

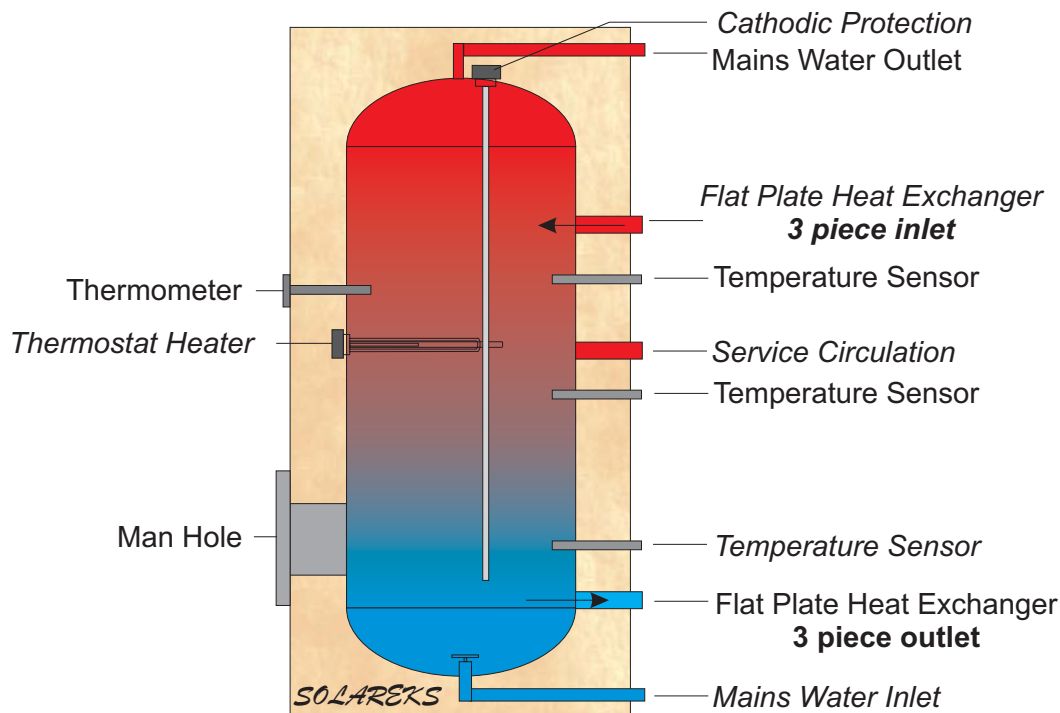
# AQUA BOILER

## Accumulator Tank

SOLAREKS - AQUA BOILER

## Accumulator Tank for Usage Water

The Accumulator Tank for usage water stores the heated water to provide hot water when needed. It is mainly used in the areas where the water consumption is much and there is an existing heat exchanger in the heating system of the building. Main usage areas are hotels,apartments,factories,industrial processes, sports centers and villa etc. The accumulator tank can be used with three kind of heat source at the same time.



## Technical Properties

### 1- Corrosion protection and hygiene

Accumulator tanks are produced with 304 quality stainless steel and protected with cathodic protection against corrosion to have a longer useful life. Cause the stainless steel is used more hygien is obtained.

### 2- Insulation

Accumulator tanks are insulated with rockwool.

### 3- Wide Usage

The accumulator tanks can operate with mains water pressure. The tanks may be used with solid/fuel/gas boiler, solar energy, heat pump and waste energy systems.

### 4- Thermostat Heater

If the water is heated by solar energy, heat pump and waste energy systems or where the final temperature of the water is sensitive the thermostat heater may be used to get the final water temperature.

### 5- Automatic Control

The accumulator tanks can be controlled by the automatic controllers that may be supplied by our company. Please get in touch for more details.

## Accumulator Tank for Usage Water

### 6- Transportation

The accumulator tanks up to 600 lt can be carried by human force. The accumulators that are above 350 lt, outer coverage can be taken off for an easy carriage where needed. The accumulators can be carried by forklift or crane.

### 7- Aesthetic

Thus the tanks outer coverage is made of brushed decorative stainless steel it is aesthetic, may be used at the outside of the buildings.



## Technical Details

| Capacity                                     | 100 lt   | 160 lt       | 200 lt       | 300 lt       | 350 lt       | 500 lt       | 600 lt       | 750 lt       |
|--|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Corrosion Protection                         | 304 Quality Stainless Steel  |              |              |              |              |              |              |              |
| Outer Coverage                               | Decorative Brushed Stainless Steel                                 |              |              |              |              |              |              |              |
| Insulation                                   | Rock Wool  |              |              |              |              |              |              |              |
| Dimensions (mm)                              | 1000 x Ø 500   | 1300 x Ø 550 | 1300 x Ø 600 | 1560 x Ø 650 | 1480 x Ø 700 | 1830 x Ø 780 | 1700 x Ø 850 | 1850 x Ø 900 |
| Dimensions without Insulation&Outer Coverage | -  | -            | -            | -            | -            | 1750 x Ø 640 | 1620 x Ø 750 | 1700 x Ø 800 |
| Weight (G/Ss)* (kg)                          | 55/40  | 73/58        | 85/73        | 110/89       | 115/96       | 154/127      | 194/140      | 213/185      |
| Working Pressure                             | 6 bar  |              |              |              |              |              |              |              |
| Test Pressure                                | 12 bar   |              |              |              |              |              |              |              |
| Thermostat Heater                            | Optional - The capacity is determined according to project details |              |              |              |              |              |              |              |

| Capacity                                     | 1000 lt  | 1500 lt       | 2000 lt       | 2500 lt       | 3000 lt       | 4000 lt       | 5000 lt       |
|--|--|---------------|---------------|---------------|---------------|---------------|---------------|
| Corrosion Protection                         | 304 Quality Stainless Steel  |               |               |               |               |               |               |
| Outer Coverage                               | Decorative Brushed Stainless Steel                                 |               |               |               |               |               |               |
| Insulation                                   | Rock Wool  |               |               |               |               |               |               |
| Dimensions (mm)                              | 2090 x Ø 990   | 2050 x Ø 1300 | 2190 x Ø 1390 | 2150 x Ø 1600 | 2190 x Ø 1640 | 2200 x Ø 1890 | 2200 x Ø 2090 |
| Dimensions without Insulation&Outer Coverage | 2000 x Ø 850   | 1950 x Ø 1200 | 2100 x Ø 1250 | 2060 x Ø 1500 | 2100 x Ø 1500 | 2100 x Ø 1750 | 2100 x Ø 1950 |
| Weight                                       | 305/253  | 493/375       | 635/550       | 745/645       | 820/725       | 1060/948      | 1345/1225     |
| Working Pressure                             | 6 bar  |               |               |               |               |               |               |
| Test Pressure                                | 12 bar   |               |               |               |               |               |               |
| Thermostat Heater                            | Optional - The capacity is determined according to project details |               |               |               |               |               |               |

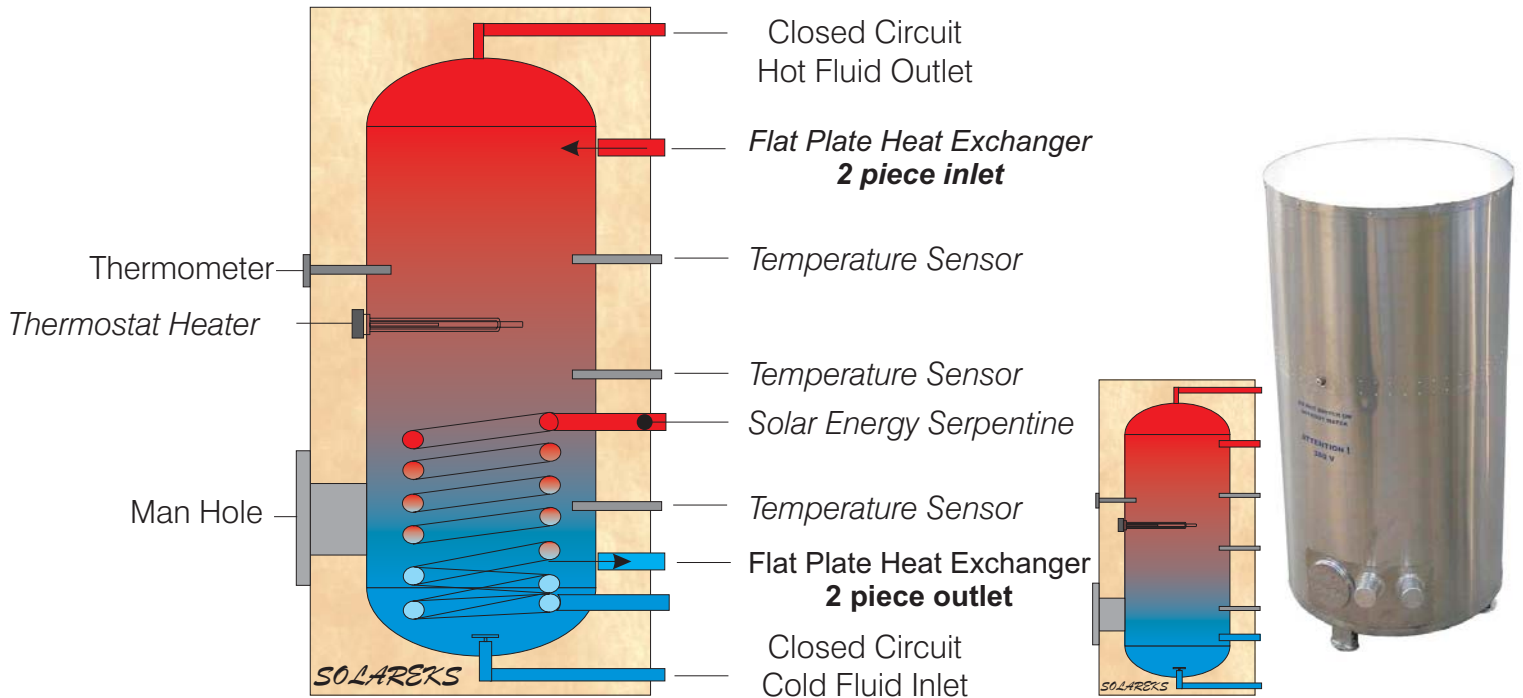
\* G/Ss: Galvanized accumulator tank weight / Stainless steel accumulator tank weight

## Options

- The accumulator tanks are produced also by hot deep galvanizing process and glasswool insulation, for more details please contact our company.
- The tank capacities that are greater than 500 lt which has a electrical heater capacity greater than 6 kW may be produced with control panel.

## Accumulator Tank for Closed Loop System

Accumulator tanks for closed loop are used to storage the heated water&special heat transfer fluid in order to use for home heating and industrial processes. The tanks are produced with single serpentine or without serpentine. The stored fluid may be used for home heating and industrial processes. The accumulator tank can be used with three kind of heat source at the same time.



### Technical Properties

#### 1- Corrosion Protection

The Accumulator Tank for Closed Loop System is designed to be used in only closed loop system applications. That's why there is no corrosion protection is made. **The tanks must be used in only closed loop system applications which is not directly connected to the mains water pressure.**

#### 2- Insulation

Accumulator tanks are insulated with rockwool.

#### 3- Wide Usage

The accumulator tanks can operate only in closed loop systems. The tanks may be used with solid/fuel/gas boiler, solar energy, heat pump and waste energy systems.

#### 4- Thermostat Heater

If the water is heated by solar energy, heat pump and waste energy systems or where the final temperature of the water is sensitive the thermostat heater may be used to get the final water temperature.

#### 5- Automatic Control

The accumulator tanks can be controlled by the automatic controllers that may be supplied by our company. Please get in touch for more details.

## Accumulator Tank for Closed Loop System

### 6- Transportation

The accumulator tanks up to 600 lt can be carried by human force. The accumulators that are above 350 lt, outer coverage can be taken off for an easy carriage where needed. The accumulators can be carried by forklift or crane.

### 7- Aesthetic

Thus the tanks outer coverage is made of brushed decorative stainless steel it is aesthetic, may be used at the outside of the buildings.



## Technical Details

| Capacity                                     | 500 lt   | 600 lt       | 750 lt       | 1000 lt      | 1500 lt       | 2000 lt       | 2500 lt       | 3000 lt       |
|--|--|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| Corrosion Protection                         | Black sheet - Suitable for closed loop applications                |              |              |              |               |               |               |               |
| Outer Coverage                               | Decorative Brushed Stainless Steel                                 |              |              |              |               |               |               |               |
| Insulation                                   | Rock Wool  |              |              |              |               |               |               |               |
| Dimensions (mm)                              | 1830 x Ø 780   | 1700 x Ø 850 | 1850 x Ø 900 | 2090 x Ø 990 | 2050 x Ø 1300 | 2190 x Ø 1390 | 2150 x Ø 1600 | 2190 x Ø 1640 |
| Dimensions without Insulation&Outer Coverage | 1750 x Ø 640   | 1620 x Ø 750 | 1700 x Ø 800 | 2000 x Ø 850 | 1950 x Ø 1200 | 2100 x Ø 1250 | 2060 x Ø 1500 | 2100 x Ø 1500 |
| Weight (Ws/S)* (kg)                          | 154/209  | 194/252      | 213/285      | 241/335      | 392/535       | 560/760       | 660/910       | 780/1090      |
| Working Pressure                             | 4 bar  |              |              |              |               |               |               |               |
| Test Pressure                                | 8 bar  |              |              |              |               |               |               |               |
| Thermostat Heater                            | Optional - The capacity is determined according to project details |              |              |              |               |               |               |               |

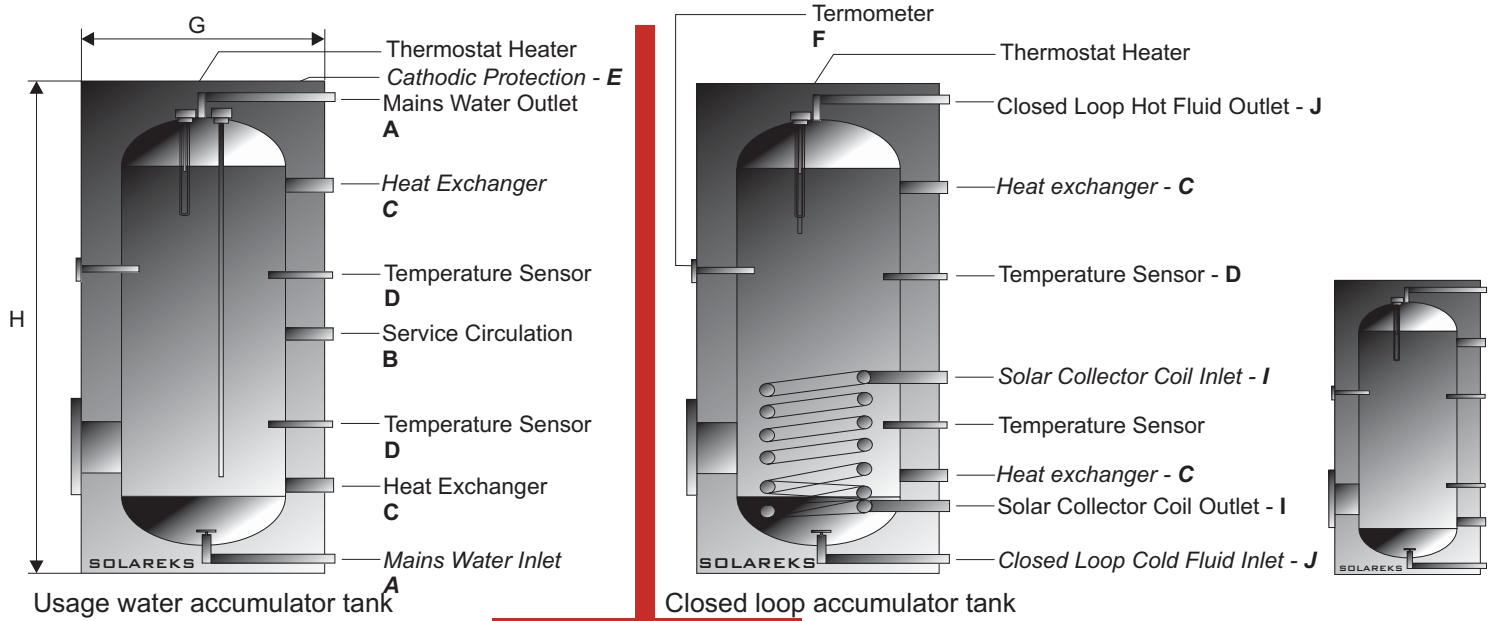
| Capacity                                     | 4000 lt  | 5000 lt       |
|--|--|---------------|
| Corrosion Protection                         | Black sheet - Suitable for closed loop applications                |               |
| Outer Coverage                               | Decorative Brushed Stainless Steel                                 |               |
| Insulation                                   | Rock Wool  |               |
| Dimensions (mm)                              | 2200 x Ø 1890  | 2200 x Ø 2090 |
| Dimensions without Insulation&Outer Coverage | 2100 x Ø 1750  | 2100 x Ø 1950 |
| Weight                                       | 1030/1460  | 1350/1860     |
| Working Pressure                             | 4 bar  |               |
| Test Pressure                                | 8 bar  |               |
| Thermostat Heater                            | Optional - The capacity is determined according to project details |               |

\* Ws/S: Acc. Tank without serpentine weight / Accumulator tank with single serpentine weight

## Options

- The tank capacities that are greater than 500 lt which has a electrical heater capacity greater than 6 kW may be produced with control panel.

## Product Dimensions



### Usage water accumulator tank

| Capacity                         | 100 lt | 160 lt | 200 lt | 300 lt | 350 lt | 500 lt | 600 lt | 750 lt | 1000 lt | 1500 lt | 2000 lt | 2500 lt | 3000 lt |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| A- Mains Water Inlet&Outlet      | 3/4"   | 3/4"   | 3/4"   | 1"     | 1"     | 1"     | 1"     | 1 1/4" | 1 1/4"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 2"      |
| B- Service Circulation           | 3/4"   | 3/4"   | 3/4"   | 1"     | 1"     | 1"     | 1"     | 1 1/4" | 1 1/4"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 2"      |
| C- Heat Exchanger Inlet/Outlet*  | 1"     | 1"     | 1"     | 1"     | 1"     | 1"     | 1"     | 1"     | 1 1/4"  | 1 1/4"  | 1 1/4"  | 1 1/4"  | 1 1/2"  |
| D- Sensor Inlet                  | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| E- Cathodic Protection-Ø 26 (mm) | 700    | 700    | 700    | 700    | 700    | 1400   | 1400   | 1400   | 1400    | 1400    | 2800    | 2800    | 2800    |
| F- Thermometer Inlet             | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| G- Diameter (mm)                 | 500    | 550    | 600    | 650    | 700    | 780    | 850    | 900    | 990     | 1300    | 1390    | 1600    | 1640    |
| H- Height (mm)                   | 1000   | 1300   | 1300   | 1560   | 1480   | 1830   | 1700   | 1850   | 2090    | 2050    | 2190    | 2150    | 2190    |

| Capacity                         | 4000 lt | 5000 lt |
|----------------------------------|---------|---------|
| A- Mains Water Inlet&Outlet      | 2 1/2"  | 2 1/2"  |
| B- Service Circulation           | 2 1/2"  | 2 1/2"  |
| C- Heat Exchanger Inlet/Outlet*  | 2"      | 2"      |
| D- Sensor Inlet                  | 1/2"    | 1/2"    |
| E- Cathodic Protection-Ø 26 (mm) | 4200    | 4200    |
| F- Thermometer Inlet             | 1/2"    | 1/2"    |
| G- Diameter (mm)                 | 1890    | 2090    |
| H- Height (mm)                   | 2200    | 2200    |

\* The aforesaid accumulator tanks every heat exchanger inlet&outlet diameters are at the same diameter

### Closed loop accumulator tank

| Capacity                        | 500 lt | 600 lt | 750 lt | 1000 lt | 1500 lt | 2000 lt | 2500 lt | 3000 lt | 4000 lt | 5000 lt |
|---------------------------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| C- Heat Exchanger Inlet/Outlet* | 1"     | 1"     | 1"     | 1 1/4"  | 1 1/4"  | 1 1/4"  | 1 1/4"  | 1 1/2"  | 2"      | 2"      |
| D- Sensor Inlet                 | 1/2"   | 1/2"   | 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| F- Thermometer Inlet            | 1/2"   | 1/2"   | 1/2"   | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    | 1/2"    |
| G- Diameter (mm)                | 780    | 850    | 900    | 990     | 1300    | 1390    | 1600    | 1640    | 1890    | 2090    |
| H- Height (mm)                  | 1830   | 1700   | 1850   | 2090    | 2050    | 2190    | 2150    | 2190    | 2200    | 2200    |
| I- Serpentine Inlet/Outlet      | 1"     | 1"     | 1"     | 1"      | 1"      | 1 1/4"  | 1 1/4"  | 1 1/2"  | 2"      | 2"      |
| J- Fluid Inlet&Outlet           | 1"     | 1"     | 1 1/4" | 1 1/4"  | 1 1/2"  | 1 1/2"  | 1 1/2"  | 2"      | 2 1/2"  | 2 1/2"  |

\* The aforesaid accumulator tanks every heat exchanger inlet&outlet diameters are at the same diameter



## PACKING DETAILS

### Accumulator Tank for Usage Water

| Product        | Packing Details             |
|----------------|-----------------------------|
| <b>100 lt</b>  | Wooden Box and Bubled Nylon |
| <b>160 lt</b>  | Wooden Box and Bubled Nylon |
| <b>200 lt</b>  | Wooden Box and Bubled Nylon |
| <b>300 lt</b>  | Wooden Box and Bubled Nylon |
| <b>350 lt</b>  | Wooden Box and Bubled Nylon |
| <b>500 lt</b>  | Wooden Box and Bubled Nylon |
| <b>600 lt</b>  | Wooden Box and Bubled Nylon |
| <b>750 lt</b>  | Wooden Box and Bubled Nylon |
| <b>1000 lt</b> | Wooden Box and Bubled Nylon |
| <b>1500 lt</b> | Wooden Box and Bubled Nylon |
| <b>2000 lt</b> | Wooden Box and Bubled Nylon |
| <b>2500 lt</b> | Wooden Box and Bubled Nylon |
| <b>3000 lt</b> | Wooden Box and Bubled Nylon |
| <b>4000 lt</b> | Wooden Box and Bubled Nylon |
| <b>5000 lt</b> | Wooden Box and Bubled Nylon |

### Accumulator Tank for Closed Loop System

| Product        | Packing Details             |
|----------------|-----------------------------|
| <b>500 lt</b>  | Wooden Box and Bubled Nylon |
| <b>600 lt</b>  | Wooden Box and Bubled Nylon |
| <b>750 lt</b>  | Wooden Box and Bubled Nylon |
| <b>1000 lt</b> | Wooden Box and Bubled Nylon |
| <b>1500 lt</b> | Wooden Box and Bubled Nylon |
| <b>2000 lt</b> | Wooden Box and Bubled Nylon |
| <b>2500 lt</b> | Wooden Box and Bubled Nylon |
| <b>3000 lt</b> | Wooden Box and Bubled Nylon |
| <b>4000 lt</b> | Wooden Box and Bubled Nylon |
| <b>5000 lt</b> | Wooden Box and Bubled Nylon |

### Accumulator Tank for Usage Water

| Product       | Volume (m <sup>3</sup> ) | Weight (G/Ss)* (kg) |
|---------------|--------------------------|---------------------|
| <b>100 lt</b> | 0,34                     | 88/73               |
| <b>160 lt</b> | 0,52                     | 118/103             |
| <b>200 lt</b> | 0,60                     | 130/118             |
| <b>300 lt</b> | 0,82                     | 155/134             |
| <b>350 lt</b> | 0,90                     | 161/142             |
| <b>500 lt</b> | 1,34                     | 250/223             |
| <b>600 lt</b> | 1,47                     | 290/236             |
| <b>750 lt</b> | 1,77                     | 309/281             |

| Product        | Volume (m <sup>3</sup> ) | Weight (G/Ss)* (kg) |
|----------------|--------------------------|---------------------|
| <b>1000 lt</b> | 2,40                     | 405/353             |
| <b>1500 lt</b> | 4,0                      | 610/492             |
| <b>2000 lt</b> | 5,0                      | 867/667             |
| <b>2500 lt</b> | 6,30                     | 932/837             |
| <b>3000 lt</b> | 6,80                     | 1012/915            |
| <b>4000 lt</b> | 8,90                     | 1250/1140           |
| <b>5000 lt</b> | 10,70                    | 1575/1456           |

\* G/Ss: Galvanized accumulator tank weight / Stainless steel accumulator tank weight with wooden boxes

### Accumulator Tank for Closed Loop System - Single Serpentine -

| Product        | Volume (m <sup>3</sup> ) | Weight (kg)* |
|----------------|--------------------------|--------------|
| <b>500 lt</b>  | 1,34                     | 305          |
| <b>600 lt</b>  | 1,47                     | 348          |
| <b>750 lt</b>  | 1,77                     | 380          |
| <b>1000 lt</b> | 2,40                     | 435          |
| <b>1500 lt</b> | 4,0                      | 650          |
| <b>2000 lt</b> | 5,0                      | 877          |
| <b>2500 lt</b> | 6,30                     | 1100         |
| <b>3000 lt</b> | 6,80                     | 1230         |
| <b>4000 lt</b> | 8,90                     | 1650         |
| <b>5000 lt</b> | 10,70                    | 2090         |

\* Wooden boxes are included in the weights



## PACKING DETAILS

### Accumulator Tank for Closed Loop System - Without Serpentine

| Product        | Volume (m <sup>3</sup> ) | Weight (kg)* |
|----------------|--------------------------|--------------|
| <b>500 lt</b>  | 1,34                     | 250          |
| <b>600 lt</b>  | 1,47                     | 290          |
| <b>750 lt</b>  | 1,77                     | 309          |
| <b>1000 lt</b> | 2,40                     | 341          |
| <b>1500 lt</b> | 4,0                      | 510          |
| <b>2000 lt</b> | 5,0                      | 677          |
| <b>2500 lt</b> | 6,30                     | 850          |
| <b>3000 lt</b> | 6,80                     | 970          |
| <b>4000 lt</b> | 8,90                     | 1225         |
| <b>5000 lt</b> | 10,70                    | 1580         |

\* Wooden boxes are included in the weights



**SOLAREKS AQUA BOILER**

Note: Product total volumes and weights may change about % 5 according to project details and transportation types.

## SOLAREKS Contact Details

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