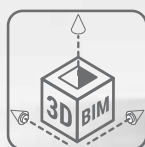


# STRATOS<sup>®</sup>4s

S Y S T E M

ROTO  
SHIELD<sup>®</sup>  
S Y S T E M

- 1 Structure of anodized marine grade 15 µm aluminium 6060.
- 2 Vacuum tube Sydney type with high vacuum grade, minimum  $10^{-3}$  Pa, with highly selective PVD coating.
- 3 ROTOSHIELD<sup>®</sup> patented system against overheating with hydraulic cylinder with stainless steel stem, tested for more than 50.000 cycles.
- 4 Sanitary exchanger, corrugated anti-limescale tube in stainless steel Aisi 316L.
- 5 Primary circuit accumulation (water and glycol) in stainless steel.



The thermal solar system STRATOS® 4S ROTOSHIELD®, is an innovative high efficiency compact solar system with integrated DHW storage.

It is equipped with a patented anti-stagnation self-balancing system. The ROTOSHIELD® patent protects the system by maximizing the performance.

It is indicated to produce domestic hot water in all climatic zones, thanks to its ability to preserve the captured heat. In fact, the system can be installed in areas with temperatures up to -20°C.



BREVETTATO  
PATENTED

MADE IN ITALY

Percorso  
Efficienza  Innovazione

 CORDIVARI®

STRATOS®

STRATOS® SYSTEMS

THERMOSIPHON  
SYSTEMS

FORCED CIRCULATION  
SYSTEMS

COLLECTORS AND  
ACCESSORIES

TECHNICAL  
SUPPORT

# SOLAR THERMAL SYSTEM STRATOS® 4S ROTOSHIELD®

COMPACT AND HIGH-EFFICIENCY SOLAR THERMAL SYSTEM

**ROTO  
SHIELD®**  
SYSTEM



The thermal system **STRATOS® 4S ROTOSHIELD®**, is an innovative high efficiency compact solar system with integrated DHW storage.

It is equipped with a patented anti-stagnation self-balancing system. The ROTOSHIELD® patent protects the system by maximizing the performance.

It is indicated to produce domestic hot water in all climatic zones, thanks to its ability to preserve the captured heat. In fact, the system can be installed in areas with temperatures up to -20°C.

## 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 accumulation circuit (water and glycol) in stainless steel AISI 304.

DHW exchanger in corrugated stainless steel AISI 316L, suitable and certified for drinking water, according to 98/83/CE and subsequent amendments.

## INCLUDED ACCESSORIES

6 bar safety valve. Fixing kit for flat surfaces (inclination 30°) as well for pitched roofs. Non-toxic heat transfer fluid.

## CONNECTIONS

2 threaded female connections of ½".

## WARRANTY

5 years - See general sales and warranty conditions.

MAX PRESSURE INLET	MAX PRESSURE ACCUMULATION	MAX TEMPERATURE	MIN. TEMPERATURE	PITCH INCLINATION
4 bar	7,5 bar	100°C	-20°C	10° - 70°

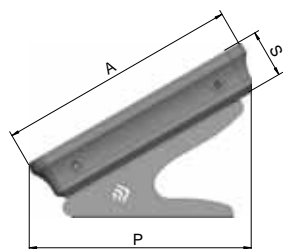


## STRATOS® 4S WITH ROTOSHIELD® SYSTEM

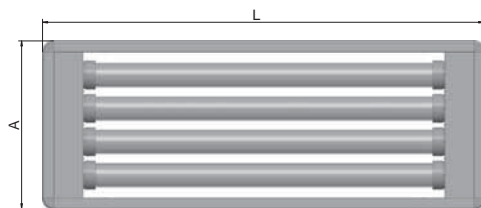
SYSTEM COMPONENTS	INCLUDED
Frame structure in marine grade anodized aluminum 15 um	✓
6 bar safety valve	✓
Fixing kit for flat and pitched roof	✓
Non-toxic heat transfer fluid	✓
Automatic anti-stagnation and self-balancing system	✓

# SOLAR THERMAL SYSTEM STRATOS® 4S ROTOSHIELD®

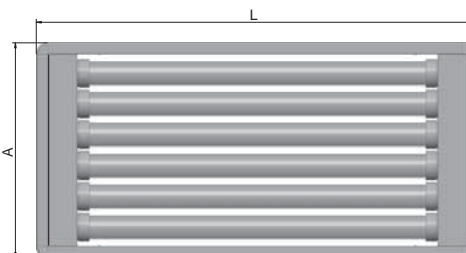
COMPACT AND HIGH-EFFICIENCY SOLAR THERMAL SYSTEM



MODEL 120



MODEL 180

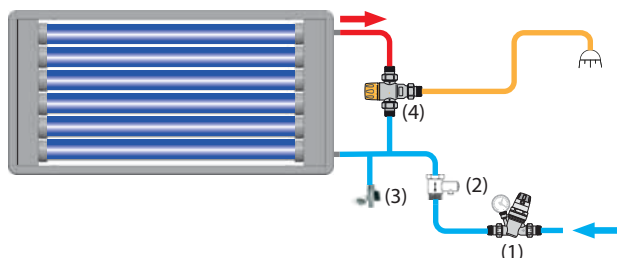


Model	L	P	H	A	S	DHW connections	Gross surface area	Total weight In function	Weight per m <sup>2</sup> In function
	[mm]					1-2	[m <sup>2</sup> ]	[kg]	[kg/m <sup>2</sup> ]
120	2160	752	589	822	163	1/2" F	1,77	122	69
180	2160	951	704	1052	163	1/2" F	2,27	178	78

## STRATOS® 4S WITH ROTOSHIELD® SYSTEM

Model	Utilities	Description	Art. Nr.
120		ROTOSHIELD 120	3410316603203
180		ROTOSHIELD 180	3410316603204

## TYPICAL INSTALLATION SCHEME



### LEGEND

- 1 Eventual pressure reducer.
- 2 Safety and non-return valve (included)
- 3 Drain tap for panel draining (to be provided by the installer)
- 4 Thermostatic mixing valve (optional to be ordered separately)

Before starting the system, fill the ducts tubes (already filled with glycol) with tap water. The first tube at the bottom, the motor tube, is already preloaded with both liquids, water and glycol. Only the first 5 upper tubes must be filled for Model 180 lt and the first 3 upper tubes for Model 120 lt. Installation and filling must be carried out 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.**

## THE LIGHTEST SYSTEM

STRATOS® 4S ROTOSHIELD® is the lightest solar thermal system on the market. In order of functioning, thanks to the reduced weight / square meter ratio, the STRATOS® 4S SYSTEM turns out to be the lightest and the least weighty on roofs.



The PATENTED **ROTOSHIELD® SYSTEM** has been expressly studied to avoid overheating of the system during the periods of major insolation and in absence of DHW levy. The rotation takes place in a natural way without the use of any electric device.



STRATOS®

STRATOS® SYSTEMS

THERMOSIPHON SYSTEMS

FORCED CIRCULATION SYSTEMS

COLLECTORS AND ACCESSORIES

TECHNICAL SUPPORT