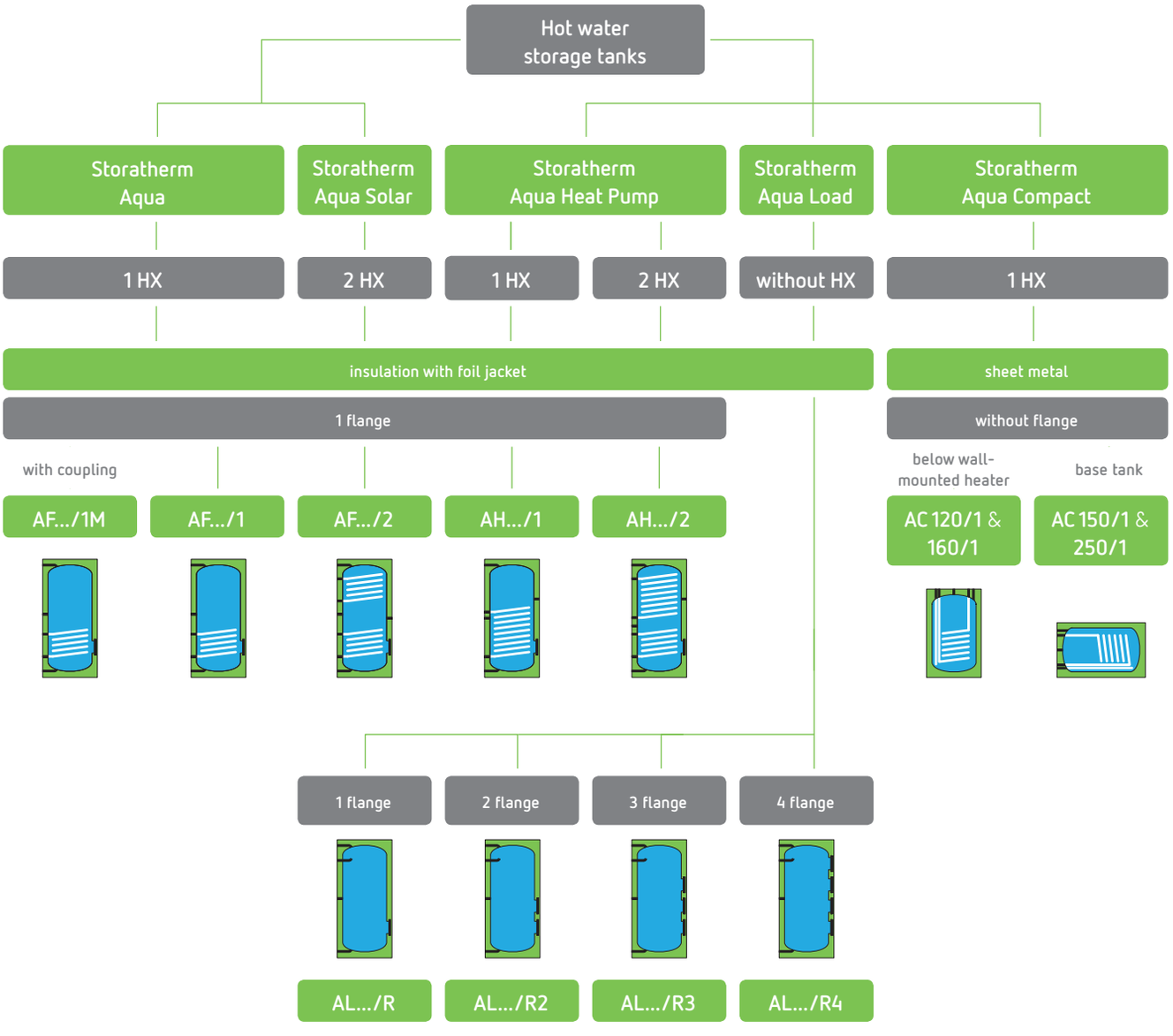
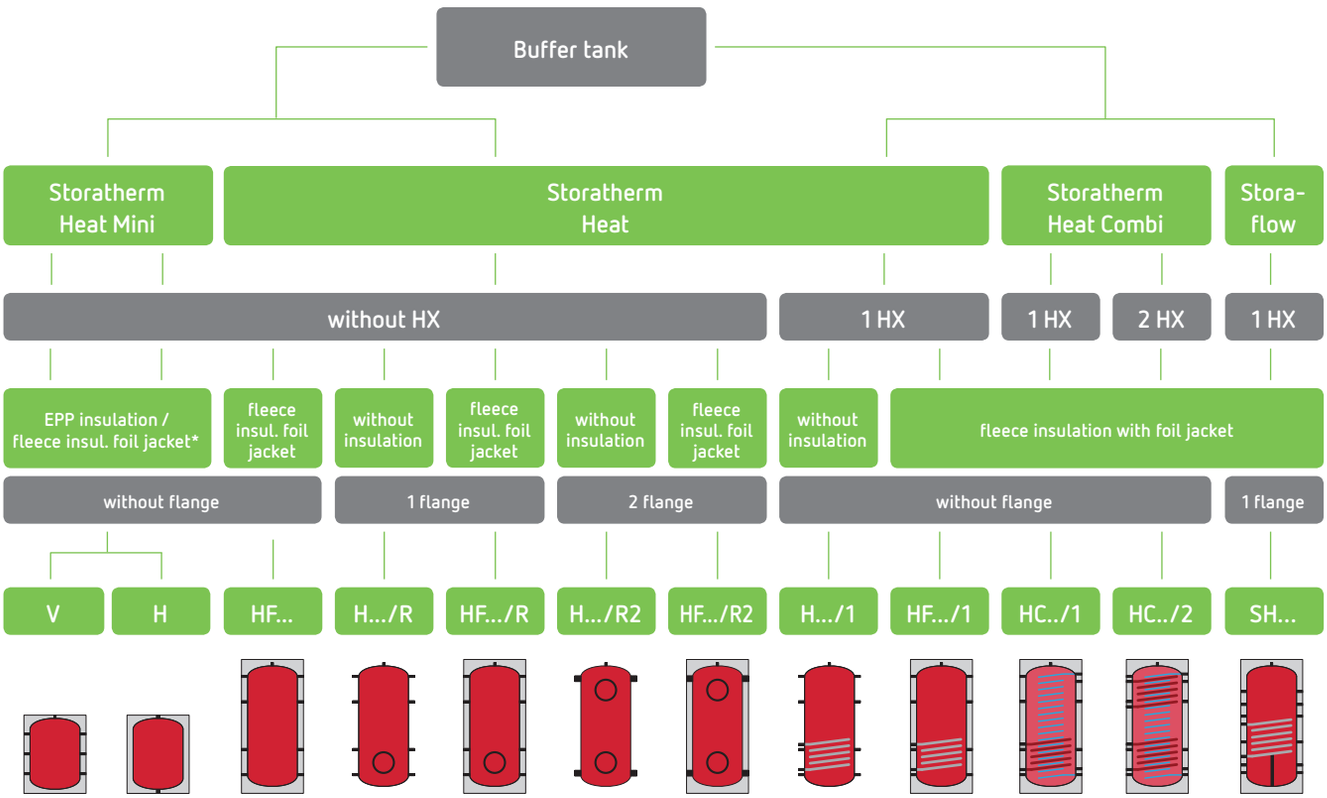
# Hot water storage tanks & heat exchangers



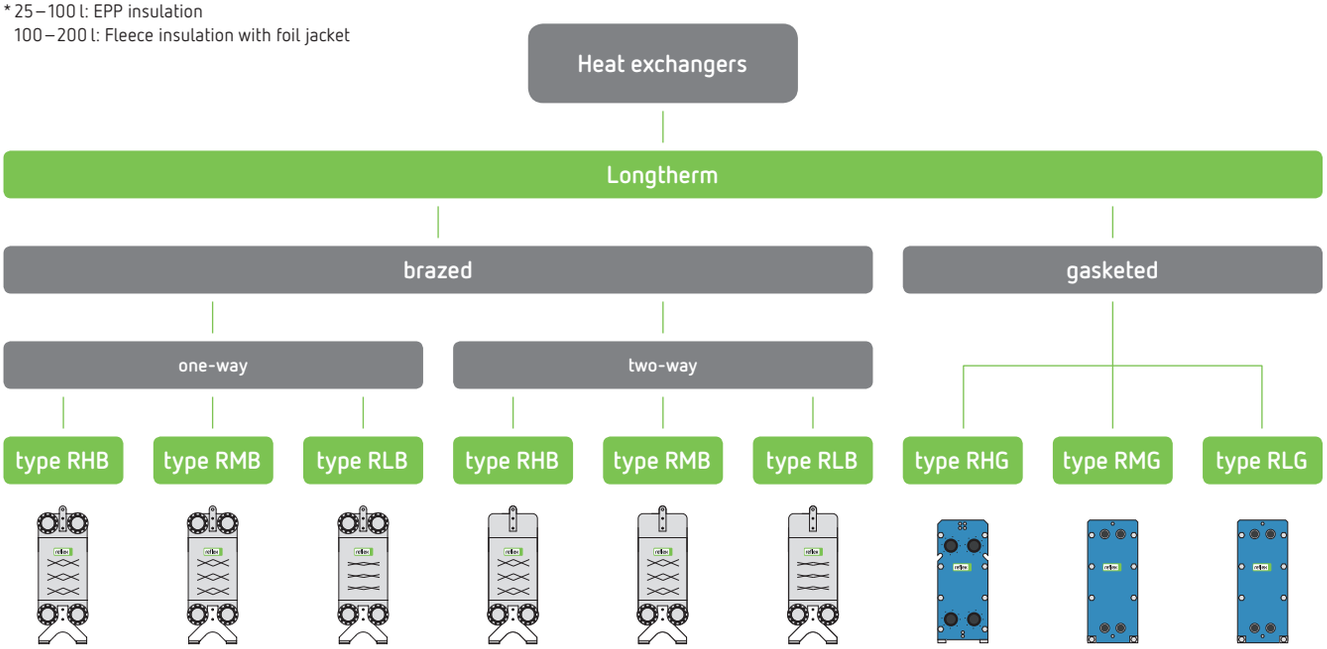

The type designation comprises the following
/1 Number of HX (heat exchanger(s))
/2 Number of HX
/R One service flange
/R2 Two service flanges
-M With coupling

Customised planning with our configuration software

Reflex Solutions **Pro**
**rsp.reflex.de/en**




* 25 – 100 l: EPP insulation
100 – 200 l: Fleece insulation with foil jacket




**RH...-channel:** h = high
→ high pressure loss
→ high thermally active length

**RM...-channel:** m = middle
→ middle pressure loss
→ middle thermally active length

**RL...-channel:** l = low
→ low pressure loss
→ low thermally active length

# Hot water storage tanks

## Storatherm Aqua hot water storage tank with one heating coil

PLUS X AWARD® 2017 achieved for: Innovation, High Quality, Design, Ecology




AF 150/1M_A – 500/1M_A




AF 100/1 – 3.000/1

### Technical Features

- upright tank for all heating systems
- enamelling according to DIN 4753 – 3 T3, with magnesium anode, thermometer and mounts, maintenance opening
- storage tank up to 500 litres (AF.../1M) with additional RP 1½" coupling for electric heater
- ≤ 2.000 l insulation preinstalled
- max. permissible operating overpressure:
  → heating water 16 bar
  → potable water 10 bar
- max. permissible operating temperature:
  → heating water 110 °C
  → potable water 95 °C

### Type overview



**AF.../1M (≤ 500 litres)**
hot water storage tank with one heating coil and additional coupling for electric heating

insulation
rECOflex® insulation with foil jacket, not removable

rECOflex®



**AF.../1 (> 500 litres)**
hot water storage tank with one heating coil

insulation
up to 1.000 l: 100 mm fleece insulation with foil jacket, removable
from 1.500 l: 120 mm fleece insulation with foil jacket, removable

# Storatherm Aqua hot water storage tank with one heating coil

CE

| Type | Art. No. white | DG | EEC[1] | Volume [l] | NL number top \| solar | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Width w [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Aqua AF .../1M_A rECOflex® insulation with foil jacket, not removable** | | | | | | | | | | |
| AF 150/1M_A | 7355100 | 0060 | A | 159 | 2,4 \| – | 0,83 \| – | – | 1.141 | 650 | 56,00 |
| AF 200/1M_A | 7355200 | 0060 | A | 197 | 4,2 \| – | 0,95 \| – | – | 1.333 | 650 | 62,00 |
| AF 300/1M_A | 7355300 | 0060 | A | 302 | 8,4 \| – | 1,28 \| – | – | 1.377 | 750 | 89,00 |
| AF 400/1M_A | 7355400 | 0060 | A | 382 | 15,2 \| – | 1,75 \| – | – | 1.678 | 790 | 112,00 |
| AF 500/1M_A | 7355500 | 0060 | A | 473 | 19,1 \| – | 1,88 \| – | – | 2.001 | 790 | 129,00 |
| **Storatherm Aqua AF .../1M rECOflex® insulation with foil jacket, not removable** | | | | | | | | | | |
| AF 150/1M_B | 7861600 | 0060 | B | 156 | 3,0 \| – | 0,75 \| – | – \| 540 | 1.172 | – | 47,20 |
| AF 200/1M_B | 7861700 | 0060 | B | 197 | 4,8 \| – | 0,95 \| – | – \| 600 | 1.475 | – | 79,00 |
| AF 200/1M_C | 7847600 | 0060 | C | 197 | 4,8 \| – | 0,95 \| – | – \| 540 | 1.475 | – | 56,10 |
| AF 300/1M_B | 7861800 | 0060 | B | 303 | 11,1 \| – | 1,40 \| – | – \| 700 | 1.334 | – | 82,80 |
| AF 400/1M_C | 7847800 | 0060 | C | 372 | 14,0 \| – | 1,80 \| – | – \| 700 | 1.631 | – | 105,00 |
| AF 400/1M_B | 7861900 | 0060 | B | 384 | 14,0 \| – | 1,80 \| – | – \| 750 | 1.631 | – | 137,00 |
| AF 500/1M_B | 7862000 | 0060 | B | 476 | 18,0 \| – | 1,90 \| – | – \| 750 | 1.961 | – | 189,00 |
| AF 500/1M_C | 7847900 | 0060 | C | 476 | 18,0 \| – | 1,90 \| – | – \| 700 | 1.961 | – | 116,50 |
| **Storatherm Aqua AF .../1 fleece insulation with foil jacket** | | | | | | | | | | |
| AF 750/1_C | 7848000 | 0060 | C | 712 | 30,5 \| – | 3,70 \| – | 750 \| 960 | 2.037 | – | 229,50 |
| AF 1000/1_C | 7848100 | 0060 | C | 931 | 38,8 \| – | 4,50 \| – | 850 \| 1.065 | 2.058 | – | 288,10 |
| AF 1500/1_C | 7848200 | 0052 | C | 1.500 | 48,0 \| – | 6,00 \| – | 1.000 \| 1.230 | 2.230 | – | 480,00 |
| AF 2000/1_C | 7848300 | 0052 | C | 2.000 | 57,0 \| – | 7,00 \| – | 1.200 \| 1.440 | 2.140 | – | 650,00 |
| AF 3000/1* | 7848400 | 0052 | – | 2.800 | 66,0 \| – | 9,50 \| – | 1.200 \| 1.440 | 2.903 | – | 790,00 |

[1] Energy efficiency class
* the thermal insulation for these Storatherm hot water storage tanks is shown under accessories.

# Storatherm Aqua Solar hot water storage tank with two heating coils

CE

PLUS X AWARD®
2017 achieved for:
Innovation
High Quality
Design
Ecology




AF 200/2_A – 500/2_A




AF 200/2 – 3.000/2

## Technical Features

- upright storage tank with additional heating coils to make use of solar energy
- enamelling according to DIN 4753 – 3 T3, with magnesium anode, thermometer and mounts, maintenance opening
- ≤ 2.000 L insulation preinstalled
- max. permissible operating overpressure:
  → heating water 16 bar
  → potable water 10 bar
- max. permissible operating temperature:
  → heating water 110 °C
  → potable water 95 °C

## Type overview



**AF.../2 (≤ 500 litres)**
hot water storage tank with two heating coils

insulation
rECOflex® insulation with foil jacket, not removable

rECOflex®



**AF.../2 (> 500 litres)**
hot water storage tank with two heating coils

insulation
up to 1.000 l: 100 mm fleece insulation with foil jacket, removable
from 1.500 l: 120 mm fleece insulation with foil jacket, removable

# Storatherm Aqua Solar hot water storage tank with two heating coils

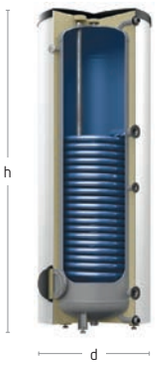
CE

| Type | Art. No. white | DG | EEC[1] | Volume [l] | NL number top \| solar | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Width w [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Aqua Solar AF .../2_A rECOflex® insulation with foil jacket, not removable** | | | | | | | | | | |
| AF 200/2_A | 7355600 | 0061 | A | 196 | 1,1 \| 4,2 | 0,95 \| 0,67 | – | 1.329 | 650 | 70,00 |
| AF 300/2_A | 7355700 | 0061 | A | 300 | 2,2 \| 8,4 | 0,84 \| 1,42 | – | 1.374 | 750 | 100,00 |
| AF 400/2_A | 7355800 | 0061 | A | 380 | 3,4 \| 15,2 | 1,00 \| 1,75 | – | 1.671 | 790 | 124,00 |
| AF 500/2_A | 7355900 | 0061 | A | 470 | 5,9 \| 19,1 | 1,28 \| 1,88 | – | 2.001 | 790 | 146,00 |
| **Storatherm Aqua Solar AF .../2 rECOflex® insulation with foil jacket, not removable** | | | | | | | | | | |
| AF 200/2_C | 7848800 | 0061 | C | 185 | 1,1 \| 4,2 | 0,70 \| 0,95 | – \| 540 | 1.435 | – | 66,90 |
| AF 200/2_B | 7862100 | 0061 | B | 196 | 1,4 \| 5,4 | 0,70 \| 0,95 | – \| 600 | 1.435 | – | 84,00 |
| AF 300/2S_C | 7849000 | 0061 | C | 282 | 2,2 \| 8,4 | 0,80 \| 1,55 | – \| 600 | 1.794 | – | 98,50 |
| AF 300/2S_B | 7862200 | 0061 | B | 299 | 2,1 \| 10,9 | 0,80 \| 1,55 | – \| 650 | 1.794 | – | 123,00 |
| AF 300/2_B | 7849800 | 0061 | B | 303 | 2,7 \| 11,8 | 0,85 \| 1,45 | – \| 700 | 1.294 | – | 116,70 |
| AF 400/2_C | 7849100 | 0061 | C | 362 | 3,4 \| 15,2 | 1,05 \| 1,80 | – \| 700 | 1.591 | – | 117,00 |
| AF 400/2_B | 7862300 | 0061 | B | 382 | 2,9 \| 16,4 | 1,05 \| 1,80 | – \| 750 | 1.591 | – | 149,00 |
| AF 500/2_C | 7849200 | 0061 | C | 452 | 5,9 \| 19,1 | 1,30 \| 1,90 | – \| 700 | 1.921 | – | 134,20 |
| AF 500/2_B | 7862400 | 0061 | B | 482 | 5,5 \| 19,7 | 1,30 \| 1,90 | – \| 750 | 1.921 | – | 179,00 |
| **Storatherm Aqua Solar AF .../2 fleece insulation with foil jacket** | | | | | | | | | | |
| AF 750/2_C | 7849300 | 0061 | C | 729 | 6,2 \| 21,0 | 1,20 \| 1,90 | 750 \| 960 | 2.036 | – | 222,00 |
| AF 1000/2_C | 7849400 | 0061 | C | 947 | 7,1 \| 26,0 | 1,12 \| 2,45 | 850 \| 1.050 | 2.063 | – | 283,00 |
| AF 1500/2_C | 7849500 | 0052 | C | 1.453 | 18,0 \| 36,0 | 1,90 \| 3,90 | 1.000 \| 1.240 | 2.216 | – | 495,00 |
| AF 2000/2_C | 7849600 | 0052 | C | 1.947 | 21,0 \| 39,0 | 2,30 \| 4,20 | 1.200 \| 1.440 | 2.146 | – | 670,00 |
| AF 3000/2* | 7849700 | 0052 | – | 2.717 | 32,0 \| 65,0 | 3,40 \| 6,80 | 1.200 \| – | 2.875 | – | 820,00 |

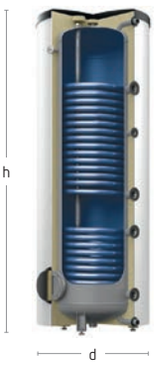
[1] Energy efficiency class

* the thermal insulation for these Storatherm hot water storage tanks is shown under accessories.

# Storatherm Aqua Heat Pump hot water storage tank for heat pumps




AH 300/1 – 1.000/1




AH 400/2 – 1.000/2

## Technical Features

- high-efficiency tank with enlarged heating surface, for use in heat pump systems in particular
- enamelling according to DIN 4753 – 3 T3
- with magnesium anode, thermometer and mounts, maintenance opening
- with additional Rp 1½" coupling for E-heater
- max. permissible operating overpressure:
  → heating water 16 bar
  → potable water 10 bar
- max. permissible operating temperature:
  → heating water 110 °C
  → potable water 95 °C

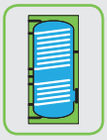
## Type overview



**AH.../1**
hot water storage tank with one heating coil

insulation
up to 500 l: rECOflex® insulation
with foil jacket, removable
from 750 l: 100 mm fleece insulation
with foil jacket, removable

rECOflex®



**AH.../2**
hot water storage tank with two heating coils

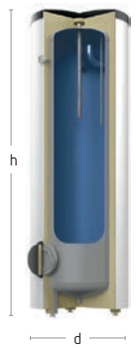
insulation
up to 500 l: rECOflex® insulation
with foil jacket, removable
from 750 l: 100 mm fleece insulation
with foil jacket, removable

rECOflex®

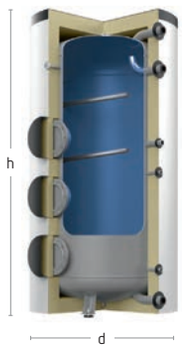
| Type | Art. No. white | DG | EEC[1] | Volume [l] | NL number top \| solar | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Aqua Heat Pump AH .../1 hot water storage tank with one heating coil** | | | | | | | | | |
| AH 150/1_B | 7864600 | 0060 | B | 154 | 5,3 \| – | 1,60 \| – | 450 \| 600 | 1.220 | 57,00 |
| AH 200/1_B | 7864700 | 0060 | B | 192 | 5,6 \| – | 2,15 \| – | 450 \| 600 | 1.480 | 67,00 |
| AH 300/1_B | 7864000 | 0060 | B | 302 | 13,3 \| – | 3,20 \| – | – \| 700 | 1.334 | 139,00 |
| AH 400/1_B | 7864100 | 0060 | B | 376 | 15,1 \| – | 5,00 \| – | 598 \| 750 | 1.631 | 170,00 |
| AH 500/1_B | 7864200 | 0060 | B | 469 | 22,1 \| – | 6,20 \| – | – \| 750 | 1.961 | 222,00 |
| AH 750/1_C | 7845800 | 0060 | C | 729 | 40,0 \| – | 7,00 \| – | 750 \| 960 | 2.053 | 263,00 |
| AH 1000/1_C | 7845900 | 0060 | C | 965 | 59,0 \| – | 9,00 \| – | 850 \| 1.065 | 2.087 | 335,00 |
| **Storatherm Aqua Heat Pump AH .../2 hot water storage tank with two heating coils** | | | | | | | | | |
| AH 400/2_B | 7864300 | 0060 | B | 374 | 9,1 \| 15,0 | 3,20 \| 1,40 | – \| 750 | 1.591 | 171,00 |
| AH 500/2_B | 7864400 | 0060 | B | 469 | 11,2 \| 25,0 | 4,30 \| 1,60 | – \| 750 | 1.921 | 204,00 |
| AH 750/2_C | 7846200 | 0060 | C | 679 | 17,0 \| 34,0 | 5,20 \| 2,20 | 750 \| 960 | 2.052 | 277,00 |
| AH 1000/2_C | 7846300 | 0060 | C | 901 | 24,9 \| 43,0 | 6,10 \| 3,10 | 850 \| 1.065 | 2.087 | 354,00 |

[1] Energy efficiency class

# Storatherm Aqua Load charge water tank




AL 300/R – 500/R

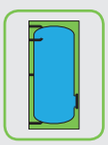



AL 1.500/R3 – 3.000/R3

Technical Features

- upright tank for hot water preparation in storage charging system
- enamelling according to DIN 4753 – 3 T3
- with magnesium anode, thermometer and mounts
- up to 4 maintenance openings
- ≤ 2.000 l insulation preinstalled
- max. permissible operating overpressure:
  → potable water 10 bar
- max. permissible operating temperature:
  → potable water 95 °C

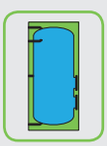
## Type overview



**AL.../R**
hot water storage tank with one service flange

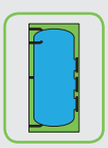
insulation
up to 500 l: rECOflex® insulation
with foil jacket, removable
from 750 l: 100 mm fleece insulation
with foil jacket, removable

rECOflex®



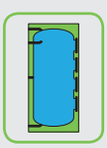
**AL.../R2**
hot water storage tank with two service flanges

insulation
120 mm fleece insulation
with foil jacket, removable



**AL.../R3**
hot water storage tank with three service flanges

insulation
120 mm fleece insulation
with foil jacket, removable



**AL.../R4**
hot water storage tank with four service flanges

insulation
120 mm fleece insulation
with foil jacket, removable

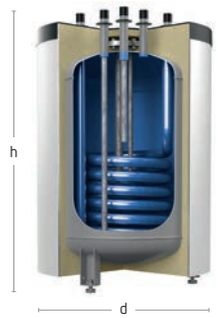
# Storatherm Aqua Heat Pump hot water storage tank for heat pumps

| Type | Art. No. white | DG | EEC[1] | Volume [l] | Ø d without \| with insulation [mm] | Height h [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|
| **Storatherm Aqua Load AL .../R hot water storage tank with one service flange** | | | | | | | |
| AL 300/R_C | 7844400 | 0051 | C | 301 | – \| 590 | 1.834 | 90,00 |
| AL 500/R_C | 7844500 | 0051 | C | 477 | – \| 700 | 1.958 | 155,00 |
| AL 750/R_C | 7844600 | 0051 | C | 751 | 750 \| 950 | 2.035 | 214,00 |
| AL 1000/R_C | 7844700 | 0051 | C | 972 | 850 \| 1.050 | 2.050 | 242,00 |
| **Storatherm Aqua Load AL .../R2 hot water storage tank with two service flanges** | | | | | | | |
| AL 300/R2_C | 7353100 | 0051 | C | 301 | – \| 590 | 1.834 | 90,00 |
| AL 500/R2_C | 7353200 | 0051 | C | 477 | – \| 700 | 1.958 | 155,00 |
| AL 750/R2_C | 7353300 | 0051 | C | 751 | 750 \| 950 | 2.035 | 214,00 |
| AL 1000/R2_C | 7353400 | 0051 | C | 972 | 850 \| 1.050 | 2.050 | 267,00 |
| **Storatherm Aqua Load AL .../R3 hot water storage tank with three service flanges** | | | | | | | |
| AL 1500/R3_C | 7845100 | 0052 | C | 1.459 | 1.000 \| 1.240 | 2.236 | 410,50 |
| AL 2000/R3_C | 7845200 | 0052 | C | 1.986 | 1.200 \| 1.440 | 2.146 | 555,00 |
| **Storatherm Aqua Load AL .../R4 hot water storage tank with four service flanges** | | | | | | | |
| AL 3000/R4* | 7845400 | 0052 | – | 2.780 | 1.200 \| 1.440 | 2.876 | 642,00 |
| AL 4000/R4* | 7845480 | 0052 | – | 4.040 | 1.500 \| 1.740 | 2.721 | 939,00 |
| AL 5000/R4* | 7845490 | 0052 | – | 4.914 | 1.500 \| 1.740 | 3.230 | 1.070,00 |

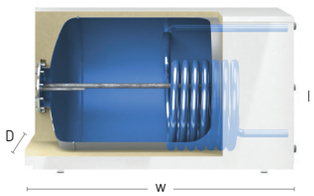
[1] Energy efficiency class

* the thermal insulation for these Storatherm hot water storage tanks is shown under accessories.

# Storatherm Aqua Compact storage water heater for hot water preparation




AC 120/1 & 160/1




AC 150/1 & 250/1

**Technical Features**

- tank in compact design for all heating installations
- enamelling according to DIN 4753 – 3 T3, with magnesium anode, thermometer and mounts
- insulation preinstalled
- max. permissible operating overpressure:
  → heating water 16 bar
  → potable water 10 bar
- max. permissible operating temperature:
  → heating water 110 °C
  → potable water 95 °C

## Type overview

**AC 120/1 & 160/1**
compact storage tank with connections at the top for assembly directly below a wall-hung heater

insulation
rECOflex® insulation with foil jacket, not removable

rECOflex®

**AC 150/1 & 250/1**
base tank for space-saving boiler/tank combinations with one heating coil, up to 300 kg load bearing capacity

insulation
rECOflex® insulation with steel casing, not removable

rECOflex®

| Type | Art. No. silver | Art. No. white | DG | EEC[1] | Volume [l] | NL number top \| solar | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Width w [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Aqua Compact AC .../1 compact tank with connections at the top** | | | | | | | | | | | |
| AC 120/1_B | – | 7850100 | 0060 | B | 120 | 1,4 \| – | 0,73 \| – | 500 \| 560 | 839 | – | 56,00 |
| AC 160/1_C | – | 7862850 | 0060 | C | 153 | 2,2 \| – | 0,71 \| – | – \| 560 | 1.036 | – | 60,00 |
| **Storatherm Aqua Compact AC .../1 horizontal base tank** | | | | | | | | | | | |
| AC 150/1_B | 7863100 | 7862800 | 0062 | B | 153 | 3,6 \| – | 0,90 \| – | – | 590 | 620 | 85,00 |
| AC 250/1_B | 7863200 | 7862900 | 0062 | B | 246 | 7,6 \| – | 0,95 \| – | – | 644 | 653 | 114,00 |

[1] Energy efficiency class

# Theoretical principles

## Storatherm Heat Mini

Heat pumps need a constant volume flow to be efficient.
When the consumer circuits' requirements have been met, the temperature of the return rises and the heat pump is switched off. As a consequence, rooms and radiators cool down again, and as a result the return temperature falls and the heat pump starts up again. This cycling puts a great deal of stress on the heat pump and reduces the service life.

This is where the buffer tank from Reflex comes in:
The heat pump heats up the buffer tank while working and switches off later, in addition, it is not immediately switched on again as required, but rather the buffered heat is used. This increases the system volume and makes the sysytem more stable. As a result, cycles are significantly reduced, extending the service life of the heat pump.

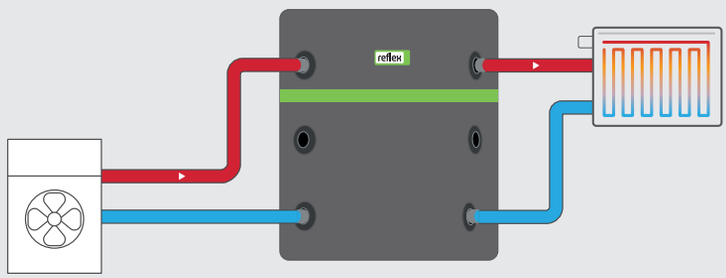
The Storatherm Heat Mini H is connected in parallel and is mainly used to incorporate heat pumps for hydraulic decoupling, whereas the Storatherm Heat Mini V is connected in series in the return and ensures the defrost function.

## Area of Application

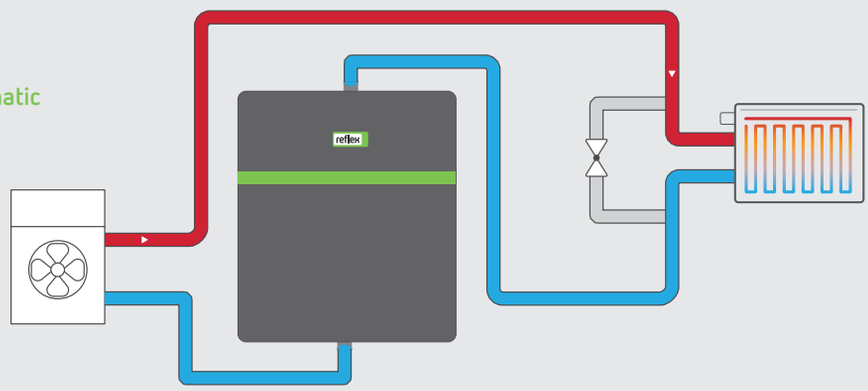
The new Storatherm Heat Mini H and Storatherm Heat Mini V buffer tanks show their strengths in high-performance systems with heat pumps up to 20 kW heating capacity.



## Storatherm Heat Mini H with heat pump sample schematic

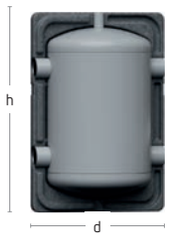



## Storatherm Heat Mini H with heat pump sample schematic

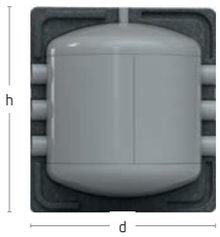


# Buffer tanks

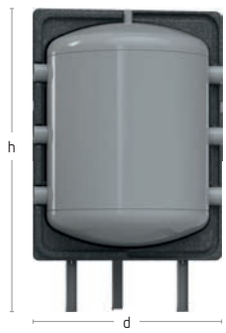
## Storatherm Heat Mini buffer storage tank for heating and cooling systems with high volume flows



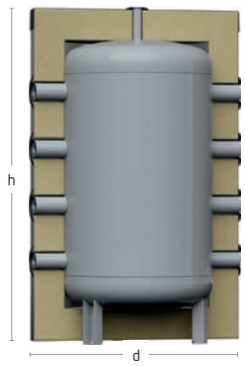

H 25



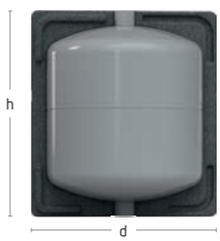

H 50




H 100




H 150 – 200




V 25 – 50



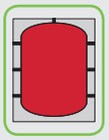

V 75 – 100

Technical **Features**

- storage tank made of quality steel for heating and limited cooling applications
- tank interior untreated, exterior painted
- EPP insulation for 25 – 100 litre types, not diffusion-tight
- fleece insulation for 150 – 200 litre types, not diffusion-tight
- max. permissible operating overpressure: → 3 bar
- max. permissible operating temperature: → 15 – 95 °C

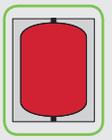
# Storatherm Heat Mini buffer storage tank for heating and cooling systems with high volume flows CE

## Type overview



**H Mini H...**
buffer tank with a 1½" connection at the top plus side connections

insulation
up to 100 l: removable EPP insulation, not diffusion-tight
from 150 l: removable fleece insulation



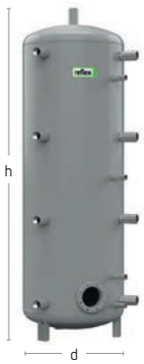
**H Mini V...**
buffer tank with a 1½" connection at the top and bottom

insulation
removable EPP insulation, not diffusion-tight

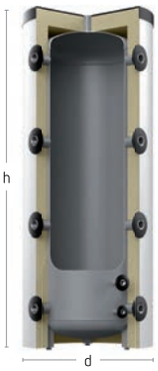
| Type | Art. No. silver | DG | EEC[1] | Volume [l] | Number of couplings [pce] | Heat content loss [W] | Ø d without \| with insulation [mm] | Height h [mm] | Tilted dimension [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Heat Mini H buffer tank with horizontal connections** | | | | | | | | | | |
| H 25 | 7352520 | 0063 | B | 25 | 4 | 24 | 280 \| 360 | 534 | 634 | 7,20 |
| H 50 | 7352530 | 0063 | B | 50 | 6 | 33 | 410 \| 490 | 547 | 713 | 13,20 |
| H 100* | 7352550 | 0063 | B | 104 | 6 | 49 | 480 \| 560 | 893 | 1.033 | 22,35 |
| H 150 | 7352560 | 0063 | B | 150 | 8 | 47 | 480 \| 680 | 1.073 | 1.094 | 21,30 |
| H 200 | 7352570 | 0063 | B | 200 | 8 | 59 | 480 \| 680 | 1.358 | 1.375 | 25,50 |
| **Storatherm Heat Mini V buffer tank with vertical connections** | | | | | | | | | | |
| V 25 | 7352420 | 0063 | B | 25 | 2 | 23 | 280 \| 360 | 534 | 634 | 7,10 |
| V 50 | 7352430 | 0063 | B | 50 | 2 | 31 | 410 \| 490 | 547 | 713 | 13,00 |
| V 75 | 7352440 | 0063 | B | 78 | 2 | 40 | 480 \| 560 | 746 | 915 | 20,30 |
| V 100 | 7352450 | 0063 | B | 104 | 2 | 49 | 480 \| 560 | 893 | 1.033 | 22,10 |

[1] Energy efficiency class
* Available from spring 2025; your sales contact will be happy to inform you about alternatives.

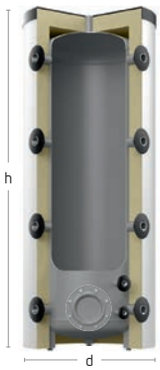
# Storatherm Heat buffer storage tank for heating and cooling systems




H .../R – 500/R




HF 300 – 2.000

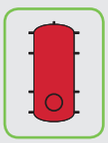



HF 300/R – 2.000/R

## Technical Features

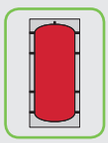
- high-grade S235JRG2 (St 37 – 2) for heating and cooling applications
- tank not treated inside, plastic-coated outside
- insulation preinstalled
- fleece insulation with foil jacket, not diffusion-tight
- max. permissible operating overpressure:
  → tank 3 bar (1.500 l 6 bar)
- max. permissible operating temperature:
  → tank 95 °C

## Type overview



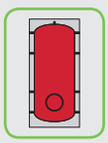
**H.../R**
buffer tank with cleaning opening without insulation for cooling applications.
suitable diffusion-tight thermal insulation must be provided by the user.

without insulation



**HF...**
buffer tank with insulation, without service flange

insulation
up to 1.000 l: 100 mm
fleece insulation
with foil jacket, removable
from 1.500 l: 120 mm
fleece insulation
with foil jacket, removable



**HF.../R**
buffer tank with cleaning opening and insulation

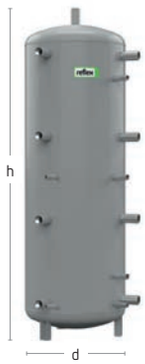
insulation
up to 1.000 l: 100 mm
fleece insulation
with foil jacket, removable
from 1.500 l: 120 mm
fleece insulation
with foil jacket, removable

## Storatherm Heat buffer storage tank for heating and cooling systems

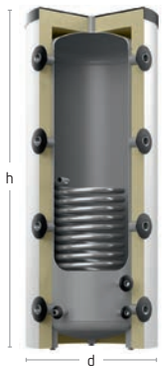
| Type | Art. No. silver | Art. No. white | DG | EEC[1] | Volume [l] | Couplings connection 9× | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Heat H .../R buffer tank with cleaning opening without insulation** | | | | | | | | | | |
| H.../R | 7783600 | – | 0063 | – | 300 | Rp 1½" | – | 597 \| – | 1.320 | 58,00 |
| H.../R | 7783800 | – | 0063 | – | 500 | Rp 1½" | – | 597 \| – | 1.950 | 71,00 |
| H.../R | 7784005 | – | 0063 | – | 800 | Rp 1½" | – | 790 \| – | 1.825 | 121,00 |
| H 1000/R | 7784205 | – | 0063 | – | 921 | Rp 1½" | – | 790 \| – | 2.115 | 135,00 |
| H 1500/R | 7784400 | – | 0063 | – | 1.500 | Rp 1½" | – | 1.000 \| – | 2.120 | 181,00 |
| H 2000/R | 7784600 | – | 0063 | – | 2.000 | Rp 1½" | – | 1.200 \| – | 2.122 | 257,00 |
| H 3000/R* | 7788200 | – | 0063 | – | 3.000 | Rp 2" | – | 1.500 \| – | 2.101 | 570,00 |
| H 4000/R* | 7788500 | – | 0063 | – | 4.000 | Rp 2" | – | 1.500 \| – | 2.676 | 677,00 |
| H 5000/R* | 7788800 | – | 0063 | – | 5.000 | Rp 2" | – | 1.500 \| – | 3.211 | 814,00 |
| **Storatherm Heat HF ... buffer tank with insulation, without service flange** | | | | | | | | | | |
| HF 300_C | 7839100 | – | 0063 | C | 300 | Rp 1½" | – | 597 \| 797 | 1.320 | 59,00 |
| HF 500_C | 7839200 | – | 0063 | C | 500 | Rp 1½" | – | 597 \| 797 | 1.950 | 72,00 |
| HF 800_C | 7839300 | – | 0063 | C | 800 | Rp 1½" | – | 790 \| 990 | 1.825 | 124,00 |
| HF 1000_C | 7839400 | – | 0063 | C | 921 | Rp 1½" | – | 790 \| 990 | 2.115 | 139,00 |
| HF 1500_C | 7839500 | – | 0063 | C | 1.500 | Rp 1½" | – | 1.000 \| 1.240 | 2.120 | 186,00 |
| HF 2000_C | 7839600 | – | 0063 | C | 2.000 | Rp 1½" | – | 1.200 \| 1.440 | 2.122 | 266,00 |
| **Storatherm Heat HF .../R buffer tank with cleaning opening and insulation** | | | | | | | | | | |
| HF 300/R_C | 7842000 | 7842600 | 0063 | C | 300 | Rp 1½" | – | 597 \| 797 | 1.320 | 60,30 |
| HF 500/R_C | 7842100 | 7842700 | 0063 | C | 500 | Rp 1½" | – | 597 \| 797 | 1.950 | 79,10 |
| HF 800/R_C | 7842200 | 7842800 | 0063 | C | 800 | Rp 1½" | – | 790 \| 990 | 1.825 | 104,10 |
| HF 1000/R_C | 7842300 | 7842900 | 0063 | C | 921 | Rp 1½" | – | 790 \| 990 | 2.115 | 113,30 |
| HF 1500/R_C | 7842400 | 7843000 | 0063 | C | 1.500 | Rp 1½" | – | 1.000 \| 1.240 | 2.120 | 189,00 |
| HF 2000/R_C | 7842500 | 7843100 | 0063 | C | 2.000 | Rp 1½" | – | 1.200 \| 1.440 | 2.122 | 269,00 |

[1] Energy efficiency class
* the thermal insulation for these Storatherm hot water storage tanks is shown under accessories.

# Storatherm Heat buffer storage tank for heating and cooling systems




H 300/1 – 5.000/1




HF 300/1 – 2.000/1

## Technical Features

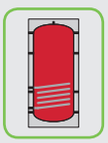
- high-grade S235JRG2 (St 37 – 2) for heating and cooling applications
- with heating coil for the connection of an additional heating source such as a solar system
- tank not treated inside, plastic-coated outside
- max. permissible operating overpressure:
  → tank 3 bar (1.500 l 6 bar)
  → heating water 10 bar
- max. permissible operating temperature:
  → tank 95 °C

## Type overview



**H.../1**
buffer tank with one bare-tube heat exchanger without insulation for cooling applications. Suitable diffusion-tight thermal insulation must be provided on-site. For sizes 3.000 – 5.000 litres, the insulation for heating water applications may be ordered separately.

without insulation



**HF.../1**
buffer tank with one heating coil and insulation

insulation
up to 1.000 l: 100 mm fleece insulation with foil jacket, removable
from 1.500 l: 120 mm fleece insulation with foil jacket, removable

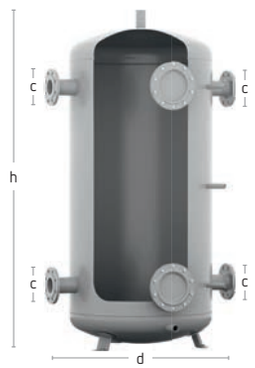
# Storatherm Heat buffer storage tank for heating and cooling systems

CE

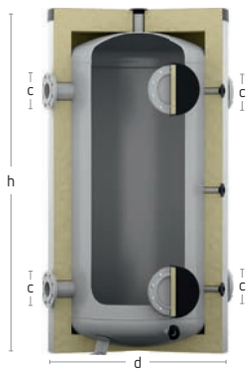
| Type | Art. No. silver | Art. No. white | DG | EEC[1] | Volume [l] | Couplings connection 9× | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Heat H .../R buffer tank with one heating coil without insulation** | | | | | | | | | | |
| H 300/1 | 7783700 | – | 0063 | – | 300 | Rp 1½" | 1,34 \| – | 597 \| – | 1.320 | 74,00 |
| H 500/1 | 7783900 | – | 0063 | – | 500 | Rp 1½" | 1,88 \| – | 597 \| – | 1.950 | 95,00 |
| H 800/1 | 7784115 | – | 0063 | – | 800 | Rp 1½" | 3,76 \| – | 790 \| – | 1.825 | 190,00 |
| H 1000/1 | 7784315 | – | 0063 | – | 1.000 | Rp 1½" | 4,48 \| – | 790 \| – | 2.115 | 216,00 |
| H 1500/1 | 7784500 | – | 0063 | – | 1.500 | Rp 1½" | 4,48 \| – | 1.000 \| – | 2.120 | 265,00 |
| H 2000/1 | 7784700 | – | 0063 | – | 2.000 | Rp 1½" | 4,48 \| – | 1.200 \| – | 2.122 | 351,00 |
| H 3000/1* | 7788300 | – | 0063 | – | 3.000 | Rp 2" | 5,00 \| – | 1.500 \| – | 2.101 | 637,00 |
| H 4000/1* | 7788600 | – | 0063 | – | 4.000 | Rp 2" | 6,00 \| – | 1.500 \| – | 2.676 | 754,00 |
| H 5000/1* | 7788900 | – | 0063 | – | 5.000 | Rp 2" | 7,00 \| – | 1.500 \| – | 3.211 | 871,00 |
| **Storatherm Heat HF .../1 buffer tank with one heating coil and insulation** | | | | | | | | | | |
| HF 300/1_C | 7843200 | 7843800 | 0063 | C | 300 | Rp 1½" | 1,34 \| – | 597 \| 797 | 1.320 | 82,00 |
| HF 500/1_C | 7843300 | 7843900 | 0063 | C | 500 | Rp 1½" | 1,88 \| – | 597 \| 797 | 1.950 | 100,00 |
| HF 800/1_C | 7843400 | 7844000 | 0063 | C | 800 | Rp 1½" | 3,76 \| – | 790 \| 990 | 1.825 | 197,00 |
| HF 1000/1_C | 7843500 | 7844100 | 0063 | C | 1.000 | Rp 1½" | 4,48 \| – | 790 \| 990 | 2.115 | 225,00 |
| HF 1500/1_C | 7843600 | 7844200 | 0063 | C | 1.500 | Rp 1½" | 4,48 \| – | 1.000 \| 1.240 | 2.120 | 272,00 |
| HF 2000/1_C | 7843700 | 7844300 | 0063 | C | 2.000 | Rp 1½" | 4,48 \| – | 1.200 \| 1.440 | 2.122 | 352,00 |

[1] Energy efficiency class
* the thermal insulation for these Storatherm hot water storage tanks is shown under accessories.

# Storatherm Heat buffer storage tank for heating and cooling systems with high volume flows CE




H.../R2

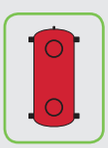



HF.../R2

**Technical Features**

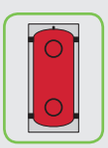
- equipped with 4 opposite flange connections (DIN EN 1092-1) and 2 inspection openings (DN 180) as well as 3 sensor connections and drainage
- high-grade S235JRG2 (St 37 – 2) for heating and cooling applications
- tank not treated inside, plastic-coated outside
- max. permissible operating overpressure:
  → tank 10 bar (1.500 l 6 bar)
- max. permissible operating temperature:
  → tank 95 °C

## Type overview



**H.../R2**
buffer tank with cleaning opening without insulation for cooling applications.
suitable diffusion-tight thermal insulation must be provided by the user.

without insulation



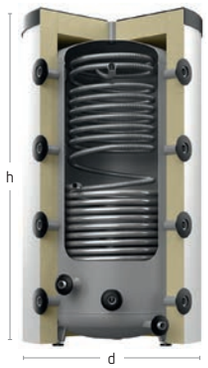
**HF.../R2**
buffer tank with cleaning opening and insulation

insulation
up to 1.000 l: 100 mm fleece insulation with foil jacket, removable
from 1.500 l: 120 mm fleece insulation with foil jacket, removable

| Type | Art. No. silver | DG | EEC[1] | Volume [l] | Connection c | Ø d without \| with insulation [mm] | Height h [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|
| **Storatherm Heat H .../R2 buffer tank without insulation** | | | | | | | | |
| H.../R2 | 7351700 | 0063 | – | 475 | DN 80/PN 16 | 597 \| – | 1.951 | 110,70 |
| H.../R2 | 7351800 | 0063 | – | 778 | DN 80/PN 16 | 790 \| – | 1.854 | 187,80 |
| H 1000/R2 | 7351900 | 0063 | – | 921 | DN 125/PN 16 | 790 \| – | 2.117 | 201,90 |
| H 1500/R2 | 7352700 | 0063 | – | 1.413 | DN 125/PN 16 | 1.000 \| – | 2.119 | 205,50 |
| **Storatherm Heat HF .../R2 buffer tank with insulation** | | | | | | | | |
| HF 500/R2_C | 7353500 | 0063 | C | 475 | DN 80/PN 16 | 597 \| 797 | 1.951 | 115,30 |
| HF 800/R2_C | 7353600 | 0063 | C | 778 | DN 80/PN 16 | 790 \| 990 | 1.854 | 197,00 |
| HF 1000/R2_C | 7353700 | 0063 | C | 921 | DN 125/PN 16 | 790 \| 990 | 2.117 | 221,00 |
| HF 1500/R2_C | 7353800 | 0063 | C | 1.413 | DN 125/PN 16 | 1.000 \| 1.240 | 2.119 | 212,27 |

[1] Energy efficiency class

# Storatherm Heat Combi combination storage tank for heating and hot water preparation CE




HC 500/1 – 1.500/1

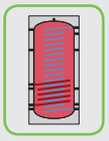



HC 500/2 – 1.500/2

## Technical Features

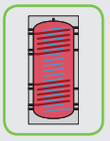
- combination hygienic storage tank for hot water preparation and backup heating
- potable water heating in continuous flow principle (stainless steel corrugated pipe)
- tank not treated inside, plastic-coated outside
- insulation preinstalled
- fleece insulation with foil jacket
- max. permissible operating overpressure:
  → tank 3 bar
  → heating water 10 bar
  → potable water 6 bar
- max. permissible operating temperature:
  → tank 95 °C
  → heating water 110 °C
  → potable water 95 °C

## Type overview



**HC.../1**
combination storage tank with one heating coil and a corrugated stainless steel tube for heating potable water according to the continous flow principle

insulation
120 mm fleece insulation with foil jacket, removable



**HC.../2**
combination storage tank with two heating coils and a corrugated stainless steel tube for heating potable water according to the continous flow principle

insulation
120 mm fleece insulation with foil jacket, removable

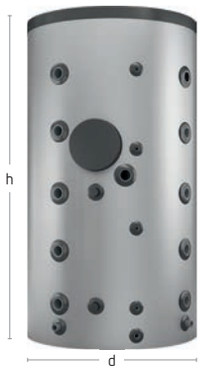
# Storatherm Heat Combi

CE

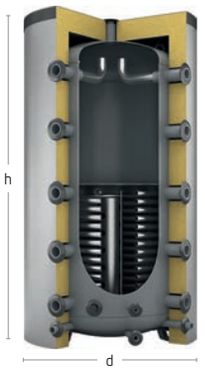
| Type | Art. No. silver | DG | EEC[1] | Volume [l] | Couplings connection 9× | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|
| **Storatherm Heat Combi HC .../1 combination tank with one additional heating coil** | | | | | | | | | |
| HC 500/1_C | 7859200 | 0063 | C | 428 | Rp 1½" | 1,60 \| – | 600 \| 840 | 1.970 | 92,00 |
| HC 800/1_C | 7859300 | 0063 | C | 722 | Rp 1½" | 2,60 \| – | 790 \| 1.030 | 1.850 | 131,00 |
| HC 1000/1_C | 7859400 | 0063 | C | 852 | Rp 1½" | 2,60 \| – | 790 \| 1.030 | 2.140 | 152,00 |
| HC 1500/1_C | 7859500 | 0063 | C | 1.332 | Rp 1½" | 2,15 \| – | 1.000 \| 1.240 | 2.130 | 219,00 |
| **Storatherm Heat Combi HC .../2 combination tank with two additional heating coils** | | | | | | | | | |
| HC 500/2_C | 7859600 | 0063 | C | 418 | Rp 1½" | 1,14 \| 1,60 | 600 \| 840 | 1.970 | 106,00 |
| HC 800/2_C | 7859700 | 0063 | C | 706 | Rp 1½" | 1,75 \| 2,60 | 790 \| 1.030 | 1.850 | 152,00 |
| HC 1000/2_C | 7859800 | 0063 | C | 833 | Rp 1½" | 2,20 \| 2,60 | 790 \| 1.030 | 2.140 | 179,00 |

[1] Energy efficiency class

# Storaflow Buffer tank for Reflex Hydroflow




SH 500 H/F/1_C – SH 2000 H/F/1_C

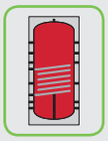



SH 500 H/F/1_C – SH 2000 H/F/1_C
cut-away model

## Technical Features

- Storaflow hot water storage tank for storing heating water and central heating backup
- potable water heating using the continuous flow principle with a Reflex Hydroflow mains water station
- tank not treated inside, plastic-coated outside
- insulation preinstalled
- fleece insulation with foil jacket
- max. permissible operating overpressure:
  → 500 – 1.000 l 3 bar
  → 1.500 – 2.000 l 7 bar
  → solar or solid fuel support by means of internal heat exchanger 10 bar
- max. permissible operating temperature:
  → tank 95 °C
  → internal heat exchanger 110 °C

## Type overview



**SH...H/F/1**
buffer tank with one bare-tube heat exchanger and a flange for the installation of an electric heater

insulation
up to 800 l: 120 mm fleece insulation with foil jacket, removable
from 1000 l: 150 mm fleece insulation with foil jacket, removable

| Type | Art. No. silver | DG | EEC[1] | Volume [l] | Connection c | Heating surface top \| solar [m²] | Ø d without \| with insulation [mm] | Height h [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|
| SH 500 H/F/1_C | 7938000 | 0066 | C | 500 | Rp 2" | – \| 1,90 | 597 \| 840 | 1.986 | 136,00 |
| SH 800 H/F/1_C | 7938100 | 0066 | C | 800 | Rp 2" | – \| 2,60 | 790 \| 1.010 | 1.859 | 168,00 |
| SH 1000 H/F/1_C | 7938200 | 0066 | C | 1.000 | Rp 2" | – \| 3,20 | 790 \| 1.090 | 2.149 | 190,00 |
| SH 1500 H/F/1_C | 7938300 | 0066 | C | 1.500 | Rp 2" | – \| 3,80 | 1.000 \| 1.300 | 2.140 | 276,00 |
| SH 2000 H/F/1_C | 7938400 | 0066 | C | 2.000 | Rp 2" | – \| 4,40 | 1.200 \| 1.500 | 2.161 | 394,00 |

[1] Energy efficiency class

# Storatherm accessories

## EEHR electro screw-in heater

- electrical auxiliary heating
- suitable for these types:
  - → Storatherm Aqua
  - → Storatherm Aqua Solar
  - → Storatherm Aqua Heat Pump
  - → Storatherm Heat
  - → Storatherm Heat Combi
- control light to indicate operation mode
- safety temperature limiter 95 °C
- max. permissible operating temperature 79 °C
- ingress protection rating IP 54
- electrical connection (on-site)
- not approved for continuous operation
- water hardness max. 14 °dH




| Type | Art. No. | DG | Tank size | Electric connection | Min. electrical power [kW] | Electric power [kW] | Installation length l2 [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|
| EEHR 2,00 | 9126474 | 0068 | > 100 | 230V/50Hz | 2,00 | 2,00 | 320 | 1,36 |
| EEHR 2,50 | 9126475 | 0068 | > 100 | 230V/50Hz | 2,50 | 2,50 | 390 | 1,50 |
| EEHR 3,00 | 9126476 | 0068 | > 100 | 230V/50Hz | 3,00 | 3,00 | 390 | 1,50 |
| EEHR 3,80 | 9126477 | 0068 | > 100 | 400V/50Hz | 3,80 | 3,80 | 430 | 1,60 |
| EEHR 4,50 | 9126478 | 0068 | > 300 | 400V/50Hz | 4,50 | 4,50 | 470 | 1,62 |
| EEHR 6,00 | 9126479 | 0068 | > 300 | 400V/50Hz | 6,00 | 6,00 | 500 | 1,83 |
| EEHR 7,50 | 9126480 | 0068 | > 750 | 400V/50Hz | 7,50 | 7,50 | 720 | 2,00 |
| EEHR 9,00 | 9126481 | 0068 | > 1.000 | 400V/50Hz | 9,00 | 9,00 | 780 | 2,10 |

the Storatherm HF .../R version can be installed using a service flange with flange cover and seal.
Storatherm Aqua Solar AF 300/2S type only possible up to 3 kW.
observe the maximum installation depth of the tank.

## EEHR Accessories

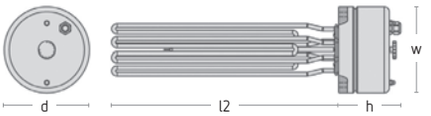
| Type | Art. No. | DG | Weight [kg] |
|---|---|---|---|
| Flange cover 1½" DN110 | 5418300* | 0068 | 0,80 |
| Flange cover 1½" DN180 | 5418400* | 0068 | 2,23 |
| Flange seal DN180 | 5416000 | 0068 | 0,20 |
| Flange seal DN110 | 5410200 | 0068 | 0,10 |
| flat gasket 1½" | 9119368 | 0091 | 0,01 |

* not suitable for Storatherm Aqua Inox.

# Storatherm accessories

## EFHR flange-type electric heating element

- electrical auxiliary heating
- approved for continuous operation
- suitable for these types:
  → Storatherm Aqua
  → Storatherm Aqua Solar
  → Storatherm Aqua Load
  → Storatherm Aqua Heat Pump
  → Storatherm Heat HF .../R
  → Storaflow
- easy integration via the tank's maintenance opening
- up to 10,0 kW LK 150 mm
  → ≤ 500 litres storage volume for potable water
  → buffer tank of type HF .../R and H .../R
- from 16,0 kW LK 225 mm
  → > 500 litres tank volume for potable water
- 3 power levels, reversible connections
- with temperature controller – 85 °C
- safety temperature limiter 110 °C
- on-site electrical connection
  → 2,5 kW 230 V
  → from 4,0 kW 400 V
- incl. flange and seal






| Type | Art. No. | DG | Potable water storage tank size [l] | Buffer tank storage size [l] | Output [kW] | Ø d [mm] | Height h [mm] | Installation length l2 [mm] | Hole circle w [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| EFHR flange-type electric heating element | | | | | | | | | | |
| EFHR 2,5 | 9118710 | 0068 | 150 | 300–5.000 | 2,5 | 185 | 110 | 295 | 150 | 2,94 |
| EFHR 4,0 | 9116314 | 0068 | 150 | 300–5.000 | 4,0/2,7/2,0 | 185 | 110 | 295 | 150 | 3,54 |
| EFHR 6,0* | 9116315 | 0068 | 300–500 | 300–5.000 | 6,0/4,0/3,0 | 185 | 110 | 395 | 150 | 4,80 |
| EFHR 8,0 | 9116316 | 0068 | 300–500 | 300–5.000 | 8,0/5,5/4,0 | 185 | 110 | 495 | 150 | 5,00 |
| EFHR 10,0 | 9116317 | 0068 | 300–500 | 300–5.000 | 10,0/6,7/5,0 | 185 | 110 | 495 | 150 | 5,00 |
| EFHR 16,0 | 9116501 | 0068 | > 750 | not suitable | 16,0/11,0/8,0 | 280 | 140 | 610 | 225 | 10,50 |
| EFHR 19,0 | 9116502 | 0068 | > 1.000 | not suitable | 19,0/12,7/9,0 | 280 | 140 | 740 | 225 | 11,00 |
| EFHR 25,0 | 9115569 | 0068 | > 1.000 | not suitable | 25,0/18,8/12,5 | 280 | 140 | 740 | 225 | 11,00 |
| EFHR 35,0 | 9126720 | 0068 | > 1.500 | not suitable | 35,0/26,4/17,5 | 280 | 140 | 900 | 225 | 13,44 |

observe the maximum installation depth of the tank.
* not suitable for Storatherm Aqua Solar AF 300/2S.

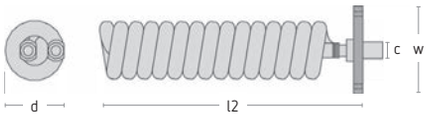
## EFHR Accessories

| Type | Art. No. | DG | Weight [kg] |
|---|---|---|---|
| flange adapter DN 110/DN 180 | 5402400 | SXXX | 4,00 |

# Storatherm accessories

## RWT ribbed-pipe heat exchanger

- for integration of an additional heat generator, e.g. solar system
- suitable for these types:
  - → Storatherm Aqua Heat Pump
  - → Storatherm Aqua Solar
  - → Storatherm Aqua
  - → Storatherm Aqua Load
  - → Storatherm Heat
- incl. counterflange and seal
- RWT 1: LK 150 mm = hot water storage tank ≤ 500 litres and all buffer storage tanks
- RWT 2: LK 225 mm = hot water storage tank ≥ 750 litres
- approved for heating water, solar fluid
- made from copper finned tube
- electrically insulated connections for galvanic isolation
- max. permissible operating overpressure 10 bar
- max. permissible operating temperature 90 °C





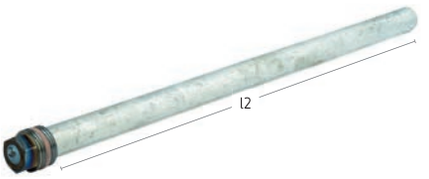

| Type | Art. No. | DG | Connection c | Continuous output* [kW] | Ø d [mm] | Width w [mm] | Installation length l2 [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|
| RWT 1 | 5418600 | 0068 | G ¾" | 40 | 110 | 150 | 420 | 7,50 |
| RWT 2 | 5418900 | 0068 | G ¾" | 75 | 170 | 225 | 540 | 8,10 |

* Continuous output according to DIN 4708; at 2 $m^3/h$

# Storatherm accessories

## Magnesium protective anodes

- for cathodic corrosion protection
- all Reflex tank water heaters are factory-fitted with magnesium rod anodes
- from type AF 750/1; AF 750/2; AL 1500/R2; AH 750/1; and AH 750/2 with two anodes




| Art. No. | DG | Dimensions | Weight [kg] | Suitable for tank type | Not suitable for tank type |
|---|---|---|---|---|---|
| **Chain anodes** | | | | | |
| 7751600 | 0068 | G1" × Ø 22 × $l_2$ 1600 | 2,00 | – | → AC 120/1; AC 150/1; AC 250/1<br>→ AF 750/1 – AF 3000/1<br>→ AL 750/R – AL 3000<br>→ AH 750/1; AH 1000/1; AH 750/2; AH 1000/2 |
| **Magnesium protective anodes** | | | | | |
| 5415100 | 0068 | G ¾" × Ø 26 × $l_2$ 420 | 0,50 | → AC 160/1 | – |
| 5415300 | 0068 | G 1¼" × Ø 33 × $l_2$ 625 | 0,50 | → AH 300/1; AH 300/2<br>→ AF 1000/1 2 units required | – |
| 5415500 | 0068 | G 1¼" × Ø 22 × $l_2$ 1250 | 0,50 | → AF 1000/2<br>→ AH 500/1; AH 500/2; AH 1000/1; AH 1000/2 | – |
| 5415700 | 0068 | G 1¼" × Ø 33 × $l_2$ 690 | 0,50 | → AL 1000 | – |
| 5452200 | 0068 | G1" × Ø 26 × $l_2$ 480 | 0,50 | → AC 150/1<br>→ AF 150/1 | – |
| 5415200 | 0068 | G1" × Ø 26 × $l_2$ 550 | 0,75 | → AF 200/1; AF 200/2 | – |
| 5415600 | 0068 | G 1¼" × Ø 33 × $l_2$ 625 | 1,00 | → AL 750/R<br>→ AH 750/1; AH 750/2; AH 1000/1; AH 1000/2 | – |
| 5452500 | 0068 | G1" × Ø 26 × $l_2$ 1100 | 1,00 | → AL 500/R<br>→ AF 500/1; AF 500/2 | – |
| 5453300 | 0068 | G1" × Ø 26 × $l_2$ 900 | 1,00 | → AL 300/R – AL 500/R<br>→ AF 400/1; AF 300/1 Ø600; AF 400/2 | – |
| 5453400 | 0068 | G1" × Ø 26 × $l_2$ 800 | 1,00 | → AL 300/R<br>→ AF 300/1; AF 300/2 Ø700 | – |
| 5455500 | 0068 | G 1¼" × Ø 33 × $l_2$ 530 | 1,00 | → AF 750/1<br>→ AL 1500 – AL 3000 2 units required | – |
| 5460100 | 0068 | G ¾" × Ø 33 × $l_2$ 790 | 1,00 | → AC 250/1 | – |
| 5415400 | 0068 | G 1¼" × Ø 33 × $l_2$ 1060 | 1,84 | → AH 400/1; AH 400/2<br>→ AF 750/2<br>→ AH 750/1; AH 750/2 | – |

# Storatherm accessories

CE

## Impressed-current anodes

- maintenance-free continuous protection to DIN 4753 T3 and T6
- voltage-controlled power supply 230 V; 50 / 60 Hz
- wear-free titanium electrode
- protection class II (operation in closed rooms)
- reducer 1" – ¾" thread, provided on-site




| Art. No. | DG | Dimensions | Weight [kg] |
|---|---|---|---|
| **Impressed-current anodes** | | | |
| 7751300 | 0068 | G ¾" × $l_2$ 400 | 0,75 |
| 9119365 | 0068 | G 1¼" × $l_2$ 800 | 0,64 |

# Insulations

CE

| Type | Art. No. | DG | Weight [kg] |
|---|---|---|---|
| fleece insulation with foil jacket for heating applications, installation by the user | | | |
| insulation AF 3000/1 | 5914300 | 0064 | 35,00 |
| insulation AF 3000/2 | 5914600 | 0064 | 55,00 |
| insulation H 3000/1 | 5916600 | 0064 | 28,40 |
| insulation H 3000/R | 5870700 | 0064 | 28,40 |
| insulation H 4000/1 | 5916700 | 0064 | 35,50 |
| insulation H 4000/R | 5870800 | 0064 | 35,50 |
| insulation H 5000/1 | 5916800 | 0064 | 42,70 |
| insulation H 5000/R | 5870900 | 0064 | 42,70 |

# SINUS Buffer tanks

## SINUS buffer tanks — customised CE



You can find the enquiry form at
**www.reflex-winkelmann.com/en**

buffer tanks — customised

### Technical Features

- pressurised water vessel as a cylindrical upright version with dished boiler ends, standing on the pedestal feet
- interior unfinished, exterior primed with anti-rust coating (suitable for cold insulation according to DIN)
- designed according to SINUS factory standard or optionally according to AD 2000 rules and approved according to the PED
- equipped as standard with a 1" sleeve for venting and a 1½" sleeve for draining
- connections for thermometers, pressure gauges and flow and return connections in threaded or flange PN 6/PN 16 design as specified (possibly with disk reinforcement on the connections dependent on static requirements)
- if required including necessary fittings (e.g. nozzle tubes, pipe elbows, etc.)
- revision opening (depending on size), hand hole closure 100 × 150 mm or manhole closure 320 × 420 mm
- max. permissible operating overpressure: 0 – 6/10 bar
- max. permissible operating temperature: -10 – 110 °C
- installation and attachment elements:
  - → flange connections
  - → diffuser pipe elbows
  - → pipe elbows
  - → sleeves
  - → hand holes
  - → threaded connections
  - → manholes
  - → nozzle tubes
  - → perforated/stratification plates
- insulation for heating systems:
  - → in foil jacket
  - → 100 mm polyester-fibre fleece 12 kg/m³ (WLG 0.043) fire class B1
  - → clamping strip closure
  - → PVC cap incl. 100 mm insulation cover fleece
  - → incl. floor insulation
  - → not diffusion-tight

**NEW: Buffer tank up to 200,000 litres.**
Also suitable for outdoor installation including insulation and all necessary calculations.
**anfragen@sinusverteiler.com**

# Theoretical principles

## Longtherm heat exchangers

Reflex Longtherm heat exchangers are available in copper brazed and screwed configurations. The existing type diversity means that a wide array of applications in heating and district heating technology, as well as in refrigeration and industrial plants are provided for. These all-rounders are ideal for applications of any size up to 230 °C/30 bar for the brazed and 110 °C/16 bar for the screwed heat exchangers. Different outputs, materials or pressure and temperature requirements can be implemented at the request of the customer. The following characteristics are required for dimensioning:

- transmission capacity
- inlet and outlet temperatures for primary and secondary side
- type of medium
- max. permissible pressure losses
- other requirements (connections, installation dimensions, etc.)

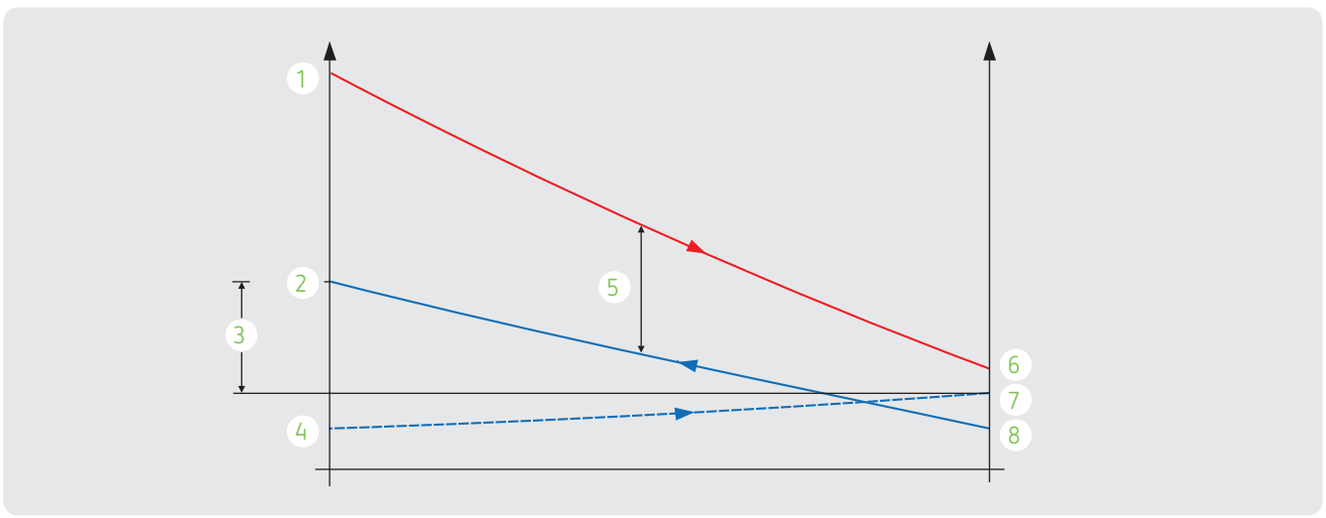


Customised planning with our configuration software

Reflex Solutions **Pro**
**rsp.reflex.de/en**

## Longtherm — counter flow

Heat exchangers should always be connected according to the counter flow principle, as this is the only way to use their full capacity. When connected in the parallel flow, considerable losses in capacity must be expected in certain cases.




1. ϑ hot, inlet
2. ϑ cold, outlet – counter flow
3. Additional yield, counter flow compared to parallel flow
4. ϑ cold, on – counter flow
5. Δ ϑ in
6. ϑ hot, off
7. ϑ cold, off – parallel flow
8. ϑ cold, on – counter flow

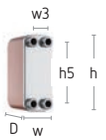
# Longtherm brazed — quick selection

| Output | System separation | | Low-temperature | | Underfloor heating | | District heating | | Cold water | | Potable water / charge water tank / flow heater | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| primary | 70 °C | 50 °C | 50 °C | 40 °C | 55 °C | 49 °C | 110 °C | 55 °C | 14 °C | 8 °C | 70 °C | 50 °C |
| secondary | 40 °C | 60 °C | 35 °C | 50 °C | 40 °C | 45 °C | 50 °C | 70 °C | 6 °C | 12 °C | 10 °C | 60 °C |
| log. temperature difference* | 10 K | | 5 K | | 9,5 K | | 16,8 K | | 2 K | | 21,6 K | |
| water / glycol | water / water | | water / water | | water / water | | water / water | | water / 34 % glycol | | water / 38 % glycol | |
| max. pressure loss | 25 kPa | | 25 kPa | | 25 kPa | | 25 kPa | | 35 kPa | | 25 kPa | |
| Thermal output [kW] | Heat exchanger type (Art.- No.) | | | | | | | | | | | |
| 3 | **RMB-14-20** (8011200) | | **RMB-14-20** (8011200) | | **RMB-14-10** (8011100) | | **RMB-14-10** (8011100) | | **RMB-34-20** (8013600) | | **RMB-14-10** (8011100) | |
| 6 | **RMB-14-20** (8011200) | | **RMB-22-20** (8011500) | | **RMB-14-10** (8011100) | | **RMB-14-20** (8011200) | | **RMB-34-30** (8013700) | | **RMB-14-10** (8011100) | |
| 10 | **RMB-14-30** (8011300) | | **RMB-22-20** (8011500) | | **RMB-14-20** (8011200) | | **RMB-14-20** (8011200) | | **RMB-34-50** (8013900) | | **RMB-14-20** (8011200) | |
| 15 | **RMB-22-20** (8011500) | | **RMB-22-30** (8021300) | | **RMB-14-30** (8011300) | | **RMB-14-30** (8011300) | | **RHB-60-30** (8025500) | | **RMB-14-20** (8011200) | |
| 20 | **RMB-22-20** (8011500) | | **RMB-22-40** (8011700) | | **RMB-14-40** (8011400) | | **RMB-14-30** (8011300) | | **RHB-60-40** (8024100) | | **RMB-14-30** (8011300) | |
| 25 | **RMB-22-30** (8021300) | | **RHB-31-30** (8023700) | | **RMB-31-30** (8023300) | | **RMB-14-40** (8011400) | | **RHB-60-50** (8024200) | | **RMB-14-30** (8011300) | |
| 30 | **RMB-22-30** (8021300) | | **RHB-31-30** (8023700) | | **RMB-31-40** (8023400) | | **RMB-22-20** (8011500) | | **RHB-60-60** (8024300) | | **RMB-22-20** (8011500) | |
| 35 | **RMB-22-30** (8021300) | | **RHB-31-30** (8023700) | | **RMB-31-40** (8023400) | | **RMB-22-20** (8011500) | | **RHB-60-70** (8024400) | | **RMB-22-20** (8011500) | |
| 40 | **RMB-22-40** (8011700) | | **RHB-31-30** (8023700) | | **RMB-31-50** (8023500) | | **RMB-22-20** (8011500) | | **RHB-60-70** (8024400) | | **RMB-22-30** (8021300) | |
| 45 | **RMB-22-40** (8011700) | | **RHB-31-40** (8023800) | | **RMB-31-50** (8023500) | | **RMB-22-30** (8021300) | | **RHB-60-80** (8024500) | | **RMB-22-30** (8021300) | |
| 50 | **RMB-22-40** (8011700) | | **RHB-31-40** (8023800) | | **RMB-31-60** (8023600) | | **RMB-22-30** (8021300) | | **RHB-60-90** (8014600) | | **RMB-22-40** (8011700) | |
| 60 | **RMB-22-50** (8011800) | | **RHB-31-50** (8023900) | | **RMB-31-90** (8013500) | | **RMB-22-40** (8011700) | | **RHB-60-110** (8014800) | | **RMB-22-40** (8011700) | |
| 70 | **RHB-31-30** (8023700) | | **RHB-31-60** (8024000) | | **RLB-110-30** (8024600) | | **RMB-22-50** (8011800) | | **RHB-110-80** (8016500) | | **RMB-22-50** (8011800) | |
| 80 | **RHB-31-30** (8023700) | | **RHB-31-70** (8012300) | | **RLB-110-30** (8024600) | | **RHB-31-30** (8023700) | | **RHB-110-80** (8016500) | | **RHB-31-30** (8023700) | |
| 90 | **RHB-31-40** (8023800) | | **RHB-31-80** (8012400) | | **RLB-110-40** (8024700) | | **RHB-31-40** (8023800) | | **RHB-110-90** (8016600) | | **RHB-31-40** (8023800) | |
| 100 | **RHB-31-40** (8023800) | | **RHB-31-90** (8012500) | | **RLB-110-40** (8024700) | | **RHB-31-40** (8023800) | | **RHB-110-100** (8016700) | | **RHB-31-40** (8023800) | |
| 110 | **RHB-31-50** (8023900) | | **RHB-31-100** (8012600) | | **RLB-110-50** (8015100) | | **RHB-31-40** (8023800) | | **RHB-110-110** (8016800) | | **RHB-31-40** (8023800) | |
| 120 | **RHB-31-50** (8023900) | | **RHB-31-140** (8012800) | | **RLB-110-50** (8015100) | | **RHB-31-50** (8023900) | | **RHB-110-120** (8016900) | | **RHB-31-50** (8023900) | |
| 130 | **RHB-31-50** (8023900) | | **RMB-110-40** (8024800) | | **RLB-110-60** (8015200) | | **RHB-31-50** (8023900) | | **RHB-110-130** (8021400) | | **RHB-31-50** (8023900) | |
| 140 | **RHB-31-60** (8024000) | | **RMB-110-40** (8024800) | | **RLB-110-60** (8015200) | | **RHB-31-60** (8024000) | | **RHB-110-150** (8017100) | | **RHB-31-50** (8023900) | |
| 150 | **RHB-31-60** (8024000) | | **RMB-110-50** (8024900) | | **RLB-110-70** (8015300) | | **RHB-31-60** (8024000) | | **RHB-110-160** (8021100) | | **RMB-31-60** (8023600) | |
| 160 | **RHB-31-70** (8012300) | | **RMB-110-50** (8024900) | | **RLB-110-70** (8015300) | | **RHB-31-70** (8012300) | | **RHB-110-170** (8017200) | | **RMB-31-70** (8013300) | |
| 170 | **RHB-31-70** (8012300) | | **RMB-110-50** (8024900) | | **RLB-110-70** (8015300) | | **RHB-31-70** (8012300) | | **RHB-110-190** (8017300) | | **RMB-31-70** (8013300) | |
| 180 | **RHB-31-80** (8012400) | | **RMB-110-60** (8025000) | | **RLB-110-90** (8019900) | | **RHB-31-80** (8012400) | | **RMB-235-90** (8018000) | | **RMB-31-70** (8013300) | |
| 190 | **RHB-31-80** (8012400) | | **RMB-110-60** (8025000) | | **RLB-110-100** (8020000) | | **RHB-31-90** (8012500) | | **RMB-235-100** (8018100) | | **RMB-31-80** (8013400) | |
| 200 | **RHB-31-90** (8012500) | | **RMB-110-60** (8025000) | | **RLB-110-110** (8020100) | | **RHB-31-100** (8012600) | | **RMB-235-100** (8018100) | | **RMB-31-80** (8013400) | |
| 225 | **RHB-31-100** (8012600) | | **RMB-110-70** (8025100) | | **RLB-235-80** (8017500) | | **RHB-31-110** (8012700) | | **RMB-235-120** (8018300) | | **RMB-31-90** (8013500) | |
| 250 | **RHB-31-140** (8012800) | | **RMB-110-80** (8025200) | | **RLB-235-90** (8017600) | | **RHB-31-140** (8012800) | | **RMB-235-130** (8018400) | | **RMB-31-100** (8019400) | |
| 275 | **RMB-110-40** (8024800) | | **RMB-110-90** (8025300) | | **RLB-235-100** (8017700) | | **RMB-110-40** (8024800) | | **RMB-235-140** (8021600) | | **RLB-110-40** (8024700) | |
| 300 | **RMB-110-50** (8024900) | | **RMB-110-100** (8025400) | | **RLB-235-110** (8017800) | | **RMB-110-40** (8024800) | | **RMB-235-160** (8018600) | | **RLB-110-50** (8015100) | |
| 325 | **RMB-110-50** (8024900) | | **RMB-110-120** (8016200) | | **RLB-235-120** (8017900) | | **RMB-110-50** (8024900) | | **RMB-235-170** (8021700) | | **RLB-110-50** (8015100) | |
| 350 | **RMB-110-60** (8025000) | | **RMB-110-130** (8020800) | | **RLB-235-140** (8022100) | | **RMB-110-50** (8024900) | | **RMB-235-190** (8021800) | | **RLB-110-50** (8015100) | |
| 375 | **RMB-110-60** (8025000) | | **RMB-110-150** (8020900) | | **RLB-235-150** (8022200) | | **RMB-110-60** (8025000) | | **RMB-235-220** (8018900) | | **RLB-110-60** (8015200) | |
| 400 | **RMB-110-70** (8025100) | | **RLB-235-100** (8017700) | | **RLB-235-170** (8022400) | | **RMB-110-60** (8025000) | | **RMB-235-240** (8019000) | | **RLB-110-60** (8015200) | |
| 425 | **RMB-110-70** (8025100) | | **RLB-235-100** (8017700) | | **RLB-235-190** (8022600) | | **RMB-110-70** (8025100) | | **RMB-235-260** (8021900) | | **RLB-110-60** (8015200) | |
| 450 | **RMB-110-80** (8025200) | | **RLB-235-110** (8017800) | | **RLB-235-220** (8022800) | | **RMB-110-70** (8025100) | | **RMB-235-270** (8019100) | | **RLB-110-70** (8015300) | |
| 475 | **RMB-110-80** (8025200) | | **RLB-235-110** (8017800) | | **RLB-235-280** (8023200) | | **RMB-110-80** (8025200) | | | | **RLB-110-70** (8015300) | |
| 500 | **RMB-110-80** (8025200) | | **RLB-235-120** (8017900) | | | | **RMB-110-80** (8025200) | | | | **RLB-110-70** (8015300) | |
| 525 | **RMB-110-80** (8025200) | | **RLB-235-130** (8022000) | | | | **RMB-110-90** (8025300) | | | | **RLB-110-80** (8015400) | |
| 550 | **RMB-110-90** (8025300) | | **RLB-235-130** (8022000) | | | | **RMB-110-90** (8025300) | | | | **RLB-110-80** (8015400) | |
| 575 | **RMB-110-90** (8025300) | | **RLB-235-140** (8022100) | | | | **RMB-110-100** (8025400) | | | | **RLB-110-80** (8015400) | |
| 600 | **RMB-110-100** (8025400) | | **RLB-235-140** (8022100) | | | | **RMB-110-100** (8025400) | | | | **RLB-110-90** (8019900) | |
| 625 | **RMB-110-110** (8016100) | | **RLB-235-150** (8022200) | | | | **RMB-110-110** (8016100) | | | | **RLB-110-90** (8019900) | |
| 650 | **RMB-110-120** (8016200) | | **RLB-235-150** (8022200) | | | | **RMB-110-110** (8016100) | | | | **RLB-110-90** (8019900) | |
| 675 | **RMB-110-120** (8016200) | | **RLB-235-160** (8022300) | | | | **RMB-110-120** (8016200) | | | | **RLB-110-100** (8020000) | |
| 700 | **RMB-110-130** (8020800) | | **RLB-235-160** (8022300) | | | | **RMB-110-130** (8020800) | | | | **RLB-110-100** (8020000) | |
| 725 | **RMB-110-140** (8016300) | | **RLB-235-170** (8022400) | | | | **RLB-110-140** (8020400) | | | | **RLB-110-100** (8020000) | |
| 750 | **RMB-110-150** (8020900) | | **RLB-235-180** (8022500) | | | | **RLB-110-140** (8020400) | | | | **RLB-110-110** (8020100) | |
| 775 | **RMB-110-150** (8020900) | | **RLB-235-180** (8022500) | | | | **RLB-110-140** (8020400) | | | | **RLB-110-110** (8020100) | |
| 800 | **RLB-235-90** (8017600) | | **RLB-235-190** (8022600) | | | | **RLB-110-150** (8020500) | | | | **RLB-110-120** (8020200) | |
| 825 | **RLB-235-90** (8017600) | | **RLB-235-190** (8022600) | | | | **RLB-110-150** (8020500) | | | | **RLB-110-130** (8020300) | |
| 850 | **RLB-235-100** (8017700) | | **RLB-235-200** (8022700) | | | | **RLB-110-160** (8020600) | | | | **RLB-110-140** (8020400) | |
| 875 | **RLB-235-100** (8017700) | | **RLB-235-220** (8022800) | | | | **RLB-235-70** (8017400) | | | | **RLB-235-80** (8017500) | |
| 900 | **RLB-235-100** (8017700) | | **RLB-235-220** (8022800) | | | | **RLB-235-80** (8017500) | | | | **RLB-235-80** (8017500) | |
| 925 | **RLB-235-110** (8017800) | | **RLB-235-260** (8023000) | | | | **RLB-235-80** (8017500) | | | | **RLB-235-80** (8017500) | |
| 950 | **RLB-235-110** (8017800) | | **RLB-235-280** (8023200) | | | | **RLB-235-80** (8017500) | | | | **RLB-235-80** (8017500) | |
| 975 | **RLB-235-110** (8017800) | | | | | | **RLB-235-80** (8017500) | | | | **RLB-235-90** (8017600) | |
| 1000 | **RLB-235-110** (8017800) | | | | | | **RLB-130-90** (8017600) | | | | **RLB-235-90** (8017600) | |

* If the logarithmic temperature differences and the medium remain identical, then the same heat exchanger can be selected even if the temperature profiles change. However, the maximum pressure loss can vary and must be checked accordingly.

# Heat exchangers

## Longtherm brazed single-pass



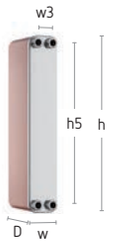

Longtherm R_B-14




Longtherm R_B-22



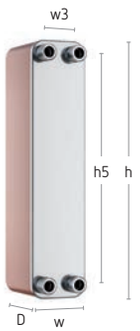

Longtherm R_B-31




Longtherm R_B-34



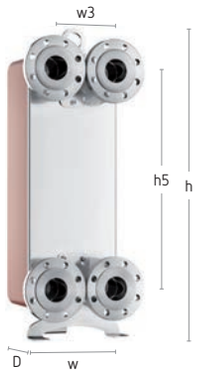

Longtherm R_B-34




Longtherm RHB-110




Longtherm R_B-110




Longtherm R_B-235

**Technical Features**

- stainless steel (1.4401) heat exchanger soldered with copper solder
- approval according to Pressure Equipment Directive 2014/68/EU
- max. permissible operating temperature 230 °C
- permissible gauge operating pressure for R_B-14 to -60: 30 bar
- permissible gauge operating pressure for R_B-14 to -60: 25 bar
- flange connections solely for R_B-235

# Longtherm brazed single-pass

CE

| | Type | Number of plates | Art. No. | | | DG | Overall water content | Connection c | Height h/h5 | Width w/w3 | Depth D | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RHB | RLB | RMB | | [l] | | [mm] | [mm] | [mm] | [kg] |
| 30 bar 230 °C | R_B-14-10 | 10 | – | – | 8011100 | 0067 | 0,2 | AG ¾" | 203/164 | 81/42 | 32 | 1,10 |
| | R_B-14-20 | 20 | – | – | 8011200 | 0067 | 0,4 | AG ¾" | 203/164 | 81/42 | 55 | 1,60 |
| | R_B-14-30 | 30 | – | – | 8011300 | 0067 | 0,6 | AG ¾" | 203/164 | 81/42 | 78 | 2,10 |
| | R_B-14-40 | 40 | – | – | 8011400 | 0067 | 0,8 | AG ¾" | 203/164 | 81/42 | 101 | 2,60 |
| | R_B-14-50 | 50 | – | – | 8019300 | 0067 | 1,0 | AG ¾" | 203/164 | 81/42 | 124 | 3,10 |
| | R_B-14-60 | 60 | – | – | 8031000 | 0067 | 1,2 | AG ¾" | 203/164 | 81/42 | 147 | 3,60 |
| | R_B-22-10 | 10 | – | – | 8031700 | 0067 | 0,3 | AG ¾" | 299/260 | 81/42 | 32 | 1,60 |
| | R_B-22-20 | 20 | – | – | 8011500 | 0067 | 0,6 | AG ¾" | 299/260 | 81/42 | 55 | 2,10 |
| | R_B-22-30 | 30 | – | – | 8021300 | 0067 | 1,0 | AG ¾" | 299/260 | 81/42 | 78 | 2,80 |
| | R_B-22-40 | 40 | – | – | 8011700 | 0067 | 1,4 | AG ¾" | 299/260 | 81/42 | 101 | 3,50 |
| | R_B-22-50 | 50 | – | – | 8011800 | 0067 | 1,8 | AG ¾" | 299/260 | 81/42 | 124 | 4,20 |
| | R_B-22-60 | 60 | – | – | 8031800 | 0067 | 2,2 | AG ¾" | 299/260 | 81/42 | 147 | 5,50 |
| | R_B-31-10 | 10 | 8032500 | – | 8034600 | 0067 | 0,6 | AG 1¼" | 286/232 | 123/68 | 35 | 2,80 |
| | R_B-31-15 | 15 | 8032600 | – | 8034700 | 0067 | 0,8 | AG 1¼" | 286/232 | 123/68 | 47 | 3,35 |
| | R_B-31-20 | 20 | 8032700 | – | 8034800 | 0067 | 1,0 | AG 1¼" | 286/232 | 123/68 | 58 | 3,90 |
| | R_B-31-30 | 30 | 8023700 | – | 8023300 | 0067 | 1,4 | AG 1¼" | 286/232 | 123/68 | 81 | 5,01 |
| | R_B-31-40 | 40 | 8023800 | – | 8023400 | 0067 | 1,8 | AG 1¼" | 286/232 | 123/68 | 104 | 6,15 |
| | R_B-31-50 | 50 | 8023900 | – | 8023500 | 0067 | 2,4 | AG 1¼" | 286/232 | 123/68 | 128 | 7,28 |
| | R_B-31-60 | 60 | 8024000 | – | 8023600 | 0067 | 2,9 | AG 1¼" | 286/232 | 123/68 | 151 | 8,42 |
| | R_B-31-70 | 70 | 8012300 | – | 8013300 | 0067 | 3,2 | AG 1¼" | 286/232 | 123/68 | 174 | 10,02 |
| | R_B-31-80 | 80 | 8012400 | – | 8013400 | 0067 | 3,8 | AG 1¼" | 286/232 | 123/68 | 198 | 11,16 |
| | R_B-31-90 | 90 | 8012500 | – | 8013500 | 0067 | 4,2 | AG 1¼" | 286/232 | 123/68 | 221 | 15,00 |
| | R_B-31-100 | 100 | 8012600 | – | 8019400 | 0067 | 4,6 | AG 1¼" | 286/232 | 123/68 | 245 | 16,50 |
| | R_B-31-110 | 110 | 8012700 | – | 8019500 | 0067 | 5,1 | AG 1¼" | 286/232 | 123/68 | 269 | 18,00 |
| | R_B-31-120 | 120 | 8032800 | – | 8034900 | 0067 | 5,4 | AG 1¼" | 286/232 | 123/68 | 293 | 15,50 |
| | R_B-31-130 | 130 | 8032900 | – | 8035000 | 0067 | 6,0 | AG 1¼" | 286/232 | 123/68 | 316 | 16,65 |
| | R_B-31-140 | 140 | 8012800 | – | 8019600 | 0067 | 6,6 | AG 1¼" | 286/232 | 123/68 | 339 | 22,50 |
| | R_B-31-150 | 150 | 8033000 | – | 8035100 | 0067 | 7,0 | AG 1¼" | 286/232 | 123/68 | 362 | 18,85 |
| | R_B-34-10 | 10 | – | – | 8036700 | 0067 | 1,4 | AG ¾" | 471/432 | 81/42 | 32 | 2,40 |
| | R_B-34-20 | 20 | – | – | 8013600 | 0067 | 0,6 | AG ¾" | 471/432 | 81/42 | 55 | 3,10 |
| | R_B-34-30 | 30 | – | – | 8013700 | 0067 | 1,1 | AG ¾" | 471/432 | 81/42 | 78 | 4,20 |
| | R_B-34-40 | 40 | – | – | 8013800 | 0067 | 1,6 | AG ¾" | 471/432 | 81/42 | 101 | 5,30 |
| | R_B-34-50 | 50 | – | – | 8013900 | 0067 | 2,1 | AG ¾" | 471/432 | 81/42 | 124 | 6,40 |
| | R_B-34-60 | 60 | – | – | 8014000 | 0067 | 2,6 | AG ¾" | 471/432 | 81/42 | 147 | 7,50 |
| | R_B-60-10 | 10 | 8037400 | 8039300 | 8037800 | 0067 | 1,2 | AG 1¼" | 538/480 | 123/68 | 32 | 4,80 |
| | R_B-60-20 | 20 | 8037500 | 8039400 | 8037900 | 0067 | 2,0 | AG 1¼" | 538/480 | 123/68 | 56 | 7,00 |
| | R_B-60-30 | 30 | 8025500 | 8039500 | 8038000 | 0067 | 2,8 | AG 1¼" | 538/480 | 123/68 | 81 | 9,17 |
| | R_B-60-40 | 40 | 8024100 | 8039600 | 8038100 | 0067 | 3,6 | AG 1¼" | 538/480 | 123/68 | 104 | 11,36 |
| | R_B-60-50 | 50 | 8024200 | 8039700 | 8038200 | 0067 | 4,4 | AG 1¼" | 538/480 | 123/68 | 128 | 13,55 |
| | R_B-60-60 | 60 | 8024300 | 8039800 | 8038300 | 0067 | 5,4 | AG 1¼" | 538/480 | 123/68 | 151 | 15,74 |
| | R_B-60-70 | 70 | 8024400 | 8039900 | 8038400 | 0067 | 6,2 | AG 1¼" | 538/480 | 123/68 | 175 | 17,92 |
| | R_B-60-80 | 80 | 8024500 | 8040000 | 8038500 | 0067 | 7,2 | AG 1¼" | 538/480 | 123/68 | 198 | 20,11 |
| | R_B-60-90 | 90 | 8014600 | 8040100 | 8038600 | 0067 | 8,0 | AG 1¼" | 538/480 | 123/68 | 222 | 21,40 |
| | R_B-60-100 | 100 | 8014700 | 8040200 | 8038700 | 0067 | 9,0 | AG 1¼" | 538/480 | 123/68 | 245 | 23,50 |
| | R_B-60-110 | 110 | 8014800 | 8040300 | 8038800 | 0067 | 10,0 | AG 1¼" | 538/480 | 123/68 | 268 | 25,60 |
| | R_B-60-120 | 120 | 8019700 | 8040400 | 8038900 | 0067 | 11,0 | AG 1¼" | 538/480 | 123/68 | 292 | 27,70 |
| | R_B-60-130 | 130 | 8019800 | 8040500 | 8039000 | 0067 | 12,0 | AG 1¼" | 538/480 | 123/68 | 316 | 29,80 |
| | R_B-60-140 | 140 | 8037600 | 8040600 | 8039100 | 0067 | 13,0 | AG 1¼" | 538/480 | 123/68 | 340 | 32,00 |
| | R_B-60-150 | 150 | 8037700 | 8040700 | 8039200 | 0067 | 13,8 | AG 1¼" | 538/480 | 123/68 | 364 | 34,20 |

# Longtherm brazed single-pass

CE

| | Type | Number of plates | Art. No. | | | DG | Overall water content | Connection c | Height h/h5 | Width w/w3 | Depth D | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RHB | RLB | RMB | | [l] | | [mm] | [mm] | [mm] | [kg] |
| 25 bar 230 °C | R_B-110-30 | 30 | 8045300 | – | – | 0067 | 7,2 | AG 2" | 620/520 | 191/91 | 90 | 20,90 |
| | R_B-110-40 | 40 | 8045400 | – | – | 0067 | 9,6 | AG 2" | 620/520 | 191/91 | 116 | 25,00 |
| | R_B-110-50 | 50 | 8045500 | – | – | 0067 | 12,0 | AG 2" | 620/520 | 191/91 | 142 | 29,10 |
| | R_B-110-60 | 60 | 8045600 | – | – | 0067 | 15,6 | AG 2" | 620/520 | 191/91 | 166 | 33,20 |
| | R_B-110-70 | 70 | 8021000 | – | – | 0067 | 16,8 | AG 2" | 620/520 | 191/91 | 192 | 37,30 |
| | R_B-110-80 | 80 | 8016500 | – | – | 0067 | 19,2 | AG 2" | 620/520 | 191/91 | 218 | 41,90 |
| | R_B-110-90 | 90 | 8016600 | – | – | 0067 | 21,6 | AG 2" | 620/520 | 191/91 | 244 | 46,50 |
| | R_B-110-100 | 100 | 8016700 | – | – | 0067 | 24,0 | AG 2" | 620/520 | 191/91 | 270 | 51,10 |
| | R_B-110-110 | 110 | 8016800 | – | – | 0067 | 26,4 | AG 2" | 620/520 | 191/91 | 296 | 55,70 |
| | R_B-110-120 | 120 | 8016900 | – | – | 0067 | 28,8 | AG 2" | 620/520 | 191/91 | 322 | 60,30 |
| | R_B-110-130 | 130 | 8021400 | – | – | 0067 | 31,2 | AG 2" | 620/520 | 191/91 | 348 | 61,49 |
| | R_B-110-140 | 140 | 8017000 | – | – | 0067 | 33,6 | AG 2" | 620/520 | 191/91 | 374 | 69,50 |
| | R_B-110-150 | 150 | 8017100 | – | – | 0067 | 34,0 | AG 2" | 620/520 | 191/91 | 400 | 74,10 |
| | R_B-110-160 | 160 | 8021100 | – | – | 0067 | 36,4 | AG 2" | 620/520 | 191/91 | 426 | 78,70 |
| | R_B-110-170 | 170 | 8017200 | – | – | 0067 | 38,8 | AG 2" | 620/520 | 191/91 | 452 | 85,77 |
| | R_B-110-180 | 180 | 8021200 | – | – | 0067 | 41,2 | AG 2" | 620/520 | 191/91 | 478 | 89,86 |
| | R_B-110-190 | 190 | 8017300 | – | – | 0067 | 43,6 | AG 2" | 620/520 | 191/91 | 504 | 93,94 |
| | R_B-110-30 | 30 | – | 8024600 | 8119600 | 0067 | 4,6 | AG 2½" | 466/378 | 258/170 | 84 | 20,96 |
| | R_B-110-40 | 40 | – | 8024700 | 8024800 | 0067 | 6,4 | AG 2½" | 466/378 | 258/170 | 108 | 25,04 |
| | R_B-110-50 | 50 | – | 8015100 | 8024900 | 0067 | 8,0 | AG 2½" | 466/378 | 258/170 | 132 | 28,10 |
| | R_B-110-60 | 60 | – | 8015200 | 8025000 | 0067 | 9,6 | AG 2½" | 466/378 | 258/170 | 156 | 35,60 |
| | R_B-110-70 | 70 | – | 8015300 | 8025100 | 0067 | 11,2 | AG 2½" | 466/378 | 258/170 | 180 | 37,30 |
| | R_B-110-80 | 80 | – | 8015400 | 8025200 | 0067 | 12,8 | AG 2½" | 466/378 | 258/170 | 204 | 41,90 |
| | R_B-110-90 | 90 | – | 8019900 | 8025300 | 0067 | 14,4 | AG 2½" | 466/378 | 258/170 | 228 | 46,50 |
| | R_B-110-100 | 100 | – | 8020000 | 8025400 | 0067 | 16,0 | AG 2½" | 466/378 | 258/170 | 252 | 51,10 |
| | R_B-110-110 | 110 | – | 8020100 | 8016100 | 0067 | 17,6 | AG 2½" | 466/378 | 258/170 | 276 | 55,70 |
| | R_B-110-120 | 120 | – | 8020200 | 8016200 | 0067 | 19,2 | AG 2½" | 466/378 | 258/170 | 300 | 60,30 |
| | R_B-110-130 | 130 | – | 8020300 | 8020800 | 0067 | 20,8 | AG 2½" | 466/378 | 258/170 | 324 | 64,90 |
| | R_B-110-140 | 140 | – | 8020400 | 8016300 | 0067 | 22,6 | AG 2½" | 466/378 | 258/170 | 348 | 69,50 |
| | R_B-110-150 | 150 | – | 8020500 | 8020900 | 0067 | 24,2 | AG 2½" | 466/378 | 258/170 | 372 | 74,10 |
| | R_B-110-160 | 160 | – | 8020600 | 8016400 | 0067 | 25,8 | AG 2½" | 466/378 | 258/170 | 396 | 78,70 |
| | R_B-235-30 | 30 | – | 8050100 | 8050800 | 0067 | 11,4 | DN 80/PN 40 | 788/682 | 310/170 | 85 | 65,30 |
| | R_B-235-40 | 40 | – | 8050200 | 8050900 | 0067 | 15,4 | DN 80/PN 40 | 788/682 | 310/170 | 110 | 73,60 |
| | R_B-235-50 | 50 | – | 8050300 | 8051000 | 0067 | 19,4 | DN 80/PN 40 | 788/682 | 310/170 | 134 | 81,90 |
| | R_B-235-60 | 60 | – | 8050400 | 8051100 | 0067 | 23,4 | DN 80/PN 40 | 788/682 | 310/170 | 159 | 90,20 |
| | R_B-235-70 | 70 | – | 8017400 | 8119800 | 0067 | 27,4 | DN 80/PN 40 | 788/682 | 310/204 | 183 | 98,50 |
| | R_B-235-80 | 80 | – | 8017500 | 8119900 | 0067 | 31,4 | DN 80/PN 40 | 788/682 | 310/204 | 208 | 107,00 |
| | R_B-235-90 | 90 | – | 8017600 | 8018000 | 0067 | 35,4 | DN 80/PN 40 | 788/682 | 310/204 | 232 | 115,50 |
| | R_B-235-100 | 100 | – | 8017700 | 8018100 | 0067 | 39,4 | DN 80/PN 40 | 788/682 | 310/204 | 257 | 124,00 |
| | R_B-235-110 | 110 | – | 8017800 | 8018200 | 0067 | 43,4 | DN 80/PN 40 | 788/682 | 310/204 | 281 | 132,50 |
| | R_B-235-120 | 120 | – | 8017900 | 8018300 | 0067 | 47,4 | DN 80/PN 40 | 788/682 | 310/204 | 306 | 141,00 |
| | R_B-235-130 | 130 | – | 8022000 | 8018400 | 0067 | 51,4 | DN 80/PN 40 | 788/682 | 310/204 | 330 | 149,50 |
| | R_B-235-140 | 140 | – | 8022100 | 8021600 | 0067 | 55,4 | DN 80/PN 16 | 788/682 | 310/204 | 355 | 155,67 |
| | R_B-235-150 | 150 | – | 8022200 | 8018500 | 0067 | 59,4 | DN 80/PN 40 | 788/682 | 310/204 | 379 | 166,50 |
| | R_B-235-160 | 160 | – | 8022300 | 8018600 | 0067 | 63,4 | DN 80/PN 40 | 788/682 | 310/204 | 404 | 175,00 |
| | R_B-235-170 | 170 | – | 8022400 | 8021700 | 0067 | 67,4 | DN 80/PN 40 | 788/682 | 310/204 | 428 | 180,79 |
| | R_B-235-180 | 180 | – | 8022500 | 8018700 | 0067 | 71,4 | DN 80/PN 40 | 788/682 | 310/204 | 453 | 192,00 |
| | R_B-235-190 | 190 | – | 8022600 | 8021800 | 0067 | 75,4 | DN 80/PN 40 | 788/682 | 310/204 | 477 | 197,35 |
| | R_B-235-200 | 200 | – | 8022700 | 8018800 | 0067 | 79,2 | DN 80/PN 40 | 788/682 | 310/204 | 502 | 209,00 |
| | R_B-235-210 | 210 | – | 8050500 | 8051200 | 0067 | 83,2 | DN 80/PN 40 | 788/682 | 310/170 | 526 | 213,90 |
| | R_B-235-220 | 220 | – | 8022800 | 8018900 | 0067 | 87,2 | DN 80/PN 40 | 788/682 | 310/204 | 551 | 226,00 |
| | R_B-235-230 | 230 | – | 8050600 | 8051300 | 0067 | 91,2 | DN 80/PN 40 | 788/682 | 310/170 | 575 | 230,50 |
| | R_B-235-240 | 240 | – | 8022900 | 8019000 | 0067 | 95,2 | DN 80/PN 40 | 788/682 | 310/204 | 600 | 243,00 |
| | R_B-235-250 | 250 | – | 8050700 | 8051400 | 0067 | 99,2 | DN 80/PN 40 | 788/682 | 310/170 | 624 | 247,20 |
| | R_B-235-260 | 260 | – | 8023000 | 8021900 | 0067 | 103,2 | DN 80/PN 40 | 788/682 | 310/204 | 649 | 255,50 |
| | R_B-235-270 | 270 | – | 8023100 | 8019100 | 0067 | 107,2 | DN 80/PN 40 | 788/682 | 310/204 | 673 | 268,50 |
| | R_B-235-280 | 280 | – | 8023200 | 8019200 | 0067 | 111,2 | DN 80/PN 40 | 788/682 | 310/204 | 698 | 277,00 |

# Longtherm brazed two-way



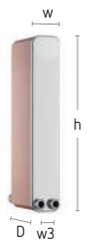

Longtherm R_B-14 – 2



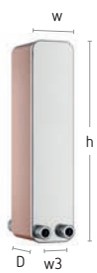

Longtherm R_B-22 – 2



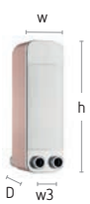

Longtherm R_B-31 – 2




Longtherm R_B-34 – 2




Longtherm R_B-60 – 2




Longtherm RHB-110 – 2




Longtherm R_B-110 – 2




Longtherm R_B-235 – 2

## Technical Features

- stainless steel (1.4401) heat exchanger soldered with copper solder
- approval according to Pressure Equipment Directive 2014/68/EU
- high thermal length for small expansion at low mass flows
- max. permissible operating temperature 230 °C
- permissible gauge operating pressure for R_B-14 to -60: 30 bar
- permissible gauge operating pressure for R_B-14 to -60: 25 bar
- flange connections solely for R_B-235

# Longtherm brazed two-way

CE

| | Type | Number of plates | Art. No. | | | DG | Overall water content | Connection c | Height h/h5 | Width w/w3 | Depth D | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RHB | RLB | RMB | | [l] | | [mm] | [mm] | [mm] | [kg] |
| 30 bar 230 °C | R_B-14-2-10 | 10 | – | – | 8031100 | 0067 | 0,2 | AG ¾" | 203 | 81/42 | 32 | 1,10 |
| | R_B-14-2-20 | 20 | – | – | 8031200 | 0067 | 0,4 | AG ¾" | 203 | 81/42 | 55 | 1,60 |
| | R_B-14-2-30 | 30 | – | – | 8031300 | 0067 | 0,6 | AG ¾" | 203 | 81/42 | 78 | 2,20 |
| | R_B-14-2-40 | 40 | – | – | 8031400 | 0067 | 0,8 | AG ¾" | 203 | 81/42 | 101 | 2,60 |
| | R_B-14-2-50 | 50 | – | – | 8031500 | 0067 | 1,0 | AG ¾" | 203 | 81/42 | 124 | 3,10 |
| | R_B-14-2-60 | 60 | – | – | 8031600 | 0067 | 1,2 | AG ¾" | 203 | 81/42 | 147 | 3,60 |
| | R_B-22-2-10 | 10 | – | – | 8031900 | 0067 | 0,3 | AG ¾" | 299 | 81/42 | 32 | 1,60 |
| | R_B-22-2-20 | 20 | – | – | 8032000 | 0067 | 0,6 | AG ¾" | 299 | 81/42 | 55 | 2,28 |
| | R_B-22-2-30 | 30 | – | – | 8032100 | 0067 | 1,0 | AG ¾" | 299 | 81/42 | 78 | 3,01 |
| | R_B-22-2-40 | 40 | – | – | 8032200 | 0067 | 1,4 | AG ¾" | 299 | 81/42 | 101 | 3,74 |
| | R_B-22-2-50 | 50 | – | – | 8032300 | 0067 | 1,8 | AG ¾" | 299 | 81/42 | 124 | 4,47 |
| | R_B-22-2-60 | 60 | – | – | 8032400 | 0067 | 2,2 | AG ¾" | 299 | 81/42 | 147 | 5,50 |
| | R_B-31-2-10 | 10 | 8033100 | – | 8035200 | 0067 | 0,6 | AG 1¼" | 286 | 123/68 | 35 | 2,80 |
| | R_B-31-2-20 | 20 | 8033300 | – | 8035400 | 0067 | 1,0 | AG 1¼" | 286 | 123/68 | 58 | 3,90 |
| | R_B-31-2-30 | 30 | 8033400 | – | 8035500 | 0067 | 1,4 | AG 1¼" | 286 | 123/68 | 81 | 5,01 |
| | R_B-31-2-40 | 40 | 8033500 | – | 8035600 | 0067 | 1,8 | AG 1¼" | 286 | 123/68 | 104 | 6,15 |
| | R_B-31-2-50 | 50 | 8033600 | – | 8035700 | 0067 | 2,2 | AG 1¼" | 286 | 123/68 | 128 | 7,28 |
| | R_B-31-2-60 | 60 | 8033700 | – | 8035800 | 0067 | 2,6 | AG 1¼" | 286 | 123/68 | 151 | 8,42 |
| | R_B-31-2-70 | 70 | 8033800 | – | 8035900 | 0067 | 3,0 | AG 1¼" | 286 | 123/68 | 174 | 9,80 |
| | R_B-31-2-80 | 80 | 8033900 | – | 8036000 | 0067 | 3,4 | AG 1¼" | 286 | 123/68 | 198 | 10,94 |
| | R_B-31-2-90 | 90 | 8034000 | – | 8036100 | 0067 | 3,8 | AG 1¼" | 286 | 123/68 | 221 | 12,08 |
| | R_B-31-2-100 | 100 | 8034100 | – | 8036200 | 0067 | 4,2 | AG 1¼" | 286 | 123/68 | 245 | 13,21 |
| | R_B-31-2-110 | 110 | 8034200 | – | 8036300 | 0067 | 4,6 | AG 1¼" | 286 | 123/68 | 269 | 14,35 |
| | R_B-31-2-120 | 120 | 8034300 | – | 8036400 | 0067 | 5,0 | AG 1¼" | 286 | 123/68 | 293 | 15,50 |
| | R_B-31-2-130 | 130 | 8034400 | – | 8036500 | 0067 | 5,4 | AG 1¼" | 286 | 123/68 | 316 | 16,65 |
| | R_B-31-2-140 | 140 | 8034500 | – | 8036600 | 0067 | 5,8 | AG 1¼" | 286 | 123/68 | 339 | 17,77 |
| | R_B-34-2-10 | 10 | – | – | 8036800 | 0067 | 0,3 | AG ¾" | 471 | 81/42 | 32 | 2,40 |
| | R_B-34-2-20 | 20 | – | – | 8036900 | 0067 | 0,6 | AG ¾" | 471 | 81/42 | 55 | 3,51 |
| | R_B-34-2-30 | 30 | – | – | 8037000 | 0067 | 1,1 | AG ¾" | 471 | 81/42 | 78 | 4,66 |
| | R_B-34-2-40 | 40 | – | – | 8037100 | 0067 | 1,6 | AG ¾" | 471 | 81/42 | 101 | 5,82 |
| | R_B-34-2-50 | 50 | – | – | 8037200 | 0067 | 2,1 | AG ¾" | 471 | 81/42 | 124 | 6,98 |
| | R_B-34-2-60 | 60 | – | – | 8037300 | 0067 | 2,6 | AG ¾" | 471 | 81/42 | 147 | 8,14 |
| | R_B-60-2-10 | 10 | 8040800 | 8043800 | 8042300 | 0067 | 1,2 | AG 1¼" | 538 | 123/68 | 32 | 4,80 |
| | R_B-60-2-20 | 20 | 8040900 | 8043900 | 8042400 | 0067 | 2,0 | AG 1¼" | 538 | 123/68 | 56 | 7,00 |
| | R_B-60-2-30 | 30 | 8041000 | 8044000 | 8042500 | 0067 | 2,8 | AG 1¼" | 538 | 123/68 | 80 | 9,20 |
| | R_B-60-2-40 | 40 | 8041100 | 8044100 | 8042600 | 0067 | 3,6 | AG 1¼" | 538 | 123/68 | 104 | 11,36 |
| | R_B-60-2-50 | 50 | 8041200 | 8044200 | 8042700 | 0067 | 4,4 | AG 1¼" | 538 | 123/68 | 128 | 13,55 |
| | R_B-60-2-60 | 60 | 8041300 | 8044300 | 8042800 | 0067 | 5,4 | AG 1¼" | 538 | 123/68 | 151 | 15,74 |
| | R_B-60-2-70 | 70 | 8041400 | 8044400 | 8042900 | 0067 | 6,2 | AG 1¼" | 538 | 123/68 | 175 | 17,92 |
| | R_B-60-2-80 | 80 | 8041500 | 8044500 | 8043000 | 0067 | 7,2 | AG 1¼" | 538 | 123/68 | 198 | 20,11 |
| | R_B-60-2-90 | 90 | 8041600 | 8044600 | 8043100 | 0067 | 8,0 | AG 1¼" | 538 | 123/68 | 222 | 22,29 |
| | R_B-60-2-100 | 100 | 8041700 | 8044700 | 8043200 | 0067 | 9,0 | AG 1¼" | 538 | 123/68 | 245 | 24,48 |
| | R_B-60-2-110 | 110 | 8041800 | 8044800 | 8043300 | 0067 | 10,0 | AG 1¼" | 538 | 123/68 | 268 | 26,66 |
| | R_B-60-2-120 | 120 | 8041900 | 8044900 | 8043400 | 0067 | 11,0 | AG 1¼" | 538 | 123/68 | 292 | 27,60 |
| | R_B-60-2-130 | 130 | 8042000 | 8045000 | 8043500 | 0067 | 12,0 | AG 1¼" | 538 | 123/68 | 316 | 29,80 |
| | R_B-60-2-140 | 140 | 8042100 | 8045100 | 8043600 | 0067 | 13,0 | AG 1¼" | 538 | 123/68 | 340 | 32,00 |
| | R_B-60-2-150 | 150 | 8042200 | 8045200 | 8043700 | 0067 | 13,8 | AG 1¼" | 538 | 123/68 | 364 | 34,20 |

# Longtherm brazed two-way

CE

| | Type | Number of plates | Art. No. | | | DG | Overall water content | Connection c | Height h/h5 | Width w/w3 | Depth D | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RHB | RLB | RMB | | [l] | | [mm] | [mm] | [mm] | [kg] |
| 25 bar 230 °C | R_B-110-2-30 | 30 | 8045700 | – | – | 0067 | 7,2 | AG 2" | 620 | 191/91 | 90 | 20,90 |
| | R_B-110-2-40 | 40 | 8045800 | – | – | 0067 | 9,6 | AG 2" | 620 | 191/91 | 116 | 25,00 |
| | R_B-110-2-50 | 50 | 8045900 | – | – | 0067 | 12,0 | AG 2" | 620 | 191/91 | 142 | 29,10 |
| | R_B-110-2-60 | 60 | 8046000 | – | – | 0067 | 14,4 | AG 2" | 620 | 191/91 | 166 | 33,20 |
| | R_B-110-2-70 | 70 | 8046100 | – | – | 0067 | 16,8 | AG 2" | 620 | 191/91 | 192 | 37,30 |
| | R_B-110-2-80 | 80 | 8046200 | – | – | 0067 | 19,2 | AG 2" | 620 | 191/91 | 218 | 41,07 |
| | R_B-110-2-90 | 90 | 8046300 | – | – | 0067 | 21,6 | AG 2" | 620 | 191/91 | 244 | 45,16 |
| | R_B-110-2-100 | 100 | 8046400 | – | – | 0067 | 24,0 | AG 2" | 620 | 191/91 | 270 | 49,24 |
| | R_B-110-2-110 | 110 | 8046500 | – | – | 0067 | 26,4 | AG 2" | 620 | 191/91 | 296 | 53,32 |
| | R_B-110-2-120 | 120 | 8046600 | – | – | 0067 | 28,8 | AG 2" | 620 | 191/91 | 322 | 57,41 |
| | R_B-110-2-130 | 130 | 8046700 | – | – | 0067 | 31,2 | AG 2" | 620 | 191/91 | 348 | 61,49 |
| | R_B-110-2-140 | 140 | 8046800 | – | – | 0067 | 33,6 | AG 2" | 620 | 191/91 | 374 | 65,57 |
| | R_B-110-2-150 | 150 | 8056900 | – | – | 0067 | 73,6 | AG 2" | 620 | 191/91 | 400 | 69,65 |
| | R_B-110-2-160 | 160 | 8046900 | – | – | 0067 | 38,4 | AG 2" | 620 | 191/91 | 426 | 73,63 |
| | R_B-110-2-170 | 170 | 8047000 | – | – | 0067 | 40,8 | AG 2" | 620 | 191/91 | 452 | 77,77 |
| | R_B-110-2-180 | 180 | 8047100 | – | – | 0067 | 43,6 | AG 2" | 620 | 191/91 | 478 | 81,86 |
| | R_B-110-2-190 | 190 | 8047200 | – | – | 0067 | 46,0 | AG 2" | 620 | 191/91 | 504 | 85,94 |
| | R_B-110-2-30 | 30 | – | 8048700 | 8047300 | 0067 | 4,8 | AG 2½" | 466 | 258/170 | 84 | 17,90 |
| | R_B-110-2-40 | 40 | – | 8048800 | 8047400 | 0067 | 6,4 | AG 2½" | 466 | 258/170 | 108 | 23,50 |
| | R_B-110-2-50 | 50 | – | 8048900 | 8047500 | 0067 | 8,0 | AG 2½" | 466 | 258/170 | 132 | 29,12 |
| | R_B-110-2-60 | 60 | – | 8049000 | 8047600 | 0067 | 9,6 | AG 2½" | 466 | 258/170 | 156 | 33,19 |
| | R_B-110-2-70 | 70 | – | 8049100 | 8047700 | 0067 | 11,2 | AG 2½" | 466 | 258/170 | 180 | 37,27 |
| | R_B-110-2-80 | 80 | – | 8049200 | 8047800 | 0067 | 12,8 | AG 2½" | 466 | 258/170 | 204 | 41,35 |
| | R_B-110-2-90 | 90 | – | 8049300 | 8047900 | 0067 | 14,4 | AG 2½" | 466 | 258/170 | 228 | 45,43 |
| | R_B-110-2-100 | 100 | – | 8049400 | 8048000 | 0067 | 16,0 | AG 2½" | 466 | 258/170 | 252 | 49,51 |
| | R_B-110-2-110 | 110 | – | 8049500 | 8048100 | 0067 | 17,6 | AG 2½" | 466 | 258/170 | 276 | 54,85 |
| | R_B-110-2-120 | 120 | – | 8049600 | 8048200 | 0067 | 19,2 | AG 2½" | 466 | 258/170 | 300 | 58,93 |
| | R_B-110-2-130 | 130 | – | 8049700 | 8048300 | 0067 | 20,8 | AG 2½" | 466 | 258/170 | 324 | 63,10 |
| | R_B-110-2-140 | 140 | – | 8049800 | 8048400 | 0067 | 22,4 | AG 2½" | 466 | 258/170 | 348 | 67,09 |
| | R_B-110-2-150 | 150 | – | 8049900 | 8048500 | 0067 | 24,0 | AG 2½" | 466 | 258/170 | 372 | 71,20 |
| | R_B-110-2-160 | 160 | – | 8050000 | 8048600 | 0067 | 25,8 | AG 2½" | 466 | 258/170 | 396 | 75,25 |
| | R_B-235-2-30 | 30 | – | 8054300 | 8051500 | 0067 | 11,4 | DN 80/PN 40 | 788 | 310/170 | 85 | 65,30 |
| | R_B-235-2-40 | 40 | – | 8054400 | 8051800 | 0067 | 15,4 | DN 80/PN 40 | 788 | 310/170 | 110 | 73,60 |
| | R_B-235-2-50 | 50 | – | 8054500 | 8051900 | 0067 | 19,4 | DN 80/PN 40 | 788 | 310/170 | 134 | 81,90 |
| | R_B-235-2-60 | 60 | – | 8054600 | 8052000 | 0067 | 23,4 | DN 80/PN 40 | 788 | 310/170 | 159 | 90,20 |
| | R_B-235-2-70 | 70 | – | 8054700 | 8052100 | 0067 | 27,4 | DN 80/PN 40 | 788 | 310/170 | 183 | 98,50 |
| | R_B-235-2-80 | 80 | – | 8054800 | 8052200 | 0067 | 31,4 | DN 80/PN 40 | 788 | 310/170 | 208 | 107,00 |
| | R_B-235-2-90 | 90 | – | 8054900 | 8052300 | 0067 | 35,4 | DN 80/PN 40 | 788 | 310/170 | 232 | 114,55 |
| | R_B-235-2-100 | 100 | – | 8055000 | 8052400 | 0067 | 39,4 | DN 80/PN 40 | 788 | 310/170 | 263 | 122,83 |
| | R_B-235-2-110 | 110 | – | 8055100 | 8052500 | 0067 | 43,4 | DN 80/PN 40 | 788 | 310/170 | 281 | 131,11 |
| | R_B-235-2-120 | 120 | – | 8055200 | 8052600 | 0067 | 47,4 | DN 80/PN 40 | 788 | 310/170 | 306 | 139,39 |
| | R_B-235-2-130 | 130 | – | 8055300 | 8052700 | 0067 | 51,4 | DN 80/PN 40 | 788 | 310/170 | 330 | 147,67 |
| | R_B-235-2-140 | 140 | – | 8055400 | 8052800 | 0067 | 55,4 | DN 80/PN 40 | 788 | 310/170 | 355 | 155,67 |
| | R_B-235-2-150 | 150 | – | 8055500 | 8052900 | 0067 | 59,2 | DN 80/PN 40 | 788 | 310/170 | 379 | 164,23 |
| | R_B-235-2-160 | 160 | – | 8055600 | 8053000 | 0067 | 63,2 | DN 80/PN 40 | 788 | 310/170 | 404 | 172,51 |
| | R_B-235-2-170 | 170 | – | 8055700 | 8053100 | 0067 | 67,2 | DN 80/PN 40 | 788 | 310/170 | 428 | 180,79 |
| | R_B-235-2-180 | 180 | – | 8055800 | 8053200 | 0067 | 71,2 | DN 80/PN 40 | 788 | 310/170 | 453 | 189,07 |
| | R_B-235-2-190 | 190 | – | 8055900 | 8053300 | 0067 | 75,2 | DN 80/PN 40 | 788 | 310/170 | 477 | 197,35 |
| | R_B-235-2-200 | 200 | – | 8056000 | 8053400 | 0067 | 79,2 | DN 80/PN 40 | 788 | 310/170 | 502 | 205,63 |
| | R_B-235-2-210 | 210 | – | 8056100 | 8053500 | 0067 | 83,2 | DN 80/PN 40 | 788 | 310/170 | 526 | 213,90 |
| | R_B-235-2-220 | 220 | – | 8056200 | 8053600 | 0067 | 87,2 | DN 80/PN 40 | 788 | 310/170 | 551 | 222,19 |
| | R_B-235-2-230 | 230 | – | 8056300 | 8053700 | 0067 | 91,2 | DN 80/PN 40 | 788 | 310/170 | 575 | 230,50 |
| | R_B-235-2-240 | 240 | – | 8056400 | 8053800 | 0067 | 95,2 | DN 80/PN 40 | 788 | 310/170 | 600 | 238,75 |
| | R_B-235-2-250 | 250 | – | 8056500 | 8053900 | 0067 | 99,2 | DN 80/PN 40 | 788 | 310/170 | 624 | 247,20 |
| | R_B-235-2-260 | 260 | – | 8056600 | 8054000 | 0067 | 103,2 | DN 80/PN 40 | 788 | 310/170 | 649 | 255,50 |
| | R_B-235-2-270 | 270 | – | 8056700 | 8054100 | 0067 | 107,2 | DN 80/PN 40 | 788 | 310/170 | 673 | 263,59 |
| | R_B-235-2-280 | 280 | – | 8056800 | 8054200 | 0067 | 111,2 | DN 80/PN 40 | 788 | 310/170 | 698 | 271,87 |

# Longterm gasketed — quick selection

| Output | System separation | | Process heating | | District heating | | Cold Water | | Swimming pool | |
|---|---|---|---|---|---|---|---|---|---|---|
| primary | 80 °C | 60 °C | 90 °C | 80 °C | 110 °C | 55 °C | 14 °C | 8 °C | 40 °C | 25 °C |
| secondary | 50 °C | 70 °C | 77 °C | 87 °C | 50 °C | 70 °C | 6 °C | 12 °C | 15 °C | 25 °C |
| log. temperature difference* | 10 K | | 3 K | | 16,8 K | | 2 K | | 12,3 K | |
| water / glycol | water / water | | water / water | | water / water | | water / 34 % glycol | | 38 % glycol / water | |
| max. pressure loss | 20 kPa | | 35 kPa | | 25 kPa | | 40 kPa | | 25 kPa | |
| Thermal output [kW] | Heat exchanger type (Art.- No.) | | | | | | | | | |
| 15 | **RHG-04-10** (8026400) | | **RHG-08-10** (8027200) | | **RHG-04-10** (8026400) | | **RHG-08-30** (8027400) | | **RHG-04-10** (8026400) | |
| 25 | **RHG-04-20** (8026500) | | **RHG-08-20** (8027300) | | **RHG-04-10** (8026400) | | **RHG-08-50** (8027600) | | **RHG-04-20** (8026500) | |
| 50 | **RHG-04-30** (8026600) | | **RHG-08-30** (8027400) | | **RHG-04-20** (8026500) | | **RHG-14-55** (8111900) | | **RHG-04-20** (8026500) | |
| 75 | **RHG-04-30** (8026600) | | **RHG-08-40** (8027500) | | **RHG-04-20** (8026500) | | **RHG-14-75** (8112100) | | **RHG-04-40** (8026700) | |
| 100 | **RHG-04-40** (8026700) | | **RHG-08-60** (8027700) | | **RHG-04-30** (8026600) | | **RHG-20-55** (8112300) | | **RHG-04-60** (8026900) | |
| 125 | **RHG-04-50** (8026800) | | **RHG-14-35** (8111700) | | **RHG-04-30** (8026600) | | **RHG-20-75** (8112500) | | **RHG-07-30** (8028200) | |
| 150 | **RHG-04-60** (8026900) | | **RHG-14-45** (8111800) | | **RHG-04-40** (8026700) | | **RHG-20-85** (8112600) | | **RHG-07-40** (8028300) | |
| 175 | **RHG-04-70** (8027000) | | **RHG-14-45** (8111800) | | **RHG-04-40** (8026700) | | **RHG-19-90** (8113000) | | **RHG-07-40** (8028300) | |
| 200 | **RMG-14-25** (8028800) | | **RHG-14-55** (8111900) | | **RHG-04-60** (8026900) | | **RHG-19-110** (8113200) | | **RHG-07-50** (8028400) | |
| 225 | **RMG-14-35** (8111100) | | **RHG-14-55** (8111900) | | **RHG-07-40** (8028300) | | **RHG-19-120** (8113300) | | **RHG-07-50** (8028400) | |
| 250 | **RMG-14-35** (8111100) | | **RHG-14-65** (8112000) | | **RHG-07-40** (8028300) | | **RHG-19-130** (8113400) | | **RHG-07-60** (8028500) | |
| 275 | **RMG-14-35** (8111100) | | **RHG-14-75** (8112100) | | **RHG-07-40** (8028300) | | **RHG-19-140** (8113500) | | **RHG-07-60** (8028500) | |
| 300 | **RMG-14-35** (8111100) | | **RHG-14-75** (8112100) | | **RHG-07-50** (8028400) | | **RMG-51-65** (8115200) | | **RHG-07-70** (8028600) | |
| 325 | **RMG-14-45** (8111200) | | **RHG-14-85** (8112200) | | **RHG-07-50** (8028400) | | **RMG-51-70** (8115300) | | **RHG-07-80** (8028700) | |
| 350 | **RMG-14-45** (8111200) | | **RHG-21-50** (8116700) | | **RHG-07-50** (8028400) | | **RMG-51-75** (8115400) | | **RMG-19-50** (8029500) | |
| 375 | **RMG-14-45** (8111200) | | **RHG-21-50** (8116700) | | **RHG-07-60** (8028500) | | **RMG-51-80** (8115500) | | **RMG-19-60** (8029600) | |
| 400 | **RMG-14-45** (8111200) | | **RHG-21-55** (8116800) | | **RHG-07-60** (8028500) | | **RMG-51-85** (8115600) | | **RMG-19-60** (8029600) | |
| 425 | **RMG-14-55** (8111300) | | **RHG-21-55** (8116800) | | **RHG-07-60** (8028500) | | **RMG-51-90** (8115700) | | **RMG-19-70** (8113600) | |
| 450 | **RMG-14-55** (8111300) | | **RHG-21-60** (8116900) | | **RHG-07-70** (8028600) | | **RMG-51-100** (8115800) | | **RMG-19-70** (8113600) | |
| 475 | **RMG-14-55** (8111300) | | **RHG-21-65** (8117000) | | **RHG-07-70** (8028600) | | **RMG-51-100** (8115800) | | **RMG-19-80** (8113700) | |
| 500 | **RMG-14-55** (8111300) | | **RHG-21-65** (8117000) | | **RHG-07-70** (8028600) | | **RMG-51-110** (8115900) | | **RMG-21-50** (8114400) | |
| 550 | **RMG-14-65** (8111400) | | **RHG-21-70** (8117100) | | **RHG-07-80** (8028700) | | **RMG-51-120** (8116000) | | **RMG-21-50** (8114400) | |
| 600 | **RMG-14-65** (8111400) | | **RHG-21-80** (8117200) | | **RMG-14-55** (8111300) | | **RMG-51-140** (8116100) | | **RMG-21-55** (8114500) | |
| 650 | **RMG-14-75** (8111500) | | **RHG-21-90** (8117300) | | **RMG-14-65** (8111400) | | **RMG-51-150** (8116200) | | **RMG-21-60** (8114600) | |
| 700 | **RMG-14-85** (8111600) | | **RHG-21-90** (8117300) | | **RMG-19-50** (8029500) | | **RMG-51-180** (8116400) | | **RMG-21-65** (8114700) | |
| 750 | **RMG-19-70** (8113600) | | **RHG-21-100** (8025700) | | **RMG-19-60** (8029600) | | **RMG-51-180** (8116400) | | **RMG-21-70** (8114800) | |
| 800 | **RMG-19-70** (8113600) | | **RHG-21-110** (8025800) | | **RMG-19-60** (8029600) | | **RMG-51-200** (8116500) | | **RMG-21-80** (8114900) | |
| 850 | **RMG-19-80** (8113700) | | **RHG-21-110** (8025800) | | **RMG-19-70** (8113600) | | | | **RMG-21-80** (8114900) | |
| 900 | **RMG-19-90** (8113800) | | **RHG-21-120** (8025900) | | **RMG-19-70** (8113600) | | | | **RMG-21-90** (8115000) | |
| 950 | **RMG-21-60** (8114600) | | **RHG-21-120** (8025900) | | **RMG-19-80** (8113700) | | | | **RMG-21-90** (8115000) | |
| 1000 | **RMG-21-65** (8114700) | | **RHG-21-130** (8026000) | | **RMG-19-80** (8113700) | | | | **RMG-21-100** (8120000) | |
| 1100 | **RMG-21-70** (8114800) | | **RHG-21-150** (8026200) | | **RMG-21-50** (8114400) | | | | **RMG-21-110** (8120100) | |
| 1200 | **RMG-21-80** (8114900) | | **RHG-21-160** (8026300) | | **RMG-21-50** (8114400) | | | | **RMG-21-130** (8120300) | |
| 1300 | **RMG-21-90** (8115000) | | **RMG-51-160** (8116300) | | **RMG-21-60** (8114600) | | | | **RMG-21-150** (8120500) | |
| 1400 | **RMG-21-90** (8115000) | | **RMG-51-180** (8116400) | | **RMG-21-60** (8114600) | | | | **RHB-31-100** (8012600) | |
| 1500 | **RMG-21-100** (8120000) | | **RMG-51-200** (8116500) | | **RMG-21-70** (8114800) | | | | **RMB-14-20** (8011200) | |
| 1600 | **RMG-21-100** (8120000) | | | | **RMG-21-70** (8114800) | | | | **RMB-14-10** (8011100) | |
| 1700 | **RMG-21-110** (8120100) | | | | **RMG-21-80** (8114900) | | | | **RMB-14-20** (8011200) | |
| 1800 | **RMG-21-110** (8120100) | | | | **RMG-21-80** (8114900) | | | | **RHB-31-90** (8012500) | |
| 1900 | **RMG-21-120** (8120200) | | | | **RMG-21-90** (8115000 | | | | **RHB-31-40** (8023800) | |
| 2000 | **RMG-21-130** (8120300) | | | | **RMG-21-100** (8120000) | | | | | |

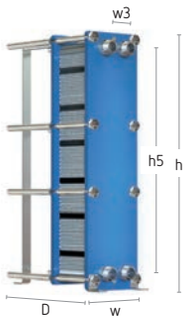
* If the logarithmic temperature differences and the medium remain identical, then the same heat exchanger can be selected even if the temperature profiles change. However, the maximum pressure loss can vary and must be checked accordingly.

Our configuration software helps you choose and calculate your product solution

Reflex Solutions **Pro**

**rsp.reflex.de/en**

# Longtherm gasketed




Longtherm R_G-04, -07, -08, -14, -20




Longtherm R_G-19, -21, -51

## Technical Features

- heat exchanger made of 0,5 mm stainless-steel plates (AISI 316L) with NBR seals
- flange connections, only for R_G-19, -21 and -51
- carbon steel flange and frame
- permissible operating overpressure for R_G-04 to -19: 16 bar
- permissible operating overpressure for R_G-21 to -51: 10 bar
- further seals and plate materials on request

# Longtherm gasketed

CE

| | Type | Number of plates | Art. No. | | | DG | Overall water content | Connection c | Height h/h5 | Width w/w3 | Depth D | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RHG | RLG | RMG | | [l] | | [mm] | [mm] | [mm] | [kg] |
| 16 bar 110 °C | R_G-04-10 | 10 | 8026400 | – | – | 0167 | 0,9 | AG 1¼" | 473/381 | 190/70 | 355 | 32,10 |
| | R_G-04-20 | 20 | 8026500 | – | – | 0167 | 1,9 | AG 1¼" | 473/381 | 190/70 | 355 | 34,70 |
| | R_G-04-30 | 30 | 8026600 | – | – | 0167 | 2,9 | AG 1¼" | 473/381 | 190/70 | 355 | 38,50 |
| | R_G-04-40 | 40 | 8026700 | – | – | 0167 | 3,9 | AG 1¼" | 473/381 | 190/70 | 505 | 42,80 |
| | R_G-04-50 | 50 | 8026800 | – | – | 0167 | 4,9 | AG 1¼" | 473/381 | 190/70 | 505 | 45,80 |
| | R_G-04-60 | 60 | 8026900 | – | – | 0167 | 5,9 | AG 1¼" | 473/381 | 190/70 | 505 | 48,90 |
| | R_G-04-70 | 70 | 8027000 | – | – | 0167 | 6,9 | AG 1¼" | 473/381 | 190/70 | 605 | 52,90 |
| | R_G-04-80 | 80 | 8027100 | – | – | 0167 | 7,9 | AG 1¼" | 473/381 | 190/70 | 605 | 55,90 |
| | R_G-07-10 | 10 | 8028000 | 8122400 | 8121600 | 0167 | 1,6 | AG 2" | 596/394 | 300/126 | 563 | 76,30 |
| | R_G-07-20 | 20 | 8028100 | 8122500 | 8121700 | 0167 | 3,4 | AG 2" | 596/394 | 300/126 | 563 | 81,10 |
| | R_G-07-30 | 30 | 8028200 | 8122600 | 8121800 | 0167 | 5,2 | AG 2" | 596/394 | 300/126 | 563 | 85,90 |
| | R_G-07-40 | 40 | 8028300 | 8122700 | 8121900 | 0167 | 7,0 | AG 2" | 596/394 | 300/126 | 763 | 95,00 |
| | R_G-07-50 | 50 | 8028400 | 8122800 | 8122000 | 0167 | 8,8 | AG 2" | 596/394 | 300/126 | 763 | 99,80 |
| | R_G-07-60 | 60 | 8028500 | 8122900 | 8122100 | 0167 | 10,5 | AG 2" | 596/394 | 300/126 | 763 | 104,50 |
| | R_G-07-70 | 70 | 8028600 | 8123000 | 8122200 | 0167 | 12,3 | AG 2" | 596/394 | 300/126 | 763 | 109,30 |
| | R_G-07-80 | 80 | 8028700 | 8123100 | 8122300 | 0167 | 14,0 | AG 2" | 596/394 | 300/126 | 963 | 118,40 |
| | R_G-08-10 | 10 | 8027200 | – | – | 0167 | 1,5 | AG 1¼" | 755/658 | 190/70 | 355 | 51,20 |
| | R_G-08-20 | 20 | 8027300 | – | – | 0167 | 3,2 | AG 1¼" | 755/658 | 190/70 | 355 | 55,40 |
| | R_G-08-30 | 30 | 8027400 | – | – | 0167 | 4,9 | AG 1¼" | 755/658 | 190/70 | 355 | 59,60 |
| | R_G-08-40 | 40 | 8027500 | – | – | 0167 | 6,6 | AG 1¼" | 755/658 | 190/70 | 505 | 65,20 |
| | R_G-08-50 | 50 | 8027600 | – | – | 0167 | 8,2 | AG 1¼" | 755/658 | 190/70 | 505 | 69,40 |
| | R_G-08-60 | 60 | 8027700 | – | – | 0167 | 10,0 | AG 1¼" | 755/658 | 190/70 | 505 | 73,60 |
| | R_G-08-70 | 70 | 8027800 | – | – | 0167 | 11,8 | AG 1¼" | 755/658 | 190/70 | 605 | 79,60 |
| | R_G-08-80 | 80 | 8027900 | – | – | 0167 | 13,4 | AG 1¼" | 755/658 | 190/70 | 605 | 83,20 |
| | R_G-14-25 | 25 | 8028900 | 8123200 | 8028800 | 0167 | 7,7 | AG 2" | 896/694 | 300/126 | 563 | 128,60 |
| | R_G-14-35 | 35 | 8111700 | 8123300 | 8111100 | 0167 | 10,8 | AG 2" | 896/694 | 300/126 | 563 | 136,00 |
| | R_G-14-45 | 45 | 8111800 | 8123400 | 8111200 | 0167 | 14,0 | AG 2" | 896/694 | 300/126 | 763 | 149,00 |
| | R_G-14-55 | 55 | 8111900 | 8123500 | 8111300 | 0167 | 17,2 | AG 2" | 896/694 | 300/126 | 763 | 156,00 |
| | R_G-14-65 | 65 | 8112000 | 8123600 | 8111400 | 0167 | 20,4 | AG 2" | 896/694 | 300/126 | 763 | 164,00 |
| | R_G-14-75 | 75 | 8112100 | 8123700 | 8111500 | 0167 | 23,6 | AG 2" | 896/694 | 300/126 | 763 | 171,00 |
| | R_G-14-85 | 85 | 8112200 | 8123800 | 8111600 | 0167 | 26,8 | AG 2" | 896/694 | 300/126 | 963 | 184,00 |
| | R_G-19-40 | 40 | 8029000 | 8124800 | 8029400 | 0167 | 16,5 | DN 65/PN 16 | 946/700 | 395/192 | 558 | 246,70 |
| | R_G-19-50 | 50 | 8029100 | 8124900 | 8029500 | 0167 | 20,6 | DN 65/PN 16 | 946/700 | 395/192 | 558 | 257,00 |
| | R_G-19-60 | 60 | 8029200 | 8125000 | 8029600 | 0167 | 24,8 | DN 65/PN 16 | 946/700 | 395/192 | 758 | 273,60 |
| | R_G-19-70 | 70 | 8112800 | 8125100 | 8113600 | 0167 | 29,3 | DN 65/PN 16 | 946/700 | 395/192 | 758 | 284,00 |
| | R_G-19-80 | 80 | 8112900 | 8125200 | 8113700 | 0167 | 33,5 | DN 65/PN 16 | 946/700 | 395/192 | 758 | 294,00 |
| | R_G-19-90 | 90 | 8113000 | 8125300 | 8113800 | 0167 | 37,7 | DN 65/PN 16 | 946/700 | 395/192 | 958 | 305,00 |
| | R_G-19-100 | 100 | 8113100 | 8125400 | 8113900 | 0167 | 42,0 | DN 65/PN 16 | 946/700 | 395/192 | 958 | 315,00 |
| | R_G-19-110 | 110 | 8113200 | 8125500 | 8114000 | 0167 | 46,2 | DN 65/PN 16 | 946/700 | 395/192 | 1.158 | 338,00 |
| | R_G-19-120 | 120 | 8113300 | 8125600 | 8114100 | 0167 | 50,5 | DN 65/PN 16 | 946/700 | 395/192 | 1.158 | 348,00 |
| | R_G-19-130 | 130 | 8113400 | 8125700 | 8114200 | 0167 | 54,7 | DN 65/PN 16 | 946/700 | 395/192 | 1.158 | 358,00 |
| | R_G-19-140 | 140 | 8113500 | 8125800 | 8114300 | 0167 | 58,9 | DN 65/PN 16 | 946/700 | 395/192 | 1.158 | 369,00 |
| | R_G-19-150 | 150 | 8029300 | 8125900 | 8030000 | 0167 | 63,2 | DN 65/PN 16 | 946/700 | 395/192 | 1.158 | 378,90 |
| | R_G-19-160 | 160 | 8124300 | 8126000 | 8124700 | 0167 | 66,0 | DN 65/PN 16 | 946/700 | 395/192 | 1.158 | 439,60 |
| | R_G-20-55 | 55 | 8112300 | – | – | 0167 | 22,4 | AG 2" | 1096/894 | 300/126 | 763 | 193,00 |
| | R_G-20-65 | 65 | 8112400 | – | – | 0167 | 26,5 | AG 2" | 1096/894 | 300/126 | 763 | 203,00 |
| | R_G-20-75 | 75 | 8112500 | – | – | 0167 | 30,6 | AG 2" | 1096/894 | 300/126 | 763 | 212,00 |
| | R_G-20-85 | 85 | 8112600 | – | – | 0167 | 34,8 | AG 2" | 1096/894 | 300/126 | 963 | 228,00 |
| | R_G-20-95 | 95 | 8112700 | – | – | 0167 | 38,9 | AG 2" | 1096/894 | 300/126 | 963 | 238,00 |

# Longtherm gasketed

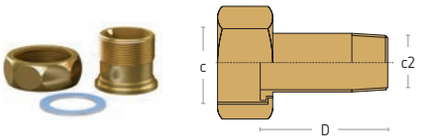
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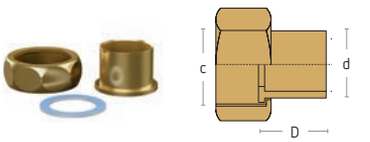
| | Type | Number of plates | Art. No. | | | DG | Overall water content | Connection c | Height h/h5 | Width w/w3 | Depth D | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | RHG | RLG | RMG | | [l] | | [mm] | [mm] | [mm] | [kg] |
| 10 bar 110 °C | R_G-21-50 | 50 | 8116700 | 8126500 | 8114400 | 0167 | 31,5 | DN 100/PN 10 | 1181/719 | 480/225 | 745 | 341,00 |
| | R_G-21-55 | 55 | 8116800 | 8129300 | 8114500 | 0167 | 34,7 | DN 100/PN 10 | 1181/719 | 480/225 | 745 | 348,00 |
| | R_G-21-60 | 60 | 8116900 | 8126600 | 8114600 | 0167 | 37,9 | DN 100/PN 10 | 1181/719 | 480/225 | 745 | 355,00 |
| | R_G-21-65 | 65 | 8117000 | 8129400 | 8114700 | 0167 | 41,2 | DN 100/PN 10 | 1181/719 | 480/225 | 745 | 362,00 |
| | R_G-21-70 | 70 | 8117100 | 8126700 | 8114800 | 0167 | 44,4 | DN 100/PN 10 | 1181/719 | 480/225 | 745 | 370,00 |
| | R_G-21-80 | 80 | 8117200 | 8126800 | 8114900 | 0167 | 50,8 | DN 100/PN 10 | 1181/719 | 480/225 | 1.145 | 405,00 |
| | R_G-21-90 | 90 | 8117300 | 8126900 | 8115000 | 0167 | 57,2 | DN 100/PN 10 | 1181/719 | 480/225 | 1.145 | 419,00 |
| | R_G-21-100 | 100 | 8025700 | 8127000 | 8120000 | 0167 | 63,6 | DN 100/PN 10 | 1181/719 | 480/225 | 1.145 | 472,50 |
| | R_G-21-110 | 110 | 8025800 | 8127100 | 8120100 | 0167 | 70,1 | DN 100/PN 10 | 1181/719 | 480/225 | 1.145 | 446,10 |
| | R_G-21-120 | 120 | 8025900 | 8127200 | 8120200 | 0167 | 76,6 | DN 100/PN 10 | 1181/719 | 480/225 | 1.145 | 459,70 |
| | R_G-21-130 | 130 | 8026000 | 8127300 | 8120300 | 0167 | 83,0 | DN 100/PN 10 | 1181/719 | 480/225 | 1.145 | 473,30 |
| | R_G-21-140 | 140 | 8026100 | 8127400 | 8120400 | 0167 | 89,4 | DN 100/PN 10 | 1181/719 | 480/225 | 1.145 | 486,90 |
| | R_G-21-150 | 150 | 8026200 | 8127500 | 8120500 | 0167 | 95,8 | DN 100/PN 10 | 1181/719 | 480/225 | 1.645 | 527,80 |
| | R_G-21-160 | 160 | 8026300 | 8127600 | 8025600 | 0167 | 102,2 | DN 100/PN 10 | 1181/719 | 480/225 | 1.645 | 541,40 |
| | R_G-21-170 | 170 | 8126100 | 8127700 | 8126300 | 0167 | 108,3 | DN 100/PN 10 | 1181/719 | 480/225 | 1.158 | 555,80 |
| | R_G-21-180 | 180 | 8126200 | 8127800 | 8126400 | 0167 | 114,7 | DN 100/PN 10 | 1181/719 | 480/225 | 1.158 | 570,20 |
| | R_G-51-60 | 60 | 8117400 | 8128500 | 8115100 | 0167 | 72,9 | DN 100/PN 10 | 1824/1365 | 480/225 | 745 | 570,00 |
| | R_G-51-65 | 65 | 8117500 | 8128600 | 8115200 | 0167 | 79,0 | DN 100/PN 10 | 1824/1365 | 480/225 | 745 | 582,00 |
| | R_G-51-70 | 70 | 8117600 | 8128700 | 8115300 | 0167 | 85,2 | DN 100/PN 10 | 1824/1365 | 480/225 | 745 | 594,00 |
| | R_G-51-75 | 75 | 8117700 | 8128800 | 8115400 | 0167 | 91,4 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 632,00 |
| | R_G-51-80 | 80 | 8117800 | 8128900 | 8115500 | 0167 | 97,6 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 644,00 |
| | R_G-51-85 | 85 | 8117900 | 8129000 | 8115600 | 0167 | 103,7 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 656,00 |
| | R_G-51-90 | 90 | 8118000 | 8129100 | 8115700 | 0167 | 109,9 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 668,00 |
| | R_G-51-100 | 100 | 8118100 | 8129200 | 8115800 | 0167 | 122,3 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 691,00 |
| | R_G-51-110 | 110 | 8118200 | 8129500 | 8115900 | 0167 | 134,6 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 715,00 |
| | R_G-51-120 | 120 | 8118300 | 8129600 | 8116000 | 0167 | 147,0 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 738,00 |
| | R_G-51-130 | 130 | – | 8129700 | – | 0167 | 159,4 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 762,00 |
| | R_G-51-140 | 140 | 8118400 | 8129800 | 8116100 | 0167 | 171,7 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.145 | 785,00 |
| | R_G-51-150 | 150 | 8118500 | 8129900 | 8116200 | 0167 | 184,0 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 839,00 |
| | R_G-51-160 | 160 | 8118600 | 8130000 | 8116300 | 0167 | 196,4 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 863,00 |
| | R_G-51-170 | 170 | 8127900 | 8130100 | 8128200 | 0167 | 207,9 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 917,00 |
| | R_G-51-180 | 180 | 8118700 | 8130200 | 8116400 | 0167 | 221,1 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 910,00 |
| | R_G-51-190 | 190 | 8128000 | 8130300 | 8128300 | 0167 | 232,4 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 1.025,00 |
| | R_G-51-200 | 200 | 8118800 | 8130400 | 8116500 | 0167 | 245,6 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 957,00 |
| | R_G-51-210 | 210 | 8128100 | 8130500 | 8128400 | 0167 | 256,8 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 1.133,00 |
| | R_G-51-220 | 220 | 8118900 | 8130600 | 8116600 | 0167 | 270,5 | DN 100/PN 10 | 1824/1365 | 480/225 | 1.645 | 1.004,00 |

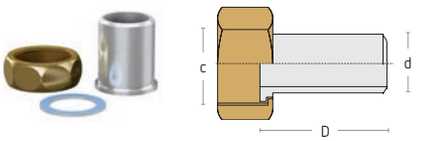
# Longtherm accessories

## Longtherm connection options

- flat-sealed threaded connections, including seal, system connection as male thread, soldered end, welded end
- from size RMB-235, the heat exchangers are fitted with special flanges
- consisting of 2 units, delivery only as complete set
- two sets are required per heat exchanger



# Longterm accessories

CE

| Type 1 | Type 2 | Type 3 | Type 4 | Art. No. | DG | Connection inlet | Connection outlet | Ø d [mm] | Depth D [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| With solder-on end – brass | | | | | | | | | | |
| RMB-14 | RMB-22 | RMB-34 | – | 6761100 | 0069 | G ¾" | – | 18 | 16 | 0,10 |
| R_B-31 | R_B-60 | R_G-04 | R_G-08 | 6761300 | 0069 | G 1¼" | – | 28 | 22 | 0,25 |
| With weld-on end, steel | | | | | | | | | | |
| RMB-14 | RMB-22 | RMB-34 | – | 6760100 | 0069 | G ¾" | – | 21 | 30 | 0,10 |
| R_B-31 | R_B-60 | R_G-04 | R_G-08 | 6760300 | 0069 | G 1¼" | – | 34 | 40 | 0,30 |
| RHB-110 | R_G-07 | R_G-14 | R_G-20 | 6760400 | 0069 | G 2" | – | 48 | 40 | 0,50 |
| RLB-110 | RMB-110 | – | – | 6760500 | 0069 | G 2½" | – | 60 | 50 | 1,00 |
| R_B-235 | – | – | – | 6770500 | 0069 | DN 80/PN 40 | – | 200 | 21 | 5,18 |
| With female thread – brass | | | | | | | | | | |
| RMB-14 | RMB-22 | RMB-34 | – | 6762100 | 0069 | G ¾" | R ½" | – | 36 | 0,10 |
| R_B-31 | R_B-60 | R_G-04 | R_G-08 | 6762300 | 0069 | G 1¼" | R 1" | – | 35 | 0,30 |
| RHB-110 | R_G-07 | R_G-14 | R_G-20 | 6762400 | 0069 | G 2" | R 1½" | – | 55 | 0,50 |
| RLB-110 | RMB-110 | – | – | 6762500 | 0069 | G 2½" | R 2" | – | 66 | 1,00 |

# Longtherm Accessories

CE

## Longtherm Protect EPP

- compatible with one- and two-way heat exchangers
- insulation material: EPP
- colour: black
- insulation strength: 25 mm
- fire protection class: EN 13501-1 class E
- thermal conductivity at 40 °C: 0,035 W / m × K




| Type | Art. No. | DG | RHB | RLB | RMB | Perm. operating temperature [°C] | Height h [mm] | Width w [mm] | Depth D [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| R_B-14-10 | 8141000 | 0069 | X | X | X | 110 | 82 | 135 | 257 | 0,06 |
| R_B-14-20 | 8141100 | 0069 | X | X | X | 110 | 105 | 135 | 257 | 0,07 |
| R_B-14-30 | 8141200 | 0069 | X | X | X | 110 | 128 | 135 | 257 | 0,08 |
| R_B-14-40 | 8141300 | 0069 | X | X | X | 110 | 151 | 135 | 257 | 0,10 |
| R_B-14-50 | 8141400 | 0069 | X | X | X | 110 | 174 | 135 | 257 | 0,11 |
| R_B-14-60 | 8141500 | 0069 | X | X | X | 110 | 197 | 135 | 257 | 0,12 |
| R_B-22-10 | 8141600 | 0069 | X | X | X | 110 | 82 | 135 | 353 | 0,08 |
| R_B-22-20 | 8141700 | 0069 | X | X | X | 110 | 105 | 135 | 353 | 0,10 |
| R_B-22-30 | 8141800 | 0069 | X | X | X | 110 | 128 | 135 | 353 | 0,11 |
| R_B-22-40 | 8141900 | 0069 | X | X | X | 110 | 151 | 135 | 353 | 0,13 |
| R_B-22-50 | 8142000 | 0069 | X | X | X | 110 | 174 | 135 | 353 | 0,14 |
| R_B-22-60 | 8142100 | 0069 | X | X | X | 110 | 197 | 135 | 353 | 0,16 |
| R_B-31-10 | 8142200 | 0069 | X | X | X | 110 | 84 | 177 | 344 | 0,10 |
| R_B-31-20 | 8142300 | 0069 | X | X | X | 110 | 107 | 177 | 344 | 0,11 |
| R_B-31-30 | 8142400 | 0069 | X | X | X | 110 | 131 | 177 | 344 | 0,13 |
| R_B-31-40 | 8142500 | 0069 | X | X | X | 110 | 154 | 177 | 344 | 0,15 |
| R_B-31-50 | 8142600 | 0069 | X | X | X | 110 | 178 | 177 | 344 | 0,16 |
| R_B-31-60 | 8142700 | 0069 | X | X | X | 110 | 201 | 177 | 344 | 0,18 |
| R_B-31-70 | 8142800 | 0069 | X | X | X | 110 | 225 | 177 | 344 | 0,20 |
| R_B-31-80 | 8142900 | 0069 | X | X | X | 110 | 248 | 177 | 344 | 0,21 |
| R_B-31-90 | 8143000 | 0069 | X | X | X | 110 | 272 | 177 | 344 | 0,23 |
| R_B-31-100 | 8143100 | 0069 | X | X | X | 110 | 295 | 177 | 344 | 0,25 |
| R_B-31-110 | 8143200 | 0069 | X | X | X | 110 | 319 | 177 | 344 | 0,26 |
| R_B-31-120 | 8143300 | 0069 | X | X | X | 110 | 342 | 177 | 344 | 0,28 |
| R_B-31-130 | 8143400 | 0069 | X | X | X | 110 | 366 | 177 | 344 | 0,30 |
| R_B-31-140 | 8143500 | 0069 | X | X | X | 110 | 389 | 177 | 344 | 0,31 |
| R_B-31-150 | 8143600 | 0069 | X | X | X | 110 | 413 | 177 | 344 | 0,33 |
| R_B-34-10 | 8143700 | 0069 | X | X | X | 110 | 82 | 135 | 525 | 0,13 |
| R_B-34-20 | 8143800 | 0069 | X | X | X | 110 | 105 | 135 | 525 | 0,15 |
| R_B-34-30 | 8143900 | 0069 | X | X | X | 110 | 128 | 135 | 525 | 0,17 |
| R_B-34-40 | 8144000 | 0069 | X | X | X | 110 | 151 | 135 | 525 | 0,19 |
| R_B-34-50 | 8144100 | 0069 | X | X | X | 110 | 174 | 135 | 525 | 0,21 |

# Longtherm Accessories

CE

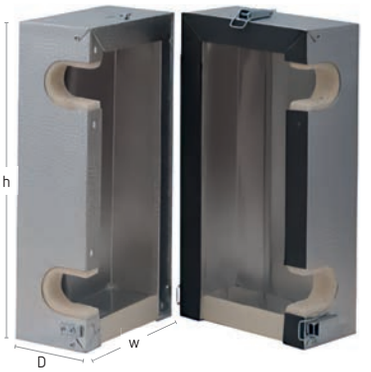
| Type | Art. No. | DG | RHB | RLB | RMB | Perm. operating temperature [°C] | Height h [mm] | Width w [mm] | Depth D [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| R_B-34-60 | 8144200 | 0069 | X | X | X | 110 | 197 | 135 | 525 | 0,23 |
| R_B-60-10 | 8144300 | 0069 | X | X | X | 110 | 83 | 177 | 592 | 0,17 |
| R_B-60-20 | 8144400 | 0069 | X | X | X | 110 | 107 | 177 | 592 | 0,20 |
| R_B-60-30 | 8144500 | 0069 | X | X | X | 110 | 130 | 177 | 592 | 0,22 |
| R_B-60-40 | 8144600 | 0069 | X | X | X | 110 | 154 | 177 | 592 | 0,25 |
| R_B-60-50 | 8144700 | 0069 | X | X | X | 110 | 177 | 177 | 592 | 0,27 |
| R_B-60-60 | 8144800 | 0069 | X | X | X | 110 | 201 | 177 | 592 | 0,30 |
| R_B-60-70 | 8144900 | 0069 | X | X | X | 110 | 224 | 177 | 592 | 0,32 |
| R_B-60-80 | 8145000 | 0069 | X | X | X | 110 | 248 | 177 | 592 | 0,35 |
| R_B-60-90 | 8145100 | 0069 | X | X | X | 110 | 271 | 177 | 592 | 0,37 |
| R_B-60-100 | 8145200 | 0069 | X | X | X | 110 | 295 | 177 | 592 | 0,40 |
| R_B-60-110 | 8145300 | 0069 | X | X | X | 110 | 318 | 177 | 592 | 0,42 |
| R_B-60-120 | 8145400 | 0069 | X | X | X | 110 | 342 | 177 | 592 | 0,45 |
| R_B-60-130 | 8145500 | 0069 | X | X | X | 110 | 365 | 177 | 592 | 0,47 |
| R_B-60-140 | 8145600 | 0069 | X | X | X | 110 | 389 | 177 | 592 | 0,50 |
| R_B-60-150 | 8145700 | 0069 | X | X | X | 110 | 412 | 177 | 592 | 0,52 |
| R_B-110-30 | 8145800 | 0069 | – | X | X | 110 | 184 | 322 | 530 | 0,40 |
| R_B-110-40 | 8145900 | 0069 | – | X | X | 110 | 208 | 322 | 530 | 0,43 |
| R_B-110-50 | 8146000 | 0069 | – | X | X | 110 | 232 | 322 | 530 | 0,46 |
| R_B-110-60 | 8146100 | 0069 | – | X | X | 110 | 256 | 322 | 530 | 0,49 |
| R_B-110-70 | 8146200 | 0069 | – | X | X | 110 | 280 | 322 | 530 | 0,52 |
| R_B-110-80 | 8146300 | 0069 | – | X | X | 110 | 304 | 322 | 530 | 0,55 |
| R_B-110-90 | 8146400 | 0069 | – | X | X | 110 | 328 | 322 | 530 | 0,58 |
| R_B-110-100 | 8146500 | 0069 | – | X | X | 110 | 352 | 322 | 530 | 0,61 |
| R_B-110-110 | 8146600 | 0069 | – | X | X | 110 | 376 | 322 | 530 | 0,64 |
| R_B-110-120 | 8146700 | 0069 | – | X | X | 110 | 400 | 322 | 530 | 0,67 |
| R_B-110-130 | 8146800 | 0069 | – | X | X | 110 | 424 | 322 | 530 | 0,70 |
| R_B-110-140 | 8146900 | 0069 | – | X | X | 110 | 448 | 322 | 530 | 0,73 |
| R_B-110-150 | 8147000 | 0069 | – | X | X | 110 | 472 | 322 | 530 | 0,76 |
| R_B-110-160 | 8147100 | 0069 | – | X | X | 110 | 496 | 322 | 530 | 0,79 |
| RHB-110-30 | 8147200 | 0069 | X | – | – | 110 | 178 | 244 | 673 | 0,40 |
| RHB-110-40 | 8147300 | 0069 | X | – | – | 110 | 204 | 244 | 673 | 0,44 |
| RHB-110-50 | 8147400 | 0069 | X | – | – | 110 | 230 | 244 | 673 | 0,47 |
| RHB-110-60 | 8147500 | 0069 | X | – | – | 110 | 256 | 244 | 673 | 0,50 |
| RHB-110-70 | 8147600 | 0069 | X | – | – | 110 | 282 | 244 | 673 | 0,54 |
| RHB-110-80 | 8147700 | 0069 | X | – | – | 110 | 308 | 244 | 673 | 0,57 |
| RHB-110-90 | 8147800 | 0069 | X | – | – | 110 | 334 | 244 | 673 | 0,61 |
| RHB-110-100 | 8147900 | 0069 | X | – | – | 110 | 360 | 244 | 673 | 0,64 |
| RHB-110-110 | 8148000 | 0069 | X | – | – | 110 | 386 | 244 | 673 | 0,67 |
| RHB-110-120 | 8148100 | 0069 | X | – | – | 110 | 412 | 244 | 673 | 0,71 |
| RHB-110-130 | 8148200 | 0069 | X | – | – | 110 | 438 | 244 | 673 | 0,74 |
| RHB-110-140 | 8148300 | 0069 | X | – | – | 110 | 464 | 244 | 673 | 0,78 |
| RHB-110-150 | 8148400 | 0069 | X | – | – | 110 | 490 | 244 | 673 | 0,81 |
| RHB-110-160 | 8148500 | 0069 | X | – | – | 110 | 516 | 244 | 673 | 0,85 |
| RHB-110-170 | 8148600 | 0069 | X | – | – | 110 | 542 | 244 | 673 | 0,88 |
| RHB-110-180 | 8148700 | 0069 | X | – | – | 110 | 568 | 244 | 673 | 0,91 |
| RHB-110-190 | 8148800 | 0069 | X | – | – | 110 | 594 | 244 | 673 | 0,95 |

# Longtherm Accessories

CE

## Longtherm Protect Heating

- Longtherm heat insulation made of 25 mm rigid polyurethane foam for minimum heat loss up to 110 plates
- Longtherm heat insulation made of 32 mm rigid polyurethane foam for minimum heat loss above 110 plates
- made of two easily assembled semispheres for increased impact resistance, up to 110 plates, clad in 2 mm PS material
- insulation clad in aluminium above 110 plates
- max. operating temperature 110 °C up to 110 plates and above 135 °C
- diffusion-tight insulation on site




| Type | Art. No. | DG | RHB | RLB | RMB | Perm. operating temperature [°C] | Height h [mm] | Width w [mm] | Depth D [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| R_B-235-30 | 8309000 | 0069 | – | X | X | 110 | 864 | 376 | 208 | 4,65 |
| R_B-235-40 | 8309100 | 0069 | – | X | X | 110 | 864 | 376 | 233 | 5,00 |
| R_B-235-50 | 8309200 | 0069 | – | X | X | 110 | 864 | 376 | 258 | 5,40 |
| R_B-235-60 | 8309300 | 0069 | – | X | X | 110 | 864 | 376 | 283 | 5,75 |
| R_B-235-70 | 8301600 | 0069 | – | X | X | 110 | 864 | 376 | 308 | 6,15 |
| R_B-235-80 | 8301700 | 0069 | – | X | X | 110 | 864 | 376 | 333 | 6,45 |
| R_B-235-90 | 8301800 | 0069 | – | X | X | 110 | 864 | 376 | 358 | 6,80 |
| R_B-235-100 | 8301900 | 0069 | – | X | X | 110 | 864 | 376 | 383 | 7,10 |
| R_B-235-110 | 8302000 | 0069 | – | X | X | 110 | 864 | 376 | 408 | 7,50 |
| R_B-235-120 | 8302100 | 0069 | – | X | X | 135 | 864 | 376 | 433 | 7,80 |
| R_B-235-130 | 8302200 | 0069 | – | X | X | 135 | 864 | 376 | 458 | 8,10 |
| R_B-235-140 | 8297800 | 0069 | – | X | X | 135 | 864 | 376 | 483 | 8,40 |
| R_B-235-150 | 8302300 | 0069 | – | X | X | 135 | 864 | 376 | 508 | 8,80 |
| R_B-235-160 | 8302400 | 0069 | – | X | X | 135 | 864 | 376 | 533 | 9,10 |
| R_B-235-170 | 8297900 | 0069 | – | X | X | 135 | 864 | 376 | 558 | 9,40 |
| R_B-235-180 | 8302500 | 0069 | – | X | X | 135 | 864 | 376 | 583 | 9,80 |
| R_B-235-190 | 8298000 | 0069 | – | X | X | 135 | 864 | 376 | 608 | 10,10 |
| R_B-235-200 | 8302600 | 0069 | – | X | X | 135 | 864 | 376 | 633 | 10,40 |
| R_B-235-210 | 8309400 | 0069 | – | X | X | 135 | 864 | 376 | 658 | 10,80 |
| R_B-235-220 | 8302700 | 0069 | – | X | X | 135 | 864 | 376 | 683 | 11,10 |
| R_B-235-230 | 8309500 | 0069 | – | X | X | 135 | 864 | 376 | 708 | 11,40 |
| R_B-235-240 | 8302800 | 0069 | – | X | X | 135 | 864 | 376 | 733 | 11,80 |
| R_B-235-250 | 8309600 | 0069 | – | X | X | 135 | 864 | 376 | 758 | 12,10 |
| R_B-235-260 | 8298100 | 0069 | – | X | X | 135 | 864 | 376 | 783 | 12,40 |
| R_B-235-270 | 8302900 | 0069 | – | X | X | 135 | 864 | 376 | 808 | 12,80 |
| R_B-235-280 | 8303000 | 0069 | – | X | X | 135 | 864 | 376 | 833 | 13,10 |

# Longtherm Accessories

CE

## Longtherm Protect Cooling

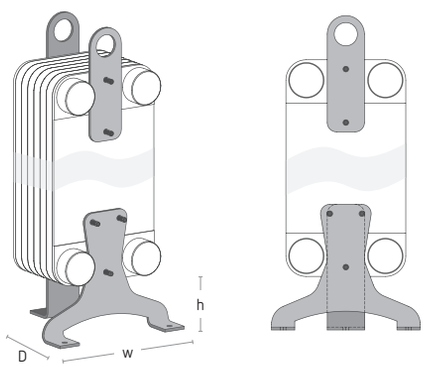
- self-adhesive diffusion resistant insulation
- with more than 100 plates, the insulation is required twice
- insulation material: elastomer foam
- colour: black
- insulation strength: 20 mm




| Type | Art. No. | DG | RHB | RLB | RMB | Perm. operating temperature [°C] | Height h [mm] | Width w [mm] | Depth D [mm] | Weight [kg] |
|---|---|---|---|---|---|---|---|---|---|---|
| R_B-14 | 8296000 | 0069 | X | X | X | 110 | 243 | 121 | 141 | 0,10 |
| R_B-22 | 8296100 | 0069 | X | X | X | 110 | 339 | 121 | 164 | 0,20 |
| R_B-31 | 8296200 | 0069 | X | X | X | 110 | 334 | 163 | 285 | 0,45 |
| R_B-34 | 8296300 | 0069 | X | X | X | 110 | 511 | 121 | 187 | 0,30 |
| R_B-60 | 8296400 | 0069 | X | X | X | 110 | 578 | 163 | 285 | 0,58 |
| R_B-110 | 8296500 | 0069 | – | X | X | 110 | 621 | 298 | 294 | 1,00 |
| RHB-110 | 8297000 | 0069 | X | – | – | 110 | 616 | 231 | 289 | 0,80 |

## Longtherm bracket

- a stable foot construction and transport lugs for on-site assembly are available for sizes 110 and 235




| Type | Art. No. | DG | Height h [mm] | Width w [mm] | Depth D [mm] | Weight [kg] |
|---|---|---|---|---|---|---|
| RHB-110 | 8290400 | 0069 | 70 | 240 | 320 | 2,96 |
| R_B-110-235 | 8290500 | 0069 | 115 | 240 | 320 | 2,96 |