

## Heat Accumulation



thermal stores  
hot water storage tanks





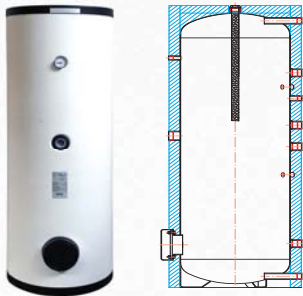
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## HOT WATER STORAGE TANKS WITH NO HEAT EXCHANGER

### ROBC Hot Water Storage Tanks

Hot Water Storage Tanks permitting installation of an electric heating element. Their inner surface is enameled following the DIN 4753 standard. They are fitted with a magnesium anode rod.



Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	En. eff. class**	Code
ROBC 200	212	1265	500	50	C	10586
ROBC 300	297	1710	500	55	C	10571
ROBC 400	420	1690	600	55	C	10587
ROBC 500	513	1780	650	55	-	8795
ROBC 750	763	1870	790	80	-	10364
ROBC 1000	885	2120	790	80	-	10365
ROBC 1500	1494	2285	1000	100	-	16715
ROBC 2000	2013	2550	1100	100	-	16716
ROBC 2500	2508	2680	1200	100	-	10501
ROBC 3000	2841	2980	1200	100	-	8901

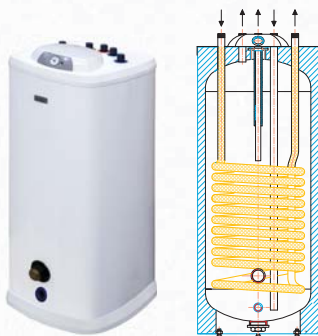
These tanks come with a detachable rigid PU insulation.

## HOT WATER STORAGE TANKS WITH ONE HEAT EXCHANGER

Hot Water Storage Tanks with one enameled heat exchanger, permitting installation of an electric heating element. Their inner surface is enameled following the DIN 4753 standard. They are fitted with a magnesium anode rod.

### RGC Hot Water Storage Tanks - with one HE and outlets upwards

Hot Water Storage Tank with outlets upwards, intended for use with a solid fuel boiler or a gas boiler.



Model	Total volume [l]	Height [mm]	Dimensions (W x D) [mm]	HE surface area [m <sup>2</sup> ]	En. eff. class	Code
RGC 120 H	120	1140	460 x 460	1.2	C	10493

This tank comes with a non-detachable ecological PU foam insulation, 30mm thick.

### Wall-hung RDC Hot Water Storage Tanks

Hot Water Storage Tank designed to be hung on a wall.



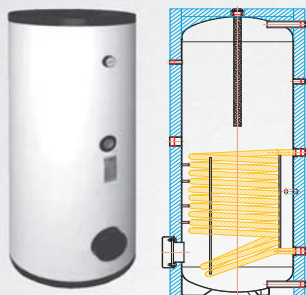
Model	Total volume [l]	Height [mm]	Diam. with insul.* [mm]	Insulation thickness [mm]	HE surface area [m <sup>2</sup> ]	En. eff. class	Code
RDC 200 Z	202	1287	584	42	1.1	C	14922

This tank comes with a non-detachable rigid PU insulation. Its metal case is white painted.

\* bare vessel diameter

\*\* For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

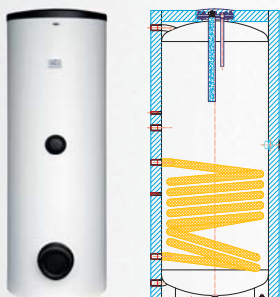
## RBC Hot Water Storage Tanks



Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HE surface area [m <sup>2</sup> ]	En. eff. class**	Code
RBC 200	214	1265	500	50	1.5	C	3252
RBC 300	297	1710	500	55	1.7	C	3253
RBC 400	408	1655	600	55	1.9	C	6479
RBC 500	515	1785	650	55	2.5	C	6480
RBC 750	767	1870	790	80	3.4	-	4037
RBC 1000	887	2120	790	80	3.5	-	4038
RBC 1500	1492	2285	1000	100	4.2	-	16710
RBC 2000	2006	2550	1100	100	4.5	-	16711
RBC 2500	2509	2680	1200	100	4.8	-	12420
RBC 3000	2841	2980	1200	100	5.2	-	8477

These tanks come with a detachable rigid PU insulation.

## RDC Hot Water Storage Tanks

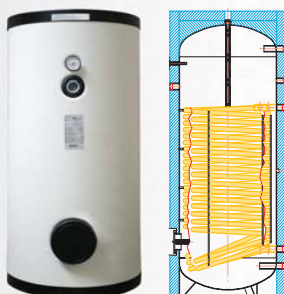


Model	Total volume [l]	Height [mm]	Diam. with insulation [mm]	Insulation thickness [mm]	HE surface area [m <sup>2</sup> ]	En. eff. class**	Code
RDC 160	157	1075	584	42	0.8	C	12772
RDC 200	216	1352	584	42	1	C	12758
RDC 250	274	1557	584	42	1.5	C	15860
RDC 300	302	1790	597	48.5	1.5	C	12759

Only RDC300 tank is fitted with a flange in the lower part.  
These tanks come with a non-detachable rigid PU insulation.

## RBC HP Hot Water Storage Tanks - with one upsized heat exchanger

Hot Water Storage Tanks with upsized heat transfer surface area of the heat exchanger designed to heat water from low-temperature sources (heat pump, larger solar thermal system etc.). An electric heating element can be installed into vessels of up to 750l volume.



Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HE surface area [m <sup>2</sup> ]	En. eff. class**	Code
RBC 200 HP	205	1265	500	55	3	C	10534
RBC 300 HP	299	1710	500	55	3.8	C	10535
RBC 400 HP	407	1655	600	55	5	C	10536
RBC 500 HP	509	1785	650	55	5.9	C	8546
RBC 750 HP	764	1870	790	80	7.5	-	10537
RBC 1000 HP	884	2120	790	80	10	-	7883
RBC 1500 HP	1516	2285	1200	100	11	-	16714

These tanks come with a detachable rigid PU insulation.

## NBC Hot Water Storage Tanks - 1 upsized tube heat exchanger, stainless-steel

Hot water storage tanks in stainless steel with upward facing outlets, integrated inner coil heat exchanger and a drain valve. They are fitted with a magnesium anode rod.



Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HE surface area [m <sup>2</sup> ]	En. eff. class**	Code
NBC 170 HP	171	1075	500	50	2	B	17615

The tanks come fitted with detachable insulation made of expanded PUR.

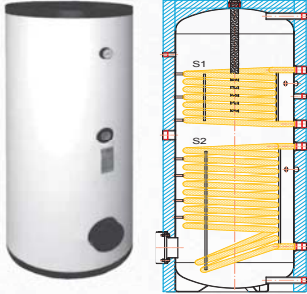
\* bare vessel diameter

\*\* For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

## HOT WATER STORAGE TANKS WITH TWO HEAT EXCHANGERS

Hot Water Storage Tanks with two enameled heat exchangers, permitting to install an el. heating element. Their inner surface is enameled following the DIN 4753 standard. They are fitted with a magnesium anode rod.

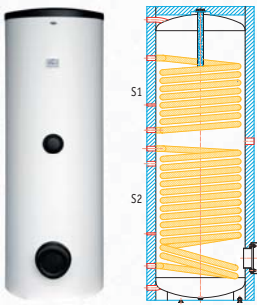
### R2BC Hot Water Storage Tanks



Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HE surface area [m <sup>2</sup> ]		En. eff. class**	Code
					upper	lower		
R2BC 200	213	1265	500	55	0.8	0.8	C	6481
R2BC 300	299	1710	500	55	0.9	1.5	C	6482
R2BC 400	420	1690	600	55	0.9	1.9	C	6483
R2BC 500	514	1780	650	55	0.9	1.9	C	6484
R2BC 750	762	1870	790	80	2.4	2.4	-	6485
R2BC 1000	883	2120	790	80	2.5	2.5	-	5758
R2BC 1500	1493	2285	1000	100	4.2	2.5	-	16712
R2BC 2000	2007	2550	1100	100	4.5	3	-	16713
R2BC 2500	2510	2680	1200	100	3.5	4.8	-	12432
R2BC 3000	2841	2980	1200	100	5.2	3.8	-	8474

These tanks come with a detachable rigid PU insulation.

### R2DC Hot Water Storage Tanks



Model	Total volume [l]	Height [mm]	Diam. with insulation [mm]	Insulation thickness [mm]	HE surface area [m <sup>2</sup> ]		En. eff. class	Code
					upper	lower		
R2DC 160	153	1075	584	42	0.7	0.8	C	13490
R2DC 200	216	1352	584	42	1	1	C	11351
R2DC 250	260	1562	584	42	1	1.5	C	12051
R2DC 300	293	1790	597	48.5	1	1.5	C	11352

Only R2DC300 tank is fitted with a flange in the lower part. These tanks come with a detachable rigid PU insulation.

\* bare vessel diameter

\*\* For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

## ACCESSORIES TO HOT WATER STORAGE TANKS

### Electronic Anode Rods



Model	Anode length [mm]	Active section length [mm]	Thread	Code
ACES 200/150	350	150	1/2"	6169
ACES 200/250	450	250	1/2"	4052
ACES 350/150	500	150	1/2"	9170
ACES 350/250	600	250	1/2"	3836
ACES 550/200	750	200	1/2"	3837
ACES 550/250	800	250	1/2"	17475

Electronic anodes are offered also in dedicated Kits created for separate tank models, see the Catalogue.

## Tube Heat Exchangers



The heat exchangers are designed to transfer heat, they are made from nickel-plated finned tubes that offer larger surface area and good heat transfer.

Surface area	m <sup>2</sup>	0.94
Coil length	mm	400
Coil diam.	mm	110
Connection	--	3/4"
Code	-	8377

## Flanges

### Flanges for tube heat exchangers:



A tube heat exchanger can be installed into a lower flange of RxBC 200-300 and RxDC 300 hot water storage tanks.

Tank model	RxDC 300	RxBC 200-300
Flange code	12706	8375

### Flanges for el. heating elements:



A lower flange of RxBC 200-300 and RxDC 300 hot water storage tanks can also accommodate an electric heating element.

Tank model	RxDC 300	RxBC 200-300
Flange code	12707	17199



When installing an electric heating element into the flange of a RBC 200 HP / RxBC 400-3000 hot water storage tank, the sacrifice magnesium anode rods must be replaced with the electronic ones. Flanges for these tanks feature a 6/4" opening for a heating element as well as a 1/2" opening for an el. anode rod, while available only in kits with suitable electronic anode rods, see the Catalogue.

## PTR Pressure & Temperature Relief Valves



PTR Valves protect hot water storage tanks from exceeding the preset max. pressure or temperature.

Code	Preset values
17240	7 bar, 92 °C
17241	10 bar, 92 °C

For an easy installation of PTR valves into Regulus hot water storage tanks we offer also sets of suitable fittings, see the Catalogue.

## Safety Kits



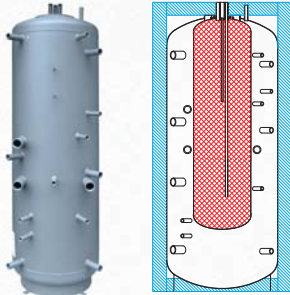
These safety sets are intended to protect HW storage tanks from exceeding the max. working pressure, to check the function of the check valve and to drain the HW storage tank.

Code	Application	Safety valve
17387	HW storage tanks up to 200l	6 bar - 1/2"
17696	HW storage tanks up to 1000l	6 bar - 3/4"

## ■ THERMAL STORES WITH IMMERSED DHW TANK

### DUO Thermal Stores

Thermal Stores designed to accumulate thermal energy of heating water, with immersed DHW tank, permitting installation of 3 electric heating elements and ready to be connected to other heat sources. The tank is fitted with metal pins for a pump station to be mounted. The inner surface of the immersed DHW tank is enameled in compliance with DIN 4753. It is fitted with a magnesium anode rod.



#### Thermal Store:

- 7 G 1" F side tapplings - to connect heating system and heat sources
- 3 G 6/4" F side tapplings - to insert el. heating element
- 7 G 1/2" F side tapplings - to insert sheaths for temperature sensors

#### Immersed DHW tank:

- 3 G 3/4" M top tapplings - in, out, recirculation
- 1 top tapping, Ø 10.5 mm - to insert a sheath for temperature sensor
- 1 magnesium anode rod (G 3/4")

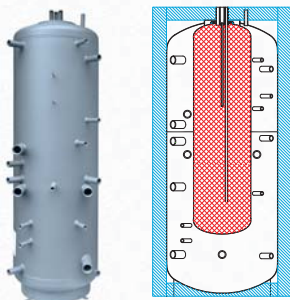
Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	En. eff. class**	Code	Insulation code
DUO 390/130	1910	550	387	123	C	14198	16294
DUO 600/200	1935	650	552	190	-	14201	16300
DUO 750/200	1980	750	749	190	-	14204	16303
DUO 1000/200	2080	800	918	190	-	14210	16255
DUO 1700/200	2080	1100	1682	190	-	14213	16291

DUO 390/130 Tanks are offered also as a reduced-height version **DUO 390/130 K** which is by 24 cm lower.

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	En. eff. class**	Code	Insulation code
DUO 390/130 K	1670	600	399	123	C	16070	16297

### DUO P Thermal Stores - with separating metal sheet

This Thermal Store is amended with a separating metal sheet that ensures better thermal layering, and with a fourth tapping located in the lower section intended for an electric heating element (preferably to be supplied with surplus PV power).



#### Thermal Store:

- 7 G 1" F side tapplings - to connect heating system and heat sources
- 4 G 6/4" F side tapplings - to insert el. heating element
- 7 G 1/2" F side tapplings - to insert sheaths for temperature sensors

#### Immersed DHW tank:

- 3 G 3/4" M top tapplings - in, out, recirculation
- 1 top tapping, Ø 10.5 mm - to insert a sheath for temperature sensor
- 1 magnesium anode rod (G 3/4")

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	En. eff. class**	Code	Insulation code
DUO 390/130 P	1910	550	386	123	C	14071	16295
DUO 600/200 P	1935	650	551	190	-	14272	16301
DUO 750/200 P	1980	750	748	190	-	14274	16304
DUO 1000/200 P	2080	800	917	190	-	14266	16256
DUO 1700/200 P	2080	1100	1681	190	-	14268	16292

Tanks are offered also as reduced-height versions.

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	En. eff. class**	Code	Insulation code
DUO 390/130 K P	1670	600	399	123	C	16073	16298
DUO 750/160 K P	1727	790	710	160	-	16828	16830

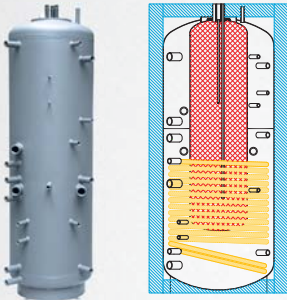
\* bare vessel diameter

\*\* The marking covers energy efficiency class of a tank with insulation. For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.



## DUO PR Thermal Stores - with separating metal sheet and heat exchanger

This Thermal Store is fitted with a separating metal sheet that ensures better thermal layering and a tube heat exchanger to connect a solar thermal system.



### Thermal Store:

- 7 G 1" F side tapplings
- 3 G 6/4" F side tapplings
- 7 G 1/2" F side tapplings
- 2 G 1" F side tapplings

- to connect heating system and heat sources
- to insert el. heating element
- to insert sheaths for temperature sensors
- to connect heat exchanger

### Immersed DHW tank:

- 3 G 3/4" M top tapplings
- 1 top tapping, Ø 10.5 mm
- 1 magnesium anode rod (G 3/4")

- in, out, recirculation
- to insert a sheath for temperature sensor

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	HE surface area [m <sup>2</sup> ]	En. eff. class**	Code	Insulation code
DUO 390/130 PR	1910	550	383	123	1.5	C	14072	16296
DUO 600/200 PR	1935	650	534	190	2.4	-	14219	16302
DUO 750/200 PR	1980	750	743	190	2.5	-	14222	16305
DUO 1000/200 PR	2080	800	913	190	3.2	-	14125	16258
DUO 1700/200 PR	2080	1100	1670	190	4.0	-	14228	16293

**DUO 390/130 PR** Tanks are offered also as a reduced-height version **DUO 390/130 K PR** which is by 24 cm lower.

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	HE surface area [m <sup>2</sup> ]	En. eff. class**	Code	Insulation code
DUO 390/130 K PR	1670	600	395	123	1.5	C	16077	16299

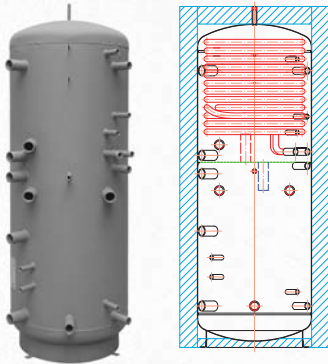
\* bare vessel diameter

\*\* The marking covers energy efficiency class of a tank with insulation. For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

## ■ THERMAL STORES WITH INSTANTANEOUS WATER HEATING

### HSK P Thermal Store with stainless steel DHW heat exchanger and separating metal sheet

Thermal Stores with a separating metal sheet and stainless-steel coil heat exchanger for continuous water heating are designed to store heat from heat pumps, fireplace inserts and other sources. The tank permits installation of an electric heating element powered by surplus PV power, heating the entire tank volume. Besides that, traditional el. heating elements can be installed for space heating or just DHW heating. Tanks are fitted with 2 metal pins for a pump station to be mounted.



#### Thermal Store:

- 8\* G 1" F or G 6/4" F side tapplings
- 3 G 6/4" F side tapplings
- 5 G 1/2" F side tapplings
- 1 G 1/2" F top tapping
- 2 M6 metal pins

- to connect heating system and heat sources
- to insert el. heating element
- to insert sheaths for temperature sensors
- for air vent valve
- for pump station

#### DHW heating:

- 2 G 1" M side tapplings
- 1 G 6/4" F side tapping
- 2 G 1/2" F side tapplings

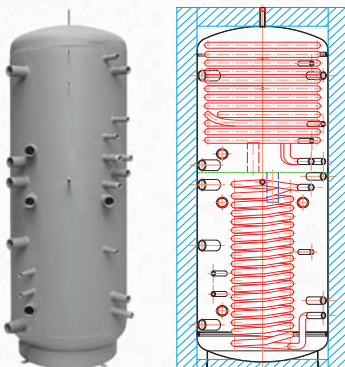
- in, out
- to insert el. heating element
- to insert sheaths for temperature sensors

\* HSK 390 P is fitted with 7 G 1" F side tapplings to connect a heating system and heat sources

Model	Height [mm]	Diam. [mm]	Total tank volume [l]	Volume of supplied hot water [l]**	DHW HE surface area [m <sup>2</sup> ]	En. eff. class**	Code	Insulation code
HSK 390 P	1905	550	398	321	6	C	13517	16318
HSK 600 P	1935	650	560	468	6	-	14175	16320
HSK 750 P	1975	750	760	548	6	-	14178	16323
HSK 1000 P	2080	800	925	592	6	-	14555	16310
HSK 1700 P	2075	1100	1687	1072	6	-	14558	16314

### HSK PV Thermal Store with 2 stainless steel DHW heat exchangers and separating metal sheet

Thermal Stores with a separating metal sheet and 2 stainless-steel coil heat exchangers for continuous water heating. Hot water is heated in 2 stages, being preheated in the lower heat exchanger. The main heat source should be a heat pump combined with PV solar panels. The tank permits connection of other heat sources in various combinations. Besides a specifically located PV heating element, also other electric heating elements can be installed into the tank, suitable for DHW and space heating. Tanks are fitted with 2 metal pins for a pump station to be mounted.



#### Thermal Store:

- 8 G 1" F or G 6/4" F side tapplings
- 3 G 6/4" F side tapplings
- 5 G 1/2" F side tapplings
- 1 G 1/2" F top tapping
- 2 M6 metal pins

- to connect heating system and heat sources
- to insert el. heating element
- to insert sheaths for temperature sensors
- for air vent valve
- for pump station

#### DHW heating:

- 4 G 1" M side tapplings
- 1 G 6/4" F side tapping
- 2 G 1/2" F side tapplings

- in, out
- to insert el. heating element
- to insert sheaths for temperature sensors

Model	Height [mm]	Diam. [mm]	Total tank volume [l]	Volume of supplied hot water [l]**	HE surface area [m <sup>2</sup> ]		Code	Insulation code
					upper DHW	lower DHW		
HSK 600 PV	1935	650	557	669	6	3	16158	16160
HSK 750 PV	1975	750	757	784	6	3	16177	16179
HSK 1000 PV	2080	800	922	846	6	3	16180	16312
HSK 1700 PV	2075	1100	1684	1533	6	3	16183	16185

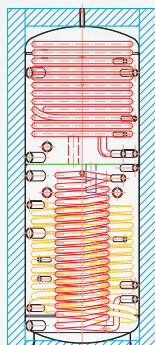
\* bare vessel diameter

\*\* The marking covers energy efficiency class of a separate tank / tank with insulation. For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

\*\*\* for a Thermal Store heated up to 60° C and outgoing temperature of 40° C at 8 l/min. flowrate, no support heating

## HSK PR Thermal Store with 2 stainless steel DHW heat exchangers\*, separating metal sheet and solar heat exchanger

Thermal Stores with a separating metal sheet, 2 stainless-steel coil heat exchangers for continuous water heating and a solar heat exchanger suitable for both DHW and support heating from solar collectors. The main heat source can be a heat pump, fireplace insert, gas-fired or another boiler. Besides that, also electric heating elements can be installed for space heating or just DHW heating. Tanks are fitted with 2 metal pins for a pump station to be mounted on.



### Thermal Store:

- 8\* G 1" F or G 6/4" F side tappings
- 2 G 1" F side tappings
- 2 G 6/4" F side tappings
- 5 G 1/2" F side tappings
- 1 G 1/2" F top tapping
- 2 M6 metal pins

- to connect heating system and heat sources
- for solar thermal system
- to insert el. heating element
- to insert sheaths for temperature sensors
- for air vent valve
- for pump station

### DHW heating:

- 4\* G 1" M side tappings
- 1 G 6/4" F side tapping
- 2 G 1/2" F side tappings

- in, out
- to insert el. heating element
- to insert sheaths for temperature sensors

\* HSK 390 PR features only one stainless-steel coil heat exchanger for DHW heating, only 7 G 1" F side tappings to connect a heating system and heat sources, and only 2 G 1" M tappings for DHW heating.

Model	Height [mm]	Diam. [mm]	Total tank volume [l]	Volume of supplied hot water [l]**	HE surface area [m <sup>2</sup> ]			En. eff. class**	Code	Insulation code
					upper DHW	lower DHW	solar			
HSK 390 PR*	1905	550	394	321	6	-	1.5	C	14172	16319
HSK 600 PR	1935	650	553	669	6	3	2.4	-	14187	16321
HSK 750 PR	1975	750	753	784	6	3	2.5	-	14190	16324
HSK 1000 PR	2080	800	916	846	6	3	3.2	-	14012	16311
HSK 1700 PR	2075	1100	1676	1533	6	3	4.0	-	14013	16315

\* bare vessel diameter

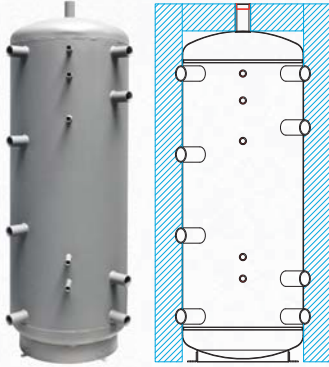
\*\* The marking covers energy efficiency class of a separate tank / tank with insulation. For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

\*\*\* for a Thermal Store heated up to 60° C and outgoing temperature of 40° C at 8 l/min. flowrate, no support heating

## ■ THERMAL STORES

Thermal Stores are intended for accumulation and subsequent distribution of thermal energy from solid-fuel fired boilers, heat pumps, solar thermal collectors, electric boilers etc.

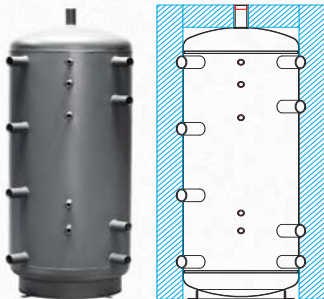
### PS N+ Thermal Stores



- 8 G 6/4" F side tapplings  
or G 2.5" (PS 3000 - 5000 N25) - to connect a heat system and heat sources,  
or to insert el. heating elements
- 1 G 6/4" F top tapping  
or G 2.5" (PS 3000 - 5000 N25) - for air release or flow line to heating system
- 5 G 1/2" F side tapplings - to insert sheaths for temperature sensors

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	En. eff. class**	Code	Insulation code
PS 200 N+	1351	450	181	C	14717	16326
PS 300 N+	1405	550	280	C	14720	16327
PS 400 N+	1905	550	397	C	13783	16329
PS 500 N+	1915	600	474	C	14723	16332
PS 600 N+	1935	650	561	-	15135	16335
PS 700 N+	1955	700	656	-	15138	16337
PS 800 N+	1845	800	804	-	15141	16339
PS 900 N+	1975	790	860	-	15144	16342
PS 1000 N+	2080	800	927	-	15147	16345
PS 1100 N+	2080	850	1040	-	15150	16350
PS 1500 N+	1885	1100	1504	-	15153	16352
PS 2000 N+	1955	1250	2005	-	15156	16353
PS 3000 N25	2040	1500	3022	-	14454	16354
PS 4000 N25	2355	1600	3991	-	14457	16355
PS 5000 N25	2855	1600	4989	-	14331	16356

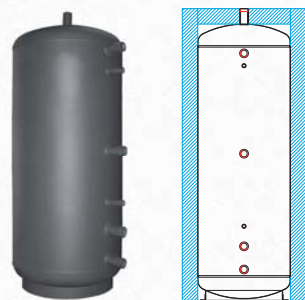
### PS K+ Thermal Stores



- G 6/4" F side tapplings - to connect a heat system and heat sources,  
or to insert el. heating elements
- 1 G 6/4" F top tapping - for air release or flow line to heating system
- 5 G 1/2" F side tapplings - to insert sheaths for temperature sensors

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	En. eff. class**	Code	Insulation code
PS 400 K+	1665	600	403	C	15285	16328
PS 500 K+	1685	650	477	C	15288	16331
PS 600 K+	1705	700	560	-	15291	16334
PS 700 K+	1725	790	737	-	15294	16336
PS 900 K+	1765	850	861	-	15297	16341
PS 1100 K+	1815	950	1085	-	16119	16349

### PS E+ Thermal Stores



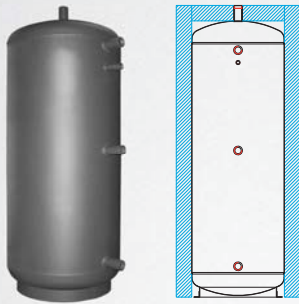
- 4 G 6/4" F side tapplings - to connect heat sources and loads,  
or to insert el. heating elements
- 1 G 6/4" F top tapping - for air release or flow line to heating system
- 2 G 1/2" F side tapplings - to insert sheaths for temperature sensors

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	En. eff. class**	Code	Insulation code
PS 500 E+	1915	600	473	C	14754	16330
PS 750 E+	1975	750	756	-	15212	16338
PS 1000 E+	2080	800	927	-	15851	16344
PS 1100 E+	2080	850	1038	-	15215	16347
PS 1250 E+	2065	950	1260	-	15992	16351

\* bare vessel diameter

\*\* The marking covers energy efficiency class of a separate tank / tank with insulation. For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

## PS ES+ Thermal Stores



G 6/4" side tappings

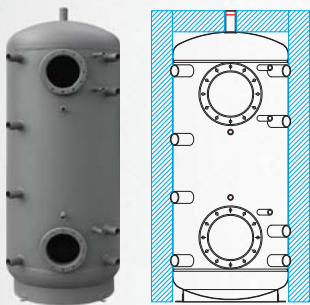
1 G 6/4" top tapping  
1 G 1/2" side tapping

- to connect a heat system and heat sources, or to insert el. heating elements  
- for air release or flow line to heating system  
- to insert a sheath for temperature sensors

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	Code	Insulation code
PS 600 ES+	1935	650	560	15527	16333
PS 900 ES+	1975	790	860	15530	16340
PS 1100 ES+	2080	850	1037	15956	16348

## PS2F N+ Thermal Stores – with 2 flanged openings

Thermal Stores fitted with two welded flanged openings. Each of them can be fitted with a suitably sized tube heat exchanger depending on the application and heat output needed. For example the lower heat exchanger can be connected to a solar thermal system, while the upper one will serve for instantaneous DHW heating. No flange is included.



8 G 6/4" side tappings  
or G 2.5" (PS2F 3000 - 5000 N25)

1 G 6/4" top tapping  
or G 2.5" (PS2F 3000 - 5000 N25)

5 G 1/2" side tappings  
2 flanged openings, 210mm inner diam.

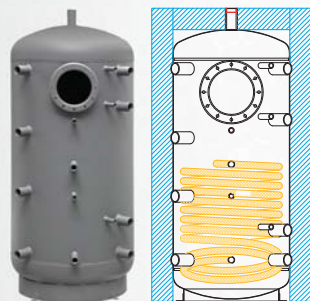
- to connect a heat system and heat sources, or to insert el. heating elements  
- for air release or flow line to heating system

- to insert sheaths for temperature sensors  
- to install finned tube heat exchangers

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	En. eff. class**	Code	Insulation code
PS2F 300 N+	1405	550	285	C	14726	16357
PS2F 500 N+	1915	600	479	C	14729	16358
PS2F 800 N+	1845	800	809	-	15218	16359
PS2F 1000 N+	2080	800	932	-	15221	16360
PS2F 1500 N+	1885	1100	1509	-	15224	16361
PS2F 2000 N+	1955	1250	2010	-	15227	16362
PS2F 3000 N25	2040	1500	3027	-	14460	16363
PS2F 4000 N25	2355	1600	3966	-	14463	16364
PS2F 5000 N25	2855	1600	4994	-	14466	16365

## PSWF N+ Thermal Stores – with flanged opening and heat exchanger

Thermal Stores with a lower steel heat exchanger and an upper welded flanged opening that can be fitted with another tube heat exchanger. No flange is included. These Thermal Stores are suitable preferably to be combined with solar thermal systems.



Volumes up to 100 cubic meters upon special order.

8 G 6/4" side tappings

1 G 6/4" top tapping  
5 G 1/2" side tappings  
2 G 1" tappings  
1 flanged openings, (210mm inner diam.)

- to connect a heat system and heat sources, or to insert el. heating elements  
- for air release or flow line to heating system  
- to insert sheaths for temperature sensors  
- to connect lower steel heat exchanger  
- to install finned tube heat exchangers

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	HE surface area [m <sup>2</sup> ]	En. eff. class**	Code	Insulation code
PSWF 300 N+	1405	550	280	1.5	C	14732	16366
PSWF 500 N+	1915	600	472	2.0	C	14735	16367
PSWF 800 N+	1845	800	807	2.7	-	15230	16371
PSWF 1000 N+	2080	800	930	3.2	-	15232	16368
PSWF 1500 N+	1885	1100	1498	4.0	-	15234	16369
PSWF 2000 N+	1955	1250	1996	4.5	-	15236	16370

\* bare vessel diameter

\*\* The marking covers energy efficiency class of a separate tank / tank with insulation. For hot water storage tanks of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

## ACCESSORIES TO THERMAL STORES

### Electronic Anode Rods

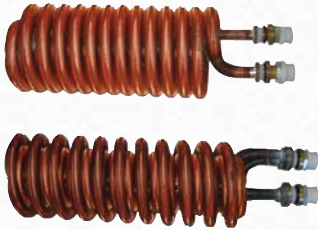
Kit for DUO tanks - code 13793



### Tube Heat Exchangers and Flanges

These heat exchangers are designed to transfer heat in Thermal Stores. They are made of finned copper pipes that offer larger surface area and better heat transfer. They differ in the size of heat transfer area, length, connection size, manner of winding and number of pipes. Upon agreement, in case of large quantities demanded, also bespoke models can be manufactured.

max. working pressure 10 bar  
max. working temperature 95°C



Surface area [m <sup>2</sup> ]	Coil length [mm]	Coil diam. [mm]	Connection	Number of pipes	Code
0.6	410	145	G 3/4"	1	6150
1.06	420	145	G 3/4"	1	6151
1.80	470	170	G 3/4"	1	6152
2.63	600	190	G 3/4"	1	6154
3.15	560	190	G 1"	2	6155
3.60	630	190	G 1"	2	6157
4.50	750	190	G 1"	2	6156

### Flanges for PS2F and PSWF Thermal Stores

These are not included in thermal store package, they need to be ordered separately depending on the specific application.



blind flange, code 6 230



G 3/4" connection, code 6 231



G 1" connection, code 6 232

### PTR Pressure & Temperature Release Valves

Dual pressure/temperature safety valves protect hot water storage tanks from exceeding the preset max. pressure or temperature.

Code	Preset values
17240	7 bar, 92 °C
17241	10 bar, 92 °C

Connection Kit - PTR to DUO - code 17525

Connection Kit - PTR to HSK - code 175277



### Safety Kits

Kit for DUO and HSK – code 17387  
See more on page 7.



### Insulation (jacket)

Detachable 100mm thick fleece insulation is available for Thermal Stores. For the inner insulating layer fleece made of PE yarn is used, while the outer layer is made of white PUR leather. These insulations are detachable, zipper closed. The insulation kit involves also top and bottom insulations.



## ELECTRIC HEATING ELEMENTS

Hot water storage tanks and thermal stores may be fitted with electric heating elements. Their overview and technical data are published in a separate catalogue. Here, max. outputs are shown that can be installed in a specific tank or store.

**If a tank or store is fitted with a flanged opening, an electric heating element can be installed even into the flange with anodes. In such a case, in tanks of bigger volumes the magnesium anode rods shall be replaced by electronic ones. See the Kits in the Catalogue.**

### Permissible installations of electric heating elements into Regulus HW storage tanks and thermal stores.

Tank/store model	No. of 6/4" tappings to install EHE	Max. output of 3x230/400V heat. elem., no thermostat	Max. output of 3x230/400V heat. elem. w. thermostat	Tank/store model	No. of 6/4" tappings to install EHE	Max. output of 3x230/400V heat. elem., no thermostat	Max. output of 3x230/400V heat. elem. w. thermostat
<b>HOT WATER STORAGE TANKS</b>				<b>THERMAL STORES</b>			
RxBC 200	1 <sup>1)</sup>	6 kW	6 kW	PS 600 ES+	3 <sup>2)</sup>	9 kW	9 kW
RxBC 300	1 <sup>1)</sup>	6 kW	6 kW	PS 900 ES+	3 <sup>2)</sup>	12 kW	9 kW
RxBC 400	1 <sup>1)</sup>	7,5 kW	7,5 kW	PS 1100 ES+	3 <sup>2)</sup>	12 kW	9 kW
RxBC 500	1 <sup>1)</sup>	9 kW	9 kW	PS 500 E+	4 <sup>2)</sup>	9 kW	9 kW
RxBC 750	1 <sup>1)</sup>	12 kW	9 kW	PS 750 E+	4 <sup>2)</sup>	12 kW	9 kW
RxBC 1000	1 <sup>1)</sup>	12 kW	9 kW	PS 1000 E+	4 <sup>2)</sup>	12 kW	9 kW
RxBC 1500	1 <sup>1)</sup>	12 kW	9 kW	PS 1100 E+	4 <sup>2)</sup>	12 kW	9 kW
RxBC 2000	1 <sup>1)</sup>	12 kW	9 kW	PS 1250 E+	4 <sup>2)</sup>	12 kW	9 kW
RxBC 2500	1 <sup>1)</sup>	12 kW	9 kW	PS 200 N+	8 <sup>2)</sup>	6 kW	6 kW
RxBC 3000	1 <sup>1)</sup>	12 kW	9 kW	PSxx 300 N+	8 <sup>2)</sup>	7,5 kW	8 kW
RBC 200 HP	1 <sup>1)</sup>	6 kW	6 kW	PS 400 N+	8 <sup>2)</sup>	7,5 kW	8 kW
RBC 300 HP	1 <sup>1)</sup>	6 kW	6 kW	PSxx 500 N+	8 <sup>2)</sup>	9 kW	9 kW
RBC 400 HP	1 <sup>1)</sup>	7,5 kW	7,5 kW	PS 600 N+	8 <sup>2)</sup>	9 kW	9 kW
RBC 500 HP	1 <sup>1)</sup>	9 kW	9 kW	PS 700 N+	8 <sup>2)</sup>	9 kW	9 kW
RBC 750 HP	1 <sup>1)</sup>	12 kW	9 kW	PSxx 800 N+	8 <sup>2)</sup>	12 kW	9 kW
RBC 1000 HP	0 <sup>1)</sup>	12 kW	9 kW	PS 900 N+	8 <sup>2)</sup>	12 kW	9 kW
RBC 1500 HP	0 <sup>1)</sup>	12 kW	9 kW	PSxx 1000 N+	8 <sup>2)</sup>	12 kW	9 kW
RxDC 160	1	6 kW	6 kW	PS 1100 N+	8 <sup>2)</sup>	12 kW	9 kW
RxDC 200	1	6 kW	6 kW	PSxx 1500 N+	8 <sup>2)</sup>	12 kW	9 kW
RxDC 250	1	6 kW	6 kW	PSxx 2000 N+	8 <sup>2)</sup>	12 kW	9 kW
RxDC 300	1 <sup>1)</sup>	6 kW	6 kW	PSxx 3000 N25	8 <sup>4)</sup>	12 kW	9 kW
RDC 200 Z	1	6 kW	6 kW	PSxx 4000 N25	8 <sup>4)</sup>	12 kW	9 kW
RGC 120 H	1	3 kW	3 kW	PSxx 5000 N25	8 <sup>4)</sup>	12 kW	9 kW
NBC170 HP	0	0 kW	0 kW	PS 400 K+	8 <sup>2)</sup>	9 kW	9 kW
<b>THERMAL STORES WITH DHW</b>				PS 500 K+	8 <sup>2)</sup>	9 kW	9 kW
DUO 390/130 x	3 <sup>3)</sup>	5 kW	5 kW	PS 600 K+	8 <sup>2)</sup>	9 kW	9 kW
DUO 600/200 x	3 <sup>3)</sup>	5 kW	5 kW	PS 700 K+	8 <sup>2)</sup>	12 kW	9 kW
DUO 750/200 x	3 <sup>3)</sup>	7,5 kW	7,5 kW	PS 900 K+	8 <sup>2)</sup>	12 kW	9 kW
DUO 1000/200 x	3 <sup>3)</sup>	8,2 kW	8,2 kW	PS 1100 K+	8 <sup>2)</sup>	12 kW	9 kW
DUO 1700/200 x	3 <sup>3)</sup>	12 kW	9 kW				
HSK 390 x	3 <sup>3)</sup>	6 kW	6 kW				
HSK 600 x	3 <sup>3)</sup>	6 kW	6 kW				
HSK 750 x	3 <sup>3)</sup>	8,2 kW	8,2 kW				
HSK 1000 x	3 <sup>3)</sup>	9 kW	9 kW				
HSK 1700 x	3 <sup>3)</sup>	12 kW	9 kW				

<sup>1)</sup> - the tank can be fitted with a flange + tapping to receive one more heating element – kindly consult the permissible output with our sales representative

<sup>2)</sup> - number of all G 6/4" tappings to be connected to heat sources

<sup>3)</sup> - P model features an extra 4th tapping for a PV powered heating element

<sup>4)</sup> - all tappings are 2.5", an adapter shall be used when installing el. heating elements

**Max. output of a 230V heating element with a plastic thermostatic head is 3 kW for all stores and tanks, except for RGC 120 H (2.4 kW).**

