47	RSB47	⊕	⊕	⊕	⊕	⊙⊙ Δ⊕	⊕	⊙⊙ Δ	Δ	⊕	⊕						
LB60	LB60LN	RVB60	RCB60		⊕	⊕	⊕	⊕	⊙⊙ Δ⊕	⊕	⊙⊙ Δ	Δ	⊕	⊕						
LM110	LM110LN	RVM110	RCM110						⊕				⊕	⊕	⊕	⊙				
LC110	LC110LN	RVC110	RCC110						⊕	⊙⊕	⊙⊙ Δ	⊙⊙ Δ	⊕	⊕	⊕	⊙⊙ ⊕	⊕	⊙Δ		
LC170	LC170LN	RVC170	RCC170						⊕	⊙⊕	⊙⊙ Δ	⊙⊙ Δ	⊕	⊕	⊕	⊙⊙ ⊕	⊕	⊙Δ		
LD235	LD235LN	RVD235	RCD235															⊕⊕		
LE400																			⊕⊕	
LF700																				⊕⊕

- ⊙

internal thread
- Δ

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



