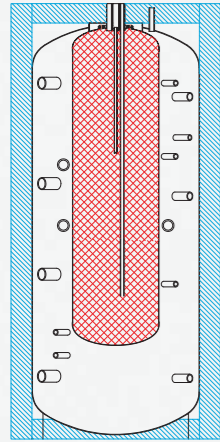




Thermal Stores with immersed DHW tank



DUO Thermal Store with immersed DHW tank



Model	Height [mm]	Diam.* [mm]	Tank volume [l]	Volume of supplied hot water [l]**	Code	Insulation code
DUO 390/130	1910	550	123	267	14 198	14 200
DUO 600/200	1935	650	190	440	14 201	14 203
DUO 750/200	1980	750	190	447	14 204	14 206
DUO 1000/200	2080	800	190	518	14 210	14 212
DUO 1700/200	2080	1100	190	762	14 213	14 215

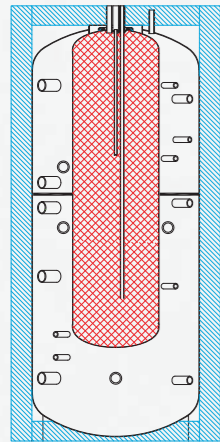
Thermal Store:

- 7 G 1" or G 6/4" F side ports - to connect heating system and heat sources
- 3 G 6/4" F side ports - to insert el. heating element
- 7 G 1/2" F side ports - to insert sheaths for temperature sensors
- 1 G 1/2" F top port - for air vent valve

Immersed DHW tank:

- 3 G 3/4" M top ports - in, out, recirculation
- 1 G 1/2" F top port - to insert a sheath for temperature sensor
- 1 magnesium anode rod (G 3/4")

DUO P Thermal Store with immersed DHW tank and stratification baffle

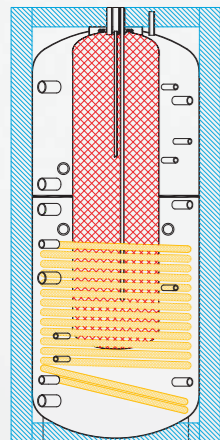


Model	Height [mm]	Diam.* [mm]	Tank volume [l]	Volume of supplied hot water [l]**	Code	Insulation code
DUO 390/130 P	1910	550	123	267	14 071	14 196
DUO 600/200 P	1935	650	190	440	14 272	14 281
DUO 750/200 P	1980	750	190	447	14 274	14 282
DUO 1000/200 P	2080	800	190	518	14 266	14 278
DUO 1700/200 P	2080	1100	190	762	14 268	17 279

Extra features of DUO P against DUO tanks:

- 1 G 1" or G 6/4" F side port - to connect heating system and heat sources
- 1 G 6/4" F side port - to insert el. heating element

DUO P Thermal Store with immersed DHW tank, stratification baffle and solar heat exchanger



Model	Height [mm]	Diam.* [mm]	Tank volume [l]	Volume of supplied hot water [l]**	Heat exchanger surface area [sqm]	Code	Insulation code
DUO 390/130 PR	1910	550	123	267	1,5	14 072	14 197
DUO 600/200 PR	1935	650	190	440	2,4	14 219	14 221
DUO 750/200 PR	1980	750	190	447	2,5	14 222	14 224
DUO 1000/200 PR	2080	800	190	518	3,2	14 125	14 127
DUO 1700/200 PR	2080	1100	190	762	4,0	14 228	14 230

Extra features of DUO PR against DUO tanks:

- 1 G 1" or G 6/4" F side port - to connect heating system and heat sources
- 2 G 6/4" F side ports - to connect heating system heat exchanger

* diameter without ports and insulation

** for tank heated to 60°C with 40°C outlet temperature at flowrate of 8 l/min., no backup

DUO THERMAL STORES

DUO Thermal Stores are fitted with an immersed DHW tank. They are designed to store heat from solar thermal systems, heat pumps, hydronic fireplace inserts and other heat sources. The immersed DHW tank is used by all the connected sources efficiently. The inner separation into two sections brings higher efficiency of alternative sources, more hot water supplied, and its longer accumulation even when the thermal store is exhausted for heating.

SUFFICIENT HOT WATER SUPPLY

Data sheets for separate tanks contain tables with the volume of hot water supplied under different conditions. As an illustration, one example for DUO 390/130 P thermal store:

Volume of hot water supplied (heated from 10°C to 40°C)

Heated volume	entire tank			entire tank			entire tank			tank top section		
Tank temperature	60 °C			60 °C			80 °C			60 °C		
Backup heating	10 kW			none			none			10 kW		
Flow rate [l/min]	8	12	20	8	12	20	8	12	20	8	12	20
Hot water volume [l]	325	219	175	267	230	195	543	511	392	152	132	124

INSULATION

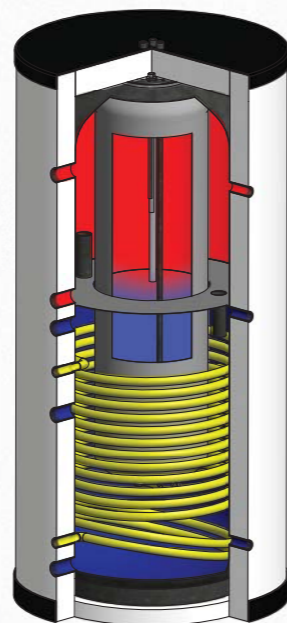
We supply high quality insulation sets, incl. bottom insulation. This way the energy efficiency class C is reached.

ADVANTAGES OF THERMAL STORES WITH STRATIFICATION BAFFLE

Energy savings due to a higher efficiency of a heat pump as well as of a solar thermal system during heating the bottom section.

Hot water supply remains available even when the bottom section for heating is exhausted.

Possibility to launch additional energy sources separately for heating and separately for hot water, after a solid fuel boiler is extinguished and heat from the thermal store exhausted.



ACCESSORIES

Electronic anode rod

The tank is supplied with a magnesium anode rod as standard. It can be replaced by an electronic anode rod, which avoids the necessity of regular replacements. At the same time, this brings a prolonged warranty in case if also a DHW expansion vessel is installed.

Pump station

The tank is fitted with 2 pins designed to support a pump station. When hung directly on a tank, the pump station offers easier installation and needs shorter connection piping.

Kits with plate heat exchanger

As accessories we offer also a kit with a plate heat exchanger and pump or a kit with a plate heat exchanger, pump and zone valves. These kits facilitate connecting a solar thermal system even to tanks without a tube heat exchanger, or of solar thermal systems with a large collector area. The kit with zone valves permits diverting heat into either the upper or lower section.

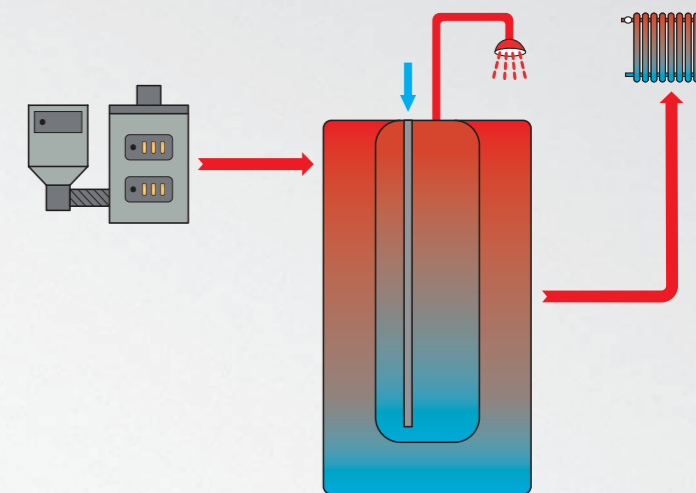


DUO

DUO Thermal Store with immersed DHW tank, no stratification baffle

This thermal store is intended for use with an automatic coal or pellet boiler as the main heat source for space and DHW heating. The system can be upgraded with electric heating elements for home backup heating or background heating during winter holidays or background heating in summer cottages.

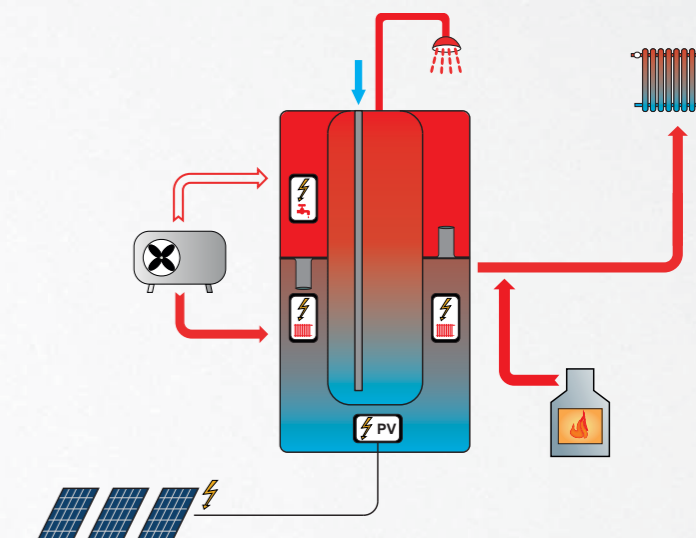
Another heating element can be also installed for DHW heating in the summer when boiler operation just for hot water heating alone would be uneconomic.



DUO P

DUO Thermal Store with immersed DHW tank and stratification baffle

This thermal store is mostly installed in systems with a heat pump as the main heat source for both space and DHW heating, with a hydronic fireplace insert, with electric heating elements for home heating, background heating or out-of-season DHW heating. The existing electric boiler, gas-fired boiler or any other boiler can be connected to the tank, or any other combination of the sources mentioned. The tank permits installation of a heating element that uses electricity surplus from PV panels in the entire volume of the tank.



DUO PR

Thermal Store with immersed DHW tank, stratification baffle and solar heat exchanger

This thermal store is equipped with a solar heat exchanger that permits utilizing the solar thermal system for both DHW and space heating. A heat pump, hydronic fireplace insert, gas-fired or any other boiler can be used as the main heat source, including any combination of the sources mentioned. Besides that, also electric heating elements can be installed for home heating, background heating or out-of-season DHW heating.

