

# Thermosiphon Systems

## Solar Collector

Highly efficient, coated absorber plate, painted galvanized steel or aluminum case, tempered solar glass and polyurethane insulation. Net area: 1.5 – 3.5 sq.m.

## Solar Storage Tank

Solar storage tanks range from 80-300 liters, which have internal steel casing over enamel coating. The external shells are polyester-coated, galvanized steel or aluminum. Also included are the polyurethane insulation and electric backup. Specific to closed-loop systems are heat-exchangers.

## Meeting Your Needs

Chromagen meets customer requirements and provides appropriate collectors and storage tanks according to size. The following table indicates efficient configurations. There may be variations according to output demands and climate.

Tank Size	Collector Model	Collector's Area
120 liter	CR 100	1.9m <sup>2</sup>
150 liter	CR 100 / CR 110	1.9m <sup>2</sup> / 2.2m <sup>2</sup>
200 liter	CR 120 / 2xCR 90	2.6m <sup>2</sup> / 2x1.5m <sup>2</sup>
300 liter	2xCR 100 / 2xCR 110	2x1.9m <sup>2</sup> / 2x2.2m <sup>2</sup>

## Open-Loop or Closed-Loop Systems

Open-loop systems are both simple and economical. They are best suited for warm regions, because they operate with potable water only. Hot water from the collector mixes with the supply water in the storage tank, so a single freeze could destroy the system. Open-loop systems are not recommended in extreme hard-water areas, since scale buildup in the collectors is likely to hinder their operation.

## Connecting Kit

All Chromagen systems are supplied with a connecting kit that includes all the required accessories for installation.

## Steel Stand

Chromagen supplies a variety of stands and racks for flat or inclined roof installations. Chromagen stands are made of galvanized painted steel to ensure high durability in harsh conditions.



Daily water consumption per individual 30-50L

Closed-loop systems prevent freezing and scale buildup. Heated anti-freeze solution from the collector flows into the tank's heat-exchanger and then returns to the collector. An electric backup makes up the energy deficiency during periods of cloudy weather.

# THERMOSIPHON SYSTEMS

Chromagen's Thermosiphon solar heating system delivers high efficiency and low-maintenance. The system provides hot water after only a few hours of sunlight. This is the eco-friendly answer to a family's hot water needs. This streamlined system uses natural water circulation and doesn't require a pump or control unit. It includes a solar collector and a storage tank. All Chromagen systems are supplied complete with connection fittings.



## About Us

Chromagen, a pioneer in the production of solar water solutions since 1962, is the market-leader in Israel, which leads the world in per capita installations. Globally, the company has developed a solid install base, increasing supply and demand annually. Chromagen's systems, which are available in more than 35 countries worldwide, bring innovation, quality and cost savings to home owners, institutions and commercial projects. The commitment to deliver top-of-the-line water-heating solar solutions is in conjunction with the belief to promote environmental awareness.



**Best-in-class**  
clean hot water solutions



**Environmental health**



**Energy efficiency**



**Customer service**



**Product innovation**



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