

SECUSOL - Compact solar hot water system

Compact safety for rapid installation!





Technical data

SECUSOL system 1	160-1 C22	250-2 C22	350-2 C20
Persons (rough estimate)	1 - 3	3 - 5	6 - 8
Solar fraction (conforming to the Eurocode DIN EN 12976)	84,9 % (140 I/day ² ; SECUSOL 160-1, 1 collector, 35°N, e.g. Messina, Sevilla)	92,1 % (250 l/day ² ; SECUSOL 250-2, 2 collectors, 42°N, e.g. Barcelona, Rome, Istanbul)	88 % (350 l/day ² ; SECUSOL 350-2, 2 collectors EURO C 20, 42°N)
Solar collector (gross surface)	EURO C22 M10 AR (2,24 m ²)	EURO C22 M10 AR (2,24 m ²)	EURO C20 M8 AR (2,61 m ²)
	On-roof or free-standing installation, horizontal arrangement only!		
Solar storage cylinder	160 l nominal capacity; approx. 50 residual volume when auxiliary heating is used (electric immersion heater) Insulation of approx. 75 mm	250 I nominal capacity; approx. 120 I residual volume when auxiliary heating is used (electric immersion heater or central heating), Insulation of approx. 75 mm	350 I nominal capacity; approx. 160 I residual volume when auxiliary heating is used (electric immersion heater or central heating) Insulation of approx. 75 mm
Piping	Total length of solar circuit limited to 30 m, vertical distance between collector and storage: min 1 m/max. 8,5 m, piping of size 2 x 12 mm (tubing not included)		
Solar controller	Pump speed regulation, limitation of maximum storage temperature, monitoring functions for system operation, thermostat function (aux. heating control).		
¹ Limited regional availability: Please enquire which system is available in your country or region 2 hot water preparation			

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NJ 1



System idle During idle state, the solar liquid retreats to the heat exchanger (red). The solar circuit and the collectors are filled with air (blue).





System in operation During operation the solar

liquid flows through the collectors. The air is transferred to the upper part of the heat exchanger, where a thin film of solar liquid forms and significantly improves the efficiency of the heat exchange process.

> — air — solar liquid



The patented operational principle of the SECUSOL Compact System



SECUSOL 160-1 With electric immersion heater SECUSOL 250-2/350-2 With electric immersion heater or central aux. heating Wagner & Co Solartechnik GmbH Zimmermannstraße 12 D-35091 Cölbe/Marburg

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