

STRATOS[®]4s

S Y S T E M

HEAT STORAGE

NEW

- 1 Structure of anodized marine grade 15 µm aluminium 6060
- 2 Heat Storage backup circuit (patented) with low power sanitary circulator (5W)
- 3 Sanitary water storages, in stainless steel AISI 316L
- 4 Second level heat storage (patented) in stainless steel 316L integrated in the frame and insulated with VIP
- 5 Vacuum tube Sydney type with high vacuum grade, minimum 10⁻³ pa, with highly selective PVD coating
- 6 Integration electric heaters and antifreeze
- 7 HEAT MANAGER - smart Wi-Fi controller for remote management of the electric heaters



The HEAT STORAGE SYSTEM is the new PATENTED active thermal energy management system for Stratos 4S Heat Storage. Thanks to the patented solution all the incident solar energy is captured in the system, accumulating in a dedicated storage the exceeding solar energy during periods of maximum solar radiation. Once the first level of storage is full, the exceeding energy is recirculated in the second level of storage integrated in the compact system, thanks to a low power backup system. This stratification of thermal energy permits to optimize the solar energy storage, having DHW at the right temperature even with low incident solar irradiation energy.



BREVETTATO
PATENTED

MADE IN ITALY

THERMAL SYSTEM STRATOS® 4S HEAT STORAGE

COMPACT AND HIGH-EFFICIENCY SOLAR THERMAL SYSTEM



The **SYSTEM STRATOS® 4S HEAT STORAGE** is the new and efficient thermal energy management system with direct heating. Thanks to this patented solution all the exceeding solar energy produced during the maximum solar radiation, is captured in the system, and accumulated in a dedicated storage tank for DHW available for further need.

STRUCTURE AND MATERIALS

- Frame structure in anodized Marine Grade aluminum. Support and fixing kit in galvanized steel
- Capturing system consisting of tubes with Sydney type vacuum technology with highly selective PVD coating and high vacuum grade.

- Primary store circuit (water and glycol) in stainless steel AISI 304.
- DHW store in stainless steel AISI 316L, suitable for drinking water

INCLUDED ACCESSORIES

6 bar safety valve. Fixing kit for flat surfaces (inclination 30°) as well for pitched roofs. Integration electric heaters. TP Valve. Magnesium Anode Protection on each tube
HEAT MANAGER - smart Wi-Fi controller for remote management of the electric heaters

CONNECTIONS

2 threaded female connections of 1/2"

ACCESSORIES

See accessories section

WARRANTY

See general conditions of sale and warranty

P. MAX INPUT	P. MAX ACCUMULATION	T. MAX	T. MIN	INCLINATION SLOPE
4 bar	6 bar	92 °C	-20 °C	10° - 70°

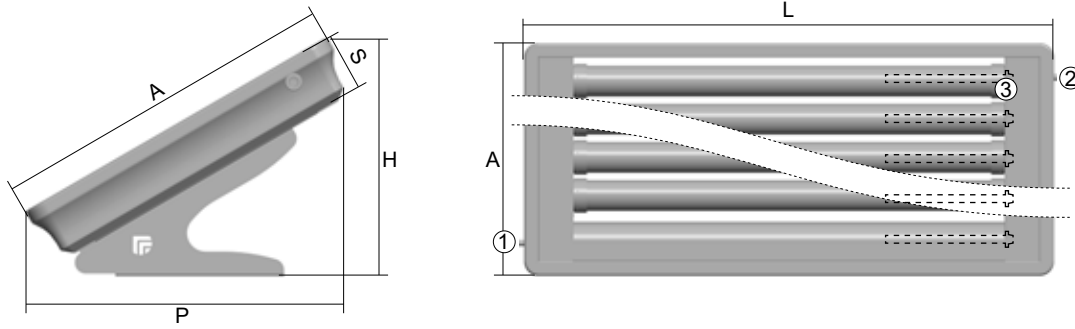


STRATOS® 4S HEAT STORAGE SYSTEM

SYSTEM COMPONENTS	INCLUDED	INCLUDED
Heat Manager system	✓	TP valve
Structure of anodized marine grade 15 µm aluminium 6060	✓	Heat Storage backup circuit (patented) with low power sanitary circulator (5W)
6 bar safety valve	✓	Mounted magnesium anode for protecting each tube
Fixing kit for flat surfaces and pitched roofs	✓	Solar Thermal Accumulator
Integrated electric heaters	✓	
Anti-freeze heater (set-up 6 °C)	✓	

THERMAL SYSTEM STRATOS® 4S HEAT STORAGE

COMPACT AND HIGH-EFFICIENCY SOLAR THERMAL SYSTEM



Model	No. tubes capturing	L	P	H	A	S	DHW Connections	Connections anodes of magnesium	Surface area Gross	Total weight in operation	Weight/m ² in function
160	4	2160	859	643	946	167	1/2" F	1/2" F	2,04	182	89
210	5	2160	1022	737	1134	167/209	1/2" F	1/2" F	2,45	233	95
260	6	2160	1156	814	1289	167/209	1/2" F	1/2" F	2,78	260	94
300	7	2160	1290	892	1444	167/209	1/2" F	1/2" F	3,12	288	92

STRATOS® 4S HEAT STORAGE SYSTEM

Model	Users	Daily DHW production*	Description	Art. Nr.	Power electric integration heaters** + antifreeze
160		up to 160 lt	HEAT STORAGE 160	3410316603250	1200 watt + 500 watt
210		up to 210 lt	HEAT STORAGE 210	3410316603251	1200 watt + 500 watt
260		up to 260 lt	HEAT STORAGE 260	3410316603252	1200 watt + 500 watt
300		up to 300 lt	HEAT STORAGE 300	3410316603253	1200 watt + 500 watt

* Blended at 42°C with solar energy of 26MJ/m² and mains water at 25°C (without electrical integration)

**Electrical integration heaters remotely managed with Heat Manager system.

Before starting the system, fill the system with water (all the pipes are already preloaded with glycol). Installation and filling must be performed with the covered system, only after completing this procedure it will be possible to uncover the system.

For the correct installation, always refer to the enclosed user manual.

COMPACT AND HIGH-EFFICIENCY SOLAR THERMAL SYSTEM

BACK-UP TANK IN SS 316L INTEGRATED IN THE SYSTEM (PATENTED)



In conditions of high incident solar energy, the thermal sensor activates the circulator (low absorption electricity 5 watts) to transfer heat to the thermal accumulator (insulated back-up tank).

In this way the overheat stagnation is avoided, and an additional reserve of DHW, to be used in times of insufficient solar radiation (e.g. in the evening) is secured. This patented solution maximizes annual DHW production and the efficiency of the 4S Heat Storage system.

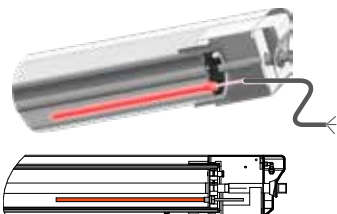


www.cordivariheatmanager.com

HEAT MANAGER - SMART CONTROLLER

Stratos 4SHC system is equipped with the Smart Controller Wi-Fi HEAT MANAGER for the remote management of the electric heaters by smartphone IOS or Android. Thanks to this app it is possible to manage, to set and to monitor the functioning of the electric heaters easily from the mobile phone, by setting the temperature and the operating time slots.

HEAT MANAGER is user friendly and intuitive. You just have to install the app and connect the smart controller to your home Wi-Fi network.



THE FIRST SOLAR WATER HEATER

Stratos® 4S HEAT STORAGE is available with electrical integration. Thanks to the integrated "Plug & Play" electric heaters, the system becomes a real solar water heater that can always offer you maximum comfort, safety and great savings in every season of the year.

