

| Model                                   |                | AP 400 2WSE | AP 750 3WS | AP 750 ZE | AP 750 Z3WS |
|---|----------------|-------------|------------|-----------|-------------|
| Number of heat exchangers *             |                | 2           | 3          | 0         | 3           |
| Sleeve for el. immersion heater         |                | G 6/4"      | -          | G 6/4"    | -           |
| Max. tank temperature                   | °C             | 95          | 95         | 95        | 95          |
| Max. tank pressure                      | bar            | 3           | 3          | 3         | 3           |
| Max. heat exchanger pressure            | bar            | 10          | 10         | -         | 10          |
| Total tank volume                       | l              | 396         | 729        | 734       | 729         |
| Heating fluid volume in tank            | l              | 373         | 690        | 734       | 690         |
| DHW heat exchanger volume               | l              | 17          | 23         | -         | 23          |
| Upper solar heat exchanger volume       | l              | -           | 7.6        | -         | 7.6         |
| Lower solar heat exchanger volume       | l              | 6.2         | 8.2        | -         | 8.2         |
| DHW heat exchanger surface area         | m <sup>2</sup> | 4.68        | 5.35       | -         | 5.35        |
| Upper solar heat exchanger surface area | m <sup>2</sup> | -           | 1.78       | -         | 1.78        |
| Lower solar heat exchanger surface area | m <sup>2</sup> | 1.45        | 1.91       | -         | 1.91        |
| Heat loss - liquid 60°C, air 20°C       | kWh/24h        | 0.8         | 1.2        | 1.2       | 1.2         |
| DHW heating output at 60°C/10°C/45°C    | kW             | 76          | 90         | -         | 90          |
| DHW performance at 60°C/10°C/45°C       | l / min        | 31          | 37         | -         | 37          |
| Code                                    |                | 11889       | 11888      | 11887     | 11886       |

\* Different configuration upon order.

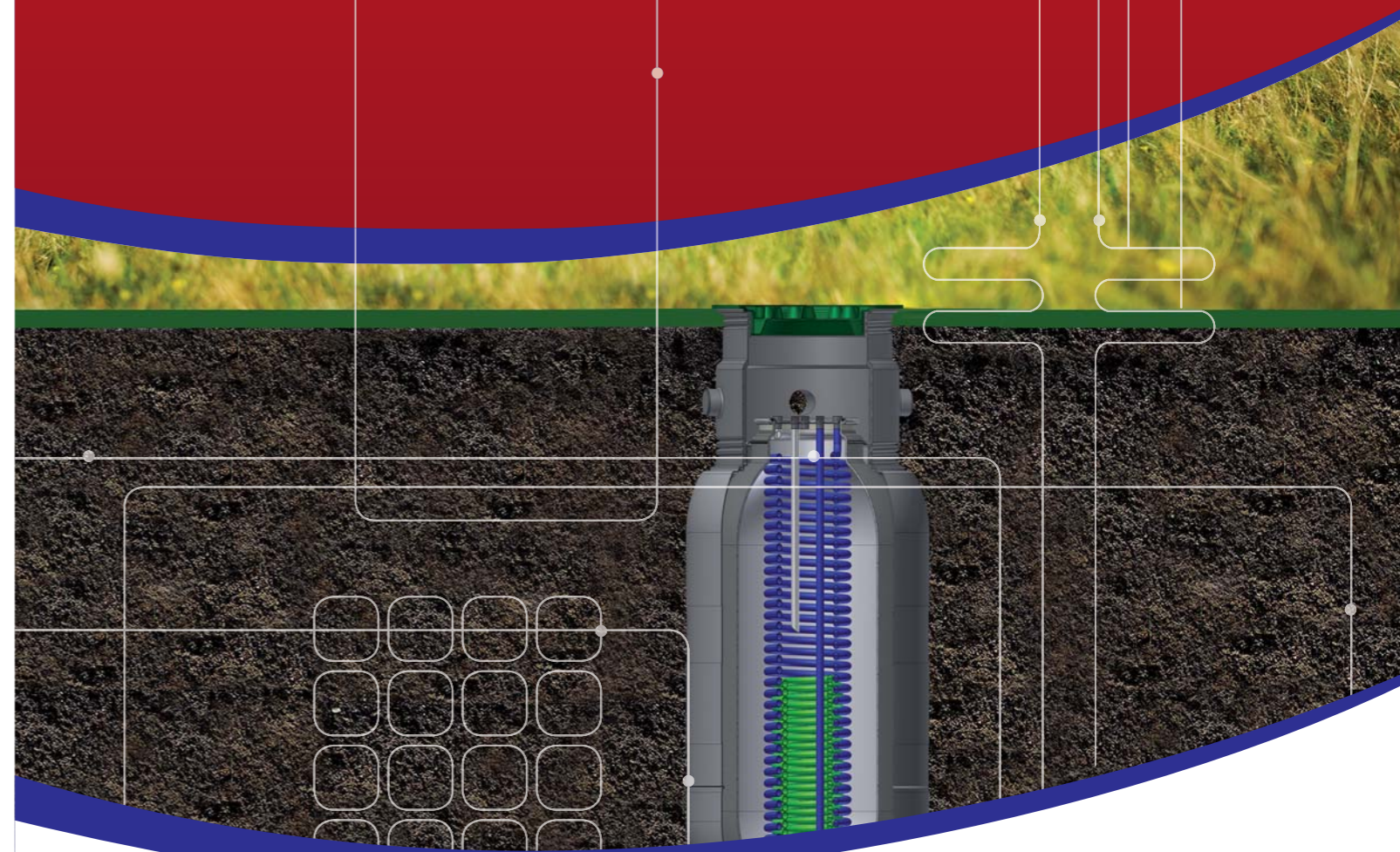


|                      |      | AP 400 2WSE | AP 750 3WS | AP 750 ZE | AP 750 Z3WS |
|----------------------|------|-------------|------------|-----------|-------------|
| H                    | [mm] | 1982        | 2160       | 2510      | 2510        |
| H1                   | [mm] | -           | -          | 440       | 440         |
| D (incl. insulation) | [mm] | 790         | 1006       | 960       | 960         |
| D (excl. insulation) | [mm] | -           | 800        | -         | -           |
| D1                   | [mm] | 620         | 800        | 800       | 800         |
| D2                   | [mm] | 610         | 610        | 756       | 756         |
| Weight               | [kg] | 119         | 149        | 121       | 160         |

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# AkuPlast Heat Accumulation Tank

Unique plastic pressure heat accumulation tank



# Regulus

Energy-saving solutions

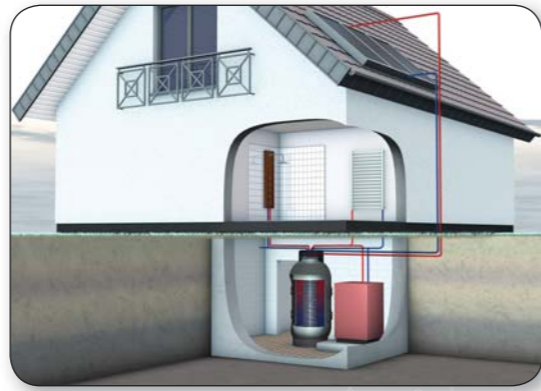


Regulus spol. s r.o., Czech Republic  
Do Koutů 1897/3, 143 00 Praha 4  
Tel.: ++420 241 765 191, Fax: ++420 241 763 976  
E-mail: sales@regulus.cz  
Web: www.regulus.eu

## AkuPlast

- » Extremely low thermal loss
- » Some models to be buried underground
- » Long service life
- » New type of thermally stable plastic

- » AP750 model fitted with a detachable insulation, enabling to pass through 80cm door
- » Resistant, washable plastic surface
- » Compact design, all ports at the top
- » Made in Germany



### Extremely low thermal loss

Inner plastic pressure vessel is embedded in a precisely shaped hard polyurethane insulation with a resistant, washable plastic mantle. Thermal loss is reduced to minimum even when the vessel is buried underground.

### Can be installed outside a house - underground version

Should you lack place for installing a thermal store inside your home, you chose use an APZ thermal store and bury it underground next to your house. Its presence will be marked by its plastic lid only. As its insulation properties are excellent, its heat loss will be markedly lower than in a standard accumulation tank. The plastic material used guarantees a long service life (expected 50 years at 60°C water temperature inside the tank).

### Advantages of a pressure version of thermal store

This pressure heat accumulation tank is filled with heating water. It is charged directly from a boiler or a heat pump, discharged directly into a radiator circuit. In plastic pressureless tanks currently available on the market charging and discharging needs to be performed via heat exchangers.

### Models also with integrated stainless steel heat exchangers for solar heating and DHW heating

There are models available that are designed purely for heating water accumulation (suitable e.g. for wood-fired boilers, hydronic fireplace inserts) as well as models with integrated heat exchangers. The latter enable DHW heating (the water to be heated rises gradually from the bottom, cooling the lower tank section which increases the efficiency of solar collectors) and heating the tank from solar collectors. In some models, the upper tank section is fitted with another heat exchanger or a socket for an electric immersion heating element.

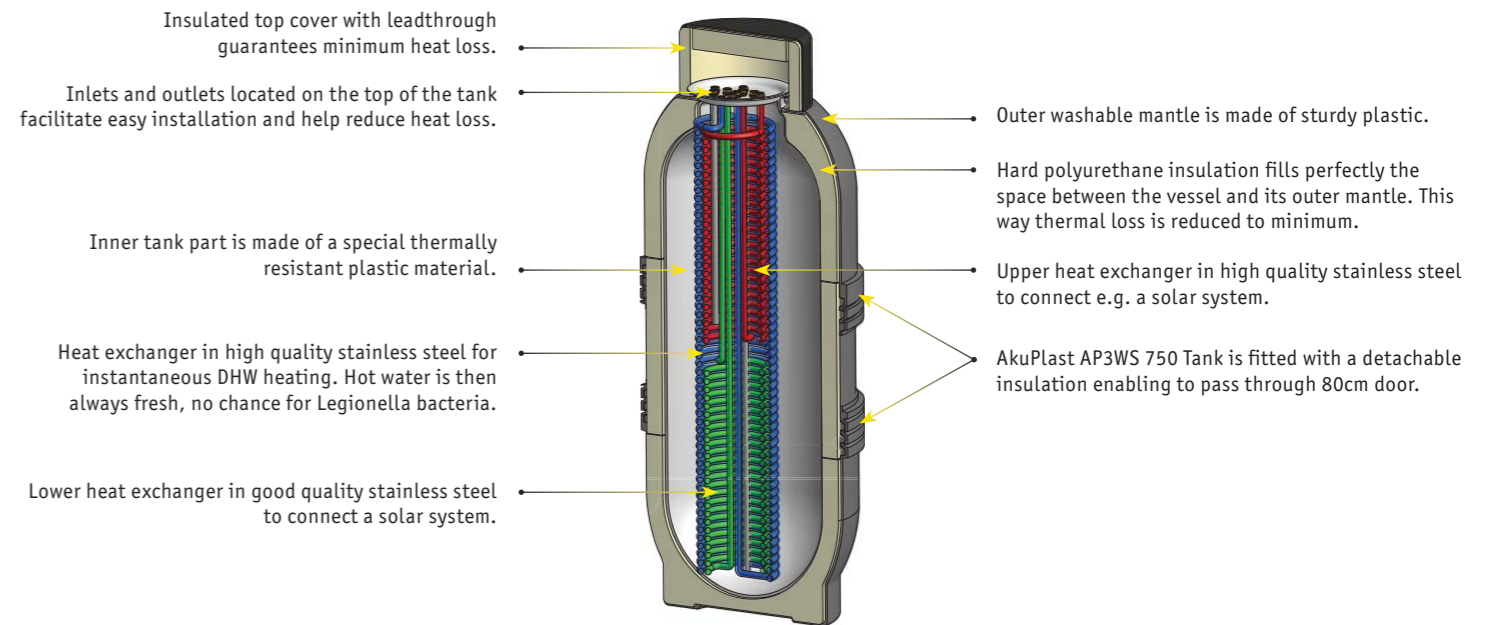
### Variable connections and stratification

Four inlets/outlets for heating water - two in the top, one middle and one lower with a special anti swirl end - enable to control temperature layering in the tank (stratification) and so increase the efficiency of renewable energy sources - solar collectors, heat pumps or advanced condensing boilers.

## Components of AkuPlast Accumulation Tank

- » The inner tank part is made of a special thermally resistant plastic material
- » High quality insulation made of hard polyurethane
- » Outer mantle in washable, robust plastic
- » Heat loss substantially lower than in plain steel tanks
- » Heat exchangers in the tank made of high quality stainless steel
- » Instantaneous DHW heating prevents formation of Legionella bacteria
- » Can be buried underground (APZ model)

### AkuPlast AP - indoor model



### AkuPlast APZ - underground model

