ZIMBABWE GEYSER SYSTEMS

Gravity Fed No Electricity Required



thermo solar



Solar Engineering 69 Countries 45 Years of Manufacturing

THERMOSIPHON SYSTEMS



Compact equipment based on natural circulation (thermosiphon) with closed circulation system equipped with sensors, shell built in compact aluminum and 2.03 m2 absorber made of AB03 alloy colloidal solution of nickel as selective treatment. Especially designed for homes. Capacity 150 L and 300 L. The closed circulation system prevents possible corrosion and frost rupture. Easy installation in a couple of hours. The tank is fitted with handles to facilitate lifting it during installation. It is equipped with all necessary elements for assembly: trap, expansion vessel 8L, safety valve, galvanized structure for flat or sloping roof, 19mm insulated steel pipe, sacrificial anode, valves and connections. Meets specifications of the Technical Building Code

Capacity 150L



TECHNICAL SPECIFICATIONS

Thermosiphon solar heaters	150L
SOLAR PANELS	
Type of solar panels	TS350
Number of solar panels	1
Dimensions of one	0000-4000-75
panel	2009x1009x75 mm
Structure of solar	flat slata
panels	nat plate
Total absorber area	1,708 m ²
Absorber coating	high selective
Absorber material	aluminium
Piping material	copper
Tray material	Al-Mg alloy
Glass cover	4mm Low-iron tempered
Insulation material	40mm mineral wool
Weight of one panel	36.8 kg
WATER TANK	
Туре	P 150S CL
Water capacity	150 litres
Dimensions	diameter Ø600mm, length 1000mm
Heat exchange area	0.996 m ²
Content of heat	9 litres
exchanger	3 11/23
External case of water	colour coated galvanized steel and
tank	UV resistant plastic side caps
Inside tank coating	porcelain enamel
Insulation	40-50mm injected polyurethane
Mg anode, length	YES, 50 cm
Electric heating element	5/4"
connection	5/4
Water connections	3/4"
Weight empty	66.5 kg
Opening pressure cold	
water pressure relief	max. 6 bar
valve	
SULAR CIRCUIT	· · · · · ·
Type	pressurized closed loop
Content of solar liquid	14 litres
Max. pressure relief	4 bar
valve blow off pressure	
Recommended	4.51
pressure in solar circuit	1.5 bar
(at 30°C)	
Europeiro consel	
Expansion vessel	7 litres / 1 bar
volume / pre pressure	
neat transfer liquid	water - propylene glycol mixture

EFFICIENCY CURVE



IJoA = 0,835 |31A = 4,514 | aZA = 0,011 1.884 m

LOAD LOSS





ACCESSORIES INCLUDED

Primary pipe: Stainless steel with elastomeric shell of 19 mm and outer shell anti UV

Valves: Expansion vessel 8L, safety valve tared to 5 bar, trap, caps, primary key filling, AFS security group (anti return and safety valve)

Clamping Structure: Assembly fastening system for flat or sloping roof of galvanized steel high resistance including stainless steel screws and guides

OPTIONAL ACCESSORIES

Electric heating element: 2kW / 230V copper resistant, equipped with thermostat without thermal circuit breaker



ADVANTAGES AT A GLANCE

- ☑ Operation of 150LFR / 300L FR is fully automatic
- No supervising, apart from regular maintenance activities required
- High quality flat-plate solar thermal panels TS 350
- Quick and simple Installation
- Trouble free operation
- No Pumps or Controller required
- ☑ Long Lifetime due to High Quality Components



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