Hexonic | HEAT EXCHANGERS

# 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 and the double wall 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.

### FLEXIBILE 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.

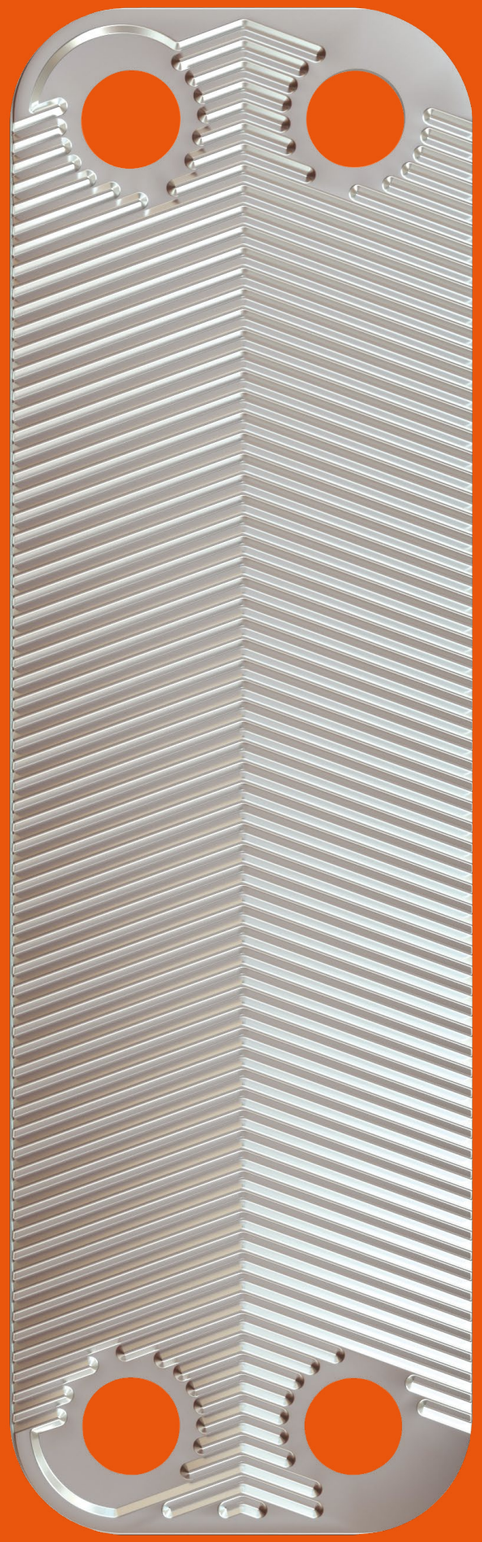
### APPLICATION

- 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
- ASYMMETRIC OPTION AVAILABLE



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

LA12-60-2S-3/4”

- LA12 – size of plates
- 60 – № of plates
- 2S – type and size of connections

brazed plate heat exchanger

2S – 2-pass with 6 connections
2 – 2-pass with 4 connections
no letter – 1-pass

## PRODUCT LINE

LA12 LA14 LA22 LA34 LJ30 LH40 LB31 LB47 LB60

LM110 LC110 LC170 LD235 LE400 LF700

# TECHNICAL DATA

## STANDARD LOCATION OF CONNECTIONS

### 1-PASS HEAT EXCHANGER

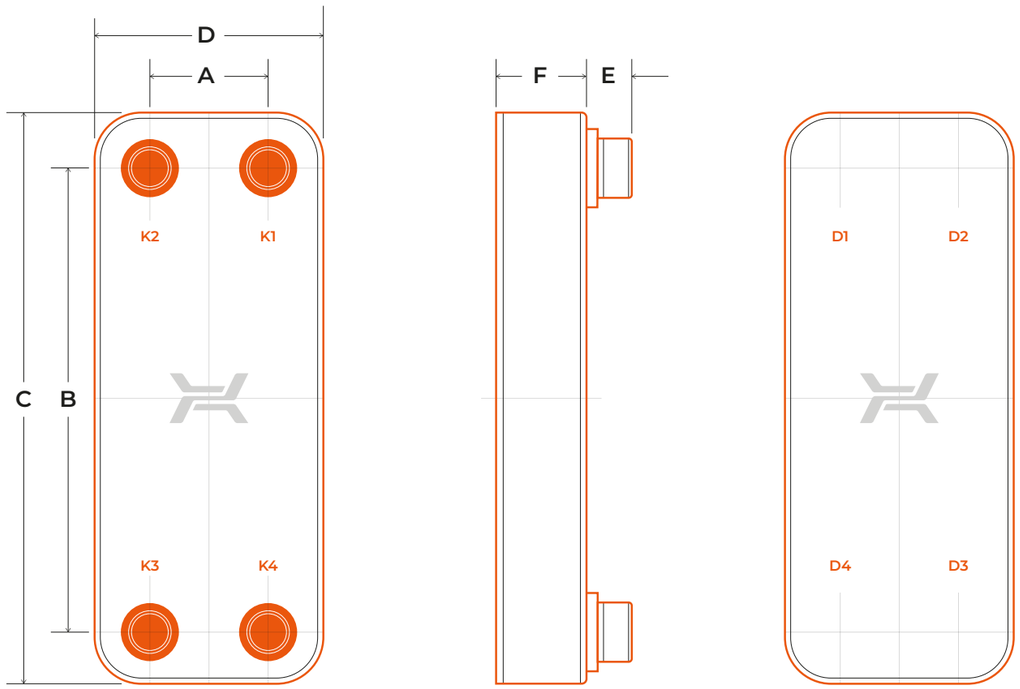
K1 / K4 — inlet / outlet hot side
K3 / K2 — inlet / outlet cold side

### 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
— GROUP II FLUIDS
— OTHER (CONSULT THE MANUFACTURER)

### WORKING PARAMETERS

MAX. TEMPERATURE — 230°C
LJ — 160°C

MIN. TEMPERATURE — -195°C
FOR FLANGE CS — 0°C

MAX. PRESSURE
LA, LB, LH — 3 MPA
LM, LC, LD, LE — 2,5 MPA
LJ, LF — 1,6 MPA

# TECHNICAL PARAMETERS

| Type | Dimensions A | | B | | C | | D | | E | | F | | max nº | Mass | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | | kg | lb |
| **LA12** | 40 | 1.6 | 154 | 6.1 | 190 | 7.5 | 72 | 2.8 | 16/20 | 0.6/0.8 | 9 + 2.45 × NP | 0.35 + 0.10 × NP | 60 | 0.4 + 0.049 × NP | 0.88 + 0.11 × NP |
| **LA14** | 42 | 1.7 | 164 | 6.5 | 203 | 8.0 | 81 | 3.2 | 16/20 | 0.6/0.8 | 9 + 2.30 × NP | 0.35 + 0.09 × NP | 60 | 0.6 + 0.049 × NP | 1.32 + 0.11 × NP |
| **LA21AS** | 40 | 1.6 | 278 | 10.9 | 314 | 13.4 | 73 | 2.9 | 14 | 0.6 | 11 + 2.3 × NP | 0.39 + 0.09 × NP | 60 | 0.58 + 0.06 × NP | 1.28 + 0.13 × NP |
| **LA22** | 42 | 1.7 | 260 | 10.2 | 299 | 11.8 | 81 | 3.2 | 16/20 | 0.6/0.8 | 9 + 2.30 × NP | 0.35 + 0.09 × NP | 60 | 0.8 + 0.073 × NP | 1.76 + 0.16 × NP |
| **LA22(X)** | 42 | 1.7 | 260 | 10.2 | 299 | 11.8 | 81 | 3.2 | 16/20 | 0.6/0.8 | 9 + 1.9 × NP | 0.35 + 0.07 × NP | 60 | 0.8 + 0.073 × NP | 1.76 + 0.16 × NP |
| **LA34** | 42 | 1.7 | 432 | 17.0 | 471 | 18.5 | 81 | 3.2 | 16/20 | 0.6/0.8 | 9 + 2.30 × NP | 0.35 + 0.09 × NP | 60 | 1.2 + 0.116 × NP | 2.65 + 0.26 × NP |
| **LJ30** | 46 | 1.8 | 270 | 10.6 | 318 | 12.5 | 98 | 3.9 | 20 | 0.8 | 9 + 1.70 × NP. | 0.35 + 0.07 × NP | 60 | 1.1 + 0.064 × NP | 2.43 + 0.14 × NP |
| **LH40** | 43 | 1.7 | 415 | 16.3 | 461 | 18.1 | 89 | 3.5 | 28 | 1.1 | 10 + 2.25 × NP | 0.39 + 0.09 × NP. | 60 | 1.7 + 0.134 × NP | 3.75 + 0.30 × NP |
| **LB31** | 68 | 2.7 | 232 | 9.1 | 286 | 11.3 | 123 | 4.8 | 28 | 1.1 | 10 + 2.35 × NP | 0.39 + 0.09 × NP | 150 | 1.6 + 0.114 × NP | 3.53 + 0.25 × NP |
| **LB47** | 68 | 2.7 | 360 | 14.2 | 417 | 16.4 | 123 | 4.8 | 28 | 1.1 | 10 + 2.35 × NP | 0.39 + 0.09 × NP | 150 | 2.1 + 0.168 × NP | 4.63 + 0.37 × NP |
| **LB60** | 68 | 2.7 | 480 | 18.9 | 538 | 21.2 | 123 | 4.8 | 28 | 1.1 | 11 + 2.35 × NP | 0.43 + 0.09 × NP | 150 | 2.6 + 0.219 × NP | 5.73 + 0.48 × NP |
| **LB60(X)** | 68 | 2.7 | 480 | 18.9 | 538 | 21.2 | 123 | 4.8 | 28 | 1.1 | 11 + 1.95 × NP | 0.43 + 0.077 × NP | 150 | 2.6 + 0.219 × NP | 5.73 + 0.48 × NP |
| **LM110** | 91 | 3.6 | 520 | 20.5 | 619 | 24.4 | 190 | 7.5 | 48 | 1.9 | 10 + 2.60 × NP | 0.39 + 0.10 × NP | 200 | 8.4 + 0.408 × NP | 18.52 + 0.90 × NP |
| **LC110** | 170 | 6.7 | 378 | 14.9 | 466 | 18.4 | 258 | 10.2 | 28/38; 100 | 1.1/1.5; 3.9 | 11 + 2.40 × NP | 0.43 + 0.09 × NP | 200 | 8.7 + 0.408 × NP | 19.18 + 0.90 × NP |
| **LC110AS** | 170 | 6.7 | 378 | 14.9 | 466 | 18.4 | 258 | 10.2 | 28/38; 100 | 1.9 | 11 + 2.40 × NP | 0.39 + 0.09 × NP | 200 | 8.7 + 0.408 × NP | 19.18 + 0.90 × NP |
| **LC170** | 170 | 6.7 | 600 | 23.6 | 688 | 27.1 | 258 | 10.2 | 28/38; 100 | 1.1/1.5; 3.9 | 11 + 2.40 × NP | 0.43 + 0.09 × NP | 200 | 11.5 + 0.617 × NP | 25.35 + 1.36 × NP |
| **LD235** | 204 | 8.0 | 682 | 26.9 | 788 | 31.0 | 310 | 12.2 | 100 | 3.9 | 13 + 2.5 × NP | 0.51 + 0.10 × NP | 280 | 40 + 0.828 × NP | 88.18 + 1.83 × NP |
| **LE400** | 240 | 9.5 | 861 | 33.9 | 1008 | 39.7 | 387 | 15.2 | 93 | 3.7 | 17 + 2.75 × NP | 0.67 + 0.11 × NP | 400 | 74.3 + 1.625 × NP | 163.80 + 3.58 × NP |
| **LF700** | 325 | 12.8 | 1100 | 43.31 | 1327 | 52.24 | 552 | 21.72 | 115 | 5.51 | 19 + 2.3 × NP | 0.75 + 0.09 × NP | 400 | 159.2 + 3.35 × NP | 406.97 + 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.

Mass is given for 1-pass heat exchangers.

# LUNA

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

### APPLICATION

**WHEN HIGH LEVEL OF HYGIENE IS CRUCIAL**

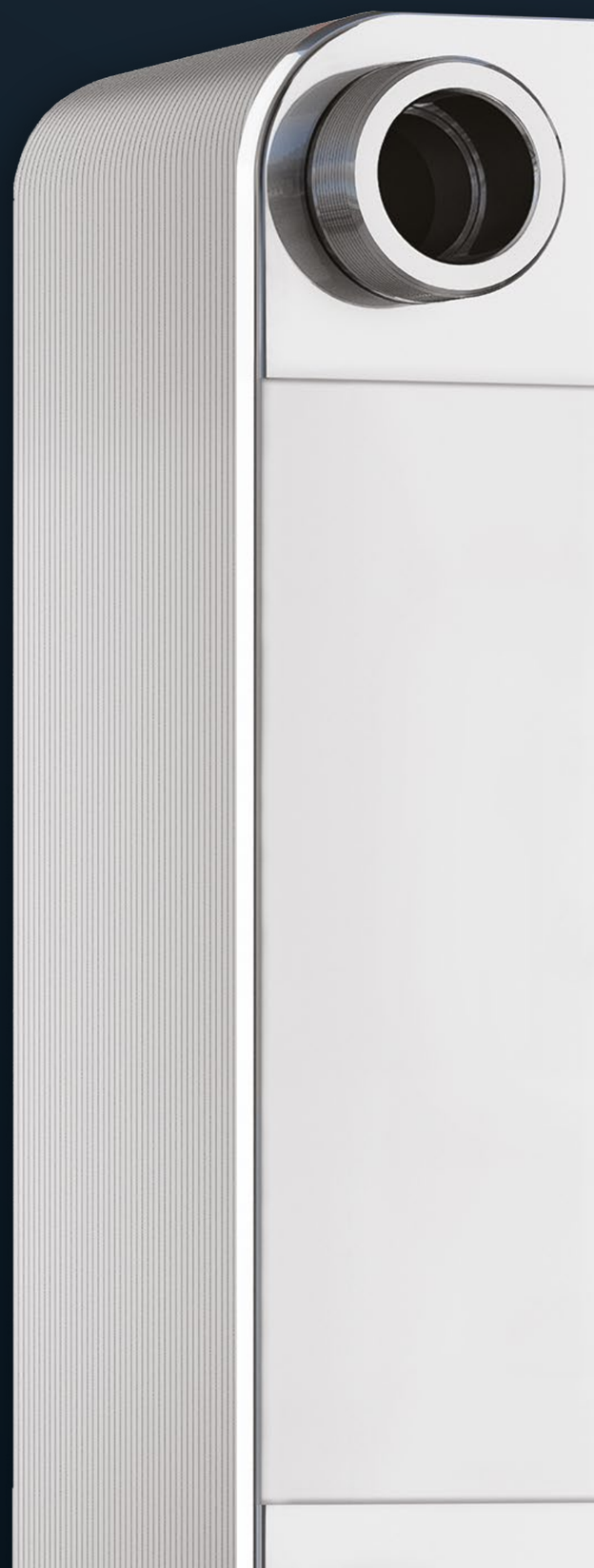
- SYSTEMS WITH DEMINERALIZED WATER
- DOMESTIC HOT WATER SYSTEMS
- COOLING SYSTEMS WITH HIGH HYGIENIC STANDARDS

**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”

- LA14LN — brazed plate heat exchanger
- LN — stainless brazing
- 60 — nº of plates
- 2S — 2-pass with 6 connections; 2 — 2-pass with 4 connections; no letter — 1-pass
- 3/4” — type and size of connections

## PRODUCT LINE

LA14LN

LA22LN

LA34LN

LB31LN

LB47LN

LB60LN

LM110LN

LC110LN

LC170LN

LD235LN

# TECHNICAL DATA

## STANDARD LOCATION OF CONNECTIONS

### 1-PASS HEAT EXCHANGER

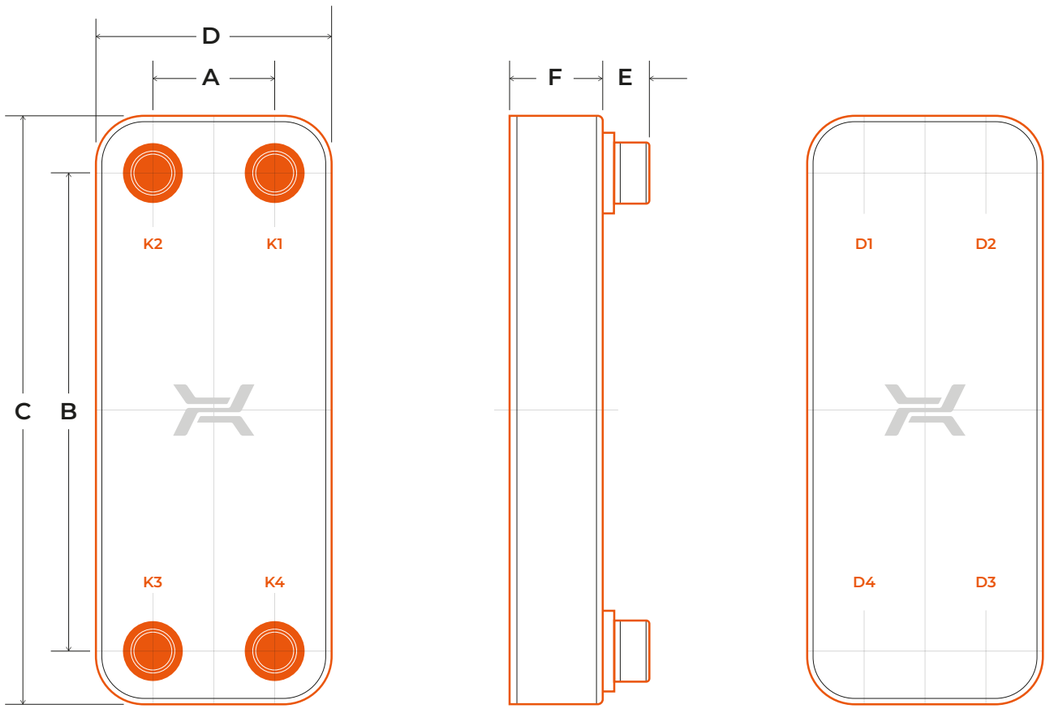
K1 / K4 — inlet / outlet hot side
K3 / K2 — inlet / outlet cold side

### 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
— GROUP II FLUIDS
— OTHER (CONSULT THE MANUFACTURER)

### WORKING PARAMETERS

MAX. TEMPERATURE — 200°C

MIN. TEMPERATURE — -195°C

MAX. PRESSURE
LA LN, LB LN — 2 MPA
LC LN, LD LN — 1,6 MPA
LM LN — 2,5 MPA

# TECHNICAL PARAMETERS

| Type | Dimensions A | | B | | C | | D | | E | | F | | max nº of plates | Mass | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | | kg | lb |
| **LA14LN** | 42 | 1.7 | 164 | 6.5 | 203 | 8.0 | 81 | 3.2 | 16 | 0.6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 60 | 0,6 + 0,054 × NP | 1.32 + 0.12 × NP |
| **LA22LN** | 42 | 1.7 | 260 | 10.2 | 299 | 11.8 | 81 | 3.2 | 16 | 0.6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 60 | 0,8 + 0,075 × NP | 1.76 + 0.17 × NP |
| **LA34LN** | 42 | 1.7 | 432 | 17.0 | 471 | 18.5 | 81 | 3.2 | 16 | 0.6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 60 | 1,2 + 0,112 × NP | 2.65 + 0.25 × NP |
| **LB31LN** | 68 | 2.7 | 232 | 9.1 | 286 | 11.3 | 123 | 4.8 | 28 | 1.1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 150 | 1,6 + 0,126 × NP | 3.53 + 0.28 × NP |
| **LB47LN** | 68 | 2.7 | 360 | 14.2 | 417 | 16.4 | 123 | 4.8 | 28 | 1.1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 150 | 2,2 + 0,174 × NP | 4.85 + 0.38 × NP |
| **LB60LN** | 68 | 2.7 | 480 | 18.9 | 538 | 21.2 | 123 | 4.8 | 28 | 1.1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 150 | 2,7 + 0,219 × NP | 5.95 + 0.48 × NP |
| **LM110LN** | 91 | 3.6 | 520 | 20.5 | 619 | 24.4 | 190 | 7.5 | 48 | 1.9 | 10 + 2,6 × NP | 0.39 + 0.10 × NP | 180 | 14,68 + 0,864 × NP | 6.66 + 0.392 × NP |
| **LC110LN** | 170 | 6.7 | 378 | 14.9 | 466 | 18.4 | 258 | 10.2 | 28; 100 | 1.1; 3.9 | 11 + 2,4 × NP | 0.43 + 0.09 × NP | 180 | 9,1 + 0,454 × NP | 20.06 + 0.99 × NP |
| **LC170LN** | 170 | 6.7 | 600 | 23.6 | 688 | 27.1 | 258 | 10.2 | 28; 100 | 1.1; 3.9 | 11 + 2,4 × NP | 0.43 + 0.09 × NP | 180 | 11,9 + 0,642 × NP | 26.24 + 1.41 × NP |
| **LD235LN** | 204 | 8.0 | 682 | 26.9 | 788 | 31.0 | 310 | 12.2 | 100 | 3.9 | 13 + 2,5 × NP | 0.51 + 0.1 × NP | 160 | 40,8 + 0,049 × NP | 89.95 + 0.11 × 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 UNITS
- HEAT PUMPS
- ICE WATER GENERATORS
- COOLING SYSTEMS WITH SPECIAL CONSTRUCTION



### ADVANTAGES

- OUTSTANDING RELIABILITY
- OPTIMIZED FOR MODERN REFRIGERANTS
- RESISTANCE TO CYCLIC FATIGUE
- SPECIAL CHANNEL PATTERN ENSURES EFFECTIVE EVAPORATION OR CONDENSATION
- RESISTANCE 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.

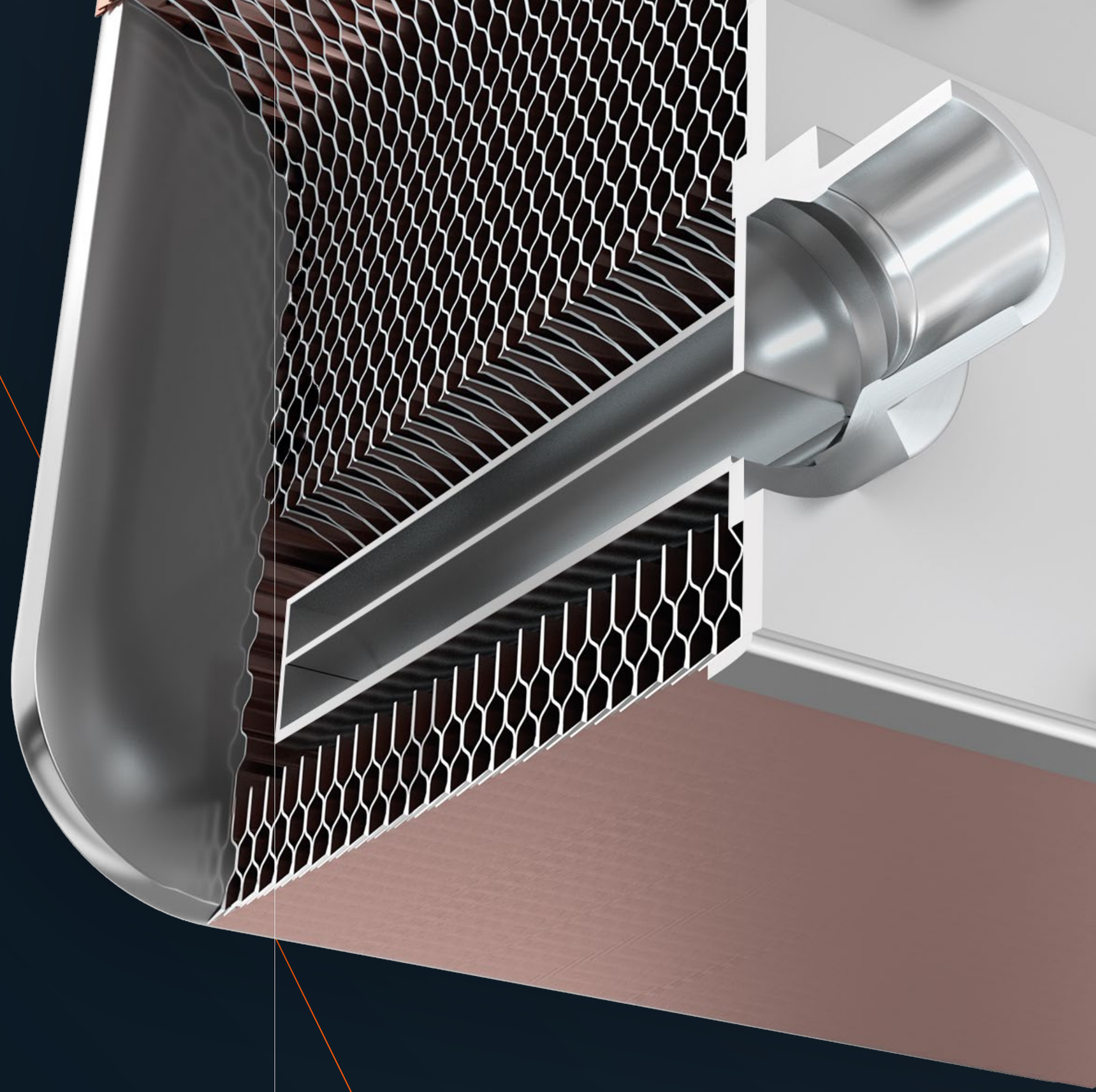
## CONDENSERS

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

RVA31-10

- RVA – brazed plate heat exchanger for refrigerating systems
- V – for evaporators
  C – for condensers
  S – for subcoolers/economizers/ desuperheaters
- 31 – size of heating plates
- 10 – № of heating plates

## PRODUCT LINE

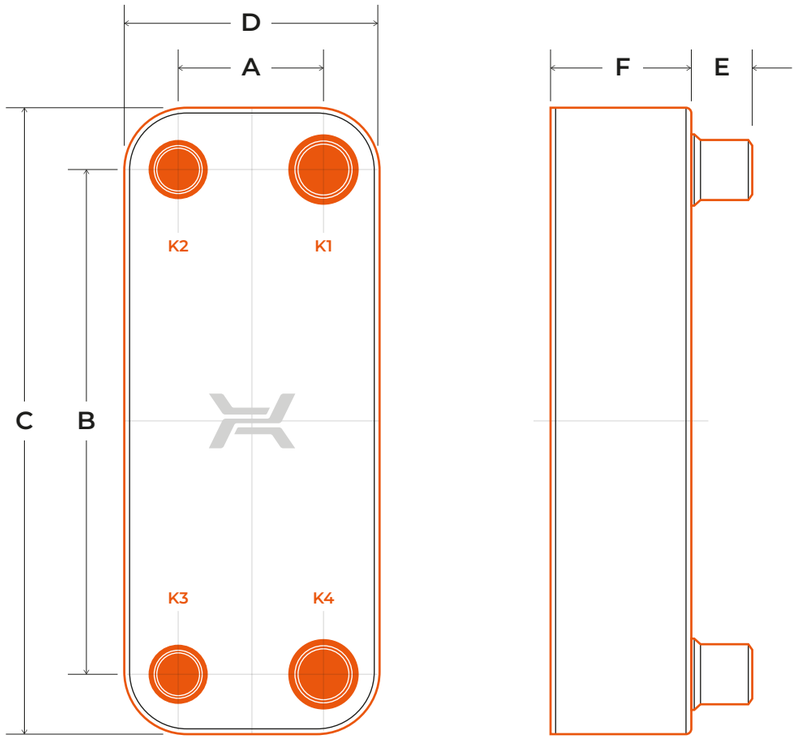
RVA14 RVA22 RVA34 RVB31 RVB47

RVB60 RVC110 RVC170 RVM110 RVD235

# TECHNICAL DATA

## STANDARD LOCATION OF CONNECTIONS
(DEPENDING ON WHETHER IT IS EVAPORATOR OR CONDENSER)

K 4 / K 1 — inlet / outlet of refrigerant
K3 / K 2 — inlet / outlet of water or glycol




## MATERIALS

— STAINLESS STEEL
— COPPER BRAZING

## EXEMPLARY MEDIA

REFRIGERANT SIDE
— R32, R452B, R454B, R1234ZE, R290, R410

OTHER SIDE
— WATER
— PROPYLENE GLYCOL SOLUTIONS
— GROUP II FLUIDS
— OTHER (CONSULT THE MANUFACTURER)

## WORKING PARAMETERS

MAX. TEMPERATURE — 150°C / 302°F

MIN. TEMPERATURE — -195°C / -319°F

MAX. PRESSURE
REFRIGERANT SIDE — 4,5 MPA / 653 PSI
WATER, GLYCOL SIDE — 2,5 MPA / 363 PSI



# TECHNICAL PARAMETERS

| Type | Dimensions | | | | | | | | | | | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | | B | | C | | D | | E | | F | | | |
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | kg | lb |
| **EVAPORATORS** | | | | | | | | | | | | | | |
| **RVA14** | 42 | 1,7 | 164 | 6,5 | 203 | 8,0 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 0,7 + 0,049 × NP | 1.54 + 0.11 × NP |
| **RVA22** | 42 | 1,7 | 260 | 10,2 | 299 | 11,8 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 0,9 + 0,073 × NP | 1.98 + 0.16 × NP |
| **RVA34** | 42 | 1,7 | 432 | 17,0 | 471 | 18,5 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 1,3 + 0,116 × NP | 2.87 + 0.26 × NP |
| **RVB31** | 68 | 2,7 | 232 | 9,1 | 286 | 11,3 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 1,7 + 0,114 × NP | 3.75 + 0.25 × NP |
| **RVB47** | 68 | 2,7 | 360 | 14,2 | 417 | 16,4 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 2,3 + 0,168 × NP | 5.07 + 0.37 × NP |
| **RVB60** | 68 | 2,7 | 480 | 18,9 | 538 | 21,2 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 2,8 + 0,219 × NP | 6.17 + 0.48 × NP |
| **RVB60X** | 68 | 2,7 | 480 | 18,9 | 538 | 21,2 | 123 | 4,8 | 28 | 1,1 | 13 + 1,95 × NP | 0.39 + 0.077 × NP | 2,8 + 0,219 × NP | 6.17 + 0.48 × NP |
| **RVC110** | 170 | 6,7 | 378 | 14,9 | 466 | 18,3 | 258 | 10,2 | 28 | 1,1 | 10 + 2,4 × NP | 0.39 + 0.09 × NP | 8,8 + 0,409 × NP | 19.40 + 0.9 × NP |
| **RVC170** | 170 | 6,7 | 600 | 23,6 | 688 | 27,1 | 258 | 10,2 | 28 | 1,1 | 10 + 2,4 × NP | 0.39 + 0.09 × NP | 11,5 + 0,617 × NP | 25.35 + 1.36 × NP |
| **RVM110** | 91 | 3,6 | 520 | 20,5 | 619 | 24,4 | 190 | 7,5 | 28 | 1,1 | 10 + 2,6 × NP | 0,393 + 0,102 × NP | 8,4 + 0,408 × NP | 18.52 + 0.9 × NP |
| **RVD235** | 204 | 8,0 | 682 | 26,9 | 788 | 31,0 | 310 | 12,2 | 28 | 1,1 | 13 + 2,5 × NP | 0.51 + 0.10 × NP | 40 + 0,828 × NP | 88.18 + 1.83 × NP |
| **CONDENSERS** | | | | | | | | | | | | | | |
| **RCA14** | 42 | 1,7 | 164 | 6,5 | 203 | 8,0 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 0,7 + 0,049 × NP | 1.54 + 0.11 × NP |
| **RCA22** | 42 | 1,7 | 260 | 10,2 | 299 | 11,8 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 0,9 + 0,073 × NP | 1.98 + 0.16 × NP |
| **RCA34** | 42 | 1,7 | 432 | 17,0 | 471 | 18,5 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 1,3 + 0,116 × NP | 2.87 + 0.26 × NP |
| **RCB31** | 68 | 2,7 | 232 | 9,1 | 286 | 11,3 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.35 + 0.09 × NP | 1,7 + 0,114 × NP | 3.75 + 0.25 × NP |
| **RCB47** | 68 | 2,7 | 360 | 14,2 | 417 | 16,4 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 2,3 + 0,168 × NP | 5.07 + 0.37 × NP |
| **RCB60** | 68 | 2,7 | 480 | 18,9 | 538 | 21,2 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 2,8 + 0,219 × NP | 6.17 + 0.48 × NP |
| **RCB60X** | 68 | 2,7 | 480 | 18,9 | 538 | 21,2 | 123 | 4,8 | 28 | 1,1 | 13 + 1,95 × NP | 0.39 + 0.077 × NP | 2,8 + 0,219 × NP | 6.17 + 0.48 × NP |
| **RCC110** | 170 | 6,7 | 378 | 14,9 | 466 | 18,3 | 258 | 10,2 | 28 | 1,1 | 10 + 2,4 × NP | 0.39 + 0.09 × NP | 8,8 + 0,409 × NP | 19.4 + 0.9 × NP |
| **RCC170** | 170 | 6,7 | 600 | 23,6 | 688 | 27,1 | 258 | 10,2 | 28 | 1,1 | 10 + 2,4 × NP | 0.39 + 0.09 × NP | 11,5 + 0,617 × NP | 25.35 + 1.36 × NP |
| **RCM110** | 91 | 3,6 | 520 | 20,5 | 619 | 24,4 | 190 | 7,5 | 28 | 1,1 | 10 + 2,6 × NP | 0.39 + 0.10 × NP | 8,4 + 0,408 × NP | 18.52 + 0.9 × NP |
| **RCD235** | 204 | 8,0 | 682 | 26,9 | 788 | 31,0 | 310 | 12,2 | 28 | 1,1 | 13 + 2,5 × NP | 0.51 + 0.10 × NP | 40 + 0,828 × NP | 88.18 + 1.83 × NP |
| **SUBCOOLERS / ECONOMIZERS / DESUPERHEATERS** | | | | | | | | | | | | | | |
| **RSA14** | 42 | 1,7 | 164 | 6,5 | 203 | 8,0 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 0,7 + 0,049 × NP | 1.54 + 0.11 × NP |
| **RSA22** | 42 | 1,7 | 260 | 10,2 | 299 | 11,8 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 0,9 + 0,073 × NP | 1.98 + 0.16 × NP |
| **RSA34** | 42 | 1,7 | 432 | 17,0 | 471 | 18,5 | 81 | 3,2 | 16 | 0,6 | 9 + 2,3 × NP | 0.35 + 0.09 × NP | 1,3 + 0,116 × NP | 2.87 + 0.26 × NP |
| **RSB31** | 68 | 2,7 | 232 | 9,1 | 286 | 11,3 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 1,7 + 0,114 × NP | 3.75 + 0.25 × NP |
| **RSB47** | 68 | 2,7 | 360 | 14,2 | 417 | 16,4 | 123 | 4,8 | 28 | 1,1 | 10 + 2,35 × NP | 0.39 + 0.09 × NP | 2,3 + 0,168 × 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]

| W12 | R32 | R452B | R454B | R1234ZE | R290 | R410 |
|---|---|---|---|---|---|---|
| **4 kW** | RVA22-60 | RVA22-50 | RVA22-50 | RVB31H-40 | RVA22-50 | RVA22-50 |
| **6 kW** | RVA34-30 | RVA34-20 | RVA34-20 | RVB31H-50 | RVA34-20 | RVA34-20 |
| **9 kW** | RVA34-30 | RVA34-30 | RVA34-30 | RVC110-30 | RVB31H-80 | RVA34-30 |
| **12 kW** | RVB47H-50 | RVB47H-40 | RVB47H-40 | RVC110-40 | RVB47H-50 | RVB47H-50 |
| **16 kW** | RVB47H-90 | RVB47H-70 | RVB47H-70 | RVC110-50 | RVC110-40 | RVB47H-70 |
| **20 kW** | RVB60H-40 | RVB60H-40 | RVB60H-40 | RVC110-70 | RVC110-50 | RVB60H-40 |
| **25 kW** | RVC110-80 | RVC110-70 | RVC110-70 | RVC110-100 | RVC110-70 | RVC110-70 |
| **35 kW** | RVC170-40 | RVC170-30 | RVC170-30 | RVD235-30 | RVC170-30 | RVC170-30 |
| **50 kW** | RVC170-50 | RVC170-40 | RVC170-40 | — | RVD235-30 | RVC170-50 |
| **60 kW** | RVC170-60 | RVC170-50 | RVC170-50 | — | RVD235-40 | RVC170-50 |

| W35 | R32 | R452B | R454B | R1234ZE | R290 | R410 |
|---|---|---|---|---|---|---|
| **4 kW** | RCA14-40 | RCA14-40 | RCA14-40 | RCA14-40 | RCA14-50 | RCA14-30 |
| **6 kW** | RCA14-50 | RCA14-60 | RCA14-60 | RCA14-60 | RCA22-40 | RCA14-50 |
| **9 kW** | RCA22-40 | RCA22-50 | RCA22-50 | RCA22-40 | RCA22-50 | RCA14-60 |
| **12 kW** | RCA22-50 | RCA22-60 | RCA22-60 | RCA22-60 | RCA22-60 | RCA22-50 |
| **16 kW** | RCA22-60 | RCA34-40 | RCA34-40 | RCB31-80 | RCA34-30 | RCA22-60 |
| **20 kW** | RCA34-30 | RCA34-40 | RCA34-40 | RCB31-90 | RCA34-40 | RCA34-50 |
| **25 kW** | RCA34-40 | RCA34-50 | RCA34-50 | RCB31H-80 | RCB31H-90 | RCA34-60 |
| **35 kW** | RCA34-50 | RCB47-80 | RCB47-80 | RC110-40 | RCB47-90 | RCB31H-100 |
| **50 kW** | RCB47-90 | RCB47H-100 | RCB47H-100 | RC110-50 | RC110-60 | RCB47-100 |
| **60 kW** | RCB47H-90 | RCB60-90 | RCB60-90 | RC110-60 | RC110-70 | RCB60-80 |

| W7 | R32 | R452B | R454B | R1234ZE | R290 | R410 |
|---|---|---|---|---|---|---|
| **4 kW** | RVA34-20 | RVA22-50 | RVA22-50 | RVB31H-40 | RVA22-60 | RVA22-50 |
| **6 kW** | RVA34-30 | RVA34-20 | RVA34-20 | RVB31H-60 | RVB31H-50 | RVA34-30 |
| **9 kW** | RVA34-40 | RVB31H-90 | RVB31H-90 | RVC110-30 | RVB31H-90 | RVA34-40 |
| **12 kW** | RVB47H-60 | RVB47H-50 | RVB47H-50 | RVC110-40 | RVC110-30 | RVB47H-50 |
| **16 kW** | RVB60-80 | RVB47H-80 | RVB47H-80 | RVC110-50 | RVC110-40 | RVB47H-90 |
| **20 kW** | RVB60H-50 | RVB60H-40 | RVB60H-40 | RVC110-70 | RVC110-60 | RVB60H-50 |
| **25 kW** | RVC110-90 | RVC110-70 | RVC110-80 | RVD235-30 | RVC110-80 | RVC110-80 |
| **35 kW** | RVC170-40 | RVC170-30 | RVC170-30 | RVD235-40 | RVC170-40 | RVC170-40 |
| **50 kW** | RVC170-50 | RVC170-50 | RVC170-40 | — | RVD235-40 | RVC170-50 |
| **60 kW** | RVC170-60 | RVC170-50 | RVC170-50 | — | RVD235-40 | RVC170-60 |

| W45 | R32 | R452B | R454B | R1234ZE | R290 | R410 |
|---|---|---|---|---|---|---|
| **4 kW** | RCA14-40 | RCA14-50 | RCA14-50 | RCA14-50 | RCA14-50 | RCA14-50 |
| **6 kW** | RCA14-50 | RCA14-60 | RCA14-60 | RCA22-30 | RCA22-40 | RCA22-40 |
| **9 kW** | RCA22-40 | RCA22-50 | RCA22-50 | RCA22-50 | RCA22-50 | RCA22-50 |
| **12 kW** | RCA22-50 | RCA22-60 | RCA22-60 | RCA22-60 | RCA22-60 | RCA22-60 |
| **16 kW** | RCA22-60 | RCA34-40 | RCA34-40 | RCA34-30 | RCA34-30 | RCA34-40 |
| **20 kW** | RCA34-30 | RCA34-50 | RCA34-50 | RCB31-100 | RCA34-40 | RCA34-40 |
| **25 kW** | RCA34-40 | RCA34-60 | RCA34-60 | RCB31H-90 | RCA34-50 | RCA34-50 |
| **35 kW** | RCA34-50 | RCB47-90 | RCB47-90 | RCB47-80 | RCB47-90 | RCB47-90 |
| **50 kW** | RCB47-90 | RCB60-80 | RCB60-80 | RC110-60 | RCB60-80 | RCB60-80 |
| **60 kW** | RCB47H-100 | RCB60-100 | RCB60-100 | RC110-60 | RC110-70 | RCB60-100 |

| B0 | R32 | R452B | R454B | R1234ZE | R290 | R410 |
|---|---|---|---|---|---|---|
| **4 kW** | RVA34-30 | RVA34-30 | RVA34-30 | RVB47H-50 | RVA34-30 | RVA34-30 |
| **6 kW** | RVA34-40 | RVA34-30 | RVA34-30 | RVC110-40 | RVB47H-60 | RVA34-40 |
| **9 kW** | RVB60-60 | RVB60-40 | RVB60-40 | RVC110-50 | RVB60H-40 | RVB60H-40 |
| **12 kW** | RVB60H-50 | RVB60H-40 | RVB60H-40 | RVC170-30 | RVC110-60 | RVB60H-50 |
| **16 kW** | RVB60H-70 | RVB60H-60 | RVC170-30 | RVC170-30 | RVC170-30 | RVC170-30 |
| **20 kW** | RVC170-30 | RVC170-30 | RVC170-30 | RVD235-30 | RVC170-30 | RVC170-30 |
| **25 kW** | RVC170-40 | RVC170-40 | RVC170-40 | RVD235-40 | RVC170-40 | RVC170-40 |
| **35 kW** | RVC170-50 | RVC170-50 | RVC170-50 | — | RVD235-40 | RVC170-50 |
| **50 kW** | RVC170-70 | RVC170-60 | RVC170-60 | — | RVD235-50 | RVD235-50 |
| **60 kW** | RVD235-60 | RVD235-50 | RVD235-50 | — | — | RVD235-60 |

| W55 | R32 | R452B | R454B | R1234ZE | R290 | R410 |
|---|---|---|---|---|---|---|
| **4 kW** | RCA14-40 | RCA14-40 | RCA14-50 | RCA14-50 | RCA14-50 | RCA14-50 |
| **6 kW** | RCA14-60 | RCA14-60 | RCA22-40 | RCA22-30 | RCA22-40 | RCA22-40 |
| **9 kW** | RCA22-40 | RCA22-50 | RCA22-50 | RCA22-50 | RCA22-50 | RCA22-50 |
| **12 kW** | RCA22-50 | RCA22-60 | RCA34-30 | RCA22-60 | RCA34-30 | RCA34-30 |
| **16 kW** | RCA22-60 | RCA34-40 | RCA34-40 | RCA34-30 | RCA34-30 | RCA34-30 |
| **20 kW** | RCA34-30 | RCA34-50 | RCA34-50 | RCB31-100 | RCA34-40 | RCA34-40 |
| **25 kW** | RCA34-40 | RCA34-60 | RCA34-60 | RCB31H-90 | RCA34-50 | RCA34-50 |
| **35 kW** | RCA34-50 | RCB47-90 | RCB47-90 | RCB47-80 | RCB47-90 | RCA34-60 |
| **50 kW** | RCB47-100 | RCB60-80 | RCB60-90 | RC110-60 | RCB60-80 | RCB60-80 |
| **60 kW** | RCB47H-90 | RCB60-100 | RCB60-100 | RC110-70 | RCB60-90 | RCB60-90 |

**EVAPORATOR**

MEDIUM
EVAPORATION TEMP.
— 4/-1/-8°C
OVERHEATING — 3K

WATER
12/7°C – 7/2°C
DPMAX<30KPA

PG35
0/-5°C
DPMAX<30KPA

**CONDENSER**

MEDIUM
CONDENSING TEMP.
— 58/48/38°C
OVERCOOLING — 2K

WATER
23/35°C – 35/45°C – 45/55°C
DPMAX<30KPA

**ECONOMIZER**

| | R410A |
|---|---|
| **4 kW** | RSA14-10 |
| **6 kW** | RSA14-10 |
| **9 kW** | RSA14-20 |
| **12 kW** | RSA14-30 |
| **16 kW** | RSB31-15 |
| **20 kW** | RSB31-20 |
| **25 KW** | RSB31-20 |
| **35 kW** | RSB31-30 |
| **50 kW** | RSB31-40 |
| **60 kW** | RSB31-60 |



## COOLING CAPACITY TABLE FOR HIGH POWER INSTALLATIONS

### EVAPORATOR [$dT_{GROUND\ SOURCE}$=10K]

| power [kW] | R1234ZE E | R134A | R290 |
|---|---|---|---|
| | W50W90 dT=10K | W45W80 dT=10K | W35W70 dT=10K |
| **150 kW** | RVC170-60 | RVC170-60 | RVC170-60 |
| **180 kW** | RVC170-70 | RVC170-70 | RVC170-70 |
| **210 kW** | RVC170-80 | RVC170-80 | RVC170-80 |
| **240 kW** | RVD235-70 | RVD235-70 | RVC170-90 |
| **270 kW** | RVD235-80 | RVD235-80 | RVD235-80 |
| **300 kW** | RVD235-90 | RVD235-90 | RVD235-90 |
| **350 kW** | RVD235-100 | RVD235-100 | RVD235-100 |
| **400 kW** | RVD235-120 | RVD235-120 | RVD235-120 |
| **450 kW** | RVD235-130 | RVD235-110 | RVD235-110 |
| **500 kW** | RVD235-140 | RVD235-120 | RVD235-130 |

| power [kW] | R1234ZE E | R134A | R290 |
|---|---|---|---|
| | W50W90 dT=5K | W45W80 dT=5K | W35W70 dT=5K |
| **150 kW** | RVD235-50 | RVC170-70 | RVC170-60 |
| **180 kW** | RVD235-60 | RVD235-50 | RVD235-50 |
| **210 kW** | RVD235-70 | RVD235-60 | RVD235-60 |
| **240 kW** | RVD235-80 | RVD235-70 | RVD235-70 |
| **270 kW** | RVD235-90 | RVD235-80 | RVD235-80 |
| **300 kW** | — | — | RVD235-90 |
| **350 kW** | — | — | RVD235-100 |
| **400 kW** | — | — | RVD235-110 |
| **450 kW** | — | — | — |
| **500 kW** | — | — | — |

### CONDENSER [$dT_{INSTALLATION}$=5K]

| power [kW] | R1234ZE E | R134A | R290 |
|---|---|---|---|
| | W50W90 dT=10K | W45W80 dT=10K | W35W70 dT=10K |
| **150 kW** | RCC110-80 | RCC110-70 | RCC110-50 |
| **180 kW** | RCC110-90 | RCC110-80 | RCC110-60 |
| **210 kW** | RCC110-100 | RCC110-90 | RCC110-70 |
| **240 kW** | RCC170-70 | RCC170-80 | RCC170-80 |
| **270 kW** | RCC170-90 | RCC170-90 | RCC170-90 |
| **300 kW** | RCC170-100 | RCC170-100 | RCC170-100 |
| **350 kW** | RCC170-120 | RCC170-120 | RCC170-120 |
| **400 kW** | RCD235-100 | RCD235-100 | RCD235-100 |
| **450 kW** | RCD235-110 | RCD235-110 | RCD235-110 |
| **500 kW** | RCD235-120 | RCD235-120 | RCD235-120 |

| power [kW] | R1234ZE E | R134A | R290 |
|---|---|---|---|
| | W50W90 dT=5K | BW | W35W70 dT=5K |
| **150 kW** | RCC170-70 | RCC170-70 | RCC170-50 |
| **180 kW** | RCC170-90 | RCC170-80 | RCC170-60 |
| **210 kW** | RCC170-100 | RCC170-100 | RCC170-70 |
| **240 kW** | RCC170-110 | RCC170-110 | RCC170-80 |
| **270 kW** | RCC170-130 | RCC170-120 | RCC170-90 |
| **300 kW** | RCC170-140 | RCC170-130 | RCC170-100 |
| **350 kW** | RCD235-110 | RCC170-150 | RCC170-120 |
| **400 kW** | RCD235-130 | RCD235-120 | RCD235-100 |
| **450 kW** | RCD235-140 | RCD235-130 | RCD235-110 |
| **500 kW** | RCD235-150 | RCD235-150 | RCD235-120 |

**EVAPORATOR**

MEDIUM
EVAPORATION TEMP.
— 35/30/25°C
OVERHEATING — 3K

WATER
50/45°C – 45/40°C – 35/30°C
DPMAX<30KPA

MEDIUM
EVAPORATION TEMP.
— 45/35/30°C
OVERHEATING — 3K

WATER
50/45°C – 45/40°C – 35/30°C
DPMAX<30KPA

**CONDENSER**

MEDIUM
CONDENSING TEMP.
— 100/90/80°C
OVERCOOLING — 2K

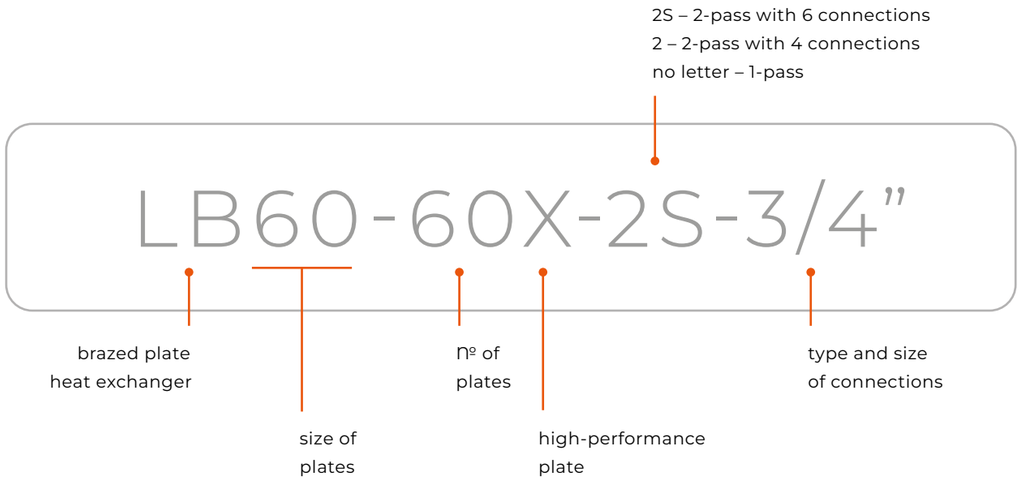
WATER
80/90°C – 70/80°C – 60/70°C
DPMAX<30KPA

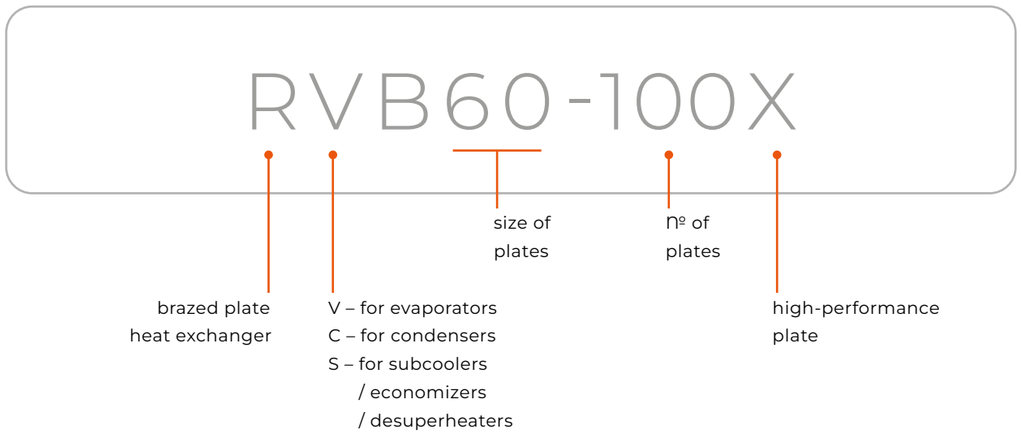
WATER
85/95°C – 75/85°C – 65/75°C
DPMAX<30KPA

# THE HIGH-PERFORMANCE PLATE

Our product range of brazed plate heat exchangers stands out for its extensive assortment and adaptable features, offering unmatched diversity in size, brazing material, connection types, flow arrangements, and accessory options. Now, we have gone one step further and created a reinforced heat exchanger dedicated to cooling and heating solutions. These ultra-efficient heat exchangers feature special heating plates "X", providing enhanced heat transfer efficiency and increased turbulence flow of the medium. Consequently, this leads to increased thermal efficiency, lower investment costs, and a reduced footprint.

## EXEMPLAR DESIGNATION






## ADVANTAGES

- ULTRA-EFFICIENT HEAT EXCHANGER FOR HEATING AND COOLING
- INCREASED FLOW TURBULENCE OF THE MEDIUM
- OPTIMIZED FLUID FLOW
- REDUCED REFRIGERANT USAGE
- ENHANCED THERMAL EFFICIENCY
- REINFORCED CONSTRUCTION FOR HIGHER PRESSURES
- INCREASED HEAT EXCHANGE AREA
- LOW CARBON FOOTPRINT

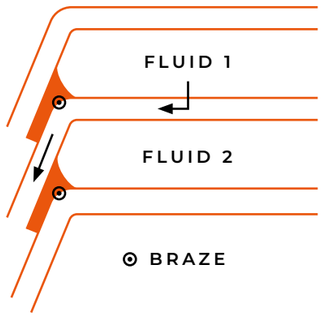
# SafePLATE

## DOUBLE WALL HEAT EXCHANGERS

DESIGNED FOR APPLICATIONS WHERE IT IS CRUCIAL TO DOUBLE-PROTECT MEDIA FROM MIXING AND QUICKLY DETECT ANY POTENTIAL INTERNAL LEAK.

### APPLICATION

- TAP WATER HEATING SYSTEMS
- CENTRAL HEATING SYSTEMS
- TECHNOLOGICAL SYSTEMS




### DOUBLE-WALL SYSTEM

In case of failure, either corrosion or pressure induced, special arrangement of double walls and interspace in sidewalls helps to prevent potential mixing of working media and allows the leakage to be visually detected.



### ADVANTAGES

- EFFECTIVE LEAK DETECTION
- HELPS TO PREVENT POTENTIAL MIXING OF WORKING MEDIA

## EXEMPLAR DESIGNATION

LA14SP-40-3/4”

- LA — brazed plate heat exchanger
- 14 — size of heating plates
- SP — double wall heating plate
- 40 — Nº of heating plates
- 3/4” — type and size of connections

## PRODUCT LINE

LB47SP



LC140SP

# TECHNICAL DATA

### MATERIALS

— STAINLESS STEEL
— COPPER BRAZING

### EXEMPLARY MEDIA

— WATER
— PROPYLENE GLYCOL SOLUTIONS
— GROUP II FLUIDS
— OTHER (CONSULT THE MANUFACTURER)

### WORKING PARAMETERS

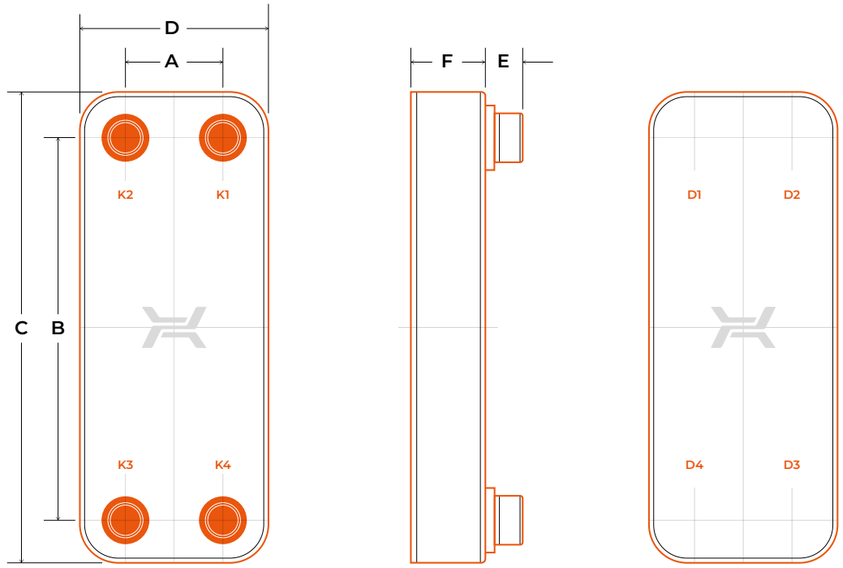
MAX. TEMPERATURE — 230°C / 446°F

MIN. TEMPERATURE — -195°C / -319°F

MAX. PRESSURE
LA SP, LB SP — 3 MPA / 435 PSI
LC SP — 2 MPA / 290 PSI

## STANDARD LOCATION OF CONNECTIONS

K1 / K4 — inlet / outlet hot side  K1 / K4 — inlet / outlet hot side




Double-wall heat exchangers have been designed to prevent media from mixing and enable quick leak detection. However, it should be remembered that no heat exchangers of this type guarantee the reliability of such operation and cannot be used instead of other safety systems.

# TECHNICAL PARAMETERS

| Type | Dimensions A | | B | | C | | D | | E | | F | | max Nº of plates | Mass | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | | kg | lb |
| **LB47SP 1"** | 68 | 2,68 | 360 | 14,17 | 418 | 16,46 | 126 | 4,93 | 28 | 1,1 | 11 + 2,6 × NP | 0.43 + 0.10 × NP | 100 | 3,66 + 0,26 × NP | 8.07 + 0.57 × NP |
| **LB47SP ¾"** | 68 | — | 360 | — | 418 | — | 126 | — | 28 | — | 11 + 2,6 × NP | — | 100 | 3,94 + 0,26 × NP | — |
| **LC140 L 2"** | 170 | — | 490 | — | 580 | — | 260 | — | 28 | — | 11 + 2,6 × NP | — | 150 | 9,26 + 0,822 × NP | — |
| **LC140 M 2"** | 170 | — | 490 | — | 580 | — | 260 | — | 28 | — | 11 + 2,6 × NP | — | 150 | 9,26 + 0,822 × NP | — |
| **LC140 H 2"** | 170 | — | 490 | — | 580 | — | 260 | — | 28 | — | 11 + 2,6 × NP | — | 150 | 9,26 + 0,822 × NP | — |
| **LC140 L 2,5"** | 170 | 6,69 | 490 | 19,29 | 580 | 22,83 | 260 | 10,23 | 38 | 1,5 | 11 + 2,6 × NP | 0.43 + 0.10 × NP | 150 | 9,43 + 0,822 × NP | 20.08 + 1.81 × NP |
| **LC140 M 2,5"** | 170 | 6,69 | 490 | 19,29 | 580 | 22,83 | 260 | 10,23 | 38 | 1,5 | 11 + 2,6 × NP | 0.43 + 0.10 × NP | 150 | 9,43 + 0,822 × NP | 20.08 + 1.81 × NP |
| **LC140 H 2,5"** | 170 | 6,69 | 490 | 19,29 | 580 | 22,83 | 260 | 10,23 | 38 | 1,5 | 11 + 2,6 × NP | 0.43 + 0.10 × NP | 150 | 9,43 + 0,822 × NP | 20.08 + 1.81 × NP |
| **LC140 L DN50** | 170 | — | 490 | — | 580 | — | 260 | — | 100 | — | 11 + 2,6 × NP | — | 150 | 20,31 + 0,822 × NP | — |
| **LC140 M DN50** | 170 | — | 490 | — | 580 | — | 260 | — | 100 | — | 11 + 2,6 × NP | — | 150 | 20,31 + 0,822 × NP | — |
| **LC140 H DN50** | 170 | — | 490 | — | 580 | — | 260 | — | 100 | — | 11 + 2,6 × NP | — | 150 | 20,31 + 0,822 × NP | — |
| **LC140SP** | 170 | — | 490 | — | 580 | — | 260 | — | 40 | — | 11 + 2,6 × NP | — | 200 | 9,11 + 0,822 × NP | — |

NP – number of plates | dim. F+/-3%

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

# 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” | DN50 | DN80 | DN100 | DN150 |
| LA12 | | | | | ○◎ | ○◎ | ○◎ | | | | | | | | | |
| LA14 | LA14LN | RVA14 | RCA14 | RSA14 | ○◎◖ | ○◎◖ | ○◎◖ | | | | | | | | | |
| LA22 | LA22LN | RVA22 | RCA22 | RSA22 | ○◎◖ | ○◎◖ | ○◎◖ | | | | | | | | | |
| LA34 | LA34LN | RVA34 | RCA34 | RSA34 | ○◎◖ | ○◎◖ | ○◎◖ | | | | | | | | | |
| LJ30 | | | | | | | ○◎ | ◎ | | | | | | | | |
| LH40 | | | | | | | ○◎ | ◎ | | | | | | | | |
| LB31 | LB31LN | RVB31 | RCB31 | RSB31 | | | ○◎△◖ | ○◎△◖ | ○◎△◖ | △◖ | | | | | | |
| LB47 | LB47LN | RVB47 | RCB47 | RSB47 | | | ○◎△◖ | ○◎△◖ | ○◎△◖ | △◖ | | | | | | |
| LB60 | LB60LN | RVB60 | RCB60 | | | | ○◎△◖ | ○◎△◖ | ○◎△◖ | △◖ | | | | | | |
| LM110 | LM110LN | RVM110 | RCM110 | | | | | | | | ◎◖ | | | | | |
| LC110 | LC110LN | RVC110 | RCC110 | | | | | ○◖ | ○◎△◖ | ○◎△◖ | ◎△◖ | ◎△◖ | ✪◖ | | | |
| LC170 | LC170LN | RVC170 | RCC170 | | | | | ○◖ | ○◎△◖ | ○◎△◖ | ◎△◖ | ◎△◖ | ✪◖ | | | |
| LD235 | LD235LN | RVD235 | RCD235 | | | | | | | | | | | ✪◖ | | |
| LE400 | | | | | | | | | | | | | | | ✪ | |
| LF700 | | | | | | | | | | | | | | | | ✪ |

○ internal thread

△ Victaulic

◖ welded connection for R heat exchangers

◎ 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 ALUMINIUM (APFI)**

- MAX. WORKING TEMPERATURE: 135°C / 275°F
- THICKNESS: 30 MM / 1.18 IN
- THERMAL CONDUCTIVITY: 0,026 W/MK / 0.015 BTU/FT. HOUR°F

**INSULATION MADE OF EXPANDED POLYPROPYLENE (EPPI) WITH ALUMINIUM (APFI)**

- MAX. WORKING TEMPERATURE: 110°C / 230°F
- THICKNESS: 28 MM / 1.10 IN
- THERMAL CONDUCTIVITY: 0,035 W/MK / 0.020 BTU/FT. HOUR°F

**COLD INSULATION**
FOR R-LINE HEAT EXCHANGERS

- WORKING TEMPERATURE RANGE: -40°C TO 110°C / -40°F TO 230°F
- THICKNESS: 20 MM / 0.787 IN
- THERMAL CONDUCTIVITY: 0,037 W/MK / 0.021 BTU/FT. HOUR°F

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