

Regulus

HEAT ACCUMULATION



- **thermal stores**
- **hot water storage tanks**

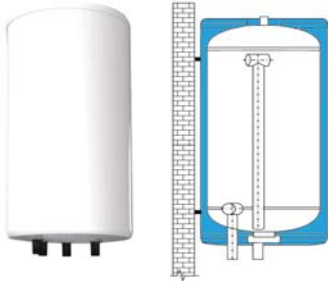
CONTENTS

- 4** Thermal Stores
- 7** Thermal Stores with Immersed DHW Tank
- 8** Thermal Stores with Instantaneous Water Heating
- 10** Accessories to Thermal Stores
- 11** Hot Water Storage Tanks with no Heat Exchangers
- 11** Hot Water Storage Tanks with One Heat Exchanger
- 13** Hot Water Storage Tanks with Two Heat Exchangers
- 13** Accessories to Hot Water Storage Tanks
- 15** Electric Heating Elements

THERMAL STORES

Thermal Stores designed for storing and subsequent distribution of thermal energy from solid-fuel boilers, heat pumps, electric boilers etc.

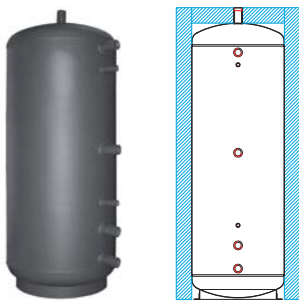
PS Z and ZC Thermal Stores incl. insulation



- 4 G 1" M bottom connections to connect heating system and heat sources
- 1 G 6/4" F bottom connection to insert el. heating element
- 1 G 1/2" F top connection for air vent valve
- 2 G 3/8" sheaths (1 upper + 1 lower) to place temperature sensors

Model	Application	Height [mm]	Diam.* [mm]	Total tank volume [l]	En. eff. class**	Code
PS 80 Z	heating	865	450	77	C	18754
PS 80 ZC	cooling and heating	865	450	77	-	18932

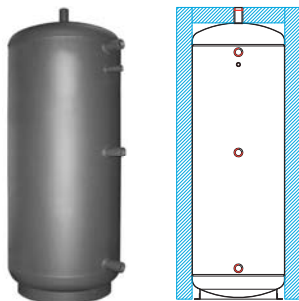
PS E+ Thermal Stores



- 4 G 6/4" F side connections to connect heating system and heat sources, or to insert el. heating elements
- 1 G 6/4" F top connection for air vent valve or flow line to heating system
- 2 G 1/2" F side connections 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	19319
PS 750 E+	1975	750	756	-	15212	19309
PS 1000 E+	2080	800	927	-	15851	19313
PS 1100 E+	2080	850	1038	-	15215	19335
PS 1250 E+	2065	950	1260	-	15992	19324

PS ES+ Thermal Stores



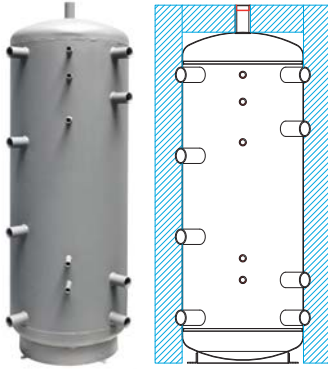
- 3 G 6/4" F side connections to connect heating system and heat sources, or to insert el. heating elements
- 1 G 6/4" F top connection for air vent valve or flow line to heating system
- 1 G 1/2" F side connection to insert sheath for temperature sensors

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	Code	Insulation code
PS 600 ES+	1935	650	560	15527	19310
PS 900 ES+	1975	790	860	15530	19301
PS 1100 ES+	2080	850	1037	15956	19315

* diameter without connections, insulation

** The marking covers energy efficiency class of the thermal store with insulation. For thermal stores of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

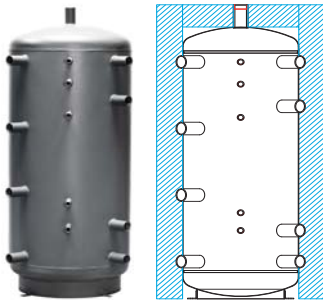
PS N+ Thermal Stores



- 8 G 6/4" F or G 2.5" to connect heating system and heat sources, (PS 3000 - 5000 N25) side connections or to insert el. heating elements
- 1 G 6/4" F or G 2.5" for air vent valve or flow line to heating system (PS 3000 - 5000 N25) top connection
- 5 G 1/2" F side connections 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	19295
PS 300 N+	1405	550	280	C	14720	19048
PS 400 N+	1905	550	397	C	13783	19304
PS 500 N+	1915	600	474	C	14723	19296
PS 500 N25	1915	600	476	C	19272	19274
PS 600 N+	1935	650	561	-	15135	19322
PS 700 N+	1955	700	656	-	15138	19316
PS 800 N+	1845	800	804	-	15141	19297
PS 900 N+	1975	790	860	-	15144	19298
PS 1000 N+	2080	800	927	-	15147	19049
PS 1000 N25	2080	800	929	-	19376	19378
PS 1100 N+	2080	850	1040	-	15150	19305
PS 1500 N+	1885	1100	1504	-	15153	19303
PS 1500 N25	1885	1100	1506	-	19379	19381
PS 2000 N+	1955	1250	2005	-	15156	19312
PS 2000 N25	1955	1250	2007	-	19370	19372
PS 3000 N25	2040	1500	3022	-	14454	16354
PS 4000 N25	2355	1600	3991	-	14457	19352
PS 5000 N25	2855	1600	4989	-	14331	19358

PS K+ Thermal Stores



- 8 G 6/4" F side connections to connect heating system and heat sources, or to insert el. heating elements
- 1 G 6/4" F top connection for air vent valve or flow line to heating system
- 5 G 1/2" F side connections to insert sheaths for temperature sensors

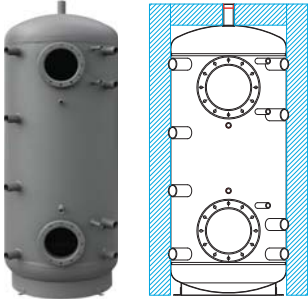
Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	En. eff. class**	Code	Insulation code
PS 400 K+	1665	600	403	C	15285	19338
PS 500 K+	1685	650	477	C	15288	19307
PS 600 K+	1705	700	560	-	15291	19314
PS 700 K+	1725	790	737	-	15294	19300
PS 900 K+	1765	850	861	-	15297	19326
PS 1100 K+	1815	950	1085	-	16119	19323

* diameter without connections, insulation

** The marking covers energy efficiency class of the thermal store with insulation. For thermal stores of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

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" F or G 2.5" to connect heating system and heat sources, (PS2F 3000 - 5000 N25) side connections or to insert el. heating elements

1 G 6/4" F or G 2.5" for air vent valve or flow line to heating system (PS2F 3000 - 5000 N25) top connection

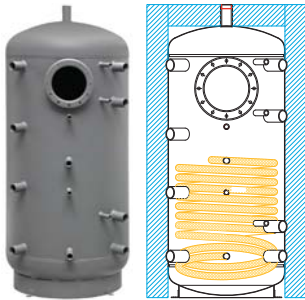
5 G 1/2" F side connections to insert sheaths for temperature sensors

2 flanged openings, 210mm inner diam. 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	19349
PS2F 500 N+	1915	600	479	C	14729	19347
PS2F 800 N+	1845	800	809	-	15218	19348
PS2F 1000 N+	2080	800	932	-	15221	19340
PS2F 1500 N+	1885	1100	1509	-	15224	19344
PS2F 2000 N+	1955	1250	2010	-	15227	19351
PS2F 3000 N25	2040	1500	3027	-	14460	19359
PS2F 4000 N25	2355	1600	3966	-	14463	19356
PS2F 5000 N25	2855	1600	4994	-	14466	19360

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.



8 G 6/4" F side connections to connect heating system and heat sources, or to insert el. heating elements

1 G 6/4" F top connection for air vent valve or flow line to heating system

5 G 1/2" F side connections to insert sheaths for temperature sensors

2 G 1" F connections to connect lower steel heat exchanger

1 flanged opening, (210mm inner diam.) to install finned tube heat exchangers

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	HX surface area [m ²]	En. eff. class**	Code	Insulation code
PSWF 300 N+	1405	550	280	1.5	C	14732	19342
PSWF 500 N+	1915	600	472	2.0	C	14735	19332
PSWF 800 N+	1845	800	807	2.7	-	15230	19343
PSWF 1000 N+	2080	800	930	3.2	-	15232	19325
PSWF 1500 N+	1885	1100	1498	4.0	-	15234	19350
PSWF 2000 N+	1955	1250	1996	4.5	-	15236	19355

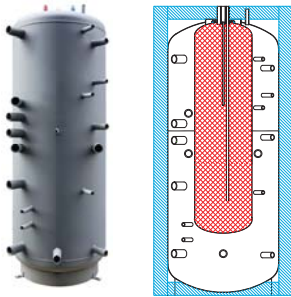
* diameter without connections, insulation

** The marking covers energy efficiency class of the thermal store with insulation. For thermal stores of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

THERMAL STORES WITH IMMERSED STAINLESS STEEL DHW TANK

DUO N P Thermal Stores - with separating metal plate

Tanks for thermal energy accumulation, with an immersed stainless steel hot water tank, permitting installation of three electric heating elements and connection of further heat sources. The hot water tank is fitted with a magnesium anode rod. The tank is fitted with a separating metal plate that ensures better thermal stratification, and with a fourth connection in the bottom section intended for an electric heating element (designed to be power supplied by surplus from a PV system).



Lower (thermal store) tank section:

5 (4***) G 1" or G 6/4" F side connections to connect heating system and heat sources
 3 6/4" F side connections to insert el. heating element
 4 G 1/2" F side connections to insert sheaths for temperature sensors, safety valve and pressure gauge

Upper tank section (DHW heating):

3 G 1" or G 6/4" F side connections to connect heat sources
 1 G 6/4" F side connection to install el. heating element
 3 G 1/2" F side connections to insert sheaths for temperature sensors and thermometer
 1 G 1/2" F top connection for air vent valve

Immersed DHW tank:

3 G 3/4" F top connections for cold water inlet, DHW recirculation and DHW outlet
 1 magnesium anode rod (G 3/4")

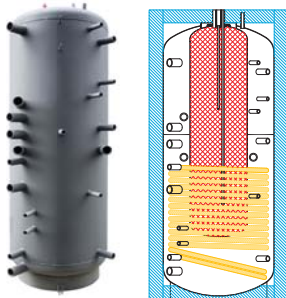
Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	Volume of supplied hot water [l]	En. eff. class**	Code	Insulation code
DUO 390/130 N P	1910	550	396	123	277	C	19131	19318
DUO 600/200 N P	1935	650	559	174	457	-	19147	19330
DUO 750/200 N P	1980	750	757	174	464	-	19141	19333
DUO 1000/200 N P	2080	800	903	174	538	-	19143	19334
DUO 1700/200 N P	2080	1100	1682	174	791	-	19137	19354

DUO 390/130 NK P Thermal Store is available also in a version of reduced height:

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	Volume of supplied hot water [l]	En. eff. class**	Code	Insulation code
DUO 390/130 NK P	1670	600	403	143	266	C	19104	19341

DUO N PR Thermal Stores - with separating metal plate and heat exchanger

The tank is moreover equipped with a heat exchanger for connecting a solar thermal system and pins for a pump station to be mounted on.



Lower (thermal store) tank section:

5 (4***) G 1" or G 6/4" F side connections to connect heating system and heat sources
 2 G 1" F side connections to connect solar thermal system
 2 6/4" F side connections to insert el. heating element
 4 G 1/2" F side connections to insert sheaths for temperature sensors, safety valve and pressure gauge

Upper tank section (DHW heating):

3 G 1" or G 6/4" F side connections to connect heat sources
 1 G 6/4" F side connection to install el. heating element
 3 G 1/2" F side connections to insert sheaths for temperature sensors and thermometer
 1 G 1/2" F top connection for air vent valve

Immersed DHW tank:

3 G 3/4" F top connections for cold water inlet, DHW recirculation and DHW outlet
 1 magnesium anode rod (G 3/4")

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	DHW tank volume [l]	Volume of supplied hot water [l]	HX surface area [m ²]	En. eff. class**	Code	Insulation code
DUO 390/130 N PR	1910	550	387	123	277	1.5	C	19139	19293
DUO 600/200 N PR	1935	650	546	174	457	2.4	-	19133	19321
DUO 750/200 N PR	1980	750	742	174	464	2.5	-	19135	19327
DUO 1000/200 N PR	2080	800	885	174	538	3.2	-	19149	19329
DUO 1700/200 N PR	2080	1100	1660	174	791	4.0	-	19145	19357

* diameter without connections, insulation

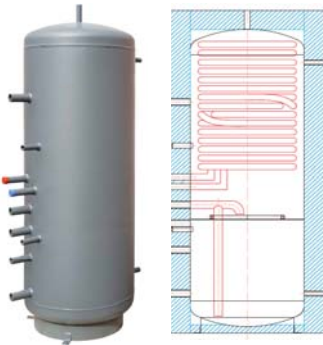
** The marking covers energy efficiency class of the thermal store with insulation. For thermal stores of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

*** DUO 390 models have 4 connections in its lower section. All connections of DUO 390 for connecting heat sources and heating systems have G 1" F thread.

THERMAL STORES WITH INSTANTANEOUS WATER HEATING

HSK K P-B Thermal Store with stainless steel DHW heat exchanger and tight separating metal sheet

Thermal Stores with a tight separating metal sheet and stainless-steel coil heat exchanger for continuous water heating are suitable for installations with heat pumps and RegulusBOX indoor unit. Thanks to a modified design and a tight separating metal sheet, just one zone valve is sufficient for diverting the heat between the upper and lower sections. The tight separating metal sheet contributes to the increase of SCOP of connected heat pumps.



Lower (thermal store) tank section:

3 G 1" F side connections to connect heating system and heat sources
2 G 1/2" F side connections to insert sheath for temperature sensor and safety valve

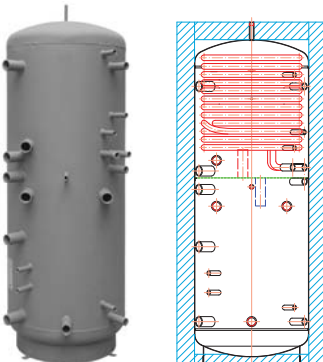
Upper tank section (DHW heating):

2 G 1" F side connections to connect heat sources
2 G 1" M side connections for cold water inlet and DHW outlet from a 6sqm DHW heat exchanger
2 G 1/2" F side connections to insert sheaths for temperature sensors and thermometer
1 G 1/2" F top connection for air vent valve

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	Volume of supplied hot water [l]***	DHW HX surface area [m ²]	En. eff. class**	Code	Insulation code
HSK 350 K P-B	1655	550	340	229	6	C	18628	18837

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.



Lower (thermal store) tank section:

5 (4****) G 1" or G 6/4" F side connections to connect heating system and heat sources
3 6/4" F side connections to insert el. heating element
4 G 1/2" F side connections to insert sheaths for temperature sensors, safety valve and pressure gauge

Upper tank section (DHW heating):

3 G 1" or G 6/4" F side connections to connect heat sources
2 G 1" M side connections for cold water inlet and DHW outlet from a 6sqm DHW heat exchanger
1 G 6/4" F side connection to install el. heating element
3 G 1/2" F side connections to insert sheaths for temperature sensors and thermometer
1 G 1/2" F top connection for air vent valve

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	Volume of supplied hot water [l]***	DHW HX surface area [m ²]	En. eff. class**	Code	Insulation code
HSK 390 P	1905	550	398	321	6	C	13517	18722
HSK 600 P	1935	650	560	468	6	-	14175	18724
HSK 750 P	1975	750	760	548	6	-	14178	18840
HSK 1000 P	2080	800	925	592	6	-	14555	18843
HSK 1700 P	2075	1100	1687	1072	6	-	14558	18846

* diameter without connections, insulation

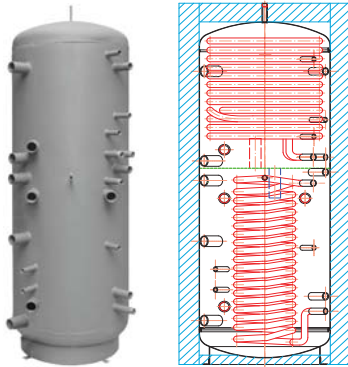
** The marking covers energy efficiency class of the thermal store with insulation. For thermal stores of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

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

**** The model HSK 390 P has 4 connections in its bottom section. All the connections of HSK 390 P designed for connecting heat sources and a heating system have a G1" F thread.

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 a PV system. The tank permits connection of other heat sources in various combinations. Besides a PV heating element located in the bottom part, also other electric heating elements can be installed into the tank, suitable for DHW and space heating.



Lower (thermal store) tank section:

5G 1" or G 6/4" F side connections to connect heating system and heat sources
 3G 6/4" F side connections to install el. heating element
 2G 1" M side connections for cold water inlet and preheated water outlet from a 3sqm heat exchanger
 4G 1/2" F side connections to insert sheaths for temperature sensors, safety valve and pressure gauge

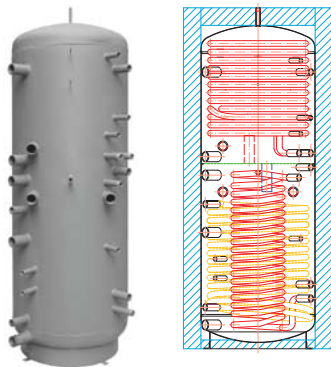
Upper tank section (DHW heating):

3G 1" or G 6/4" F side connections to connect heat sources
 2G 1" M side connections for cold water inlet and preheated water outlet from a 6sqm DHW heat exchanger
 1G 6/4" F side connection to install el. heating element
 3G 1/2" F side connections to insert sheaths for temperature sensors and thermometer
 1G 1/2" F top connection for air vent valve

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	Volume of supplied hot water [l]***	HX surface area [m ²]		Code	Insulation code
					upper DHW	lower DHW		
HSK 600 PV	1935	650	557	669	6	3	16158	18839
HSK 750 PV	1975	750	757	784	6	3	16177	18842
HSK 1000 PV	2080	800	922	846	6	3	16180	18845
HSK 1700 PV	2075	1100	1684	1533	6	3	16183	18848

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.



Lower (thermal store) tank section:

5 (4****) G 1" or G 6/4" F side connections to connect heating system and heat sources
 2G 1" F side connections to connect solar thermal system
 2G 6/4" F side connections to install el. heating element
 2G 1" M side connections for cold water inlet and preheated water outlet from a 3sqm heat exchanger****
 4G 1/2" F side connections to insert sheaths for temperature sensors, safety valve and pressure gauge
 2 M6 metal pins for pump station

Upper tank section (DHW heating):

3G 1" or G 6/4" F side connections to connect heat sources
 2G 1" M side connections for cold water inlet and preheated water outlet from a 6sqm DHW heat exchanger
 1G 6/4" F side connection to install el. heating element
 3G 1/2" F side connections to insert sheaths for temperature sensors and thermometer
 1G 1/2" F top connection for air vent valve

Model	Height [mm]	Diam.* [mm]	Total tank volume [l]	Volume of supplied hot water [l]***	HX surface area [m ²]			En. eff. class**	Code	Insulation code
					upper DHW	lower DHW	solar			
HSK 390 PR	1905	550	394	321	6	-	1.5	C	14172	18723
HSK 600 PR	1935	650	553	669	6	3	2.4	-	14187	18838
HSK 750 PR	1975	750	753	784	6	3	2.5	-	14190	18841
HSK 1000 PR	2080	800	916	846	6	3	3.2	-	14012	18844
HSK 1700 PR	2075	1100	1676	1533	6	3	4.0	-	14013	18847

* diameter without connections, insulation

** The marking covers energy efficiency class of the thermal store with insulation. For thermal stores of storage volume over 500l the labelling requirements do not apply, see Commission Regulation 812/2013.

*** Volume of supplied DHW for a Thermal Store heated up to 60° C and outgoing temperature of 40°C at 8 l/min. flow rate, no support heating

**** HSK 390 PR has only one stainless steel DHW heat exchanger of 6 sqm located in the upper tank section. 4 connections for connecting a heating circuit and heat sources are located in the lower tank section. They are all fitted with a G 1" F thread.

ACCESSORIES TO THERMAL STORES

Electronic Anode Rods

Kit for DUO thermal stores – code 13793



Tube Heat Exchangers

These heat exchangers are designed to transfer heat in Thermal Stores. They are made of finned copper tubes. Tube finning provides a large surface area and ensures better heat transfer. They differ in the size of heat transfer area, length, connection size, manner of winding and number of tubes. Upon agreement (for larger orders) it is possible to manufacture heat exchangers according to customer requirements.

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



Surface area [m ²]	Coil length [mm]	Coil diam. [mm]	Connection	Number of tubes	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 a 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 6230



G 3/4" connection, code 6231



G 1" connection, code 6232

Insulation (jacket)

Detachable 100mm thick fleece insulation is available for Thermal Stores. The inner „insulation“ part consists of fleece made of PE fibres, with white PUR leather on the surface. These insulations are detachable, with quick locks. The insulation kit involves also top and bottom insulations.

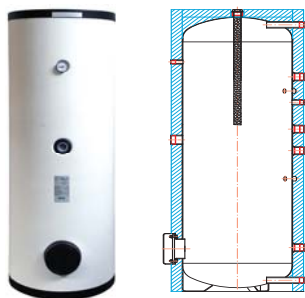


Thermal Stores installed in cooling systems can be supplied with special elastomeric insulation with a closed cell structure that prevents water vapor condensation.

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 enamelled 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.

STAINLESS STEEL HOT WATER STORAGE TANKS WITH ONE HEAT EXCHANGER

NBC Hot Water Storage Tanks - 1 large surface heat exchanger, outlets upwards

Hot water storage tank in stainless steel with upward facing outlets, integrated inner heat exchanger and a drain valve. It is fitted with a magnesium anode rod.

Designed for use in sets with a heat pump and RegulusBOX unit, this model has no connection for an electric heating element.

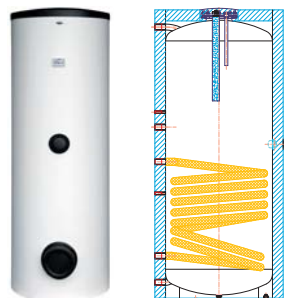


Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HX surface area [m ²]	En. eff. class**	Code
NBC 170 HP	171	1075	500	50	2	B	17615

The tank comes fitted with non-detachable insulation made of expanded PUR.

RDC Hot Water Storage Tanks

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



Model	Total volume [l]	Height [mm]	Diam. with insulation [mm]	Insulation thickness [mm]	HX surface area [m ²]	En. eff. class**	Code
RDC 160	157	1074	584	42	0.8	C	12772
RDC 200	216	1380	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

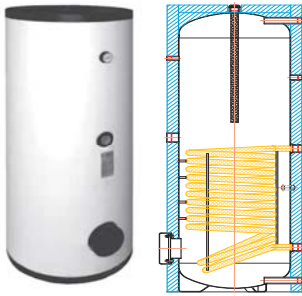
Only RDC 300 tank is fitted with a flange in the lower part. These tanks come with a non-detachable rigid PU insulation.

* diameter without connections, insulation

** 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

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

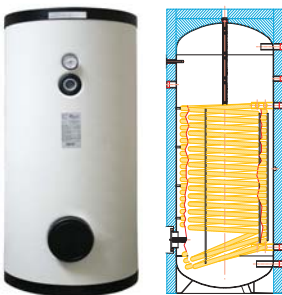


Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HX surface area [m ²]		En. eff. class**	Code
RBC 200	214	1265	500	50	1.5		C	3252
RBC 300	297	1710	500	55	1.7		C	3253
RBC 400	408	1655	600	55	1.9		C	6479
RBC 500	515	1785	650	55	2.5		C	6480
RBC 750	767	1870	790	80	3.4		-	4037
RBC 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.

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. Their inner surface is enamelled following the DIN 4753 standard. They are fitted with a magnesium anode rod.



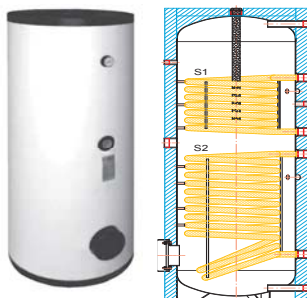
Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HX surface area [m ²]		En. eff. class**	Code
RBC 200 HP	205	1265	500	55	3		C	10534
RBC 300 HP 3.2	299	1710	500	52	3.2		C	18748
RBC 300 HP	299	1710	500	55	3.8		C	10535
RBC 400 HP	407	1655	600	55	5		C	10536
RBC 500 HP	509	1785	650	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.

HOT WATER STORAGE TANKS WITH TWO HEAT EXCHANGERS

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

R2BC Hot Water Storage Tanks



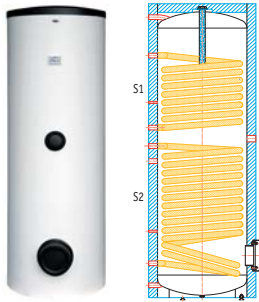
Model	Total volume [l]	Height [mm]	Diam.* [mm]	Insulation thickness [mm]	HX surface area [m ²]		En. eff. class**	Code
					lower	upper		
R2BC 200	212	1265	500	55	0.8	0.8	C	6481
R2BC 300	299	1710	500	55	1.5	0.9	C	6482
R2BC 400	420	1690	600	55	1.9	0.9	C	6483
R2BC 500	514	1780	650	55	1.9	0.9	C	6484
R2BC 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	4.8	3.5	-	12432
R2BC 3000	2841	2980	1200	100	5.2	3.8	-	8474

These tanks come with a detachable rigid PU insulation.

* diameter without connections, insulation

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

R2DC Hot Water Storage Tanks



Model	Total volume [l]	Height [mm]	Diam. with insulation [mm]	Insulation thickness [mm]	HX surface area [m ²]		En. eff. class	Code
					lower	upper		
R2DC 160	153	1074	584	42	0.8	0.7	C	13490
R2DC 200	216	1380	584	42	1	1	C	11351
R2DC 250	260	1560	584	42	1.5	1	C	12051
R2DC 300	293	1791	597	48.5	1.5	1	C	11352

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

* diameter without connections, insulation

** 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



Code	Kit for:
13793	DUO 390/130 - 1700/200, NBC 170 HP thermal stores
9173	RxDC 160, RxGC 300 K, RBC 200 hot water tanks
9174	RxDC 200-250, ROBC 200-500, RBC 300, R2BC 200-300 hot water tanks
17375	RBC 200-300 HP hot water tanks
17372	ROBC 750-1000 hot water tanks
17378	RxDC 300 hot water tanks (set of 2 anode rods)
17368	RBC 400-500, R2BC 400-500 hot water tanks (set of 2 anode rods)
17376	RBC 400-500 HP hot water tanks (set of 2 anode rods)
17369	RBC 750-1000, R2BC 750-1000 hot water tanks (set of 2 anode rods)
17377	RBC 750-1500 HP hot water tanks (set of 2 anode rods)
14429	RxBC 1500-2500, ROBC 3000 hot water tanks (set of 2 anode rods)
17371	RBC 3000, R2BC 3000 hot water tanks (set of 3 anode rods)

Tube Heat Exchanger



The heat exchanger is designed for use in RxBC and RxDC hot water storage tanks with flange. It serves for heat transfer from a solar thermal system or another heat source.

Surface area	m ²	0.94
Coil length	mm	400
Coil diam.	mm	110
Connections	--	3/4"
Code	-	8377

Flanges

Flanges for Tube Heat Exchangers:



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

Code	Tank model
12706	RxDC 300
8375	RxBC 200-300

Flanges for Electric Heating Elements:



An electric heating element can also be installed into the lower flange opening of RxBC 200-300 and RxDC 300 hot water storage tanks.

Code	Tank model
12707	RxDC 300
17199	RxBC 200-300



When installing an electric heating element in the flange of RBC 200 HP and RxBC 400-3000 hot water storage tanks, the magnesium anode rods shall be replaced with electronic anode rods. The flanges for these storage tanks have a 6/4" opening for the heating element and a 1/2" opening for the anode rod and are only supplied in sets with suitable electronic anode rods, see the current Catalogue for details.

Pressure Temperature Relief (PTR) Valves



PTR valves protect hot water storage tanks from exceeding preset maximum pressure or temperature values.

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

For easier installation of PTR valves into Regulus hot water storage tanks, we also offer sets of necessary fittings:

Code	Kit for:
17525	RGC 120 H, RxDC hot water storage tanks
17524	R0BC 200-750 hot water storage tanks
17526	RBC 200-400 (HP), R2BC 200-400 hot water storage tanks
17528	RBC 500-1000 (HP), R2BC 500-1000 hot water storage tanks
17529	R0BC 1000, RxBC 1500-3000 (HP) hot water storage tanks

Safety Kits



The safety kit is designed to protect the hot water storage tank from exceeding the maximum working pressure, to check the function of the check valve and to drain the tank. It includes a safety valve, a check valve with function check, ball valve, drain valve and pressure gauge.

For HW storage tanks up to 200l volume of DHW:		For HW storage tanks up to 1000l volume of DHW:	
Code	Safety valve	Code	Safety valve
17387	6 bar	18678	6 bar
18272	7 bar	18273	7 bar
18288	8 bar	18287	8 bar
18274	10 bar	18275	10 bar

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 thermal store.

If a HW tank or thermal store is fitted with a flanged opening, an electric heating element can be installed into the flange with anode rods as well. In such a case it is necessary to install also electronic anode rods instead of magnesium ones in high-volume HW storage tanks. For more details see the Kits section in the current Product Catalogue.

Possible combinations for installing electric heating elements in Regulus HW storage tanks and thermal stores

Tank/ Store model	No. of 4/6" connections to install EHE	Max. output of 3x230/400V EHE, no thermostat	Max. output of 3x230/400V EHE, with thermostat	Tank/ Store model	No. of 4/6" connections to install EHE	Max. output of 3x230/400V EHE, no thermostat	Max. output of 3x230/400V EHE, with thermostat
HOT WATER STORAGE TANKS				THERMAL STORES			
RxBC 200	1 ¹⁾	6 kW	5 kW	PSWF 300 N+	4	7.5 kW	7.5 kW
RxBC 300	1 ¹⁾	6 kW	5 kW	PSWF 500 N+	4	7.5 kW	7.5 kW
RxBC 400	1 ¹⁾	7.5 kW	7.5 kW	PSWF 800 N+	4	9 kW	9 kW
RxBC 500	1 ¹⁾	9 kW	7.5 kW	PSWF 1000 N+	4	9 kW	9 kW
RxBC 750	1 ¹⁾	12 kW	9 kW	PSWF 1500 N+	4	12 kW	9 kW
RxBC 1000	1 ¹⁾	12 kW	9 kW	PSWF 2000 N+	4	12 kW	9 kW
RxBC 1500	1 ¹⁾	12 kW	9 kW	PS 600 ES+	2 ²⁾	9 kW	8.2 kW
RxBC 2000	1 ¹⁾	12 kW	9 kW	PS 900 ES+	2 ²⁾	12 kW	9 kW
RxBC 2500	1 ¹⁾	12 kW	9 kW	PS 1100 ES+	2 ²⁾	12 kW	9 kW
RxBC 3000	1 ¹⁾	12 kW	9 kW	PS 500 E+	3 ²⁾	9 kW	7.5 kW
RBC 200 HP	1 ¹⁾	6 kW	5 kW	PS 750 E+	3 ²⁾	12 kW	9 kW
RBC 300 HP 3.2V	1 ¹⁾	4.5 kW	5 kW	PS 1000 E+	3 ²⁾	12 kW	9 kW
RBC 300 HP	1 ¹⁾	6 kW	5 kW	PS 1100 E+	3 ²⁾	12 kW	9 kW
RBC 400 HP	1 ¹⁾	7.5 kW	7.5 kW	PS 1250 E+	3 ²⁾	12 kW	9 kW
RBC 500 HP	1 ¹⁾	9 kW	7.5 kW	PS 80 Z	1	7.5 kW	7.5 kW
RBC 750 HP	1 ¹⁾	12 kW	9 kW	PS 200 N+	7 ²⁾	6 kW	5 kW
RBC 1000 HP	0 ¹⁾	12 kW	9 kW	PS, PS2F 300 N+	7 ²⁾	7.5 kW	7.5 kW
RBC 1500 HP	0 ¹⁾	12 kW	9 kW	PS 400 N+	7 ²⁾	7.5 kW	7.5 kW
RxDC 160	1	6 kW	5 kW	PS, PS2F 500 N+	7 ²⁾	9 kW	7.5 kW
RxDC 200	1	6 kW	5 kW	PS 600 N+	7 ²⁾	9 kW	8.2 kW
RxDC 250	1	6 kW	5 kW	PS 700 N+	7 ²⁾	9 kW	9 kW
RxDC 300	1 ¹⁾	6 kW	5 kW	PS, PS2F 800 N+	7 ²⁾	12 kW	9 kW
RGC 120 H	1	3 kW	2 kW	PS 900 N+	7 ²⁾	12 kW	9 kW
NBC 170 HP	0	0 kW	0 kW	PS, PS2F 1000 N+	7 ²⁾	12 kW	9 kW
THERMAL STORES WITH DHW				PS 1100 N+	7 ²⁾	12 kW	9 kW
DUO 390/130 x	3 ³⁾	5 kW	5 kW	PS, PS2F 1500 N+	7 ²⁾	12 kW	9 kW
DUO 600/200 x	3 ³⁾	5 kW	5 kW	PS, PS2F 2000 N+	7 ²⁾	12 kW	9 kW
DUO 750/200 x	3 ³⁾	7.5 kW	7.5 kW	PSxx 3000 N25	7 ²⁾	12 kW	9 kW
DUO 1000/200 x	3 ³⁾	8.2 kW	8.2 kW	PSxx 4000 N25	7 ²⁾	12 kW	9 kW
DUO 1700/200 x	3 ³⁾	12 kW	9 kW	PSxx 5000 N25	7 ²⁾	12 kW	9 kW
HSK 350 K P-B	0	0 kW	0 kW	PS 400 K+	7 ²⁾	9 kW	7.5 kW
HSK 390 x	3 ³⁾	6 kW	6 kW	PS 500 K+	7 ²⁾	9 kW	8.2 kW
HSK 600 x	3 ³⁾	6 kW	6 kW	PS 600 K+	7 ²⁾	9 kW	9 kW
HSK 750 x	3 ³⁾	8.2 kW	8.2 kW	PS 700 K+	7 ²⁾	12 kW	9 kW
HSK 1000 x	3 ³⁾	9 kW	9 kW	PS 900 K+	7 ²⁾	12 kW	9 kW
HSK 1700 x	3 ³⁾	12 kW	9 kW	PS 1100 K+	7 ²⁾	12 kW	9 kW

¹⁾ - the HW tank can be fitted with a flange w. connection to receive one more heating element - please consult its max. permitted output with our salesman

²⁾ - počet všech návarků G 6/4" pro připojení tepelných zdrojů

³⁾ - number of all G 6/4" connections to be connected to heat sources a PV powered heating element

⁴⁾ - all connections 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 thermal stores and HW tanks, except for RGC 120 H (2 kW).

