

reflex

Thinking solutions.

Hot Water Storage Tanks & Heat Exchangers



Storatherm, Longtherm



We are only satisfied when

Reflex has set itself the goal of supporting you with well thought-through solutions. Whatever job you need doing in water supply engineering, why not put your trust in our comprehensive range of products and accompanying tailored services? We will ensure that your decision to opt for Reflex is the right one in every respect – from advice and design to installation and ongoing operation.



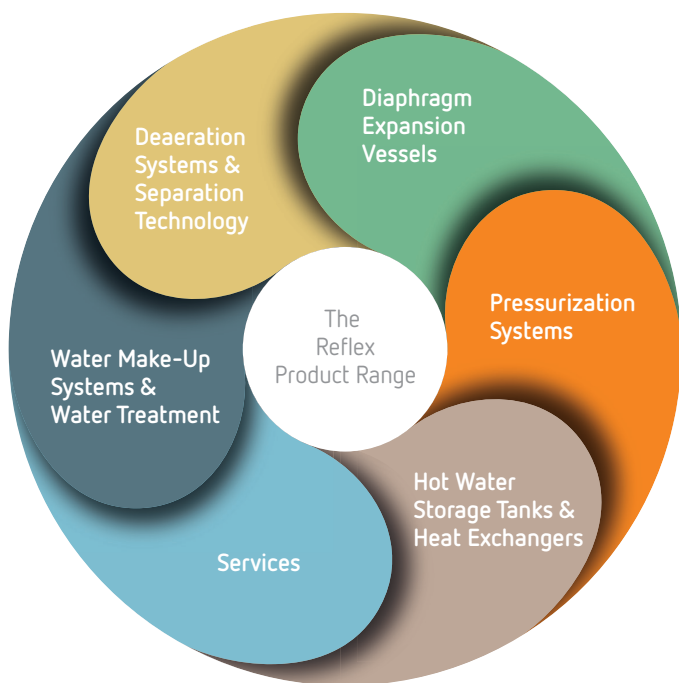
Thinking solutions.

Reflex's mission is embodied in the company's slogan: "Thinking solutions". Reflex's strength is to think in terms of solutions. Reflex develops ideas that help you to move forward based on decades of experience, in-depth technical understanding and our intimate knowledge of the industry!

you are.

We make sure that everything fits

Heating, cooling and hot water supply systems – the demands on supply equipment are varied and complex. Reflex storage water heaters and heat exchangers make a significant contribution to making heat available on-demand. They reliably keep thermal energy available at any time and ensure that it is available on demand when it is needed, significantly helping heating, hot water, industrial and district heating systems to run more efficiently.



This brochure provides an overview of Reflex Storatherm storage tanks for heating, hot and potable water and our Longterm heat exchangers. Both product ranges are based on uncompromising superior quality, guaranteeing maximum versatility in the development of individual systems.

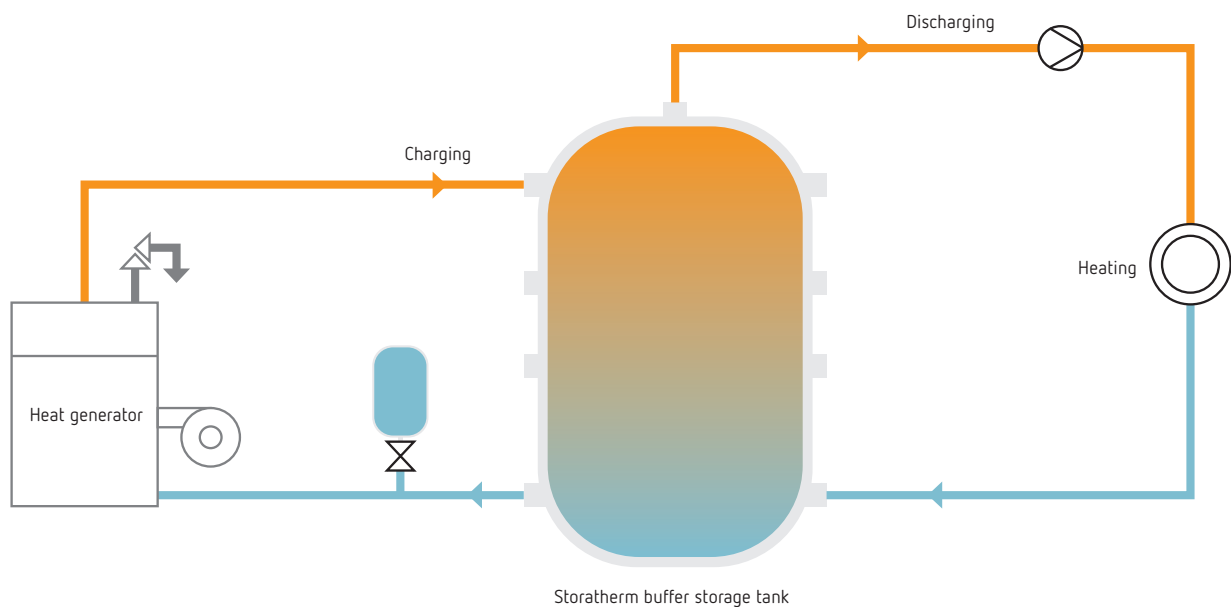
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Storatherm storage tanks for heating

The principle of stratified storage tanks

The buffer storage tanks used in the Reflex Storatherm range work on the principle of a stratified storage tank, in other words, they act like a thermal battery that temporarily and hydraulically decouples heat generation and heat consumption from one another. That is a fundamental precondition for the on-demand and efficient provision of energy from waste heat, solar energy systems, CHP and other heat generators, the heat emission of which is not aligned directly to demand.



The storage tank is charged with hot water from above when heat is available at the heat generator. The heat generator switches off when the lower outlet temperature is equal to the charging temperature. Independently of this, the storage tank can be drained to meet the needs of the heat consumer.

ating and cooling water



Storatherm buffer storage tanks for heating and cooling water

Storatherm buffer storage tanks have an extremely varied range of uses. Essentially they are used to store thermal energy to supply heating systems. Depending on the range, they have an additional service hatch and offer the option of connecting one or more other heat sources. A solar thermal system can be connected via integral heat exchangers, for example, or even several additional heat generators can be integrated into the heating system with corresponding equipment. The complete decoupling of heat usage and heat generation by a Storatherm buffer storage tank guarantees the highest levels of comfort, maximum reliability and the ultimate in flexibility for future retrofits.

Storatherm buffer storage tanks are made of high-grade steel with a plastic outer coating and are available in sizes ranging from 200 to 2,000 liters. They are factory-fitted with a 90 mm flexible foam insulation with a colored foil cladding. Thermal insulation is available separately for the larger storage tanks in the Storatherm range (3,000 to 5,000 liters).

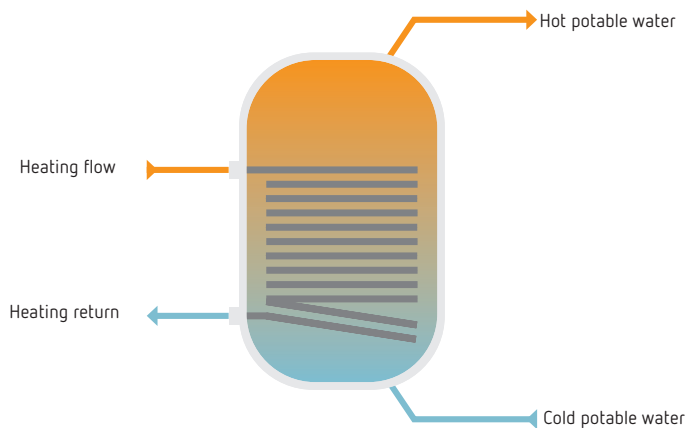
Detailed product information
can be found on pages 18-23.

Storatherm Aqua storage tanks f

Reflex offers a wide selection of high-quality storage water heaters with its Storatherm Aqua range, which are used for both monovalent and bivalent heating and also for the versatile use of external heat exchangers. All parts that come into contact with potable water are enameled and also protected by a magnesium anode and the system is supplied complete with thermal insulation (500 liters PU foam with foil or metal cladding, above 750 liters PU foam with foil cladding). You can rely on maximum efficiency with Storatherm Aqua - from traditional potable water heating to the innovative use of renewable energy sources by combination storage tanks for potable water and hot water.

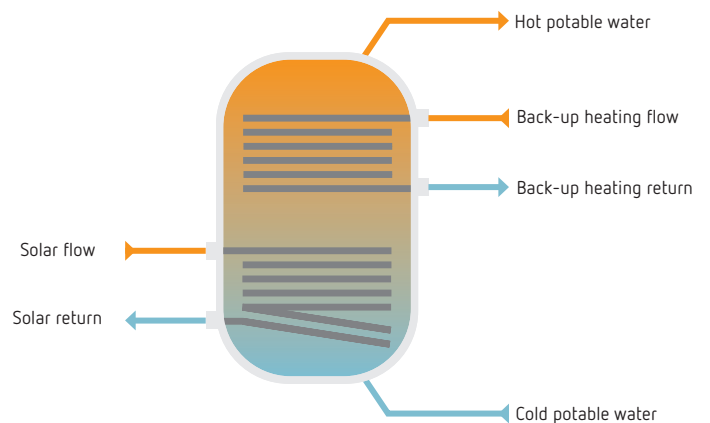
Monovalent heating

Potable water is heated in a storage tank by means of a heating medium, generally by an internal heat exchanger, the dimensions of which are coordinated to operation with low temperature, heat pump or solar heating systems. The diagram on the right shows the Storatherm Aqua. A Reflex Aqua Load charging storage tank with external Longtherm heat exchangers is the most versatile solution for continuous high outputs.



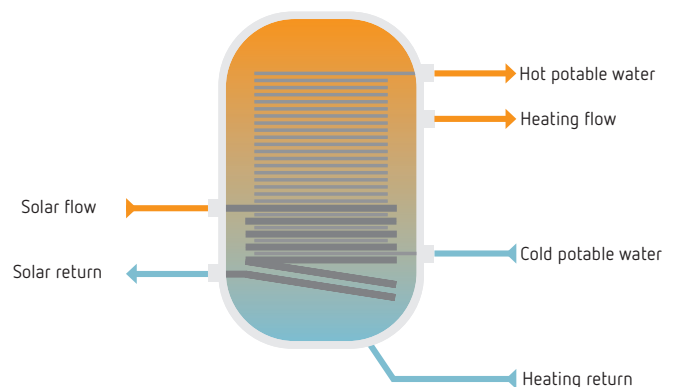
Bivalent heating

Two internal heat exchangers permit the simultaneous heating of potable water by a conventional boiler and a solar energy system, for example. They are normally integrated via the lower smooth tube heat exchanger in order to give priority to the full potential of the renewable heat source. The diagram on the right shows the Storatherm Aqua Solar.



Combination storage tanks

Combined storage tanks are capable of meeting special requirements. The diagram on the right shows a Storatherm Combi operating as a buffer storage tank within a heating system, which is also charged by a solar thermal system. Fresh water is also heated through an integral large-volume corrugated stainless steel pipe on a through-flow principle.



or the heating of potable water

Storatherm Aqua for monovalent operation in low-temperature heating systems

The classic choice for heating potable water by boilers. With PU rigid foam insulation (up to 500 liters) or PU flexible foam insulation from 750 liters. Available in a choice of blue, orange, silver and white. Alternatively available as a Storatherm Aqua Compact for horizontal installation.



- Nominal volume
Model with sheet steel cladding: 100-500 l
Model with foil cladding: 120-3,000 l
Storatherm Aqua Compact with sheet metal cladding: 150, 250 l
- Perm. excess operating pressure
Heating water: 16 bar
Potable water: 10 bar
- Perm. operating temperature
Heating water: 110 °C
Potable water: 95 °C

Storatherm Aqua Load for storage/charging systems

The Storatherm Aqua Load has no integral heat exchanger. It has been specifically designed for use within storage/charging systems where it provides an extremely good performance and versatility with relatively small storage volumes when used with Reflex Longterm heat exchangers. As standard, the Storatherm Aqua Load is encased within rigid or flexible foam thermal insulation, depending on the size.



- Nominal volume: 300-3,000 l
- Perm. excess operating pressure: 10 bar
- Perm. operating temperature: 95 °C

Detailed product information
can be found on pages 18-23.

Storatherm Aqua storage tanks for



Storatherm Aqua Heat Pump for operation in heat pump heating systems

Heat pumps work efficiently especially with very low flow temperatures, which is why the Storatherm Aqua Heat Pump is fitted with an especially large heat exchanger. With PU rigid foam insulation (500 l) or PU flexible foam insulation above 750 liters.

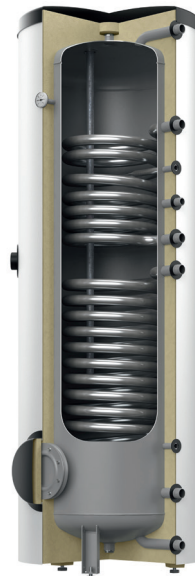
The Storatherm Aqua Heat Pump is alternatively available with a second heat exchanger for connection to a solar thermal system or other heat source.

- Nominal volume: 300, 400, 500, 750, 1,000 l
- Perm. excess operating pressure
Heating water: 16 bar
Potable water: 10 bar
- Perm. operating temperature
Heating water: 110 °C
Potable water: 95 °C

Storatherm Aqua Solar for bivalent operation of boilers and solar systems

The main difference with the Solar range of Storatherm Aqua units are the two internal heat exchangers, one for conventional boiler operation and one for integration of the solar system. In precisely the same way as the traditional version, it is available with a sheet steel or foil cladding, either in blue, orange, silver or white.

- Nominal volume
Model with sheet steel cladding: 300, 400, 500 l
Model with foil cladding: 120-3,000 l
- Perm. excess operating pressure
Heating water: 16 bar
Potable water: 10 bar
- Perm. operating temperature
Heating water: 110 °C
Potable water: 95 °C



or the heating of potable water

Storatherm Aqua Combi for bivalent heating – a combination of hot water storage tank and potable water heater

The boiler can be integrated directly into the external buffer storage tank and a solar system, for example, can be indirectly integrated via a heat exchanger. The potable water in the internal, enameled storage water heater is heated by the surface of the storage tank. The PU flexible foam thermal insulation around the Aqua Storatherm Combi is protected by a white foil cladding that can be ordered separately as an accessory.



- Nominal volume (heating water/potable water):
600/200, 750/200, 900/200 l
- Perm. excess operating pressure
Heating water: 3 bar
Solar: 10 bar
Potable water: 10 bar
- Perm. operating temperature
Heating water: 95 °C
Solar: 110 °C
Potable water: 95 °C

Storatherm Combi with corrugated stainless steel pipe used as a potable water heater with one or two heat sources

The Storatherm Combi works on the principle of a hygienic storage tank. It heats potable water through a large-volume corrugated stainless steel pipe using the energy it has stored. In doing so, it works like an instantaneous water heater, permitting efficient heating of hot water without the need for an additional heat source. Models with one or two smooth tube heat exchangers are available for feeding heat into the storage tank. The Storatherm Combi features 120 mm polyester fleece insulation with a silver PS outer cladding.



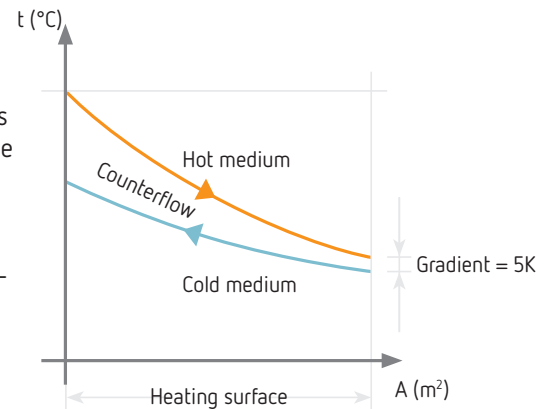
- Nominal volume 500-1,500 l
- Perm. excess operating pressure
Solar: 10 bar
Heating water: 3 bar
- Perm. operating temperature
Solar: 110 °C
Heating water: 95 °C
Potable water: 95 °C

Detailed product information can be found on pages 18-23.

Longtherm heat exchangers for h

Rock-solid construction

Molded stainless steel plates (1.44 alloy) are soldered together in a special process in Longtherm heat exchangers. The result is a fine network of flow channels on the primary and secondary side, permitting outstanding heat transfer within compact dimensions. The media are routed towards each other in a counter-current. Heat transfer is so intensive that temperature gradients of less than 5 K occur at the outlet, that is to say the original warm medium has almost cooled to the temperature of the cold medium.



h-shaped



l-shaped

Ultra-versatile for individual requirements

Longtherm heat exchangers can be adapted to any requirement with extreme accuracy as they are available in a variety of sizes, moldings and connection types. There is also an option to use the plates in soldered packages with different numbers of panels. It is possible to choose between the following properties:

- 7 sizes with different shapes (W*H)
- 2 plate shapes in model 85, characterized by different thermo-dynamic properties:
 - h-shaped:** The h-high shape generates flow channels with greater turbulence and is characterized by higher heat outputs and higher pressure losses. These models are designated as type rhc.
 - l-shaped:** The l-low shape generates flow channels with low levels of turbulence and is characterized by lower heat outputs and lower pressure losses. These models are designated as type rlc.
- 3 connection types: Brass threaded end, brass soldered end, steel welded end

Reflex Pro makes your choice easier

The Reflex Pro calculation program is available to help you choose the appropriate heat exchanger to meet your requirements. At www.reflex.de/pro you can quickly and simply determine the optimum balance of output, pressure loss and dimensions for your Longtherm heat exchanger.



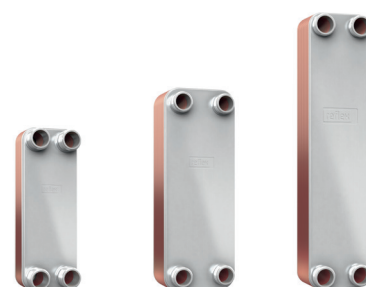
eating, cooling and potable water

With a range of a few kilowatts to several MWs, permissible excess operating pressures of up to 30 bar and a temperature range of up to 195 °C, Reflex Longtherm heat exchangers complete all principal energy engineering applications. The matching rigid foam or mineral wool thermal insulation and various connection options complete the range.

Longtherm 15 (rhc), 40 (rhc), 60 (rhc)

Longtherm's compact dimensions are predominantly used in district heating systems, for system separation in underfloor heating systems or for summer cooling in geothermal plants.

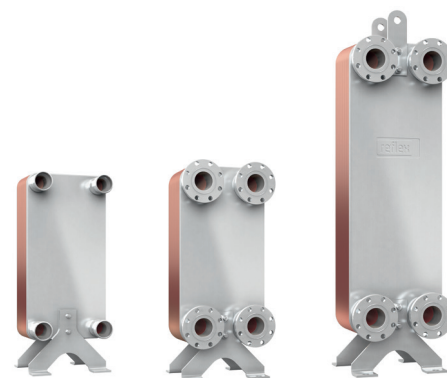
- Version: threaded connection
- Threaded connections: screw end, soldered end, welded end



Longtherm 85 (rhc and rlc), 150 (rhc), 200 (rhc)

With outputs of up to 1 MW, Longtherm dimensioned up to 200 can supply large residential complexes with heat and hot potable water. Versions with flanged connections are available for district heating and industrial applications. Furthermore, the option to choose between "h" and "l" moldings extends the capacity range for panel size 85.

- Version: threaded connection, flanged connection
- Options: screw end, soldered end, welded end, foot construction



Longtherm 300 (rhc)

The largest size of Longtherm is capable of producing outputs of more than 1 MW. Flanged models, foot construction and transport straps are standard features with this size of model. Wired individually or in parallel, it meets the output requirements of every district heating or industrial application.



Detailed product information
can be found on pages 24-26.

Hot water storage tanks and heat

The benefits of individual products become even clearer when they make their specific contribution to a complete concept in networked solutions. Below are a number of selected preferred solutions in which decisive benefits are achieved by storage water heaters and heat exchangers.

In doing so, we also hope to provide an overview of the functional interaction of the components. Specific projects always require a precise design. To achieve this, we can support you with a range of further services. Refer to pages 16/17 of this brochure to gain an impression.

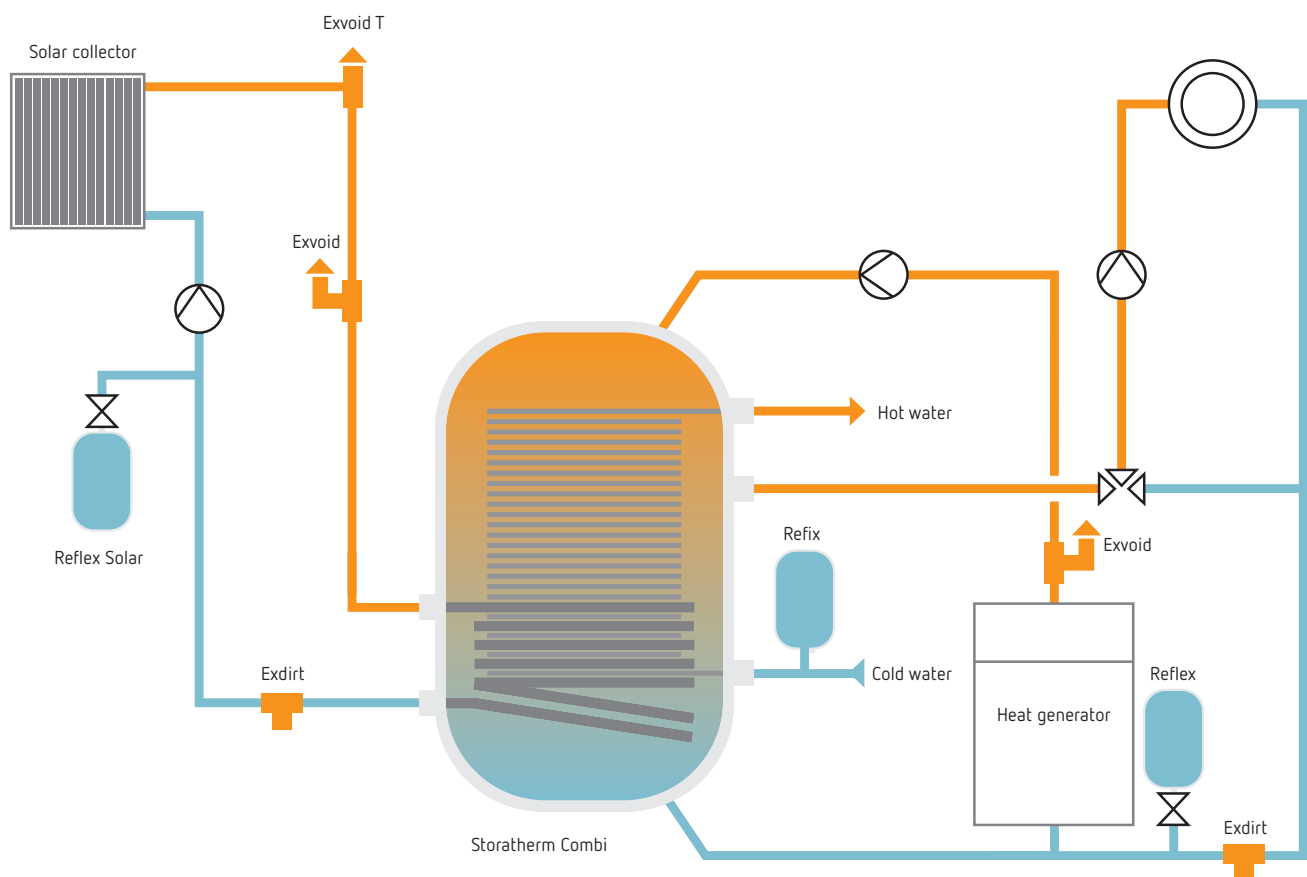


Networking of a Storatherm Combi with Reflex and Refix diaphragm expansion vessels and ex-separators

This example shows a typical bivalent heating system with conventional boiler and solar connection for single or multiple family dwellings. Within the outlined solution, the functions of the Reflex products shown seamlessly interact and produce an efficient, extremely reliable and compact solution:

- The Storatherm Combi stores solar energy in the heating storage tank, thereby ensuring optimum boiler operation. The heating system takes water from the heating storage tank on demand, the potable water is heated on the basis of a through-flow principle in the corrugated stainless steel pipe.
- The Reflex diaphragm expansion vessel maintains the requisite pressure on the heating side, thereby avoiding cavitation on the pumps and minimizing gas separation.
- The Refix diaphragm expansion vessel in the cold potable water feed pipe provides for the required pressure in the potable water storage tank.
- Free gases are separated from the water by an Exvoid or Exvoid T series micro-bubble separator and automatic air vent with an Exdirt sludge separator removing additional solid objects. Both create the best conditions for optimum heat transfer.

exchangers in networked solutions



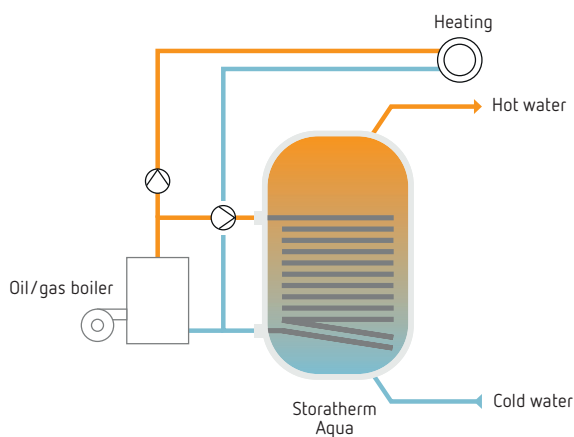
The illustrated examples merely show an outline functional representation of storage water heaters and heat exchangers.

Hot water storage tanks and heat



Potable water heating with conventional or mono-valent heating

Storage water heaters for potable water with a priority switch for heating have proved themselves over decades. The predictable conditions in a single or multiple dwelling with a precisely controlled heating system simplify the choice of a suitable storage tank: Storatherm Aqua for operation with conventional low-temperature heating systems, Storatherm Aqua Heat Pump for even lower flow temperatures in heat pump systems.



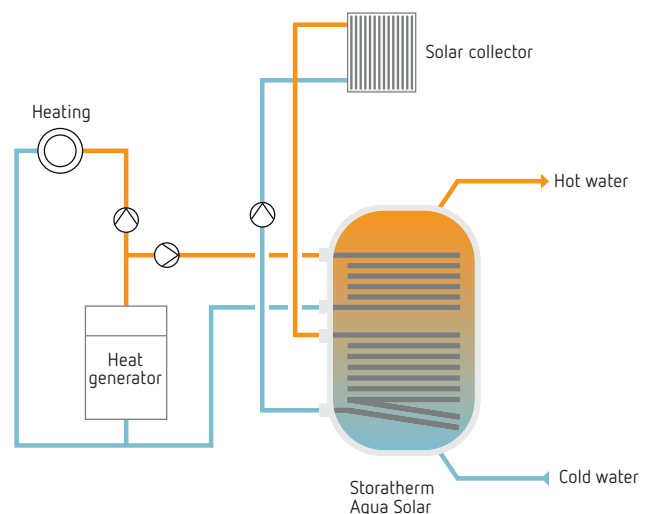
The illustrated examples merely show an outline functional representation of storage water heaters and heat exchangers.



Potable water heating with bivalent conventional and solar heating

The lower heat exchanger in the Storatherm Aqua Solar heats up potable water with solar heat. If the required potable water temperature is not reached, a conventional heat generator additionally heats with the upper heating surface, ensuring that a high percentage of the required heat is provided by solar heating.

The solution shown is ideal for small and medium-sized systems. If large solar energy systems are connected, solutions involving Storatherm buffer storage tanks combined with Longtherm heat exchangers for back-up heating and potable water heating are recommended depending on the level of output required.

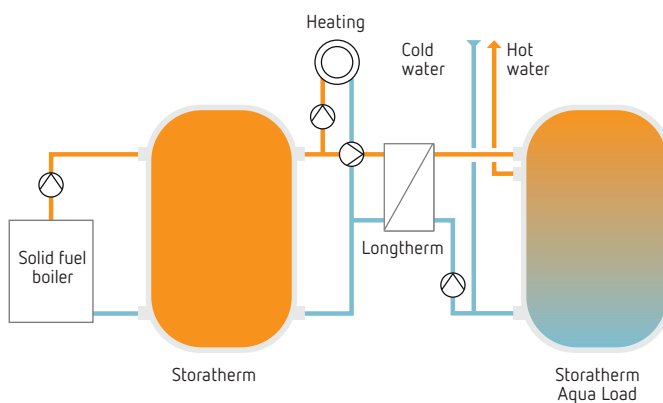


exchangers in networked solutions



Heat storage when using renewable energy sources or poorly controllable heat generators, high-performance potable water heating in storage/charging systems

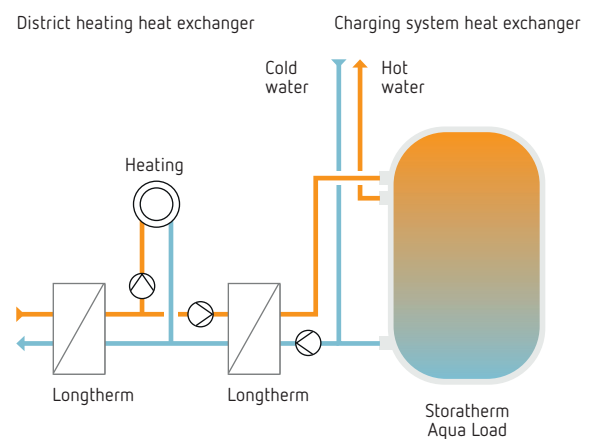
Increasingly complex solutions are called for when solid fuel boilers or similarly innovative heat generators are used, as these heat generators are difficult to control or are not continuously available. A Storatherm buffer storage tank provides the necessary balance and flexibility of supply, as the heating system takes the heat it requires from this storage tank. A Storatherm Aqua Load storage/charging tank with a Longtherm heat exchanger heats the potable water, guaranteeing a high continuous output and also reliably meets extreme peak loads.



District heating supply with system separation between the primary and secondary side, flexible heating of potable water in a storage/charging system

The strict separation of the primary and secondary side is generally called for in large district heating systems. An adequately sized Longtherm heat exchanger (85 - 300 r...c) with flanged connections for efficient output provision can offer this.

A storage/charging system is designed specifically for flexible heating of potable water in a system like this: the virtually inertia-free available heat is used to charge a Storatherm Aqua Load via a Longtherm 15 - 60 rhc. The system works extremely efficiently even with hot water consumption that is difficult to calculate.



Count on us - from the initial id

Reflex offers a range of services to assist you in finding the solution that best suits your needs. Take advantage of our combined expertise and experience and develop professional and expert solutions together with us, down to the very last detail.



Our service numbers

How can we help you? Please contact the relevant service number to ensure that you find the right person to deal with your inquiry as quickly as possible.

Technical hot line

For all questions about our products
Monday to Friday from 8.00 to 16.30
[+49 2382 7069-9546](tel:+49238270699546)

Reflex Customer Service and Spare Parts Service

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Made-to-measure design: With the Reflex Pro calculation program

Take the easiest route to correct design and sizing:
Reflex Pro is the proven, continuously developed software solution you can use to quickly and simply achieve precise results. The software is available in three versions and we also offer a CAD library of our products for integration into your construction programs.

Visit www.reflex.de/pro for further information and the option of downloading free of charge.

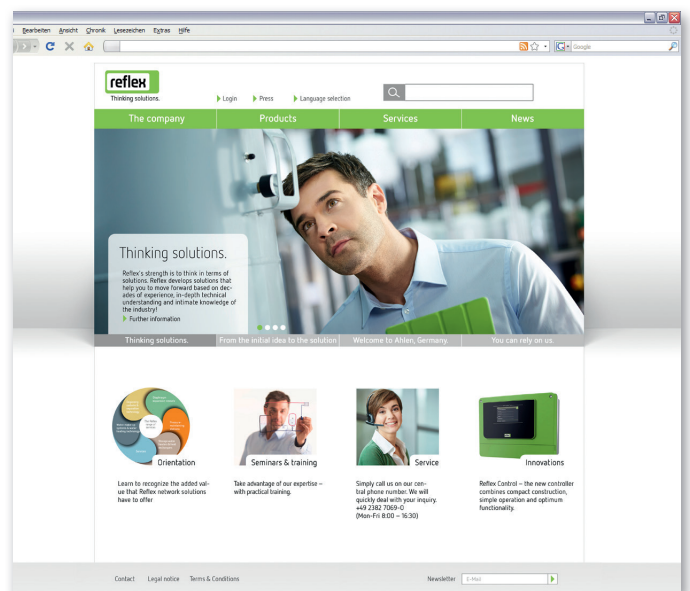
ea to the solution.



Our field sales team – always on the road for you

Our Reflex field sales team is your first point of contact when you need professional advice on site. From recommending relevant products to design and support in the preparation of a tender. You can rely on our experts!

Call our central phone number or check out www.reflex.de under Contact Us to find the field sales representative responsible for your region.



Our product literature – designed to be used

Make sure your decisions about all your future steps are based on solid foundations – with Reflex product information. You will find everything you need to know about products and systems in our brochures and at www.reflex.de. Well arranged and clearly explained – from the wider context to technical details.

Request the latest Reflex brochures directly from your Reflex field sales engineer, via our central phone number or – even simpler – online as PDFs at www.reflex.de.

Technical data

Storatherm buffer storage tanks for heating and cooling water

- Storage tank made of high-grade steel S235JRG2 (RSt 37-2)
- Incl. PU flexible foam insulation with colored film cladding
- Untreated on the inside, with an outer plastic coating
- Perm. excess operating pressure 3 bar (6 bar above 1,500 liters)
- Perm. operating temperature 95 °C

- Storatherm: Basic buffer storage tank
- Storatherm F: with additional cleaning and inspection aperture
- Storatherm/1 model: with one smooth tube heat exchanger for connection of an additional heat source
- Storatherm/2 model: with two smooth tube heat exchangers for connection of two additional heat sources



Storatherm buffer storage tank without smooth tube heat exchanger

Storage tank type	Article no. Storatherm	Article no. Storatherm F	Nominal capacity l	Ø D ¹⁾ mm	Height h mm/Rp 1½ Rp 2 ²⁾	Tipping dimension ³⁾ mm	Weight ¹⁾ kg
200	8500000	–	200	660	1500	1525	51/–
300	8500010	8500070	300	777	1320	1355	59/62
500	8500020	8500080	500	777	1950	1974	72/75
800	8500030	8500090	800	970	1825	1870	124/127
1000	8500040	8500100	1000	970	2115	2153	139/142
1500	8500050	8500200	1500	1180	2120	2178	186/189
2000	8500060	8500300	2000	1380	2122	2200	266/269
3000 ³⁾	7788100	7788200	3000	1500	2101	2205	567/570
4000 ³⁾	7788400	7788500	4000	1500	2676	2756	674/677
5000 ³⁾	7788700	7788800	5000	1500	3211	3264	811/814

¹⁾ incl. thermal insulation

²⁾ Rp 2 for 3,000, 4,000 and 5,000-liter models

³⁾ without thermal insulation

Storatherm buffer storage tank with one or two smooth tube heat exchanger(s)

Storage tank type	Article no. .../1	Article no. .../2	Nominal capacity l	Ø D ¹⁾ mm	Height h mm/Rp 1½ Rp 2 ²⁾	Tipping dimension ³⁾ mm	Weight ¹⁾ kg	Heating surface top/bottom, m ²
300/1	8500400	–	300	777	1320	1355	82	1.34
500/1 and 500/2	8500500	8500513	500	777	1950	1974	100/125	1.88 and 1.17/1.88
800/1 and 800/2	8500600	8500613	800	970	1825	1870	197/267	3.76 and 1.86/2.47
1000/1 and 1000/2	8500700	8500713	1000	970	2115	2153	225/308	4.48 and 2.47/3.10
1500/1 and 1500/2	8500800	8500813	1500	1180	2120	2178	272/355	4.48 and 2.30/3.72
2000/1	8500900	–	2000	1380	2122	2200	352	4.48
3000/1 ³⁾	7788300	–	3000	1500	2101	2205	637	5.00
4000/1 ³⁾	7788600	–	4000	1500	2676	2756	754	6.00
5000/1 ³⁾	7788900	–	5000	1500	3211	3264	871	7.00

¹⁾ incl. thermal insulation

²⁾ Rp 2 for 3,000, 4,000 and 5,000-liter models

³⁾ without thermal insulation

Thermal insulation for Storatherm buffer storage tanks with a volume of 3,000, 4,000 and 5,000 liters

- Made of 90 mm thick PU flexible foam with a white, laminated foil cladding
- Removable, for mounting on site

Type	Article no.
PW 3000	9119307
PW 4000	9119308
PW 5000	9119309

Storatherm Aqua Heat Pump

- Standing storage tank with larger heating coil for efficient use in heat pump systems
- Enameling in accordance with DIN 4753
- With magnesium anode
- With thermometer
- Cleaning and inspection aperture for the optional installation of supplementary electric heating or a finned tube heat exchanger
- Heat insulation: up to 500 l PU rigid foam with white foil cladding, from 750 l PU flexible foam, removable, with white foil cladding (assembly on site)
- Perm. excess operating pressure:

Heating water	16 bar
Potable water	10 bar
- Perm. operating temperature:

Heating water	110 °C
Potable water	95 °C
- With /2 models with a second smooth tube heat exchanger as an additional heating surface (max. 10 bar, 110 °C)



Storage tank type	Article no.	Nominal capacity l	Ø D ¹⁾ mm	Height mm	Weight kg	Tipping dimension ¹⁾ mm	Heating surface top/bottom m ²
300/1	7772300	275	700	1334	145	1393	3.2
300/2	7772320	275	700	1334	139	1393	2.4/1.1
400/1	7772400	339	700	1634	170	1672	5.0
400/2	7772420	339	700	1634	189	1672	3.2/1.4
500/1	7772500	429	700	1961	235	1990	6.2
500/2	7772520	429	700	1961	222	1990	4.3/1.6
750/1	7782200	727	990	2050	290	2173/1972 ²⁾	7.0
750/2	7782220	722	990	2050	263	2173/1972 ²⁾	5.2/2.2
1000/1	7782900	1000	1090	2083	385	2226/2010 ²⁾	9.2
1000/2	7782920	945	1090	2083	335	2226/2010 ²⁾	6.1/3.1

¹⁾ incl. thermal insulation

²⁾ without thermal insulation

Technical data

Storatherm Aqua Load

- For the heating of hot water in storage/charging systems
- Enameling in accordance with DIN 4753
- With magnesium anode
- Type 1500 and 2000 with 2 magnesium anodes, mounted on the side
- Type 3000 with 3 magnesium anodes, mounted on the side
- With thermometer
- Types 1500/2000/3000 optionally with 3 cleaning and inspection openings for the installation of supplementary electric heating or a finned tube heat exchanger
- Heat insulation: up to 500 l PU foam with white foil cladding, from 750 l PU-flexible foam, removable, with white foil cladding (assembly on site)
- Perm. excess operating pressure: 10 bar
- Perm. operating temperature: 95 °C



Storage tank type	Article no.	Nominal capacity l	Ø D ¹⁾ mm	Height mm	Weight kg	Tipping dimension ²⁾ mm
300	6500500	300	600	1834	90	1892
500	6500600	502	700	1961	155	2044
750	6500000	750	910	2010	214	1990
1000	6500100	990	1010	2035	267	2025
1500	6500303	1500	1200	2215	390	2220
2000	6500403	2000	1400	2126	550	2235
3000	6501203	2800	1400	2876	630	2848

¹⁾ incl. thermal insulation ²⁾ = without thermal insulation

Storatherm Combi

- Hygienic storage tank for heating hot water and back-up for heating systems
- Storage tank made of high-grade steel S235JRG2 (RSt 37-2)
- Hot water heating in a large-volume corrugated stainless steel pipe
- Feed of heat using one or two smooth tube heat exchangers
- Incl. 120 mm polyester fleece insulation with silver PS outer cladding
- Untreated on the inside, with an outer plastic coating
- Heating surfaces: max 10 bar/110 °C
- Storage tank: max 3 bar/95 °C



Storage tank type	Article no.	Nominal capacity l	Volume of hot water corrugated pipe l	Ø D ¹⁾ mm	Height mm	Weight kg	Tipping dimension ²⁾ mm	Heating surface top/bottom m ²
Combi 500/1	8601000	428	27	840	1970	92	1820	1.6
Combi 500/2	8601050	418	27	840	1970	106	1820	1.14/1.6
Combi 800/1	8601010	722	37	1030	1850	131	1870	2.6
Combi 800/2	8601060	706	37	1030	1850	152	1870	1.75/2.6
Combi 1000/1	8601020	852	47	1030	2140	152	2153	2.6
Combi 1000/2	8601070	833	47	1030	2140	179	2153	2.2/2.6
Combi 1500/1	8601030	1332	52	1240	2130	219	2178	2.15
Combi 1500/2	8601080	1317	52	1240	2130	237	2178	1.5/2.15

¹⁾ incl. thermal insulation ²⁾ = without thermal insulation

Storatherm Aqua

- Standing storage tank for all heating systems, in particular low temperature systems
- Enameling in accordance with DIN 4753
- With magnesium anode
- With thermometer
- Types F 750 and F 1000: 2 magnesium anodes, mounted on the side
- Types F 1500 and F 2000 with 1 maintenance-free external current anode
- Above 150 liters with cleaning and inspection aperture for the optional installation of supplementary electric heating or a finned tube heat exchanger
- Thermal insulation: Types B 100 - B 500 PU foam with colored sheet steel enclosure; types F 750 - F 1000 PU flexible foam, removable with white foil cladding (assembly on site)
- Perm. excess operating pressure: Heating water 16 bar, potable water 10 bar
- Perm. operating temperature: Heating water 110 °C, potable water 95 °C.



Storage tank type	Article no.				Nominal capacity l	Ø D ¹⁾ mm	Height mm	Weight ²⁾ kg	Diagonal height mm	Heating surface m ²
	Blue	Orange	Silver	White						
B 100	7763000	7763100	7763900	7763800	96	512	849	50	960	–
B 150	7750100	7750600	7764100	7763600	158	540	1222	67	1290	–
B 200	7750200	7750700	7764200	7763300	198	540	1473	79	1530	–
B 300	7750300	7750800	7764300	7763400	300	700	1334	117	1472	–
B 400	7750400	7750900	7764400	7763500	385	700	1631	137	1738	–
B 500	7750500	7751000	7764500	7763700	478	700	1961	189	2044	–
F 750	–	–	–	7754600	750	910	2023	259	1990	3.70
F 1000	–	–	–	7754700	976	1010	2050	322	2025	4.50
F 1500	–	–	–	7800700	1500	1200	2216	480	2520	6.00
F 2000	–	–	–	7800800	2000	1400	2126	650	2545	7.00

¹⁾ incl. thermal insulation ²⁾ = incl. packaging

Technical data

Storatherm Compact

- Base storage tank for space-saving boiler/storage tank combination
- Can be used in all heating systems, in particular low temperature systems
- Type 150 and 250 preferably when combined with a sit-on boiler, max. load 300 kg
- Type 120 preferably when combined with a wall-mounted heater
- Enameling in accordance with DIN 4753
- With magnesium anode
- With thermometer
- Thermal insulation: Type 150 and 250 PU foam (45 mm) with colored sheet steel cladding; type 120 PU foam (30 mm) with white foil cladding
- Perm. excess operating pressure: Heating water 16 bar, potable water 10 bar
- Perm. operating temperature: Heating water 110 °C, potable water 95 °C.



Storage tank type	Article no.				Nominal capacity l	Ø or width in mm	Height mm	Depth mm	Weight ¹⁾ kg	Diagonal height mm	Heating surface m ²
	Blue	Orange	Silver	White							
150	7762000	7762100	7765000	7761900	150	620	590	995	82	–	0.90
200	7762500	7762600	7765100	7761300	250	653	644	1095	114	–	0.90
120	–	–	–	7759600	115	560	800	–	56	980	0.71

¹⁾ incl. packaging

Storatherm Aqua Solar

- Standing storage tank with additional heating coil for the use of solar energy
- Enameling in accordance with DIN 4753
- With magnesium anode
- With thermometer
- Types F 1500/2 and F 2000/2 with 1 maintenance-free external current anode
- Rp 1½ sleeve for the optional installation of supplementary electric heating
- With cleaning and inspection aperture for the optional installation of supplementary electric heating or a finned tube heat exchanger
- Thermal insulation: PU rigid foam with colored foil cladding; above type F 750/2 removable flexible foam with white foil cladding (assembly on site)
- Perm. excess operating pressure: Heating water 16 bar, solar circuit 16 bar, potable water 10 bar
- Perm. operating temperature: Heating water 110 °C, solar circuit 110 °C, potable water 95 °C



Storage tank type	Article no.				Nominal capacity l	Ø D ¹⁾ mm	Height mm	Weight ²⁾ kg	Diagonal height mm	Heating surface top/bottom m ²
	Blue	Orange	Silver	White						
F 200/2	–	–	–	7743400	192	540	1473	84	1530	0.70/0.95
F 300/2	7740100	7740000	7740800	7741500	295	600	1834	123	1892	0.80/1.55
F 400/2	7753500	7753600	7740900	7741300	380	700	1631	149	1738	1.05/1.80
F 500/2	7754000	7754100	7741000	7741400	470	700	1961	179	2044	1.30/1.90
F 750/2	–	–	–	7743200	750	910	2023	249	1990	1.17/1.93
F 1000/2	–	–	–	7743300	995	1010	2050	309	2025	1.12/2.45
F 1500/2	–	–	–	7800750	1500	1200	2216	495	2250	1.90/3.80
F 2000/2	–	–	–	7800850	2000	1400	2126	670	2200	2.37/4.74

¹⁾ incl. thermal insulation ²⁾ = incl. packaging

Storatherm Aqua Combi

- Combined storage tank for heating hot water and back-up for heating systems
- Hot water production in an enameled internal tank
- Enameling in accordance with DIN 4753
- With magnesium anode
- Clamping rails for variable sensor positioning
- Perm. excess operating pressure: Heating water 3 bar, potable water 10 bar, solar heat exchanger 10 bar
- Perm. operating temperature: Heating water 95 °C, drinking water 95 °C, solar heat exchanger 110 °C



Storage tank type	Article no.	Nominal capacity Heating water l	Nominal capacity Potable water l	Ø D ¹⁾ mm	Height ¹⁾ mm	Weight ²⁾ kg	Diagonal height mm	Heating surface Solar m ²
600/200	7774600	402	200	900	1880	178	1830	2.10
750/200	7774750	580	200	990	1910	200	1868	2.60
900/200	7774900	665	200	990	2080	214	2028	3.00

¹⁾ incl. thermal insulation ²⁾ = incl. packaging

Thermal insulation for Storatherm Aqua Combi, white, 100 mm

for storage tank type	Article no.
600/200	9118391
750/200	9118392
900/200	9118393

Technical data

Longterm with threaded connections



Duct shape and model	Number of plates	Article no. rhc	Article no. rlc	Length L mm	Width W/w mm	Height H/h mm	Weight kg	Supports mm	Content s1/s2 l	Content s3/s4 l
rhc 15	10	6712100	—	51	73/40	204/170	1.4	G ¾	0.10	0.13
rhc 15	20	6712200	—	74	73/40	204/170	1.9		0.23	0.25
rhc 15	30	6712300	—	97	73/40	204/170	2.4		0.35	0.38
rhc 40	10	6713100	—	53	124/73	335/281	3.2	G 1	0.26	0.33
rhc 40	20	6713200	—	76	124/73	335/281	4.5		0.59	0.65
rhc 40	30	6713300	—	99	124/73	335/281	5.8		0.91	0.98
rhc 40	40	6713400	—	122	124/73	335/281	7.1		1.24	1.30
rhc 40	50	6713500	—	145	124/73	335/281	8.4		1.56	1.63
rhc 40	60	6713600	—	168	124/73	335/281	9.7		1.89	1.95
rhc 60	6	6714100	—	44	124/73	532/487	3.7		0.20	0.30
rhc 60	8	6714200	—	49	124/73	532/487	3.9	G 1 ¼	0.30	0.40
rhc 60	10	6714300	—	53	124/73	532/487	4.4		0.40	0.50
rhc 60	14	6714400	—	63	124/73	532/487	5.2		0.60	0.70
rhc 60	20	6714500	—	76	124/73	532/487	6.5		0.90	1.00
rhc 60	24	6714600	—	86	124/73	532/487	7.3		1.10	1.20
rhc 60	30	6714700	—	99	124/73	532/487	8.6		1.40	1.50
rhc 60	40	6714800	—	122	124/73	532/487	10.7		1.90	2.00
rhc 60	50	6714900	—	145	124/73	532/487	12.8		2.40	2.50
rhc 60	60	6715000	—	168	124/73	532/487	14.9		2.90	3.00
rhc 60	80	6715100	—	214	124/73	532/487	19.1		3.90	4.00
rhc 60	100	6715200	—	260	124/73	532/487	23.3		4.90	5.00
r...c 85	30 G 2	6719100	6718100	145	271/200	532/460	27.6	G 2	3.22	3.45
r...c 85	40 G 2	6719200	6718200	168	271/200	532/460	33.0		4.37	4.60
r...c 85	50 G 2	6719300	6718300	191	271/200	532/460	38.4		5.52	5.75
r...c 85	60 G 2	6719400	6718400	214	271/200	532/460	43.8		6.67	6.90
r...c 85	80 G 2	6719500	6718500	260	271/200	532/460	54.6		8.97	9.20
r...c 85	100 G 2	6719600	6718600	306	271/200	532/460	65.4		11.27	11.50
r...c 85	120 G 2	6719700	6718700	352	271/200	532/460	76.2		13.57	13.80
rhc 150	50 G 2 ½	6721100	—	197	271/161	532/421	39.4	G 2 ½	5.30	5.53
rhc 150	60 G 2 ½	6721200	—	221	271/161	532/421	44.8		6.41	6.63
rhc 150	80 G 2 ½	6721300	—	269	271/161	532/421	55.6		8.62	8.84
rhc 150	100 G 2 ½	6721400	—	317	271/161	532/421	66.4		10.83	11.05
rhc 150	120 G 2 ½	6721500	—	365	271/161	532/421	77.2		13.04	13.26
rhc 150	150 G 2 ½	6721600	—	437	271/161	532/421	93.4		16.35	16.58
rhc 150	180 G 2 ½	6721800	—	509	271/161	532/421	109.6		19.67	19.89
rhc 150	200 G 2 ½	6721700	—	557	271/161	532/421	120.4		21.88	22.10
rhc 200	50 G 2 ½	6723100	—	197	271/161	802/690	53.9	G 2 ½	9.58	9.98
rhc 200	60 G 2 ½	6723200	—	221	271/161	802/690	61.9		11.57	11.97
rhc 200	80 G 2 ½	6723300	—	269	271/161	802/690	77.9		15.56	15.96
rhc 200	100 G 2 ½	6723400	—	317	271/161	802/690	93.9		19.55	19.95
rhc 200	120 G 2 ½	6723500	—	365	271/161	802/690	109.9		23.54	23.94
rhc 200	150 G 2 ½	6723600	—	437	271/161	802/690	133.9		29.53	29.93
rhc 200	180 G 2 ½	6723800	—	509	271/161	802/690	157.9		35.51	35.91
rhc 200	200 G 2 ½	6723700	—	557	271/161	802/690	173.9		39.50	39.90

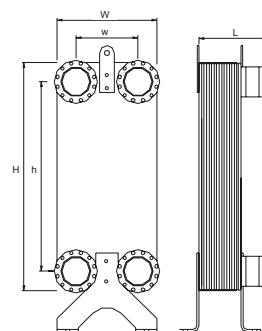
Longtherm with flanged connections



Models
150 and 200



Model 300



Duct shape and model	Number of plates	Article no. rhc	Article no. rlc	Length ¹⁾ L mm	Width W/w mm	Height H/h mm	Weight kg	Flange	Content s1/s2 l	Content s3/s4 l
r...c 85	30	6717100	6716100	180	271/200	532/460	38.0	Rigid flange DN 50/PN 40	3.22	3.45
r...c 85	40	6717200	6716200	203	271/200	532/460	43.4		4.37	4.60
r...c 85	50	6717300	6716300	226	271/200	532/460	48.8		5.52	5.75
r...c 85	60	6717400	6716400	249	271/200	532/460	54.2		6.67	6.90
r...c 85	80	6717500	6716500	295	271/200	532/460	65.0		8.97	9.20
r...c 85	100	6717600	6716600	341	271/200	532/460	75.8		11.27	11.50
r...c 85	120	6717700	6716700	387	271/200	532/460	86.6		13.57	13.80
rhc 150	50	6720100	–	194	271/161	532/421	45.8	Rigid flange ²⁾ DN 65/PN 40	5.30	5.53
rhc 150	60	6720200	–	218	271/161	532/421	51.2		6.41	6.63
rhc 150	80	6720300	–	266	271/161	532/421	62.0		8.62	8.84
rhc 150	100	6720400	–	314	271/161	532/421	72.8		10.83	11.05
rhc 150	120	6720500	–	362	271/161	532/421	83.6		13.04	13.26
rhc 150	150	6720600	–	434	271/161	532/421	99.8		16.35	16.58
rhc 150	180	6720800	–	506	271/161	532/421	116.0		19.67	19.89
rhc 150	200	6720700	–	554	271/161	532/421	126.8	Rigid flange ²⁾ DN 65/PN 40	21.88	22.10
rhc 200	50	6722100	–	194	271/161	802/690	60.3		9.58	9.98
rhc 200	60	6722200	–	218	271/161	802/690	68.3		11.57	11.97
rhc 200	80	6722300	–	266	271/161	802/690	84.3		15.56	15.96
rhc 200	100	6722400	–	314	271/161	802/690	100.3		19.55	19.95
rhc 200	120	6722500	–	362	271/161	802/690	116.3		23.54	23.94
rhc 200	150	6722600	–	434	271/161	802/690	140.3		29.53	29.93
rhc 200	180	6722800	–	506	271/161	802/690	164.3	Rigid flange ²⁾ DN 100/PN 40	35.51	35.91
rhc 200	200	6722700	–	554	271/161	802/690	180.3		39.50	39.90
rhc 300	50	6724100	–	284	386/237	875/723	114.5		14.40	15.00
rhc 300	60	6724200	–	308	386/237	875/723	127.0		17.40	18.00
rhc 300	80	6724300	–	356	386/237	875/723	152.0		23.40	24.00
rhc 300	100	6724400	–	404	386/237	875/723	177.0		29.40	30.00
rhc 300	120	6724500	–	452	386/237	875/723	202.0		35.40	36.00
rhc 300	150	6724600	–	524	386/237	875/723	239.5		44.40	45.00
rhc 300	180	6724900	–	596	386/237	875/723	277.0		53.40	54.00
rhc 300	200	6724700	–	644	386/237	875/723	302.0		59.40	60.00

¹⁾ incl. thermal insulation ²⁾ = without thermal insulation

Accessories

Longterm thermal insulation

Longterm polyurethane rigid foam thermal insulation keeps heat losses as low as possible. The design consisting of two robust semi-circular shells with two connecting clips is simple to assemble and is enclosed within a PS foil cladding to improve its impact resistance.

Models rhc 150/180 and above are fitted with mineral wool thermal insulation with an aluminum outer cladding.



Model	Number of plates	Article no.	Dimensions L x W x H in mm
rhc 15	10-20	6750000	108 x 127 x 282
rhc 15	30	6750100	153 x 127 x 282
rhc 40	10-20	6750200	128 x 179 x 400
rhc 40	30-40	6750300	174 x 179 x 400
rhc 40	50-60	6750400	218 x 179 x 400
rhc 60	6-24	6750500	150 x 179 x 600
rhc 60	30-40	6750600	180 x 179 x 600
rhc 60	50-60	6750700	228 x 179 x 600
rhc 60	80-100	6750800	322 x 179 x 600
r...c 85	30-40	6750900	180 x 325 x 600
r...c 85	50-60	6751000	228 x 325 x 600
r...c 85	80-100	6751100	322 x 325 x 600
r...c 85	120	6751200	440 x 325 x 600
rhc 150	50-60	6751300	228 x 325 x 600
rhc 150	80-100	6751400	322 x 325 x 600
rhc 150	120-150	6751500	440 x 325 x 600
rhc 150	180-200	6751600	580 x 358 x 620
rhc 200	50-80	6751700	297 x 358 x 890
rhc 200	100-120	6751800	390 x 358 x 890
rhc 200	150	6751900	459 x 358 x 890
rhc 200	180-200	6752000	574 x 358 x 890
rhc 300	50-80	6752100	318 x 520 x 980
rhc 300	100-150	6752200	483 x 520 x 980
rhc 300	180-200	6752300	647 x 520 x 980

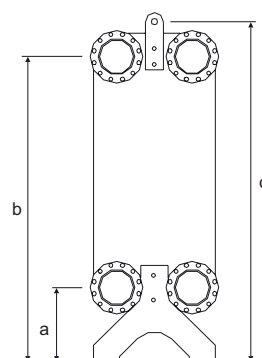
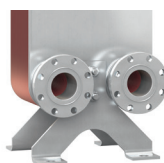
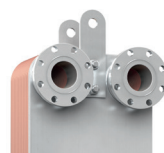
Longterm bracket

A stable foot construction is available for models 85 and 150. A foot construction complete with transport strap that can be removed after assembly is offered for model 200.

Model rhc 300 is supplied as standard with a leg construction and transport strap.

Model	Article no.	a mm	b mm	c mm
r...c 85	6771100	138	598	—
rhc 150	6771100	158	579	—
rhc 200	6771300	158	848	989
rhc 300	— ¹⁾	231	954	1092

¹⁾ included with the rhc 300





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