



150L Thermosiphon system installation in Nairobi, 2016

**ecolution**  
THERMOSIPHONIC TANK



Closed loop, Horizontal, coupled thermosiphon solar water heating systems ranging from 150L to 300L. Manufactured in Europe and designed to work in the harsh African conditions. Working fluid never mixes with the domestic water hence reducing corrosion in the collector and tank providing an extended lifetime.

Our systems come complete with all necessary fittings from the manufacturer which include the following: -

- Flat plate solar collectors
- Insulated storage tank
- Insulated, stainless steel connection pipes between tank and collectors
- All necessary brass fittings
- Temperature and pressure safety relief valves
- Expansion tank for glycol
- Glycol Fluid
- Check valves
- Standard galvanised steel mounting frame with all bolts and nuts.
- 3kw electric coil with in-built adjustable thermostat
- Cathodic protection rod

## THERMOSIPHONIC TANK TECHNICAL SPECIFICATION

**Inner Tank Material:** Metal steel sheet DC for the main tank (EN 10130/2006) and for the jacket (exchanger) (EN 10130/2006)

**Internal Anticorrosion Protection:**

- a) LIQUID enamel (DIN 4753-3), totally safe for public health (DIN 51032 & EN 1388-2) and
- b) magnesium anode (EN 12438)

**Welding:** MAG

**Insulation:** Rigid polyurethane foam of 48kg/m<sup>3</sup> (DIN 53420), self-extinguishing (DIN 4102)

**Maximum Working Pressure for the Main Tank:** 10 bar

**Test Pressure for the Main Tank:** 15 bar (EN 12976-1, 4.1.6)

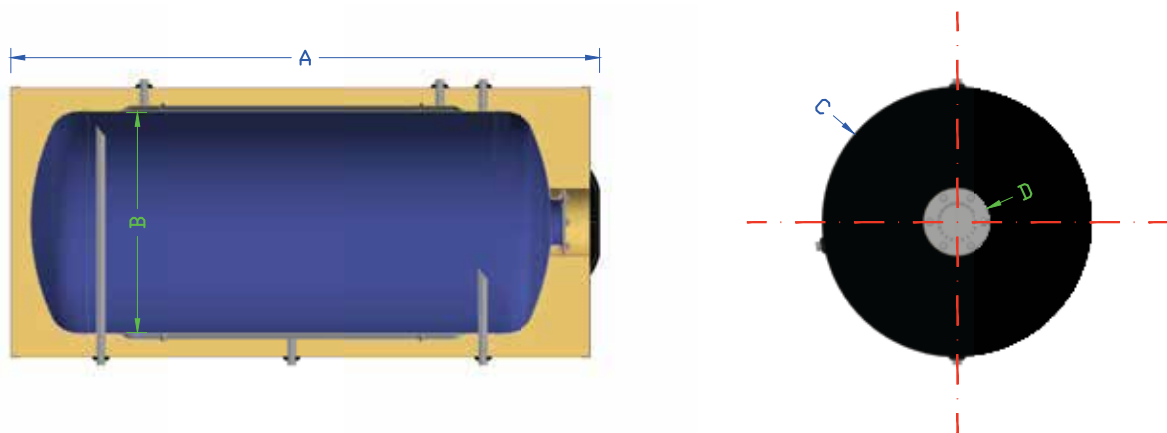
**Maximum Working Pressure for the Jacket (Exchanger):** 3,5 bar

**Test Pressure for the Jacket (Exchanger):** 5 bar (EN 12976-1/2006, 4.1.6)

**Maximum Working Temperature of the Main Tank:** 95°C

**Heating Element:** 3KW, adjustable thermostatic element

**External Cover:** Pre-painted galvanized steel sheet 0,5mm (EN 10204/2.2)



	TYPE	120	150	200	250	300
	Capacity (lt)	114	144	199	242	298
A	Tank's Length (mm)	1075	1275	1275	1550	1775
B	Main Tank's Diameter (mm)	Ø400	Ø400	Ø480	Ø480	Ø480
C	External Diameter (mm)	Ø500	Ø500	Ø580	Ø580	Ø580
	Jacket's Surface (m <sup>2</sup> )	0,54	0,64	0,81	1,01	1,55
	Jacket's Capacity (lt)	6	8	9	12	18
D	Flange Diameter (mm)	Ø140	Ø140	Ø140	Ø140	Ø140
	Weight	44	54	68	84	100