

INTEGRATED SOLAR THERMAL SYSTEMS

CATALOGUE
2018

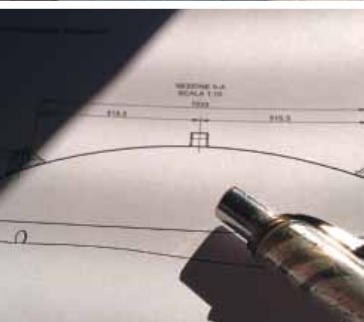
Cordivari Company has a proven industrial tradition and is now one of the most important manufacturers in the heating and plumbing industry in Italy. Founded in 1972 by Ercole Cordivari, the company is producing calorifiers, thermal Storage and heating components, solar thermal systems, compressed air receivers, Design radiators, chimney flues and food containers.

Cordivari plants are situated on an area of 280.000 square meters and employ more than 450 employees.

Thanks to its development strategies, all addressed to the new technologies and to the training of new human resources, Cordivari is equipped with modern structures and advanced production processes. All the products are designed and produced in Italy and the technological, ergonomic and ecological choices allow to work respecting the human being and its environment. UNI EN ISO 14001 environment managing systems and UNI EN ISO 9001 Quality system are perfectly integrated to grant and ensure company's main goals and values. The highly qualified management, the constant research for innovative solutions and the extremely customer-oriented company policy stand for the leading market position and the exclusive know-how in the field of integrated heating systems that the Cordivari group has acquired. All this is the result of a continuous commitment to achieving Customer Satisfaction.



Cav. Ercole Cordivari



Technologies for Wellness

D evelopment, design and innovation studies are key points in Cordivari's production process. Each proposed solution conveys technical reliability, design, ergonomics, ease of use and installation. The continuous development of our product offer, wants to witness the company's attention to the market needs. Similarly, the research and development of new solutions follows the trends of an efficiency and energy savings oriented market.

T he different phases of production are in perfect harmony with the best techniques for industrial automation, robotics and advanced craftsmanship. Every product undergoes several times during the production stages, a rigorous control, manual and visual.

C ordivari products meet the most important certifications, such as the PED (Pressure Equipment Directive) and the Directive 2009/125/CE (ErP – eco-friendly planning regulations) in compliance with the cylinders and other pressure vessels manufactured. All items for Domestic Hot Water storage are certified for drinkable water use in accordance with the strictest Italian and foreign regulations (SSICA, Attestation DHW, DVGW W270, UBA, WRAS).

I n Cordivari quality care and attention to the environment has always been home. In fact we were the first company of the heating sector to obtain the certification according to UNI EN ISO 9001 integrated with environmental management certification UNI EN ISO 14001: 2015. This production philosophy, which is now a way of life for us, means reduction of emissions and energy inefficiencies, waste reduction and recycling over 60% and allows us to operate in a sustainable and environmentally friendly way, using clean energy from renewable sources, using only eco-friendly materials from raw materials to packaging.

CERTIFICATIONS



Quality systems
certified
UNI EN ISO 9001



Environment
certification
UNI EN ISO 14001



TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.

CORDIVARI Lab



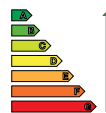
PRODUCT CERTIFICATES



**EN 12975-2 e
SOLAR KEYMARK**
Solar collectors are certified according to EN 12975-2 and Solar Keymark



2014/68/UE
2014/29/CE



ErP
Products in conformity to EUP Directive Energy Using Products-2009/125/UE



ICONS

ENERGY SOURCES



SOLAR SYSTEM



TRADITIONAL BOILERS



HEAT PUMP



BIOMASS

USE



DOMESTIC HOT WATER (DHW)



HEATING SYSTEM

SYSTEM WITH HEAT PUMP WATER HEATER



AIR



ELECTRICITY

SOLAR SYSTEM FIXING KITS

VERTICAL COLLECTORS



PITCHED ROOF



FLAT ROOF



ON ROOF



WALL VERTICAL INSTALLATION

HORIZONTAL COLLECTORS



PITCHED ROOF



FLAT ROOF

WELLNESS and SAVING

Solutions for your Home



**RADIATORS AND
TOWEL RAILS**



WATER TANKS



**SOLAR THERMAL
SYSTEMS**



**CALORIFIERS AND HEATING
WATER BUFFER TANKS**



**CORDIVARI DESIGN
RADIATORS**



FOOD CONTAINERS



**HIGH EFFICIENCY
RADIATORS**



CHIMNEY PIPES





CORDIVARI Lab

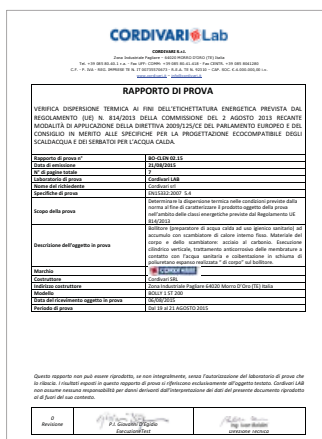
CERTIFIED QUALITY

CHOOSE SERENITY

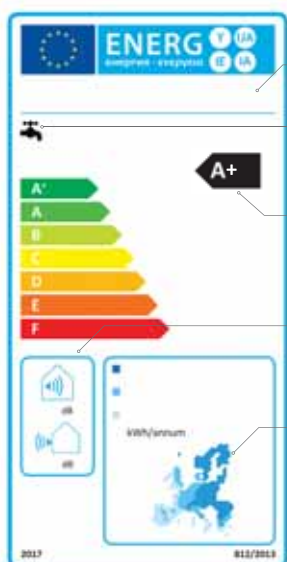


Today, more than ever, who chooses Cordivari products chooses to be peaceful! By introducing the new ErP standards, we choose to offer you guaranteed performances and reliability. The construction of the new building Cordivari LAB is the result of this choice. As from 2015, the company is equipped with a laboratory and an advanced test room which allow to test any product or system, measuring and certifying its performances. Thanks to its strict procedures, conformed to European standards, and sophisticated tools, nowadays Cordivari is the only Italian manufacturer able to carry out accurate tests on every product in its own

laboratory. As a consequence, research and development on performance and energy efficiency are always running towards the best solutions, in order to guarantee you reliability, savings and high results. Cordivari LAB is the only qualified laboratory inside a manufacturing company, approved by the TÜV. Choose to be safe with certified quality!



EXAMPLE OF LABEL FOR TANK WITH HEAT PUMP



Manufacturer - Model name

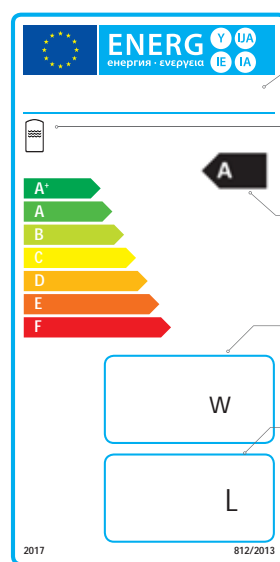
DHW - Load profile

Energy efficiency class

Sound power level

Consumption in different climatic levels per year

EXAMPLE OF LABEL FOR TANK/MULTI-HEAT ENERGY BUFFERS



Manufacturer - Model name

Hot water tank

Energy efficiency class

Heat Loss

Net volume

INTEGRATED SOLAR THERMAL SYSTEM

STRATOS®



STRATOS® 4S SYSTEM

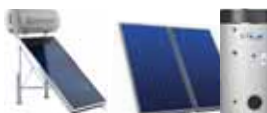
PAGE 12

STRATOS® DR SYSTEM

PAGE 22

SYSTEMS WITH FLAT COLLECTORS

DHW



PANAREA SYSTEM

PAGE 32

B1 - B2 SYSTEM

PAGE 34

B2 PDC SYSTEM

PAGE 40

BOLLYTERM® HP SYSTEM

PAGE 42

SYSTEMS WITH SOLAR VACUUM TUBE COLLECTOR

DHW



B2 CVT SYSTEM

PAGE 46

BOLLYTERM® HP CVT SYSTEM

PAGE 48

COLLECTORS AND ACCESSORIES

SOLAR COLLECTORS- ACCESSORIES- SPARE PARTS

TECHNICAL SUPPORT

TECHNICAL SUPPORT- CERTIFICATIONS

DHW – DOMESTIC HOT WATER



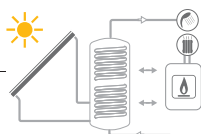
PAGE 10

DHW – THERMOSIPHON CIRCULATION SYSTEM
DHW – FORCED CIRCULATION SYSTEM



PAGE 30

DHW - DOMESTIC HOT WATER

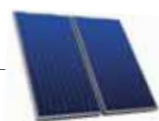


SYSTEM WITH
ENERGY EFFICIENCY

**CLASS
A+++**



PAGE 44



PAGE 50



PAGE 74



SOLAR THERMAL SYSTEMS

STRATOS®

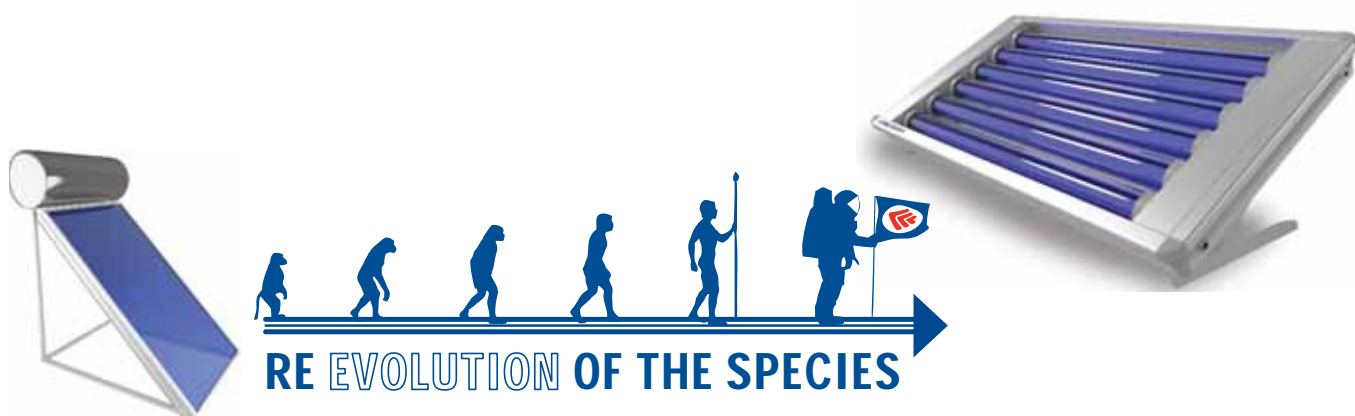
STRATOS®

SYSTEMS WITH FLAT COLLECTORS

SYSTEMS WITH SOLAR VACUUM TUBE COLLECTOR

COLLECTORS AND ACCESSORIES

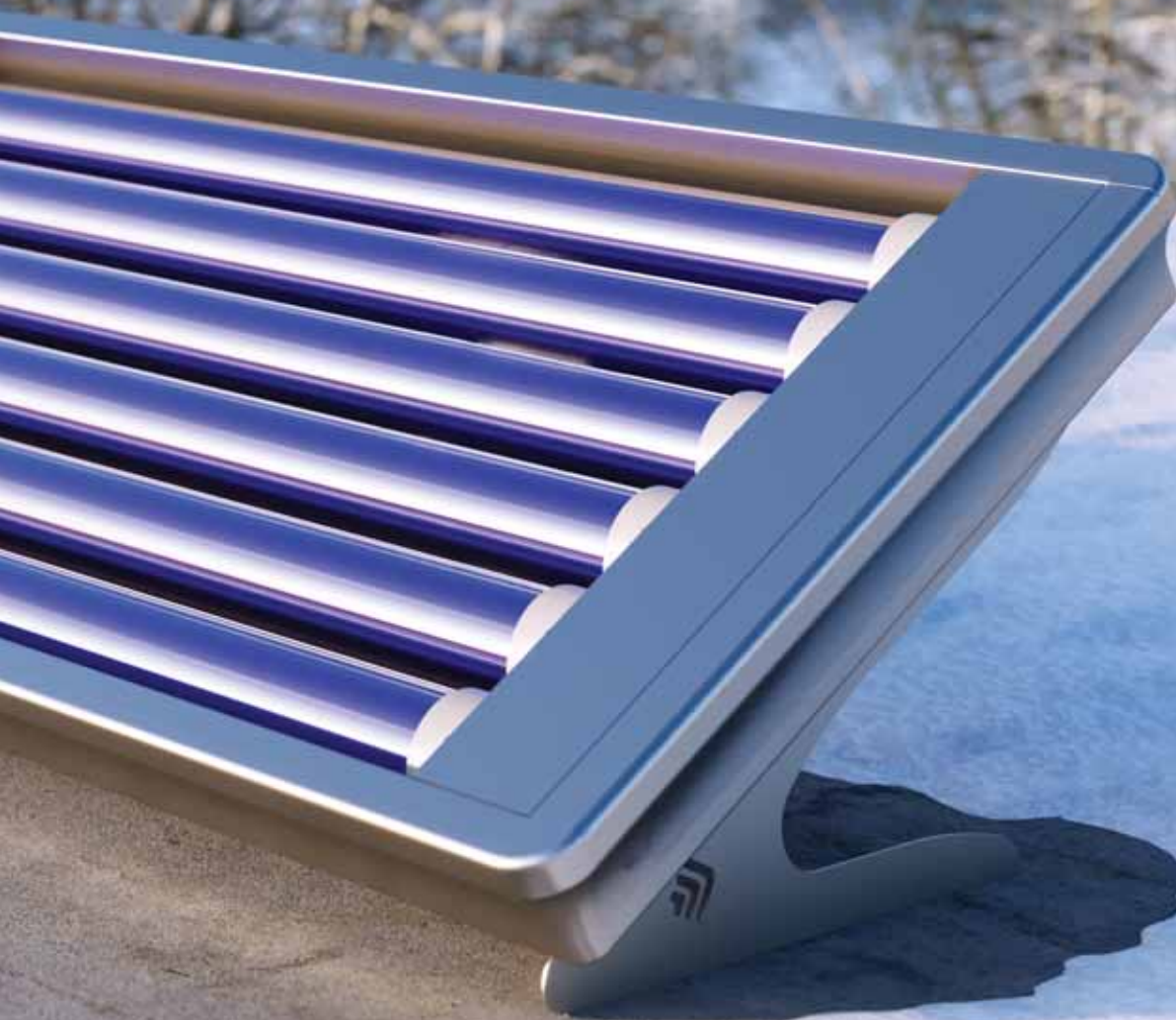
TECHNICAL SUPPORT



365 DAYS OF SUN

STRATOS[®] 4s

S Y S T E M



STRATOS[®]

SYSTEMS WITH FLAT
COLLECTORS

SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR

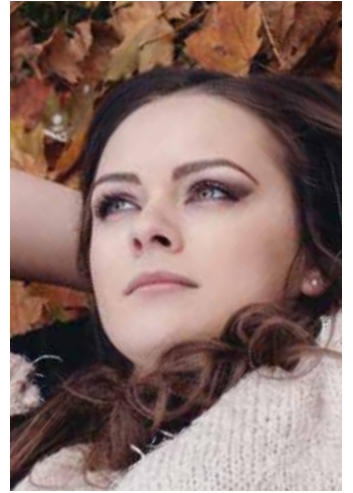
COLLECTORS AND
ACCESSORIES

TECHNICAL SUPPORT

Percorso
Efficienza  Innovazione

STRATOS[®]4s

S Y S T E M

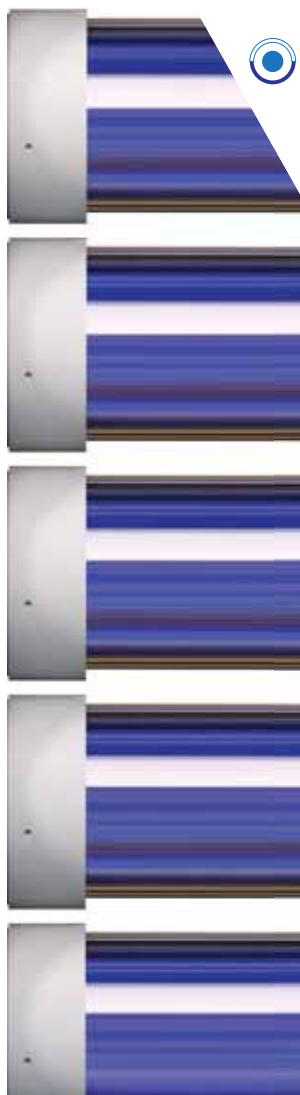











THE MOST EFFICIENT COMPACT SOLAR THERMAL SYSTEM





The system **STRATOS® 4S Rotoshield®** is an innovative compact high-efficiency solar thermal system with integrated DHW storage. It is equipped with a patented self-balancing and anti-stagnation system. The Rotoshield patent protects the system and maximizes the performances.


It is indicated for the production of domestic hot water in all climatic zones thanks to its ability to retain the captured heat. The system can in fact be installed in areas with temperatures up to -20°C .





-  **PATENTED SELF-BALANCING AND ANTI-STAGNATION SYSTEM**

-  **FRAME OF ANODIZED MARINE GRADE ALUMINIUM**
-  **DOMESTIC HOT WATER IN ANY ZONE AND SEASON**
-  **SUITABLE UP TO -20°C**
-  **RETAINS THE HEAT THANKS TO THE VAACUM TECHNOLOGY**
-  **DHW ACCUMULATION IN STAINLESS STEEL AISI 316L**
-  **NATURAL CIRCULATION FUNCTIONING WHICH DOES NOT REQUIRE ELECTRICITY**

 **LESS SPACE**

 **MINOR INSTALLATION COSTS**

 **GREATER PERFORMANCES**

 **SHORTER INSTALLATION TIME**

 **MORE ENERGY SAVING**

S A V I N G

SOLAR THERMAL SYSTEM STRATOS® 4S

COMPACT AND HIGH-EFFICIENCY SOLAR THERMAL SYSTEM

NEW

ROTO
SHIELD®
SYSTEM

Percorso
Efficienza  Innovazione



PATENTED

APPLICATION

The system STRATOS® 4S Rotoshield® is an innovative compact high-efficiency solar thermal system with integrated DHW storage. It is equipped with a patented self-balancing and anti-stagnation system. The Rotoshield® patent protects the system and maximizes the performances. It is indicated for the production of domestic hot water in all climatic zones thanks to its ability to retain the captured heat. The system can in fact be installed in areas with temperatures up to -20 °C.

STRUCTURE AND MATERIALS

Frame structure in marine grade anodized aluminum. Support and fixing brackets in galvanized steel. Capturing system composed of tubes with vacuum technology of Sydney type with high selective coating and high grade of vacuum. Primary circuit realized in stainless steel AISI 304. DHW

exchanger in stainless steel AISI 316L suitable for drinking water (DM nr.174 del 06/04/2004).

ACCESSORIES INCLUDED

6 bar safety valve.
Fixing kit for flat (angle of 30°) and pitched roof.

CONNECTIONS

2 connections 1/2" gas F.

WARRANTY

5 years - Refer to general sales conditions of our solar thermal systems catalogue in force.

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

MODEL	Art. Nr.
120	3410316603203
180	3410316603204

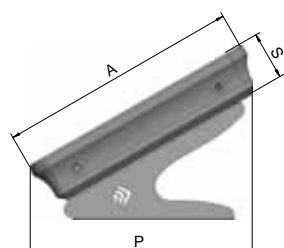
ACCESSORIES INCLUDED

Aluminum profile anodizing marine grade treatment	✓
6 bar safety valve	✓
Fixing kit for flat and pitched roof	✓
Primary fluid	✓

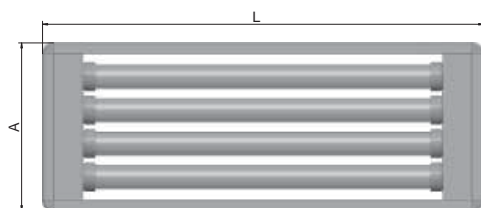
SOLAR THERMAL SYSTEM STRATOS® 4S

COMPACT AND HIGH-EFFICIENCY SOLAR THERMAL SYSTEM

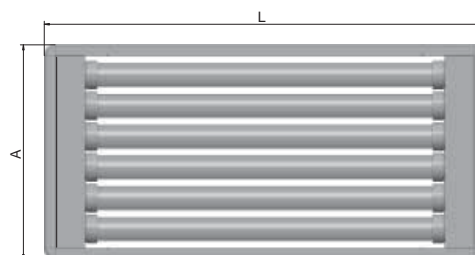
ROTO
SHIELD®
SYSTEM



MODEL 120



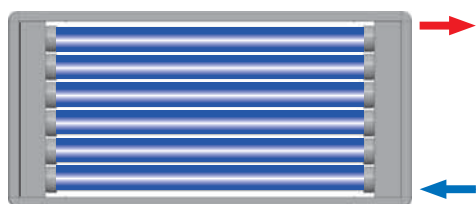
MODEL 180



SISTEMA STRATOS® 4S WITH ROTOSHIELD® SYSTEM

MODEL	L	P	H	A	S	DHW CONNECTIONS	GROSS SURFACE AREA	TOTAL WEIGHT IN FUNCTION	WEIGHT PER m ² IN FUNCTION
	[mm]					1-2	[m ²]	[kg]	[kg]
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

TYPICAL INSTALLATION SCHEME



ALSO SUITABLE FOR PITCHED ROOF



THE LIGHTEST SYSTEM

STRATOS® 4S is the lightest compact solar thermal system on the market. In order of performance, thanks to the reduced weight ratio per square meter, the STRATOS 4S system results to be the lightest and less burdensome for roofs and roofing's.

UTILITIES



MODEL 120



MODEL 180



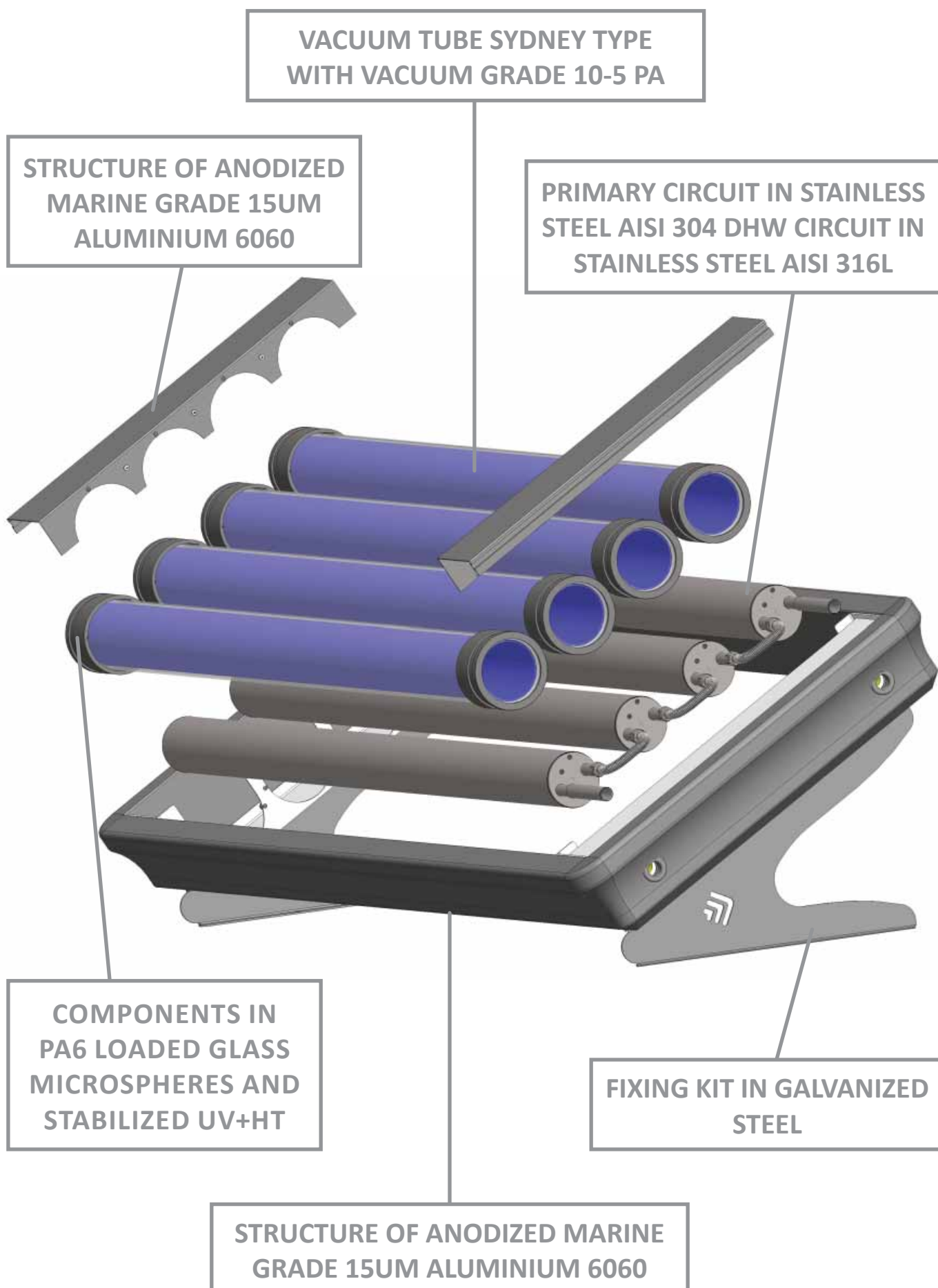
ROTO
SHIELD®
SYSTEM

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.



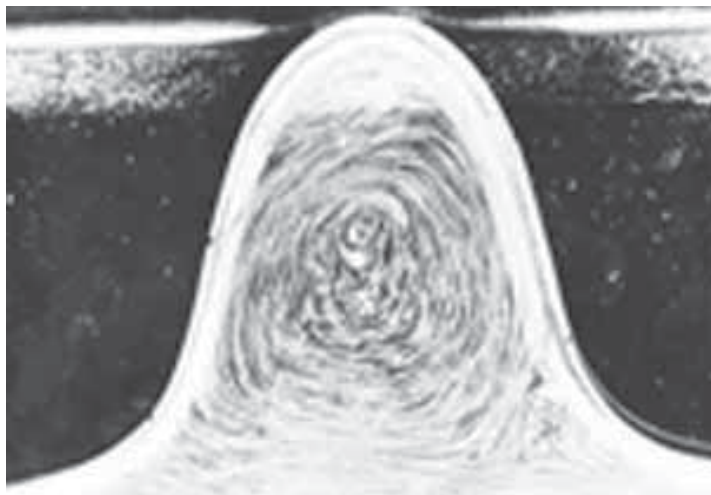
STRATOS® 4S - TECHNICAL INSIGHTS

HOW IT'S MADE



STRATOS® 4S - TECHNICAL INSIGHTS

OPTIMAL HEAT EXCHANGE WITHOUT LIMESTONE DEPOSITS



In the corrugated heat exchanger, turbulences are formed which continuously move and exchange the water. On the base current flow a torsion component created by the constructive form itself is superimposed, thus producing further vortices. Therefore the maximum heat exchange is obtained avoiding the deposit of limestone.

TARGETED TURBULENCES AGAINST THE FORMATION OF DEPOSITS

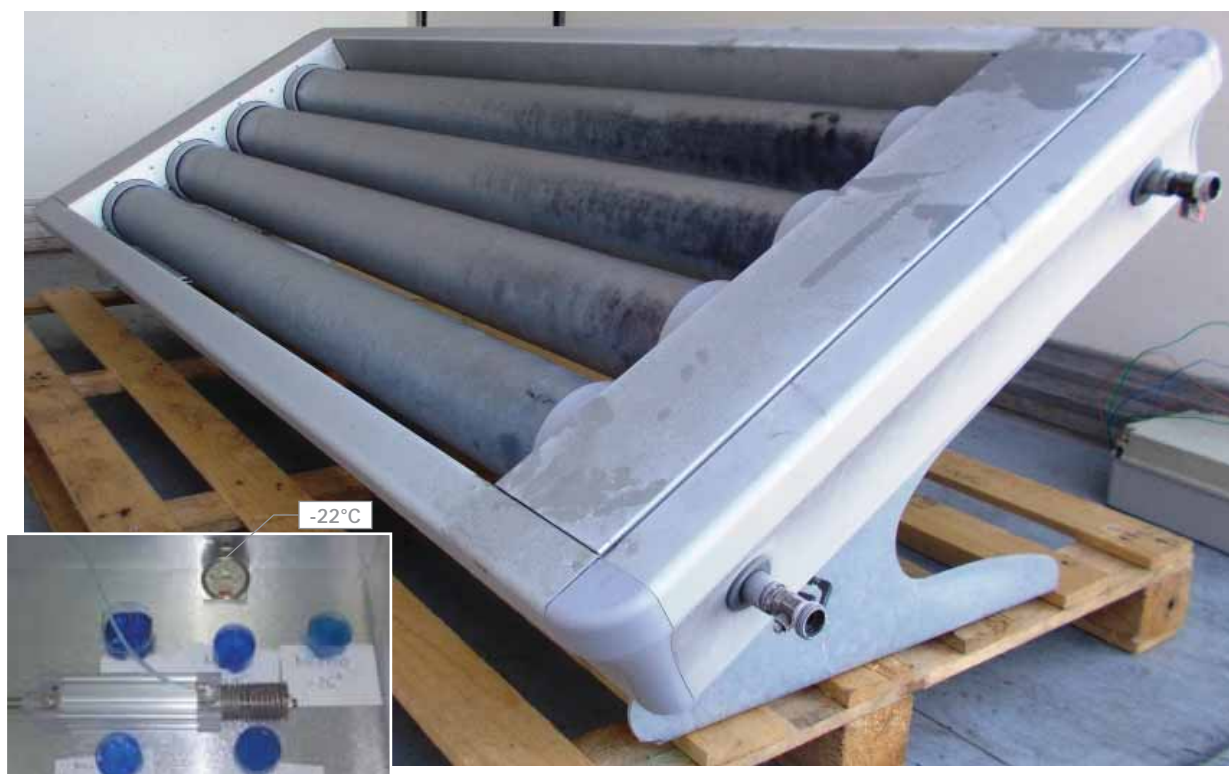
The corrugated profile generates focused turbulences which uniformly mixes the circulating liquid.

In this way the formation of limestone deposits is avoided, guaranteeing constant performances for the entire life cycle. The corrugated form prevents calcification of the drinking water exchanger

The heat exchanger expands slightly when heating and cooling, so that the limestone deposits are largely avoided. During the levy the corrugated shape of the tube favors the formation of turbulences in the exchanger. These turbulences allow a rinsing of the limestone molecules with the hot water. The hot water is heated when needed in a fast, safe and clean way. In this way the hot water is always available fresh and excellent from a hygienic point of view without the need for a hot water tank.

OPERATING TESTS IN EXTREME CONDITIONS

- Operation stress test of the Rotoshield mechanism carried out under extreme temperature conditions detect the perfect functioning at temperatures above -20 °C for several consecutive days
- Freezing test of the heat-carrying fluid up to -30 °C

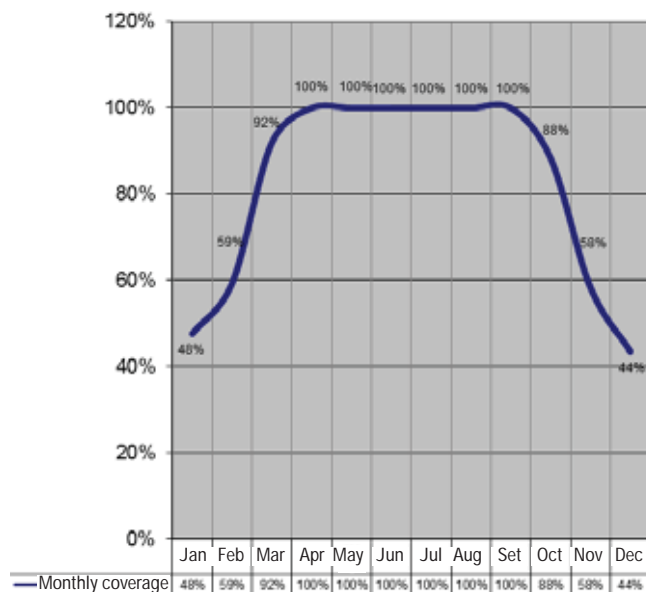


STRATOS® 4S - TECHNICAL INSIGHTS

USABILITY CURVE*

STRATOS® 4S SYSTEM

Percentage coverage of energy requirements



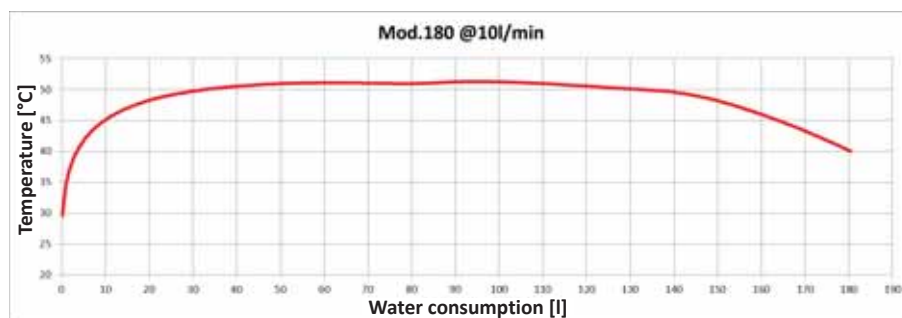
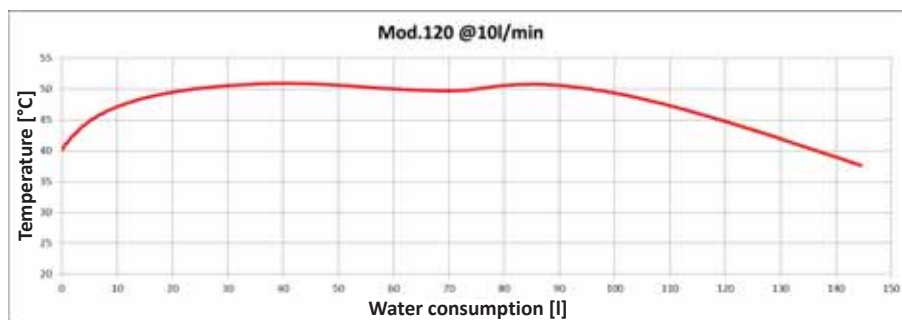
- ANNUAL DHW NEEDS COVERAGE EXCEEDING 80%

- HOT WATER EVEN IN THE MIDDLE SEASONS

*150 lt requirement of DHW collector orientation south.

EFFICIENCY TEST

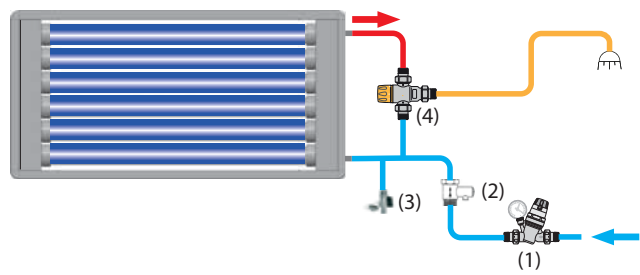
In collaboration with the Industrial engineering department and mathematical sciences – DIISM of the Polytechnic University of Marche



SINGLE LEVY TEST OF DHW AT 45 °C, WHICH CAN BE CARRIED OUT WITH PRIMARY STORAGE AT 85 °C AND DOMESTIC HOT WATER FLOW OF 10LT/MIN

STRATOS® 4S - TECHNICAL INSIGHTS

TYPICAL INSTALLATION SCHEME



CONNECTIONS LEGEND

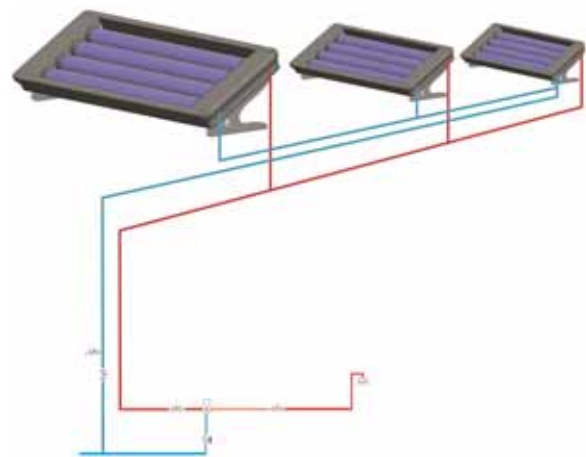
- | | |
|---|--|
| 1 | Eventual pressure reducer |
| 2 | Safety and non-return valve (included) |
| 3 | Drain tap for panel draining (to be provided by the installer) |
| 4 | Thermostatic mixing valve (optional-to be ordered separately) |

MAXIMUM INSTALLATION FLEXIBILITY

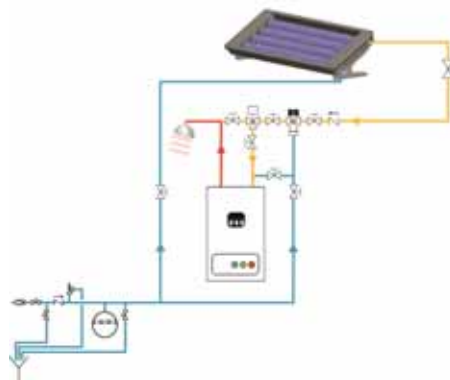
SINGLE INSTALLATION (STAND-ALONE)



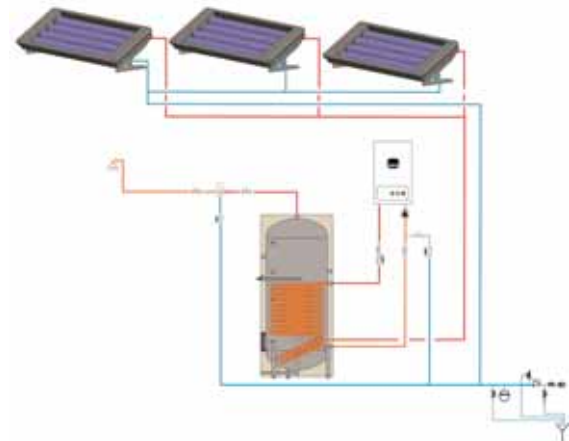
INSTALLATION IN PARALLEL



BOILER INTEGRATION



INSTALLATION IN PARALLEL WITH PRE-HEATING CYLINDER FUNCTION





GERMAN
DESIGN
AWARD
WINNER
2018

oltre la classe A  2016

STRATOS[®] DR

STRATOS[®]

SYSTEMS WITH FLAT
COLLECTORS

SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR



COLLECTORS AND
ACCESSORIES

TECHNICAL SUPPORT

STRATOS® DR SYSTEM

THE NEW ERA OF SOLAR SYSTEMS

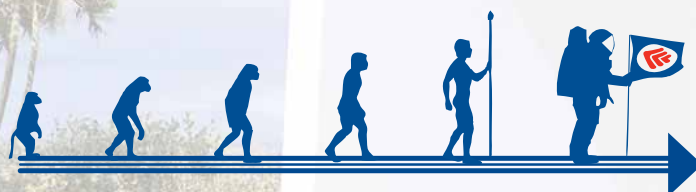


Percorso Efficienza  Innovazione oltre la classe A  2016

DESIGN, PERFORMANCES AND SAVINGS

INTEGRATED DHW STORAGE - MAXIMUM SPACE SAVING - HIGH PERFORMANCES

ELEGANT AESTHETICS - ENERGY SAVINGS

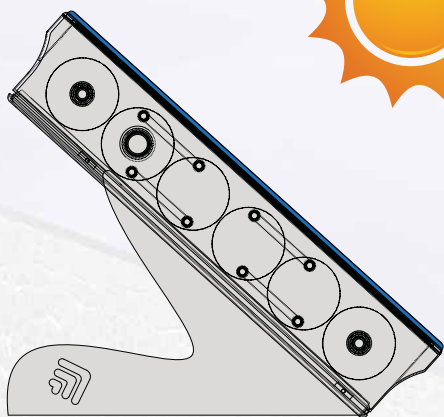


RE EVOLUTION OF THE SPECIES

SOLAR THERMAL SYSTEM
WITH EXTERNAL DHW
STORAGE

NEW SOLAR THERMAL SYSTEM
WITH INTEGRATED DHW
STORAGE





FREE HOT WATER FROM THE SUN THANKS TO
THE SOLAR THERMAL SYSTEM WITH INTEGRATED
STORAGE. EFFICIENT, ECOLOGICAL AND
AESTHETICAL DESIGN

MODEL 100



MODEL 150



MODEL 200



THERMAL SOLAR SYSTEM STRATOS® DR

COMPACT SOLAR THERMAL SYSTEM WITH DIRECT HEATING



APPLICATION

The solar thermal system STRATOS® DR is a compact solar system suitable for the production of domestic hot water (DHW) through direct heating of the integrated DHW storage. Thanks to its elegant design and extremely reduced overall dimensions, the STRATOS® DR system is the ideal choice to combine quality, aesthetic and energy saving. STRATOS® DR is a system recommended for geographical areas with a high index of annual solar irradiation.

A truly "plug and play" system conceived to be installed in series to increase the available DHW storage volume while maintaining the efficiency of the whole solar system. The system must be installed in areas free from frost risk.

If the STRATOS® DR is exposed to temperatures below 0 °C (and in any case not less than -5 °C)

the installation and use of the antifreeze safety heater device is required (available on request).

STRUCTURE

Aluminum profile, anodizing treatment included. Tempered and anti-hail solar glass. Bottoms and walls with high insulation power (λ 0,023 W/mk), thickness 30 mm.

ABSORBING SYSTEM AND THERMAL EXCHANGE CIRCUIT

Direct heating of the integrated DHW accumulation treated with special high selective solar painting.

DHW ACCUMULATION

Sanitary accumulation made of stainless steel AISI 316L suitable and certified for drinking water

according to DM Nr. 174 dated 06/04/2004.

INCLUDED ACCESSORIES

Anti-vacuum valve
6 bar safety valve
Fixing kit for flat and pitched roof
Nr. 1 Tap of 1"1/4 gas M
Nr. 2 Tap of 1/2" gas M

CONNECTIONS

4 connections 1/2" gas F
1 connection 1"1/4 gas F for heating element

WARRANTY

5 years - refer to general sales conditions

INCLUDED ACCESSORIES

Anodizing treatment of the aluminum structure	✓
6 bar safety valve	✓
Vacuum break valve	✓
Nr. 1 tap of 1"1/4 gas M + Nr. 2 taps of 1/2" gas M	✓
Probe holder	✓
Fixing kit for flat and pitched roof	✓



MAX PRESSURE
INLET

4 bar

MAX PRESSURE
ACCUMULATION

6 bar

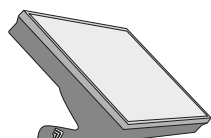
MAX
TEMPERATURE

100°C

STRATOS® DR COMPACT SOLAR THERMAL SYSTEM WITH DIRECT HEATING

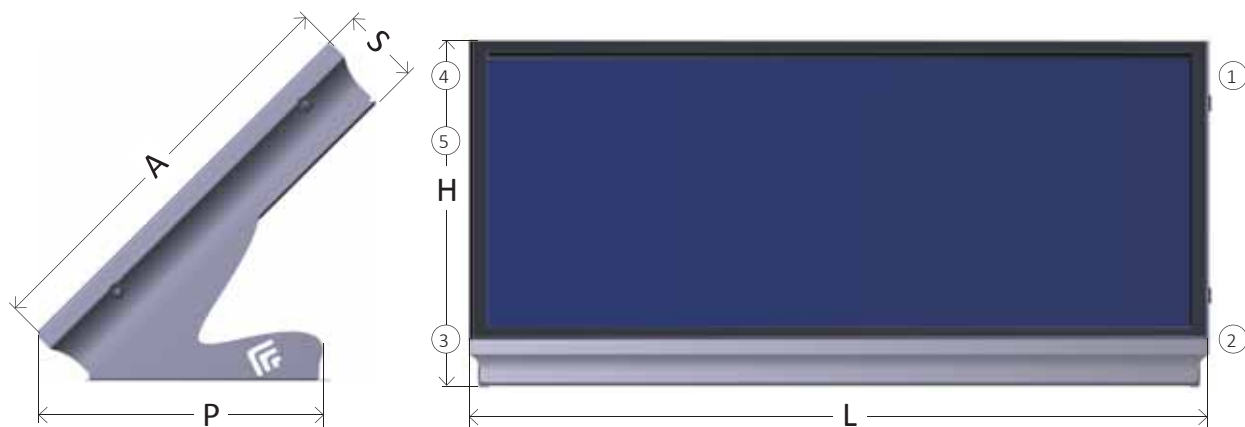
MODEL	NET VOLUME DHW ACCUMULATION [LT.]	GROSS ABSORBING AREA [m²]	ART. NR.	ART. NR. SET OF 3 PIECES
100	99	1,32	3410316603200	341031660320003
150	149	1,87	3410316603201	341031660320103
200	197	2,41	3410316603202	341031660320203

PATENTED
MODEL



THERMAL SOLAR SYSTEM STRATOS® DR

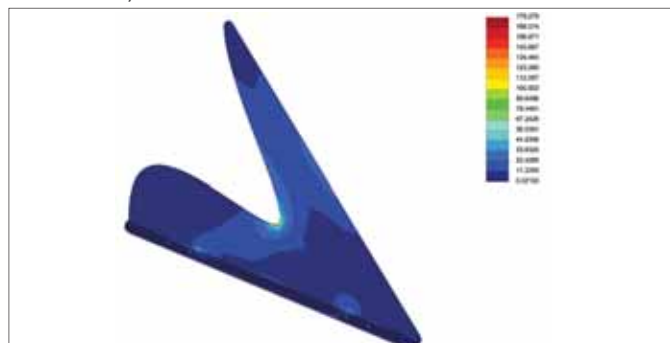
COMPACT SOLAR THERMAL SYSTEM WITH DIRECT HEATING



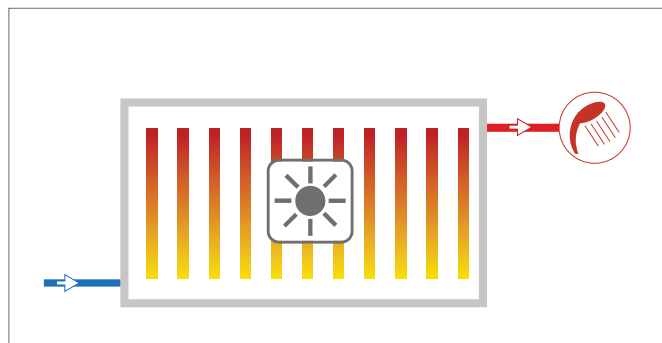
STRATOS® DR SYSTEM

MODEL	L	P	H	A	S	DHW connections	Connection for heating element	Gross surface area	Empty weight	Weight per m ² when operative
[lt]			[mm]			1-2-3-4	5	[m ²]	[kg]	[kg]
100	1913	630	585	690	198	4 x 1/2" gas F	1"¼ gas F	1,32	45	109
150	1913	920	780	976	198	4 x 1/2" gas F	1"¼ gas F	1,87	60	110
200	2138	920	880	1120	198	4 x 1/2" gas F	1"¼ gas F	2,41	80	115

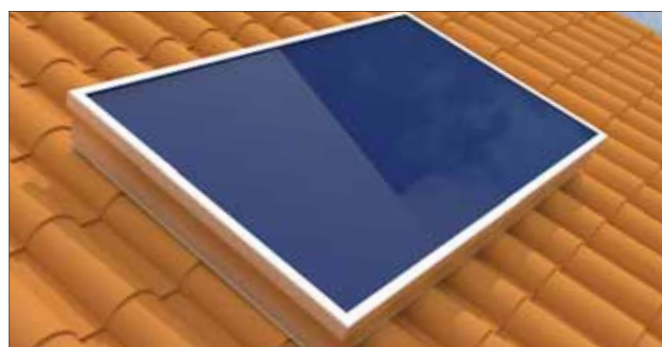
RESISTANT, RELIABLE DESIGN PRODUCT



HEAT FROM THE SUN



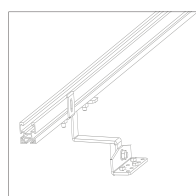
AESTHETICAL SUPPORT WITH 42° INCLINATION
(FLAT SURFACES)



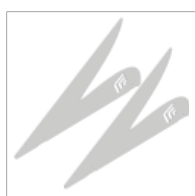
INCLINATION ANGLE FROM 10° TO 70°
(PITCHED ROOFS)

ACCESSORIES ON REQUEST *(For more information see accessories section)*

(*) Essential to protect the system if it is emptied during periods of non-use or in the post installation phase before initial start-up.



Fixing kit for pitched roof



30° inclination
Stratos® support kit



Protective PVC cloth
(*)



Anti-freeze device

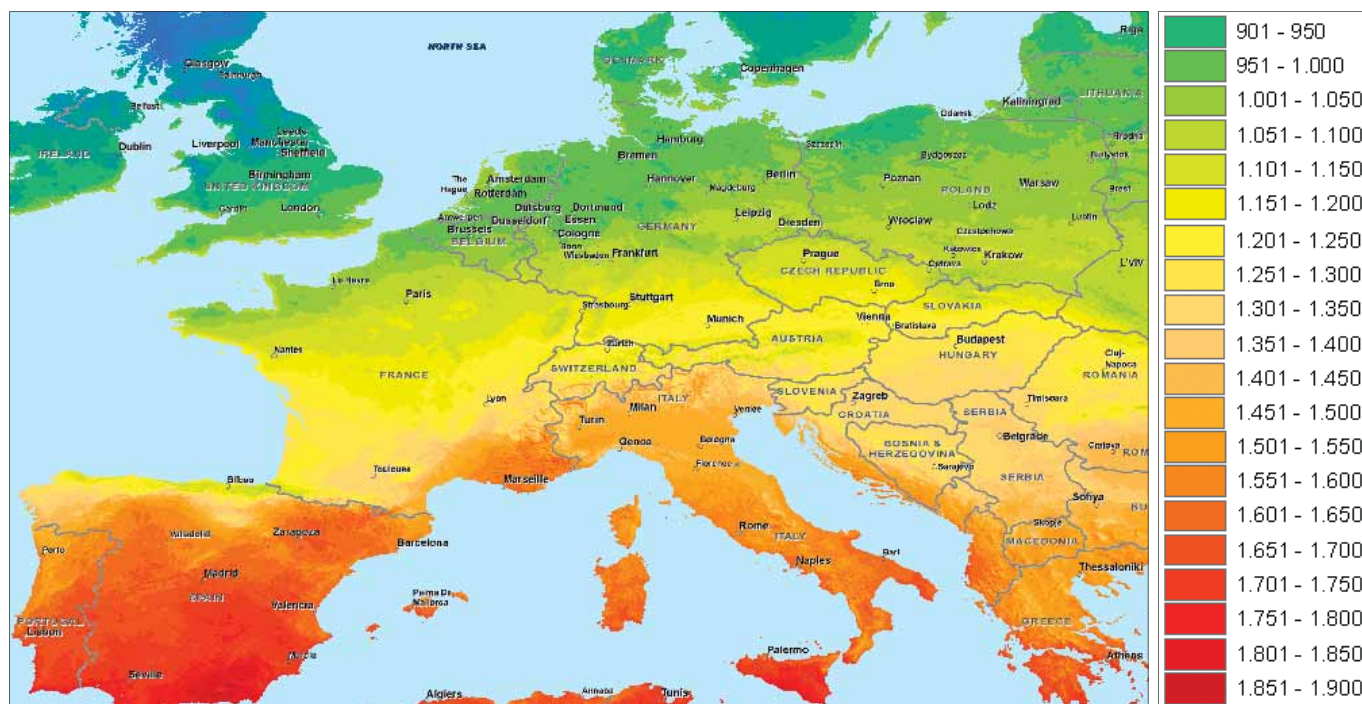


Electrical immersion
heater



CHOICE OF THE SYSTEM

For a better overall efficiency of the system we recommend the installation of the STRATOS DR in areas with high annual solar irradiation (Min. 1600W/m² per year). In these areas it is estimated that the needs of 3 people is covered with the model of 150 lt instead for 4 people the model of 200 lt is indicated.



MODEL 100



MODEL 150



MODEL 200



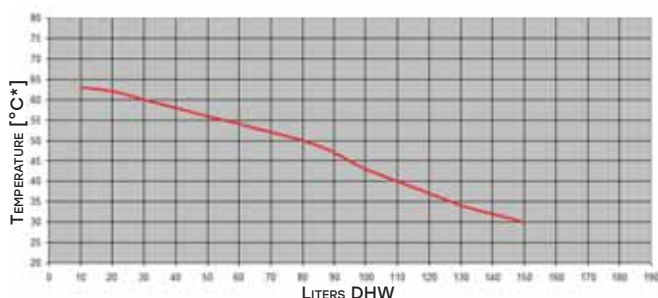
MAXIMUM CONNECTION FLEXIBILITY



Thanks to the 4 standard connections, the STRATOS® system can be installed ensuring maximum installation flexibility.

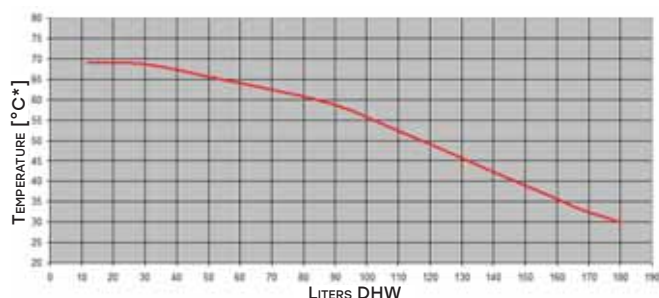
DHW LEVY TEST

TEST PERFORMED IN FEBRUARY



The graphic shows the result of the domestic hot water levy test performed on the 150 lt STRATOS model installed in central Italy (latitude 42° north). Average results achieved during a period in the month of February. On the axis of the ordinates the value drawn in liters is reported according to the outlet temperature.

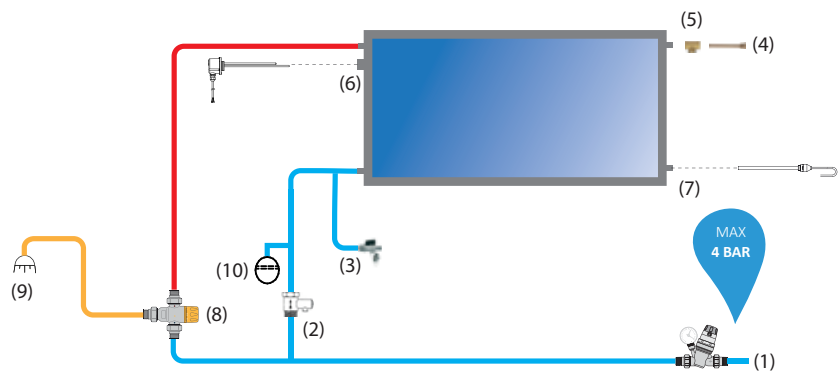
TEST PERFORMED IN MAY



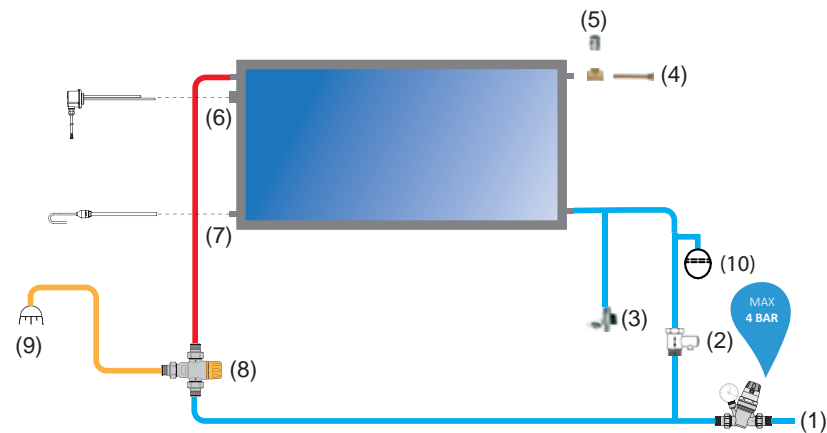
The graphic shows the result of the domestic hot water levy test performed on the 150 lt STRATOS model installed in central Italy (latitude 42° north). Average results achieved during a period in the month of May. On the axis of the ordinates the value drawn in liters is reported according to the outlet temperature.



TYPICAL INSTALLATION SCHEME



INSTALLATION SCHEME FOR MODEL 100/150

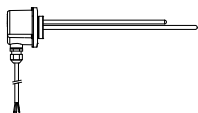


INSTALLATION SCHEME FOR MODEL 200

CONNECTION LEGEND

- Domestic cold water inlet. If the pressure exceeds 4 bar, insert a pressure reducer. The water must be treated according to UNI 8065 standard and the adduction installation must be built according to UNI EN 806
- 1 Domestic cold water inlet. If the pressure exceeds 4 bar, insert a pressure reducer. The water must be treated according to UNI 8065 standard and the adduction installation must be built according to UNI EN 806
 - 2 6 bar safety and non-return valve (included)
 - 3 Drain tap for panel emptying (to be provided by the installer)
 - 4 Temperature probe socket (included)
 - 5 Vacuum break valve (included)
 - 6 1"1/4 gas F connection for integration of electrical immersion heater (to be ordered separately)
 - 7 1/2" gas F connection for anti-freeze Electrical heating (to be ordered separately)
 - 8 Thermostatic mixing valve (to be ordered separately)
 - 9 User
 - 10 Expansion vessel

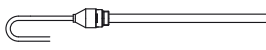
ANTI-FREEZE PROTECTION AND USE OF HEATING ELEMENT



HEATING ELEMENT

HEATING ELEMENT

It is possible to integrate the STRATOS® DR with an electric heating element. The heater is equipped with a comfort temperature regulation thermostat as well as a manual safety reset thermostat. The use of the heating element guarantees DHW available at a comfortable temperature able to meet the minimum requirements of the user.



ANTI-FREEZE HEATING ELEMENT

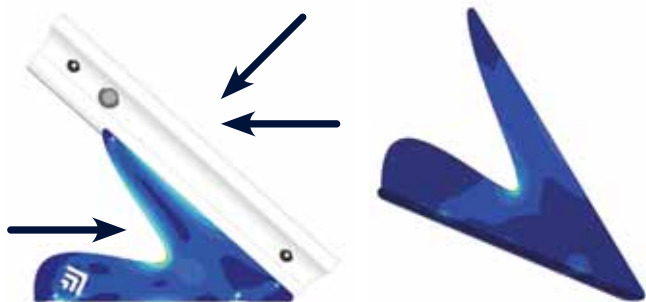
ANTI-FREEZE HEATING ELEMENT

The STRATOS® DR system must be installed in areas free from frost risk. If this does not happen and in any case when it is exposed to temperatures below 0 °C (and in any case not below than -5 °C) the installation and use of the anti-freeze safety heater element is necessary. If the temperature falls below -5°C the system must be emptied and suitably covered and protected. Always refer to the installation manual provided with the product.

ANCHORAGE AND INSTALLATION WITH WINDPROOF BALLAST

The STRATOS® fixing systems, thanks to their specific design are extremely efficient and safe in all circumstances. Design studies and simulations carried out with the aid of highly sophisticated computer simulations such as the FEM, do not show structural criticalities and provide excellent resistance results to wind and snow loads, even in the most unfavorable conditions. The STRATOS® system if installed on flat surfaces must be secured to the ground

to prevent any risk of overturning due to wind forces. Fixing kits for flat surfaces allow anchoring directly to the ground through bolting with screws and dowels. If it is not possible to drill the support surfaces it is necessary to anchor the system through the fixing on ballast in solid and compact material with adequate overall weight. Always refer to the installation manual provided with the product.



SIMULATION WITH REM ANALYSIS OF WIND AND SNOW LOAD



INSTALLATION WITH WINDPROOF BALLAST



SOLAR THERMAL SYSTEM FOR SANITARY WATER WITH FLAT PLATE COLLECTORS



**THERMOSIPHON CIRCULATION
SYSTEMS**

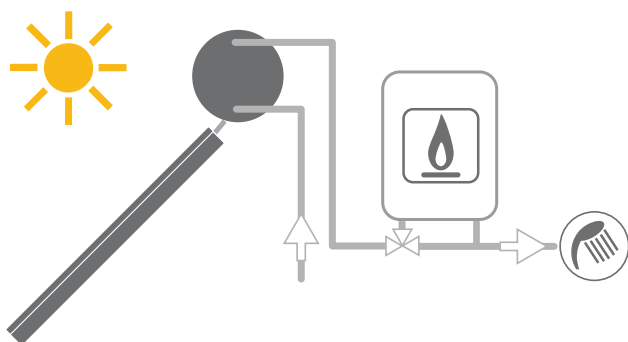


**FORCED CIRCULATION
SYSTEMS**



SOLAR SYSTEM PANAREA

THERMOSIPHON SOLAR SYSTEM FOR DOMESTIC HOT WATER PRODUCTION



THE ONLY ONE WITH UNIVERSAL FIXING KIT INCLUDED



APPLICATION

The Solar Thermal System PANAREA is the most practical and economic solution, due to its reliability and because of an easy and quick installation.

SOLAR COLLECTOR

- Insulation in mineral wool
- Anodized aluminum structure
- Highly selective absorber
- Anti-hail tempered glass
- In compliance with **UNI EN 12975** and **12976** regulations
- DMC Certified

CALORIFIER

- **INTERKA POLYWARM®** with capacity from 150 to 300 lt
- Mild steel
- Internal coating Polywarm® suitable for drinking water according to the D.M. nr 174 of 06/04/2004 and DHW attestations ACS-SSICA-DVGW-W270-UBA-WRAS
- Connections for electrical heater integration
- Double walled heat exchanger
- High thermal insulation with ecological polyurethane hard foam and grey PVC external lining, upper top and flange cover in ABS.
- **PATENTED UNIVERSAL** fixing kit for flat

and pitched roof rapid mounting galvanized according to UNI EN 1179 (99,9 % PURE ZINC)

ACCESSORIES

See accessories section

WARRANTY

5 years
See general sales and warranty conditions

ACCESSORIES ON REQUEST



Electrical integration kit



www.cordivari.com/erp

ON LINE Erp LABEL TOOL

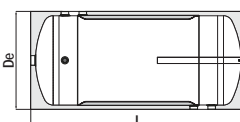
For more information see accessories section.


SYSTEM COMPONENTS	INCLUDED
Highly selective solar collector	✓
INTERKA POLYWARM® Calorifier	✓
Magnesium Anode	✓
Security valve and check valve	✓
Non-toxic heat transfer fluid	✓
Fittings	✓
Universal fixing kit for flat and pitched roofs	✓

ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS

CORDIVARI Lab

TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.



INTERKA POLYWARM®			ENERGY EFFICIENCY CLASS
MODEL	L	De	
	[mm]		
150	1040	550	C
200	1300	550	C
300	1839	550	C

For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.

SOLAR SYSTEM PANAREA

THERMOSIPHON SOLAR SYSTEM FOR DOMESTIC HOT WATER PRODUCTION



Calorifier model	150	200	200	300	300	300
Nr. Of collectors	1 x 2 m ²	1 x 2 m ²	2 x 2 m ²	2 x 2 m ²	2 x 2,5 m ²	3 x 2 m ²
Total surface area m ²	2	2	4	4	5	6
Calorifier type	INTERKA POLYWARM®					
Nr. Recommended users	1-3	3-4 (*)	4-5	5-6 (*)	5-6	6-7
Model description	150/2	200/2	200/4	300/4	300/5	300/6
ART. NR.	3410316603155	3410316603156	3410316603157	3410316603158	3410316603163	3410316603159



STRATOS®

SYSTEMS WITH FLAT COLLECTORS

SYSTEMS WITH SOLAR VACUUM TUBE COLLECTOR

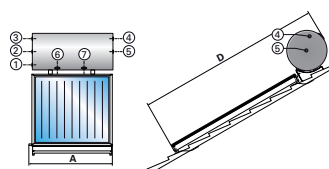
COLLECTORS AND ACCESSORIES

TECHNICAL SUPPORT

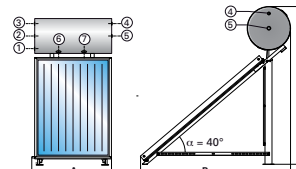
(*) Systems designed for use in areas with high annual sun irradiation more than 1600 kw/h m²

MEASURES OF COLLECTORS

PITCH ROOF SYSTEMS



FLAT ROOF SYSTEMS



Solar collector surface [m ²]	2	2	4	4	5	6
Solar calorifier capacity [lt]	150	200	200	300	300	300
Angle α	Fixed angle of 40°					
Width A [m]	1,1	1,1	2,2	2,2	2,6	3,2
Lenght B [m]	1,91	1,91	1,91	1,91	1,91	1,91
Height H [m]	2,03	2,03	2,03	2,03	2,03	2,03
Dimensions on the roof D [m]	2,75	2,75	2,75	2,75	2,75	2,75

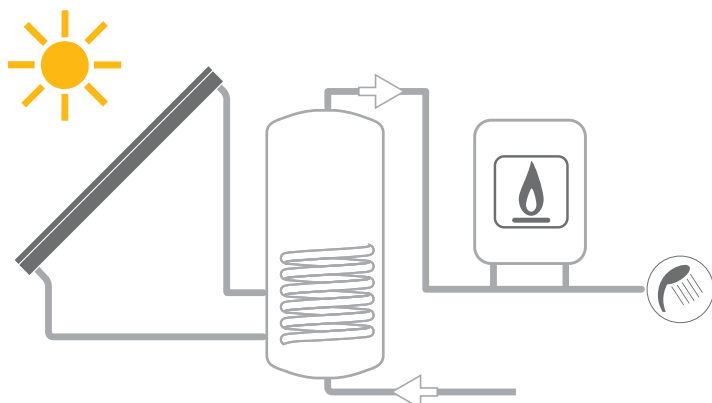
ADVANTAGES OF UNIVERSAL FIXING KIT



Thanks to universal fixing kit of Panarea systems of Cordivari, you can optimize the logistic and the space in your warehouse and offer a better customer service.

SOLAR THERMAL SYSTEM B1

FORCED CIRCULATION SYSTEM WITH A SINGLE FIXED COIL CALORIFIER



EASY INTEGRATION WITH EVERY INSTALLATION



APPLICATION

The Solar thermal system B1 represents the typical and consolidated configuration for forced circulation installations together with the technological improvements result of long experience in the hydro thermal sector and represents the final result of our know how in the production of DHW.

SOLAR COLLECTOR

- Insulation in mineral wool
- Anodized aluminum structure
- Highly selective absorber

- Anti-hail tempered glass
- In compliance with **UNI EN 12975** regulation

CALORIFIER

- **BOLLY® 1 ST** with capacity from 150 to 300 lt in compliance with EN 12897:2006 Regulation
- Mild steel
- Internal coating Polywarm® suitable for drinking water according to the D.M. nr 174 of 06/04/2004 and DHW attestations ACS-SSICA-DVGW-W270-UBA-WRAS
- 1 Polywarm® coated fixed heat exchanger

- Connections for electrical heater integration
- High thermal insulation with ecological polyurethane hard foam and grey PVC external lining, upper top in PVC and flange cover in ABS.

ACCESSORIES

See accessories section

WARRANTY

5 years
See general sales and warranty conditions

ACCESSORIES ON REQUEST



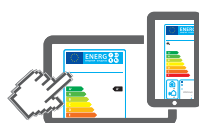
Electrical heating



Pre-insulated pipe



Balancing valve



www.cordivari.com/erp

ON LINE Erp LABEL TOOL

For more information see accessories section.

SYSTEM COMPONENTS

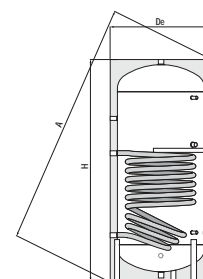
INCLUDED

Highly selective solar collector	✓
BOLLY® 1 ST calorifier	✓
Expansion vessel lt 24	✓
Circulation unit BASIC complete of circulator electronic control, flow regulator, safety valve, thermometer, temperature probes	✓
Non-toxic heat transfer fluid	✓
Solar thermostatic mixing valve	✓
Fixing kit and fittings	✓

ASK ALWAYS FOR CERTIFIED LABORATORIES DATA RESULTS



CORDIVARI®Lab

TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.



BOLLY® 1 ST

ENERGY EFFICIENCY CLASS

MODEL	De	H	A	 
	[mm]			
	150	500	1414	
200	550	1434	1536	B
300	650	1486	1622	C

For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.

SOLAR THERMAL SYSTEM B1

FORCED CIRCULATION SYSTEM WITH A SINGLE FIXED COIL CALORIFIER



STRATOS®

SYSTEMS WITH FLAT COLLECTORS

SYSTEMS WITH SOLAR VACUUM TUBE COLLECTOR

COLLECTORS AND ACCESSORIES

TECHNICAL SUPPORT

Calorifier model	150	200	200	300
Nr. Of collectors	1 x 2,5 m ²	1 x 2,5 m ²	2 x 2,5 m ²	2 x 2,5 m ²
Total surface area m ²	2,5	2,5	5	5
Calorifier type	BOLLY® 1 ST			
Nr. Recommended users	1-3	3-4 (*)	4-5	5-6

	Model description	150B1 2,5MQ TF	200B1 2,5MQ TF	200B1 5MQ TF	300B1 5MQ TF
	ART. NR.	3410316614052	3410316614054	3410316614055	3410316614058

	Model description	150B1 2,5MQ TP	200B1 2,5MQ TP	200B1 5MQ TP	300B1 5MQ TP
	ART. NR.	3410316614152	3410316614154	3410316614155	3410316614158

	Model description	150B1 2,5MQ INCAS.	200B1 2,5MQ INCAS.	200B1 5MQ INCAS.	300B1 5MQ INCAS.
	ART. NR.	3410316614252	3410316614254	3410316614255	3410316614258

EXECUTIONS ON REQUEST

	Model description	150B1 2,5MQ TF OR	200B1 2,5MQ TF OR	200B1 5MQ TF OR	300B1 5MQ TF OR
	ART. NR.	-	3410316614064	3410316614065	-

	Model description	150B1 2,5MQ TP OR	200B1 2,5MQ TP OR	200B1 5MQ TP OR	300B1 5MQ TP OR
	ART. NR.	-	3410316614164	3410316614165	-

	Model description	150B1 2,5MQ VT	200B1 2,5MQ VT	200B1 5MQ VT	300B1 5MQ VT
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SYSTEMS WITHOUT FIXING KIT WITH VERTICAL COLLECTORS

Model description	150B1 2,5MQ SZ CARP.	200B1 2,5MQ SZ CARP.	200B1 5MQ SZ CARP.	300B1 5MQ SZ CARP.
ART. NR.	3410316614352	3410316614354	3410316614355	3410316614358

Fixing kit and other components see accessories section.

(*) Systems designed for use in areas with high annual sun irradiation more than 1600 kw/h m²

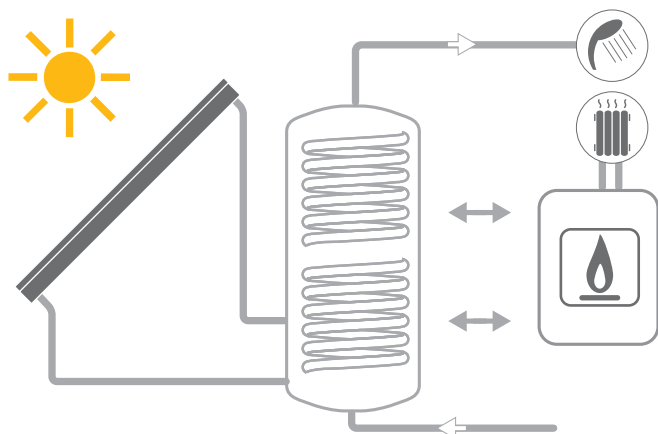


TECHNOLOGY
and
WELLNESS



SOLAR THERMAL SYSTEM B2

FORCED CIRCULATION SYSTEM WITH A DOUBLE FIXED COIL CALORIFIER



RELIABILITY ALL THE YEAR

APPLICATION

The Solar thermal system **B2** represents the most widespread and consolidated configuration of installations. It best expresses the reliability and high performances in the production of DHW through solar source.

SOLAR COLLECTOR

- Insulation in mineral wool
- Anodized aluminum structure
- Highly selective absorber
- Anti-hail tempered glass
- In compliance with **UNI EN 12975** regulation

CALORIFIER

- **BOLLY® 2 ST** with capacity from 150 to 1500 lt in compliance with EN 12897:2006 Regulation
- Mild steel
- Internal coating Polywarm® suitable for drinking water according to the D.M. nr 174 of 06/04/2004 and DHW attestations ACS-SSICA-DVGW-W270-UBA-WRAS
- 2 Polywarm® coated fixed heat exchangers
- Connections for electrical heater integration
- **INSULATION:** Ecological polyurethane **HARD** foam; **SOFT NOFIRE** polyester fleece 100% made of recyclable material with high thermal

insulation. Fire resistance class B-s 2d0 according to EN 13501. Grey PVC external lining, upper top and flange cover in ABS.

ACCESSORIES

See accessories section

WARRANTY

5 years
See general sales and warranty conditions



ACCESSORIES ON REQUEST



Electrical heating



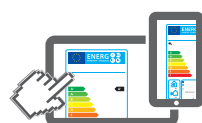
Pre-insulated pipe



Balancing valve



Thermostatic mixing valve (for systems > 500lt)



www.cordivari.com/erp

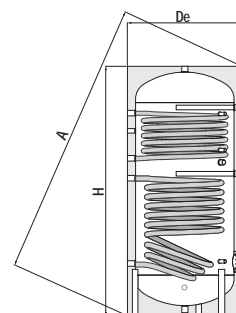
ON LINE ErP LABEL TOOL

For more information see accessories section.

ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS

CORDIVARI Lab

TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.



SYSTEM COMPONENTS

INCLUDED

Highly selective solar collector	✓
BOLLY® 2 ST calorifier	✓
Expansion vessel lt 24 till lt 500; Expansion vessel lt 50 till lt 1500 l	✓
Circulation unit BASIC complete of circulator electronic control, flow regulator, safety valve, thermometer, temperature probes	✓
Non-toxic heat transfer fluid	✓
Solar thermostatic mixing valve (Included up to 500 lt model)	✓
Fixing kit and fittings	✓

BOLLY® 2

ENERGY
EFFICIENCY
CLASS

MODEL	De	H	A	
	[mm]			
150	500	1414	1500	B
200	550	1434	1536	B
300	650	1486	1622	C
400	700	1766	1900	C
500	750	1786	1937	C
800	950	2189	2367	C
1000	1050	2223	2438	C
1500	1150	2471	2705	C



For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.

SOLAR THERMAL SYSTEM B2

FORCED CIRCULATION SYSTEM WITH A DOUBLE FIXED COIL CALORIFIER



Calorifier model	150	200	200	300	300	400
Nr. Of collectors	1 x 2,5 m ²	1 x 2,5 m ²	2 x 2,5 m ²	2 x 2,5 m ²	3 x 2,5 m ²	2 x 2,5 m ²
Total surface area m ²	2,5	2,5	5	5	7,5	5
Calorifier type	BOLLY® 2 ST					
Nr. Recommended users	1-3	3-4 ^(*)	4-5	5-6	5-7	6-7 ^(*)

	Model description	150B2 2,5MQ TF	200B2 2,5MQ TF	200B2 5MQ TF	300B2 5MQ TF	300B2 7,5MQ TF	400B2 5MQ TF
	ART. NR.	3410316618532	3410316618533	3410316618534	3410316618535	3410316618244	3410316618536

	Model description	150B2 2,5MQ TP	200B2 2,5MQ TP	200B2 5MQ TP	300B2 5MQ TP	300B2 7,5MQ TP	400B2 5MQ TP
	ART. NR.	3410316618632	3410316618633	3410316618634	3410316618635	3410316618248	3410316618636

	Model description	150B2 2,5MQ INCAS.	200B2 2,5MQ INCAS.	200B2 5MQ INCAS.	300B2 5MQ INCAS.	300B2 7,5MQ INCAS.	400B2 5MQ INCAS.
	ART. NR.	3410316618232	3410316618233	3410316618234	3410316618235	3410316618245	3410316618236

EXECUTIONS ON REQUEST

	Model description	150B2 2,5MQ TF OR	200B2 2,5MQ TF OR	200B2 5MQ TF OR	300B2 5MQ TF OR	300B2 7,5MQ TF OR	400B2 5MQ TF OR
	ART. NR.	-	3410316618563	3410316618564	3410316618565	3410316618246	3410316618566

	Model description	150B2 2,5MQ TP OR	200B2 2,5MQ TP OR	200B2 5MQ TP OR	300B2 5MQ TP OR	300B2 7,5MQ TP OR	400B2 5MQ TP OR
	ART. NR.	-	3410316618663	3410316618664	3410316618665	3410316618249	3410316618666

	Model description	150B2 2,5MQ VT	200B2 2,5MQ VT	200B2 5MQ VT	300B2 5MQ VT	300B2 7,5MQ VT	400B2 5MQ VT
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SYSTEMS WITHOUT FIXING KIT WITH VERTICAL COLLECTORS

Model description	150B2 2,5MQ SZ CARP.	200B2 2,5MQ SZ CARP.	200B2 5MQ SZ CARP.	300B2 5MQ SZ CARP.	300B2 7,5MQ SZ CARP.	400B2 5MQ SZ CARP.
ART. NR.	3410316618332	3410316618333	3410316618334	3410316618335	3410316618247	3410316618336

Fixing kit and other components see accessories section.

^(*) Systems designed for use in areas with high annual sun irradiation more than 1600 kw/h m²

SOLAR THERMAL SYSTEM B2

FORCED CIRCULATION SYSTEM WITH A DOUBLE FIXED COIL CALORIFIER



STRATOS®

SYSTEMS WITH FLAT COLLECTORS

SYSTEMS WITH SOLAR VACUUM TUBE COLLECTOR

COLLECTORS AND ACCESSORIES

TECHNICAL SUPPORT

400	500	500	800	1000	1000	1500
3 x 2,5 m ²	3 x 2,5 m ²	4 x 2,5 m ²	5 x 2,5 m ²	6 x 2,5 m ²	8 x 2,5 m ²	10 x 2,5 m ²
7,5	7,5	10	12,5	15	20	25
BOLLY® 2 ST						
7-8	8-9	9-12	12-15	15-20	20-24	24-32
400B2 7,5MQ TF	500B2 7,5MQ TF	500B2 10MQ TF	800B2 12,5MQ TF	1000B2 15MQ TF	1000B2 20MQ TF	1500B2 25MQ TF
3410316618537	3410316618538	3410316618539	3410316618540	3410316618541	3410316618542	3410316618543
400B2 7,5MQ TP	500B2 7,5MQ TP	500B2 10MQ TP	800B2 12,5MQ TP	1000B2 15MQ TP	1000B2 20MQ TP	1500B2 25MQ TP
3410316618637	3410316618638	3410316618639	3410316618640	3410316618641	3410316618642	3410316618643
400B2 7,5MQ INCAS.	500B2 7,5MQ INCAS.	500B2 10MQ INCAS.	800B2 12,5MQ INCAS.	1000B2 15MQ INCAS.	1000B2 20MQ INCAS.	1500B2 25MQ INCAS.
3410316618237	3410316618238	3410316618239	3410316618240	3410316618241	3410316618242	3410316618243

EXECUTIONS ON REQUEST

400B2 7,5MQ TF OR	500B2 7,5MQ TF OR	500B2 10MQ TF OR	800B2 12,5MQ TF OR	1000B2 15MQ TF OR	1000B2 20MQ TF OR	1500B2 25MQ TF OR
-	3410316618568	-	-	3410316618571	-	-
400B2 7,5MQ TP OR	500B2 7,5MQ TP OR	500B2 10MQ TP OR	800B2 12,5MQ TP OR	1000B2 15MQ TP OR	1000B2 20MQ TP OR	1500B2 25MQ TP OR
-	3410316618668	-	-	3410316618671	-	-
400B2 7,5MQ VT	500B2 7,5MQ VT	500B2 10MQ VT	800B2 12,5MQ VT	1000B2 15MQ VT	1000B2 20MQ VT	1500B2 25MQ VT

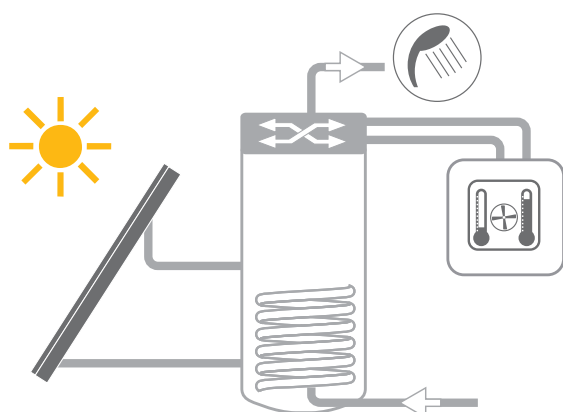
SYSTEMS WITHOUT FIXING KIT WITH VERTICAL COLLECTORS

400B2 7,5MQ SZ CARP.	500B2 7,5MQ SZ CARP.	500B2 10MQ SZ CARP.	800B2 12,5MQ SZ CARP.	1000B2 15MQ SZ CARP.	1000B2 20MQ SZ CARP.	1500B2 25MQ SZ CARP.
3410316618337	3410316618338	3410316618339	3410316618340	3410316618341	3410316618342	3410316618343

Fixing kit and other components see accessories section.

SOLAR THERMAL SYSTEM B2 PDC

SOLAR THERMAL SYSTEMS WITH FORCED CIRCULATION FOR THE PRODUCTION OF DHW WITH INTEGRATION FOR HEAT PUMP



BOLLY® 2 PDC

CALORIFIER
FOR HEAT
PUMP

SOLAR INTEGRATION FOR HEAT PUMP



APPLICATION

The Solar Thermal System B2 PDC represents the most advanced evolution of thermal solar system suitable to produce DHW. Thanks to the new exchanger group for heat pumps, it provides the most efficient integration system.

SOLAR COLLECTOR

- Insulation in mineral wool
- Anodized aluminum structure
- Highly selective absorber
- Anti-hail tempered glass
- In compliance with **UNI EN 12975** regulation

CALORIFIER

- **BOLLY® 2 PDC** with capacity from 300 to 500 lt in compliance with EN 12897:2006 Regulation
- Mild steel
- Internal coating Polywarm® suitable to drinking water according to the D.M. nr 174 of 06/04/2004, attestations of internal treatment Polywarm for potability: ACS-SSICA-DVGW-W270-UBA-WRAS
- Polywarm® coated Fixed heat exchanger
- High thermal insulation
- External lining, top covering and flange covering in PVC
- Exchange module system equipped with exchanger at heat charge from the top.

ACCESSORIES

See accessories section

WARRANTY

5 years
See general sales and warranty conditions

PATENTED EXCHANGE SYSTEM



ACCESSORIES ON REQUEST



Electrical heating



Pre-insulated pipe



Balancing valve



www.cordivari.com/erp

ON LINE ERP LABEL TOOL

For more information see accessories section.

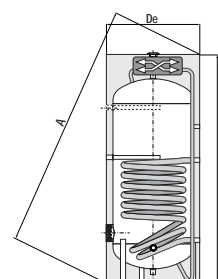
SYSTEM COMPONENTS

INCLUDED

Highly selective solar collector	✓
BOLLY® 2 PDC calorifier	✓
Expansion vessel lt 24	✓
Circulation unit BASIC complete of circulator electronic control, flow regulator, safety valve, thermometer, temperature probes	✓
Non-toxic heat transfer fluid	✓
Solar thermostatic mixing valve	✓
Fixing kit and fittings	✓

ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS
CORDIVARI®Lab

TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.



BOLLY® 2 PDC

ENERGY
EFFICIENCY
CLASS

MODEL	De	H	A	TESTED ErP
	[mm]			
300	650	1600	1727	C
500	750	1900	2043	C

For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.

SOLAR THERMAL SYSTEM B2 PDC

SOLAR THERMAL SYSTEMS WITH FORCED CIRCULATION FOR THE PRODUCTION OF DHW
WITH INTEGRATION FOR HEAT PUMP



Calorifier model	300	500	500
Nr. Of collectors	2 x 2,5 m ²	3 x 2,5 m ²	4 x 2,5 m ²
Total surface area m ²	5	7,5	10
Calorifier type	BOLLY® 2 PDC		
Nr. Recommended users	1-6	6-9	9-12

	Model description	300B2P 5MQ TF	500B2P 7,5MQ TF	500B2P 10MQ TF
	ART. NR.	3410316618585	3410316618588	3410316618589

	Model description	300B2P 5MQ TP	500B2P 7,5MQ TP	500B2P 10MQ TP
	ART. NR.	3410316618685	3410316618688	3410316618689

	Model description	300B2P 5MQ INCAS.	500B2P 7,5MQ INCAS.	500B2P 10MQ INCAS.
	ART. NR.	3410316618285	3410316618288	3410316618289

EXECUTIONS ON REQUEST

	Model description	300B2P 5MQ TF OR	500B2P 7,5MQ TF OR	500B2P 10MQ TF OR
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	Model description	300B2P 5MQ TP OR	500B2P 7,5MQ TP OR	500B2P 10MQ TP OR
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	Model description	300B2P 5MQ VT	500B2P 7,5MQ VT	500B2P 10MQ VT
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SYSTEMS WITHOUT FIXING KIT WITH VERTICAL COLLECTORS

Model description	300B2P 5MQ SZ CARP.	500B2P 7,5M SZ CARP.	500B2P 10MQ SZ CARP.
ART. NR.	3410316618385	3410316618388	3410316618389

Fixing kit and other components see accessories section..

STRATOS®

SYSTEMS WITH FLAT
COLLECTORS

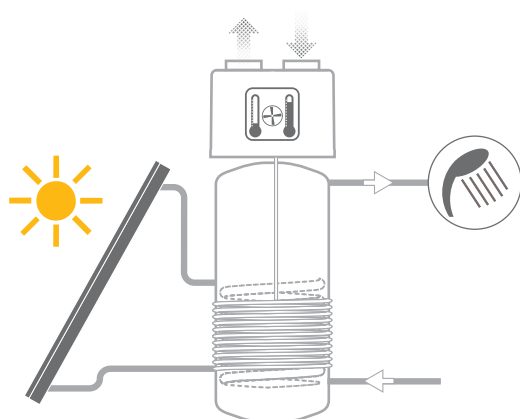
SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR

COLLECTORS AND
ACCESSORIES

TECHNICAL SUPPORT

SOLAR THERMAL SYSTEM BOLLYTERM® HP

FORCED CIRCULATION SYSTEM WITH CALORIFIER FOR HEAT PUMP



SYSTEM WITH
ENERGY
EFFICIENCY

CLASS
A+++



BOLLYTERM®
HP 1 - HP 2

CALORIFIER
FOR HEAT
PUMP

SOLAR THERMAL SYSTEM WITH CALORIFIER FOR HEAT PUMP



APPLICATION

The solar thermal system **BOLLYTERM® HP** guarantees the total coverage of the DHW requirements with renewable energy source through the integrated heat pump and solar collectors.

The elevated C.O.P of the thermodynamic water heater ensures maximum energy savings in support of the solar collectors by configuring a system with energy efficiency class A+++.

SOLAR COLLECTOR

- Insulation in mineral wool
- Anodized aluminum structure
- Highly selective absorber

INTEGRATED HEAT PUMP

The Cordivari calorifier with integrated heat pump **BOLLYTERM® HP** produced domestic hot water using the heat naturally present in the air, allowing significant energy and economic savings.

The principle of the heat pump is based on the exploitation of a particular ecological gas (R134a), thanks to compression and expansions, allows high and advantageous energy efficiency. The heat taken from the air is transferred to the water by means of a condenser coil that is wrapped around the outside of the tank. In this way any contact between the heat transfer fluid and the domestic hot water is avoided as a guarantee of maximum safety and hygiene. The efficiency is indicated by the coefficient of performance (C.O.P) that indicates the ratio between the energy used and the one obtained to heat the water contained in the tank.

- Anti-hail tempered glass
- In compliance with **UNI EN 12975** regulation

CALORIFIER

- **BOLLYTERM® HP** with 200 or 300 lt capacity
- Mild steel
- Integrated heat pump
- Internal Polywarm® coating, suitable for drinking water (D.M. n.174 of the 06.04.04)
- Polywarm® coated fixed heat exchanger
- High thermal insulation with ecological polyurethane hard foam and grey PVC external lining, upper top and flange cover in ABS.

CERTIFICATIONS

Internal POLYWARM® coating, DHW attestations SSICA, DVGW, W270, UBA, WRAS

ACCESSORIES

See accessories section

WARRANTY

5 years

See general sales and warranty conditions

ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS

CORDIVARI® Lab

TUV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ERP Directive.



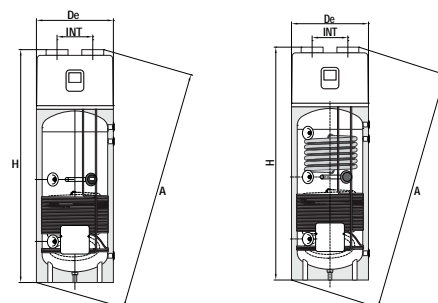
www.cordivari.com/erp

ON LINE ERP LABEL TOOL

SYSTEM COMPONENTS

INCLUDED

Highly selective solar collector	✓
BOLLYTERM® HP calorifier (HP1 or HP2)	✓
Expansion vessel lt 24	✓
Circulation unit BASIC complete of circulator electronic control, flow regulator, safety valve, thermometer, temperature probes	✓
Non-toxic heat transfer fluid	✓
Solar thermostatic mixing valve	✓
Fixing kit and fittings	✓



BOLLYTERM® HP 1

MODEL	INT	De	H	A	ENERGY EFFICIENCY CLASS
	[mm]				
200	340	640	1585	1684	A+
300	340	640	1960	2040	A+

BOLLYTERM® HP 2

300	340	640	1960	2040	A+
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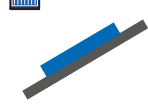
For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.



SOLAR THERMAL SYSTEM BOLLYTERM® HP



FORCED CIRCULATION SYSTEM WITH CALORIFIER FOR HEAT PUMP



Calorifier model	200	300	300
Nr. Of collectors	2 x 2,5 m ²	2 x 2,5 m ²	2 x 2,5 m ²
Total surface area m ²	5	5	5
Calorifier type	BOLLYTERM® HP 1		BOLLYTERM® HP 2
Nr. Recommended users	4-5	5-6	5-6


	Model description	200HPI 5MQ TF	300HPI 5MQ TF	300HP2 5MQ TF
	ART. NR.	3410316617405	3410316617407	3410316617438



	Model description	200HPI 5MQ TP	300HPI 5MQ TP	300HP2 5MQ TP
	ART. NR.	3410316617415	3410316617417	3410316617439

	Model description	200HPI 5MQ INCAS.	300HPI 5MQ INCAS.	300HP2 5MQ INCAS.
	ART. NR.	3410316617425	3410316617427	3410316617440

EXECUTIONS ON REQUEST

	Model description	200HPI 5MQ TF OR	300HPI 5MQ TF OR	300HP2 5MQ TF OR
				

	Model description	200HPI 5MQ TP OR	300HPI 5MQ TP OR	300HP2 5MQ TP OR
				

	Model description	200HPI 5MQ VT	300HPI 5MQ VT	300HP2 5MQ VT
				

SYSTEMS WITHOUT FIXING KIT WITH VERTICAL COLLECTORS

Model description	200HPI 5MQ SZ CARP.	300HPI 5MQ SZ CARP.	300HP2 5MQ SZ CARP.
ART. NR.	3410316617435	3410316617437	3410316617441

Fixing kit and other components see accessories section.

STRATOS®

SYSTEMS WITH FLAT COLLECTORS

SYSTEMS WITH SOLAR VACUUM TUBE COLLECTOR

COLLECTORS AND ACCESSORIES

TECHNICAL SUPPORT



CORDIVARI

DHW

SOLAR THERMAL SYSTEMS WITH VACUUM TUBE COLLECTORS



STRATOS®

SYSTEMS WITH FLAT
COLLECTORS

SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR

COLLECTORS AND
ACCESSORIES

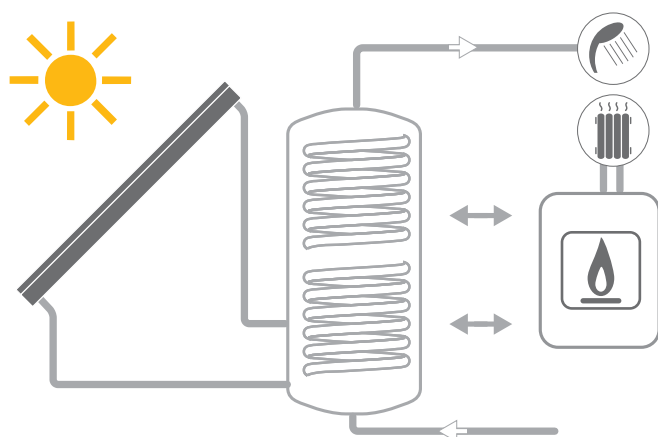
TECHNICAL SUPPORT

SOLAR THERMAL SYSTEM B2 CVT

FORCED CIRCULATION SYSTEM FOR DHW WITH VACUUM TUBE COLLECTORS AND DOUBLE COIL CALORIFIER FOR BOILER INTEGRATION



NEW



POWERFUL AND RELIABLE



APPLICATION

The **B2 CVT** solar thermal system employs the Cordivari CVT vacuum tube collectors in combination with the configuration with the calorifier with 2 fixed heat exchangers. This maximizes the performance in the production of DHW from solar heat source even at higher latitudes or in very cold climates thanks to the high selective collectors with vacuum technology.

SOLAR COLLECTOR CVT

High selective solar vacuum tube collector PVD, of the type Sydney with heat pipe technology.
- Anodized aluminum structure.

- Parabolic concentrator mirror CPC
- Anti-hail tubes
- In compliance with **UNI EN 12975** regulation

CALORIFIER

- **BOLLY® 2 ST** with capacity from 150 to 1500
- It In compliance with EN 12897:2006 Regulation
- Mild steel
- Internal coating Polywarm® suitable for drinking water according to the D.M. nr 174 of 06/04/2004 and DHW attestations ACS-SSICA-DVGW-W270-UBA-WRAS
- 2 Polywarm® coated fixed heat exchangers
- Connection for electrical heater integration

- High thermal insulation with ecological polyurethane hard foam and grey PVC external lining, upper top and flange cover in ABS.

ACCESSORIES

See accessories section

WARRANTY

5 years
See general sales and warranty conditions

ACCESSORIES ON REQUEST



Electrical heating



Pre-insulated pipe



Balancing valve



Thermostatic mixing valve
(for systems > 500lt)



www.cordivari.com/erp

ON LINE Erp LABEL TOOL

For more information see accessories section.

SYSTEM COMPONENTS

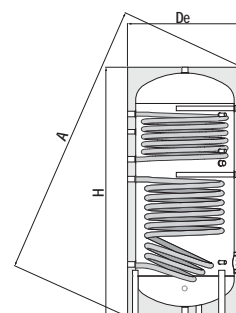
INCLUDED

High selective solar vacuum tube collector PVD, of the type Sydney with heat pipe technology	✓
BOLLY® 2 ST calorifier	✓
Expansion vessel It 24	✓
Circulation unit BASIC complete of circulator electronic control, flow regulator, safety valve, thermometer, temperature probes	✓
Non-toxic heat transfer fluid	✓
Solar thermostatic mixing valve (Included up to 500 lt model)	✓
Fixing kit and fittings	✓

ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS


CORDIVARI® Lab

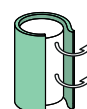
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BOLLY® 2

ENERGY
EFFICIENCY
CLASS

MODEL	CLASS			
	De	H	A	
	[mm]			
150	500	1414	1500	B
200	550	1434	1536	B
300	650	1486	1622	C
400	700	1766	1900	C
500	750	1786	1937	C
800	950	2189	2367	C
1000	1050	2223	2438	C
1500	1150	2471	2705	C



For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.

SOLAR THERMAL SYSTEM B2 CVT

FORCED CIRCULATION SYSTEM FOR DHW WITH VACUUM TUBE COLLECTORS AND DOUBLE COIL CALORIFIER FOR BOILER INTEGRATION



MODEL CALORIFIER	150	200	200	300	300	400	500
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Nr. Of collectors (*)	1x10	1x10	1x15	2x10	2x15	2x15	2x15
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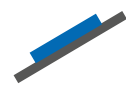
Total surface area m ²	2,17	2,17	3,22	4,34	6,44	6,44	6,44
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Calorifier type BOLLY® 2 ST

Nr. Recommended users	1-3	3-4	4-5	5-6	5-7	6-7	7-8
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Model description	150B2 CVT10 TF	200B2 CVT10 TF	200B2 CVT15 TF	300B2 2CVT10 TF	300B2 2CVT15 TF	400B2 2CVT15 TF	500B2 2CVT15 TF
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ART. NR.	3410316618901	3410316618902	3410316618903	3410316618904	3410316618905	3410316618906	3410316618907
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Model description	150B2 CVT10 TP	200B2 CVT10 TP	200B2 CVT15 TP	300B2 2CVT10 TP	300B2 2CVT15 TP	400B2 2CVT15 TP	500B2 2CVT15 TP
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ART. NR.	3410316618914	3410316618915	3410316618916	3410316618917	3410316618918	3410316618919	3410316618920
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MODEL CALORIFIER	500	800	800	1000	1500	1500
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Nr. Of collectors (*)	4x10	4x15	5x15	5x15	6x15	8x15
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Total surface area m ²	8,68	12,88	16,1	16,1	19,32	25,76
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Calorifier type BOLLY® 2 ST

Nr. Recommended users	8-9	9-12	12-15	15-20	20-24	24-32
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Model description	500B2 4CVT10 TF	800B2 4CVT15 TF	800B2 5CVT15 TF	1000B2 5CVT15 TF	1500B2 6CVT15 TF	1500B2 8CVT15 TF
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ART. NR.	3410316618908	3410316618909	3410316618910	3410316618911	3410316618912	3410316618913
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Model description	500B2 4CVT10 TP	800B2 4CVT15 TP	800B2 5CVT15 TP	1000B2 5CVT15 TP	1500B2 6CVT15 TP	1500B2 8CVT15 TP
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ART. NR.	3410316618921	3410316618922	3410316618923	3410316618924	3410316618925	3410316618926
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(*) Cordivari vacuum tube collectors CVT10 and CVT15 (with heat pipe technology).

Fixing kit and other components see accessories section.

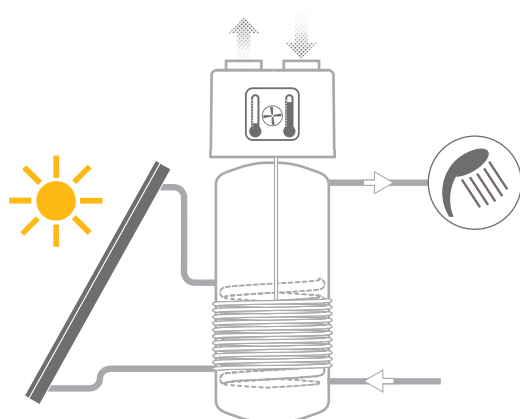
SOLAR THERMAL SYSTEM BOLLYTERM® HP CVT

FORCED CIRCULATION SYSTEM FOR DHW WITH VACUUM TUBE COLLECTORS AND CALORIFIER FOR HEAT PUMP



NEW

BOLLYTERM®
HP 1 - HP 2



SYSTEM WITH
ENERGY
EFFICIENCY

CLASS
A+++



ENERGY SAVINGS THROUGHOUT THE WHOLE YEAR



APPLICATION

The solar thermal system **BOLLYTERM® HP CVT** guarantees total coverage of DHW demand even in the most difficult climatic conditions with renewable energy sources through the integrated heat pump and the solar collectors with Cordivari vacuum technology CVT.

The high C.O.P guarantees maximum energy savings in support of the CVT collectors and the specific calorifier for solar systems that maximizes the performances of both energy sources by configuring a system with energy efficiency class A+++.

SOLAR COLLECTOR CVT

High selective solar vacuum tube collector PVD, of the type Sydney with heat pipe technology.

- Anodized aluminum structure.
- Parabolic concentrator mirror CPC
- Anti-hail tubes
- In compliance with **UNI EN 12975** regulation

CALORIFIER

- **BOLLYTERM® HP** from 200 and 300 lt capacity
- Mild steel
- Integrated heat pump
- Internal Polywarm coating, suitable for drinking water (D.M. n.174 of the 06.04.04)
- 1 or 2 Polywarm® coated fixed heat exchanger

- High thermal insulation with ecological polyurethane hard foam and grey PVC external lining, upper top and flange cover in ABS.

CERTIFICATIONS

Internal POLYWARM® coating, DHW attestations SSICA, DVGW, W270, UBA, WRAS

ACCESSORIES

See accessories section

WARRANTY

5 years
See general sales and warranty conditions

INTEGRATED HEAT PUMP

The Cordivari calorifier with integrated heat pump BOLLYTERM HP produced domestic hot water using the heat naturally present in the air, allowing significant energy and economic savings.

The principle of the heat pump is based on the exploitation of a particular ecological gas (R134a), thanks to compression and expansions, allows high and advantageous energy efficiency. The heat taken from the air is transferred to the water by means of a condenser coil that is wrapped around the outside of the tank. In this way any contact between heat transfer fluid and the domestic hot water is avoided as a guarantee of maximum safety and hygiene. The efficiency is indicated by the coefficient of performance (C.O.P) that indicates the ratio between the energy used and the one obtained to heat the water contained in the tank.



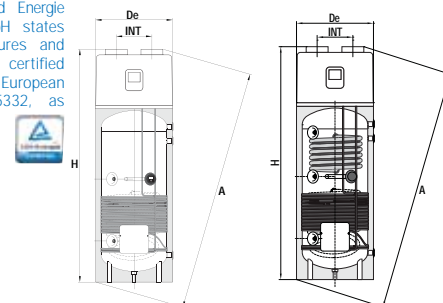
www.cordivari.com/erp

ON LINE ErP LABEL TOOL

ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS

CORDIVARI Lab

TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by EArt. Nr.sign ErP Directive.



SYSTEM COMPONENTS

INCLUDED

High selective solar vacuum tube collector PVD, of the type Sydney with heat pipe technology	✓
BOLLYTERM® HP1 or HP2	✓
Expansion vessel lt 24	✓
Circulation unit BASIC complete of circulator electronic control, flow regulator, safety valve, thermometer, temperature probes	✓
Non-toxic heat transfer fluid	✓
Solar thermostatic mixing valve	✓
Fixing kit and fittings	✓

BOLLYTERM® HP 1

ENERGY
EFFICIENCY
CLASS

MODEL	INT	De	H	A	TESTED ErP
				[mm]	
200	340	640	1585	1684	A+
300	340	640	1960	2040	A+

BOLLYTERM® HP 2

300	340	640	1960	2040	A+
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For more information and technical data of the calorifiers and buffer tanks please refer to the Cordivari Calorifiers and buffer tanks catalogue.

SOLAR THERMAL SYSTEM BOLLYTERM® HP CVT

FORCED CIRCULATION SYSTEM FOR DHW WITH VACUUM TUBE COLLECTORS AND CALORIFIER FOR HEAT PUMP



Calorifier model	200	200	300	300
Nr. Of collectors (*)	1x10	1x15	2x10	2x15
Total surface area m ²	2,17	3,22	4,34	6,44
Calorifier type	BOLLYTERM® HP 1			
Nr. Recommended users	4-5	5-6	5-6	6-7

	Model description	200HPI CVT10 TF	200HPI CVT15 TF	300HPI 2CVT10 TF	300HPI 2CVT15 TF
	ART. NR.	3410316618939	3410316618940	3410316618941	3410316618942

	Model description	200HPI CVT10 TP	200HPI CVT15 TP	300HPI 2CVT10 TP	300HPI 2CVT15 TP
	ART. NR.	3410316618943	3410316618944	3410316618945	3410316618946

Calorifier model	300	300
Nr. Of collectors (*)	2x10	2x15
Total surface area m ²	4,34	6,44
Calorifier type	BOLLYTERM® HP 2	
Nr. Recommended users	5-6	6-7

	Model description	300HP2 2CVT 10 TF	300HP2 2CVT 15 TF
	ART. NR.	3410316618947	3410316618948

	Model description	300HP2 2CVT 10 TP	300HP2 2CVT 15 TP
	ART. NR.	3410316618949	3410316618950

(*) Cordivari vacuum tube collectors CVT10 and CVT15 (with heat pipe technology).

Fixing kit and other components see accessories section.



COLLECTORS AND ACCESSORIES



STRATOS®

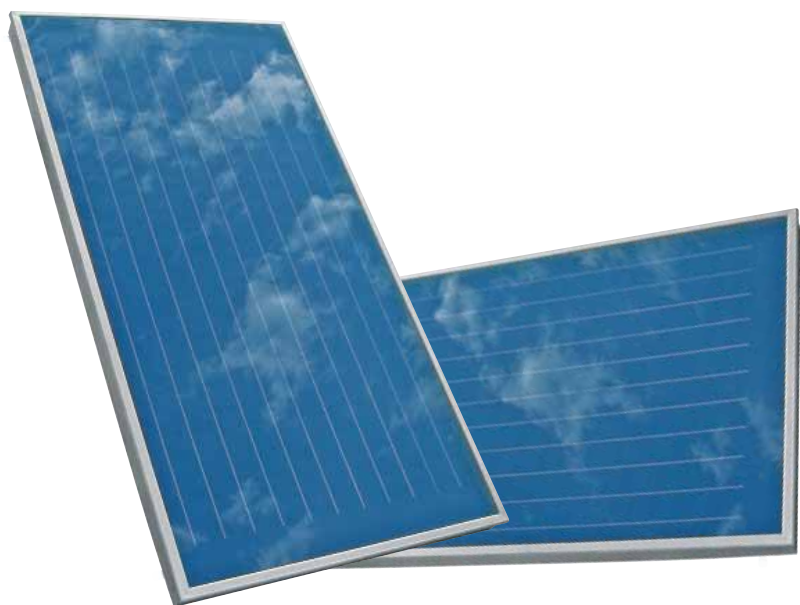
SYSTEMS WITH FLAT
COLLECTORS

SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR

COLLECTORS AND
ACCESSORIES

TECHNICAL SUPPORT

FLAT PLATE SOLAR COLLECTORS



Applications:
Forced circulation thermal systems.

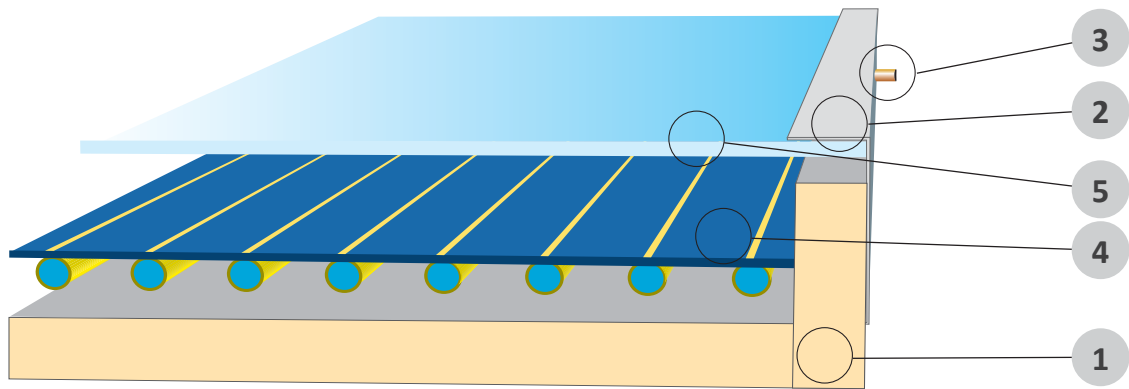
Characteristics:
Lateral connections, universal collector for forced circulation systems.

Solar Keymark

Technical data	
Max P.	10 bar
Max T.	199° C
Gaskets	EPDM - Silicone

Cordivari flat plate solar collectors are manufactured with aluminum frame, insulation of mineral wool, highly selective absorber covered in titanium oxides and tempered anti-hail solar glass cover, in order to offer the most performant solution in the solar thermal field. Cordivari flat plate solar

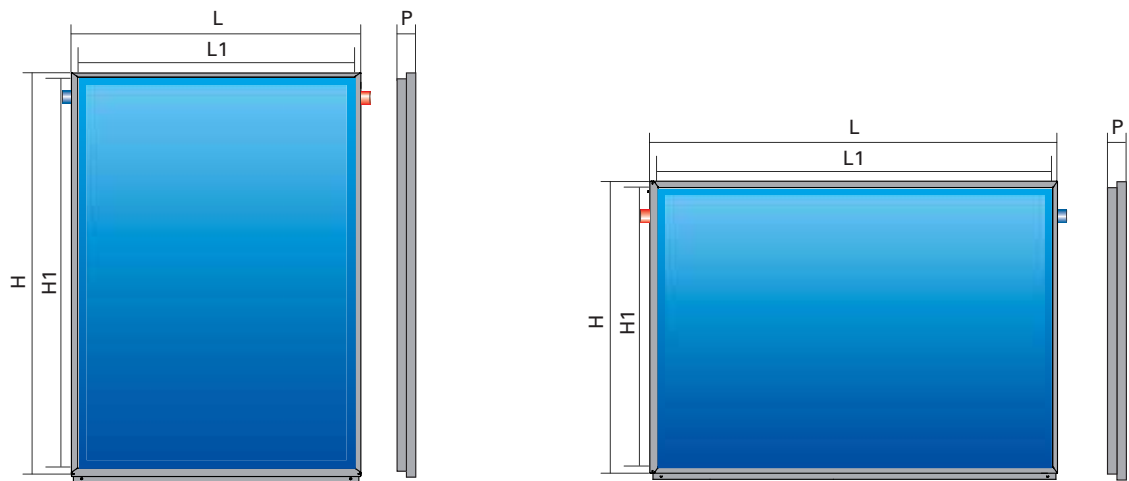
collectors are the best solution for efficient and high-performing solar thermal systems thanks to the quality of the materials, the reliability of the functioning and to the multiple opportunities of integration.



DESCRIPTION

1	Insulation in mineral wool
2	Aluminium frame
3	Connections Ø 22 mm
4	Full plate absorber with high selective coating
5	Anti-hail tempered glass

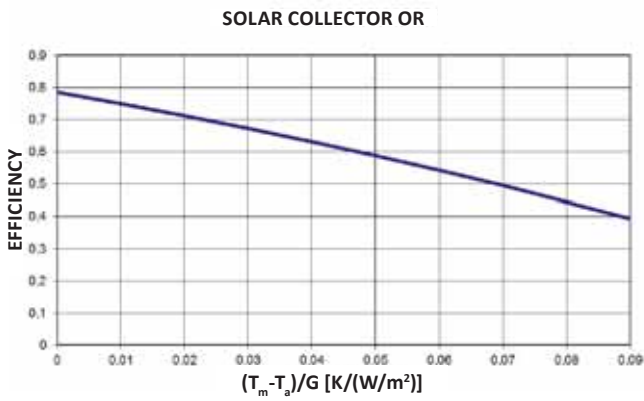
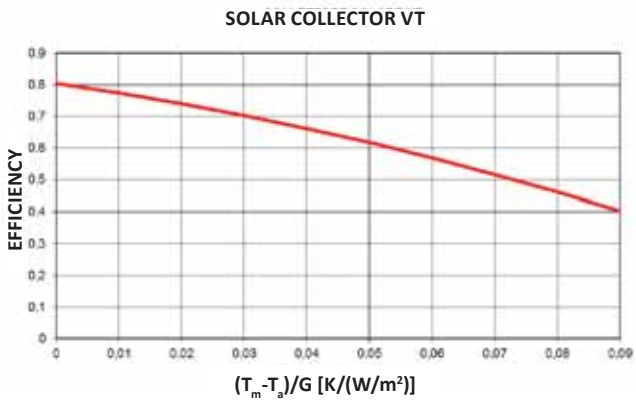
FLAT PLATE SOLAR COLLECTORS



ART. NR.	VERSION	GROSS DIMENSIONS				OPENING SURFACE	Weight	Capacity	CONNECTIONS	
		L	H	P	Surface				N°	[mm]
		[mm]			[m²]				[m²]	[kg]
3400306501310	VT	1250	2000	85	2,5*	2,32	34	1,9	2	ø 22
3400306501311	OR	2000	1250	85	2,5*	2,32	34	1,9	2	ø 22

* For the detailed calculation please always refer to the product certification and to test reports.

EFFICIENCY CURVES (Solar radiation values G dir = 850 W/m² G dif = 150 W/m²)



SOLAR COLLECTORS EFFICIENCY CURVE

The immediate efficiency curve of a solar collector represents its performances “ID”, that allows to quantify the solar collector capacity to turn the energy into thermal energy. Efficiency is defined as the relationship between the thermal power filtered by the heat transfer fluid and the sun’s rays affecting the solar collector. For convenience, one refers always to a square meter (1 m²) surface. So on the vertical axis, the efficiency η (eta) is the relationship between

the power absorbed by the heat transfer fluid circulating in one square meter of the solar collector (W/m²). It is clear that the efficiency so defined is an actual value depending on test conditions as well as on the collector type. On the horizontal axis we find the relationship between the temperature Δt and the power of the solar radiation affecting on the collector. Δt is the difference between the average temperature of the heat transfer fluid inside the solar collector and the environment temperature.

VACUUM TUBE COLLECTORS CVT



Technical data

Max P.	10 bar
Max T.	280° C
Gaskets	EPDM - Silicone

Applications:
Forced circulation thermal systems.

Characteristics:
Lateral connections, universal collector for forced circulation systems.

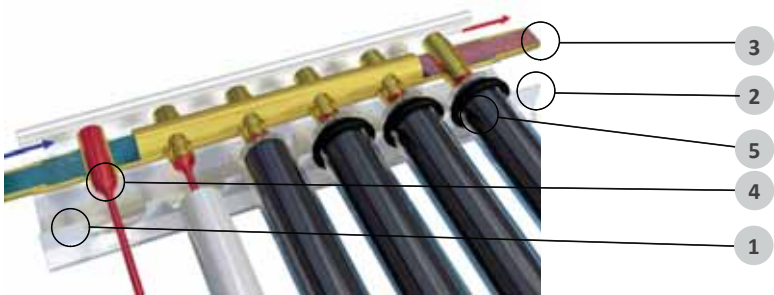
Solar Keymark

Cordivari CVT solar collectors are composed of a series of vacuum tubes Sydney type, that captures the incidence of solar energy. Thanks to the gap from which air is evacuated to obtain the vacuum, this kind of collector can

reach high performances even in colder seasons. The collectors CVT are designed with heat pipe technology that allows a better maintenance and protection against stagnation.

HEAT PIPE TECHNOLOGY

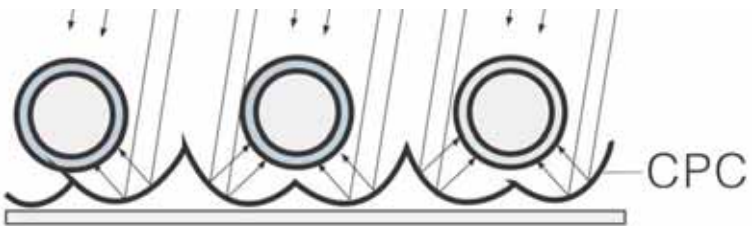
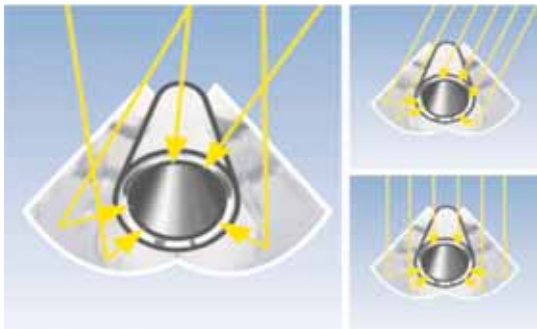
In this technology the pipe heats up with the heat coming from the absorber and vaporizes the small quantity of fluid that naturally raises to the top, then it condenses and transfers heat to the heat-transfer fluid of the primary circuit and comes back to liquid state. Heat pipes are placed inside the double concentric tubes made in borosilicate glass (mod. Sydney). Thanks to its insulating properties (thermos effect), the vacuum between the glass pipes drastically reduces the heat loss, increasing the available energy produced by the sun.



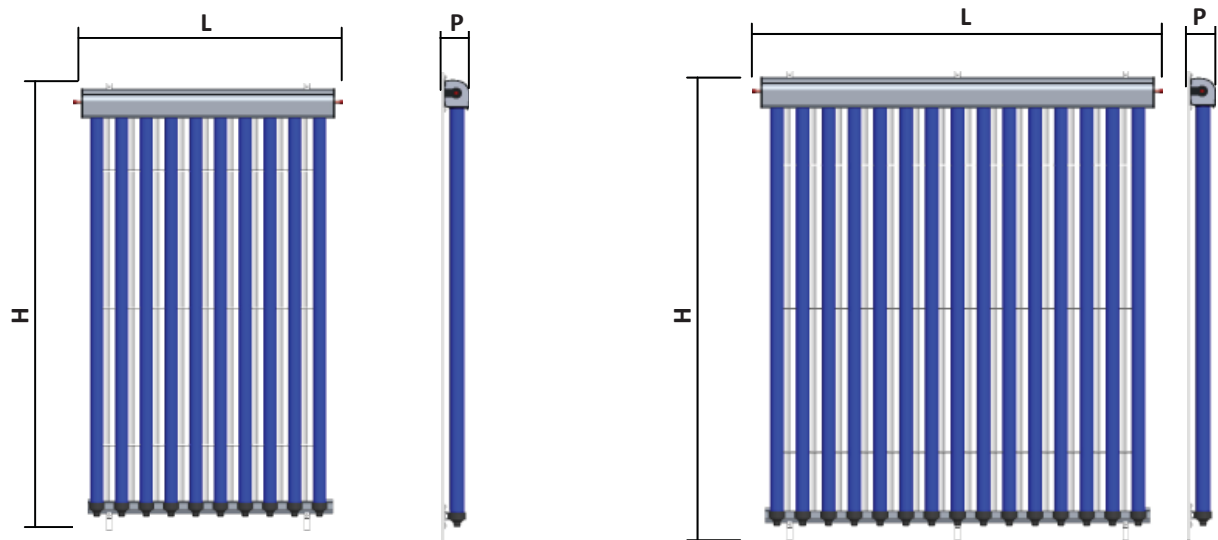
DESCRIPTION	
1	Insulation in mineral wool
2	Anodized aluminum structure
3	Connection Ø 22 mm
4	Heat pipe
5	Vacuum glass tube Sydney type

COMPOUND PARABOLIC CONCENTRATOR (CPC)

A special CPC behind the tubes leads the sunlight, even from different angles, exactly to the absorber. This system allows Cordivari vacuum tube collectors CVT to reach high performances with small dimensions and maximum direct and widespread energy absorption.



VACUUM TUBE COLLECTORS CVT

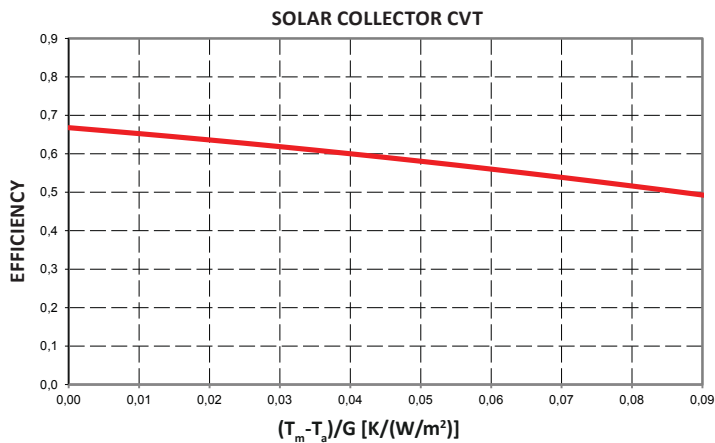


ART. NR.	VERSION	GROSS DIMENSIONS				OPENING SURFACE	Weight	Capacity	CONNECTIONS	
		L	H	P	Surface				N°	[mm]
		[mm]			[m²]					
3400306500201	10 TUBES	1130	1917	133	2,17*	1,78	28,5	0,94	2	ø 22
3400306500202	15 TUBES	1680	1917	133	3,22*	2,72	39	1,41	2	ø 22

* For the detailed calculation please always refer to the product certification and to test reports.

Fixing kit for pitched roofs is included with vacuum tube collectors CVT.

EFFICIENCY CURVES (Solar radiation values G dir = 850 W/m² G dif = 150 W/m²)



VACUUM TUBE COLLECTORS EFFICIENCY CURVES

The immediate efficiency curve of a solar collector represents its performances “ID”, that allows to quantify the solar collector capacity to turn the energy into thermal energy. Efficiency is defined as the relationship between the thermal power filtered by the heat transfer fluid and the sun’s rays affecting the solar collector. For convenience, one refers always to a square meter (1 m²) surface. So on the vertical axis, the efficiency η (eta) is the relationship between

the power absorbed by the heat transfer fluid circulating in one square meter of the solar collector (W/m²). It is clear that the efficiency so defined is an actual value depending on test conditions as well as on the collector type. On the horizontal axis we find the relationship between the temperature Δt and the power of the solar radiation affecting on the collector. Δt is the difference between the average temperature of the heat transfer fluid inside the solar collector and the environment temperature.

FIXING KIT FOR FORCED CIRCULATION SYSTEMS



PITCHED ROOFS

Art. Nr.	5770001100231	5770001100232	5770001100234
Description	Kit for 2,5 m² collector	Kit for 2 x 2,5 m² collectors	Kit for 3 x 2,5 m² collectors
MATERIAL	Galvanized carbon steel		

FLAT ROOFS

Art. Nr.	5770001100322	5770001100324	5770001100326
€	222,00	239,00	348,00
Description	Kit for 2,5 m² collector	Kit for 2 x 2,5 m² collectors	Kit for 3 x 2,5 m² collectors
MATERIAL	Galvanized carbon steel		

BUILT-IN SYSTEMS

Art. Nr.	5770001100723	5770001100722	5770001100726	5770001100724	5770001100725
Description	Kit for 2,5 m² collector	Kit for 2 x 2,5 m² collectors	Kit for 3 x 2,5 m² collectors	Kit for 4 x 2,5 m² collectors	Kit for 6 x 2,5 m² collectors
MATERIAL	Galvanized carbon steel and bituminous wavy panels				

SIZES OF FLAT COLLECTOR ARRAYS

FORCED CIRCULATION

	PITCHED ROOF SYSTEMS			SUSPENDED PITCHED ROOF SYSTEMS			BUILT-IN SYSTEMS			FLAT ROOF SYSTEMS		
N° of collector per row	1	2	3	1	2	3	1	2	3	1	2	3
Width L [m]	1,26	2,62	3,98	1,35	2,6	4	1,9	3	4,4	1,26	2,62	3,98
Height H [m]	-	-	-	-	-	-	-	-	-	1,42	1,42	1,42
Dimension on the roof D [m]	2,06	2,06	2,06	2,05	2,05	2,05	2,7	2,7	2,7	1,8	1,8	1,8

FIXING KIT ON VERTICAL WALLS

HORIZONTAL INSTALLATION

	Art. Nr.	5770001100406
	DESCRIPTION	1 x 2,5 m² horizontal collector
	MATERIAL	Galvanized steel

VERTICAL INSTALLATION

	Art. Nr.	5770001100407
	DESCRIPTION	1 x 2,5 m² vertical collector
	MATERIAL	Galvanized steel

FIXING KIT FOR FORCED CIRCULATION SYSTEMS



BUILT-IN PROCEDURE

CORDIVARI PATENTED

- RELIABLE AND SAFE
- QUICK TO INSTALL
- IT CAN BE USED WITH STANDARD COLLECTORS

Cordivari patented built-in solar panels represents the best solution for built-in installations of flat plate solar collectors. It guarantees the maximum safety sealing against water infiltrations under the cover, it allows a quick and easy installation without specialized metal process interventions. It ensures maximum flexibility and represents a quick solution according to the installation type. In fact, this built-in system adapt to standard Cordivari collectors, does not need a special or customized collector. The aesthetic result is great and it fits with all the most common roof types.



1) Carpentry removal and flashings placement.



2) Flashings and collectors fixing carpentry installation.

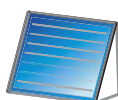
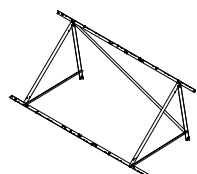


3) Collectors placing and fixing on the framework and fittings installation.



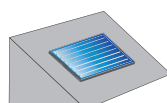
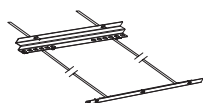
4) Replacement of the exceeding cover removed and final finishing.

HORIZONTAL SYSTEMS FOR FLAT ROOFS



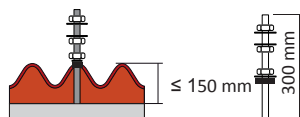
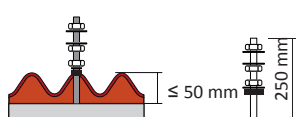
Art. Nr.	5770001100327
DESCRIPTION	1 x 2,5 m ² horizontal collector
MATERIAL	Galvanized steel

HORIZONTAL SYSTEMS FOR PITCHED ROOFS



Art. Nr.	5770001100235
DESCRIPTION	1 x 2,5 m ² horizontal collector
MATERIAL	Galvanized steel

FIXING KITS FOR INSULATED PITCHED ROOFS



Carpentry to be used in addition to standard fixing kit in case of pitched roofs with insulation between the slab and roofing tiles. The kit includes:

- 2 Galvanized steel brackets
- 2 steel screws, 250-300 mm length
- 2 rubber dowels
- Fittings



= 2 INSULATED PITCHED ROOF FIXING KITS



= 3 INSULATED PITCHED ROOF FIXING KITS

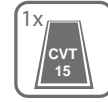
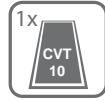
	With 250 mm screws	With 300 mm screws
ART. NR.	5770001100602	5770001100604

Insulated roof fixing kits quantity to order = n° of panels + 1

FIXING KIT FOR VACUUM TUBE COLLECTORS CVT



FLAT ROOFS

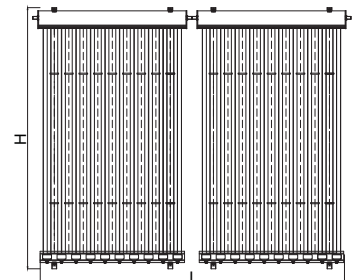
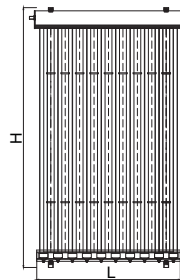
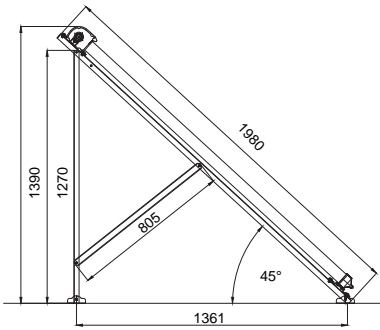


Art. Nr.	5770001100911	5770001100912
Description	FIXING KIT FOR CVT 10	FIXING KIT FOR CVT 15
MATERIAL	Anodized aluminium	

SIZE OF THE COLLECTOR STRINGS CVT

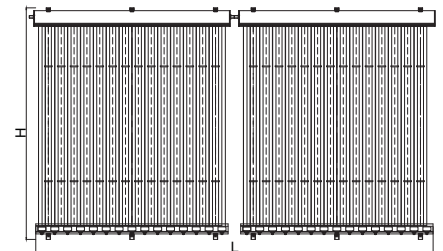
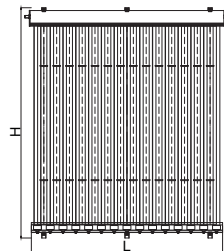
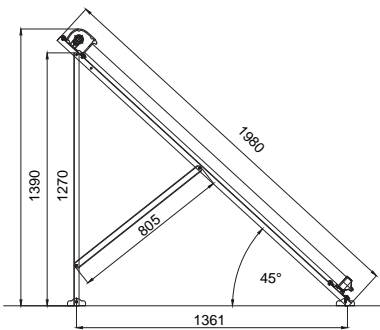
FLAT ROOFS

CVT10 MODEL



N° of collector per row	1	2
Width L [m]	1,13	2,3
Height H [m]	1,98	1,98

CVT15 MODEL



N° of collector per row	1	2
Width L [m]	1,68	3,4
Height H [m]	1,98	1,98

FIXING KIT FOR VACUUM TUBE COLLECTORS CVT



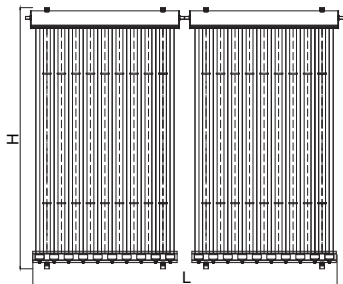
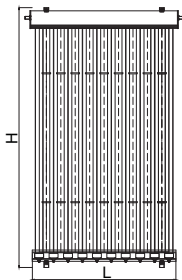
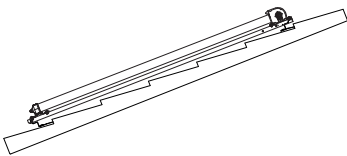
PITCHED ROOFS

Cordivari vacuum tubes collectors CVT fixing kits for pitched roofs are included with solar panel.

SIZE OF THE COLLECTOR STRINGS CVT

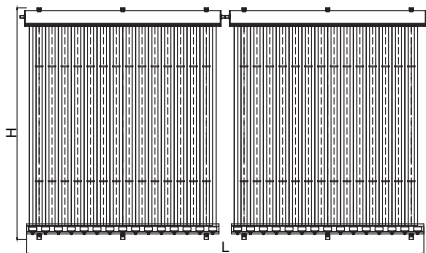
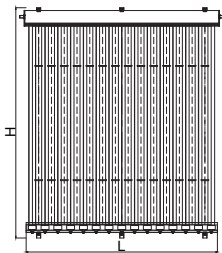
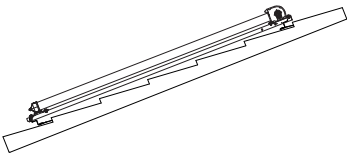
PITCHED ROOFS

CVT10 MODEL



N° of collector per row	1	2
Width L [m]	1,13	2,3
Height H [m]	1,98	1,98

CVT15 MODEL



N° of collector per row	1	2
Width L [m]	1,68	3,4
Height H [m]	1,98	1,98

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

ACCORDING TO
EN 2009/125 CE
DIRECTIVE

ErP
READY

APPLIES TO
EUROPEAN
DIRECTIVE
FOR ENERGY
RELATED
PRODUCTS

CIRCULATION GROUP WITH **BASIC** CONTROL UNIT

COMPONENTS:

- Circulator
- **BASIC (*)** control unit
- Flow regulator
- Safety valve
- Thermometers
- Temperature probes

	ART. NR.	DESCRIPTION	CONNECTIONS
	5760000000018	CIRCULATION GROUP WITH BASIC CONTROL UNIT FLOW RATE: 2-12 LT/MIN	3/4" GAS M
	5760000000020	CIRCULATION GROUP WITH BASIC CONTROL UNIT FLOW RATE: 8-28 lt/min	1" GAS M
	5760000000022	CIRCULATION GROUP WITH BASIC CONTROL UNIT FLOW RATE: 8-38 lt/min	1" GAS M
	5760000000024	CIRCULATION GROUP WITH BASIC CONTROL UNIT FLOW RATE: 20-70 lt/min	1" 1/2 GAS M

CIRCULATION GROUP WITH **PROFESSIONAL** CONTROL UNIT

COMPONENTS:

- Circulator
- **PROFESSIONAL (*)** control unit
- Flow regulator
- Safety valve
- Thermometers
- Temperature probes

	ART. NR.	DESCRIPTION	CONNECTIONS
	5760000000019	CIRCULATION GROUP WITH PROFESSIONAL CONTROL UNIT FLOW RATE: 2-12 lt/min	1" GAS M
	5760000000021	CIRCULATION GROUP WITH PROFESSIONAL CONTROL UNIT FLOW RATE: 8-28 lt/min	1" GAS M
	5760000000023	CIRCULATION GROUP WITH PROFESSIONAL CONTROL UNIT FLOW RATE: 8-38 lt/min	1" GAS M
	5760000000025	CIRCULATION GROUP WITH PROFESSIONAL CONTROL UNIT FLOW RATE: 20-70 lt/min	1 1/2" GAS M

(*) For control unit features, see pages 62-63.

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

PRIMARY SOLAR EXCHANGE STATION WITH STRATIFICATION MODULE FOR BUFFER TANK



STRATIFICATION EXTERNAL EXCHANGE MODULE V15

ART. NR.

5760000000026

TECHNICAL DESCRIPTION:

SOLAR PRIMARY CIRCUIT:

- High efficiency solar circulator.
- 3-way return ball valve with non-return valve.
- 6 bar safety group.
- Inlet ball valve with non-return valve 10 mbar equipped with thermometer holder clip.
- Brass deaerator with automatic release valve and interception faucet.
- AISI 316 stainless steel brazed plate exchanger.

SECONDARY CIRCUIT:

- Switch valve.
- Safety valve.
- High efficiency circulator.

FULL PACKAGE SOLAR STATION, INCLUDING PRIMARY SOLAR EXCHANGE MODULE TO BE CONNECTED TO PUFFER TANK AND STRATIFICATION SYSTEM SO TO ALLOW THE THERMAL STRATIFICATION OF THE TANK FROM THE TOP TO THE BOTTOM.

LOW-FLOW TILL 70 M² COLLECTOR LIGHT RECEIVING SURFACE.

PRIMARY SOLAR EXCHANGE STATION FOR BUFFER TANK



EXTERNAL EXCHANGE MODULE V15

ART. NR.

5760000000027

TECHNICAL DESCRIPTION:

SOLAR PRIMARY CIRCUIT:

- Solar circulator.
- Flow rate regulator with system loading and drain valve.
- 3-way return ball valve with non-return valve.
- 6 bar safety group with pressure gauge.
- Inlet ball valve with non-return valve 10 mbar equipped with thermometer holder clip.
- Brass deaerator with automatic release valve and interception faucet.
- AISI 316 stainless steel brazed plate exchanger.

SECONDARY CIRCUIT:

- Safety valve.
- High efficiency circulator.

FULL PACKAGE SOLAR STATION, INCLUDING PRIMARY SOLAR EXCHANGE MODULE TO BE CONNECTED TO PUFFER TANK.

THE MODULE DRAWS THE HEAT THROUGH THE PRIMARY CIRCUIT CONVEYING IT INTO THE EXCHANGER. THE THERMAL ENERGY IS TRANSFERRED TO THE SECONDARY CIRCUIT.

LOW-FLOW TILL 70 M² COLLECTOR LIGHT RECEIVING SURFACE.

SOLAR EXCHANGE STATION FOR DHW PRODUCTION



EXTERNAL EXCHANGE MODULE DHW V15

ART. NR.

5760000000028

TECHNICAL DESCRIPTION:

SOLAR PRIMARY CIRCUIT:

- High efficiency solar circulator.
- Flow rate regulator with system loading and drain valve.
- 3-way return ball valve with non-return valve.
- 6 bar safety group with pressure gauge.
- Inlet ball valve with non-return valve 10 mbar equipped with thermometer holder clip.
- Brass deaerator with automatic release valve and interception faucet.
- AISI 316 stainless steel brazed plate exchanger.

DHW CIRCUIT WITH AISI 316 STAINLESS STEEL PIPES:

- 6 bar safety valve.
- DHW circulator.
- DHW flow rate till 37 L/min

FULL PACKAGE SOLAR STATION, INCLUDING PRIMARY SOLAR EXCHANGE MODULE TO BE CONNECTED TO DHW ACCUMULATION TANK.

THE MODULE DRAWS THE HEAT THROUGH THE PRIMARY CIRCUIT CONVEYING IT INTO THE EXCHANGER. THE THERMAL ENERGY IS TRANSFERRED TO THE SECONDARY CIRCUIT.

DHW LOW-FLOW TILL 70 M² COLLECTOR LIGHT RECEIVING SURFACE.

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

BASIC CONTROL UNIT

New **BASIC** control unit for solar thermal installations is equipped with 2 Outlets and 3 Inlets (probes). It can set and manage till 6 different solar installations. Selecting one of the 6 installation diagram, the control unit will automatically deal with outlets and inlets for the selected system. On the backlit LCD screen you can see the configuration of the hydraulic installation diagram, outlets status, probes status and many other useful data and information.

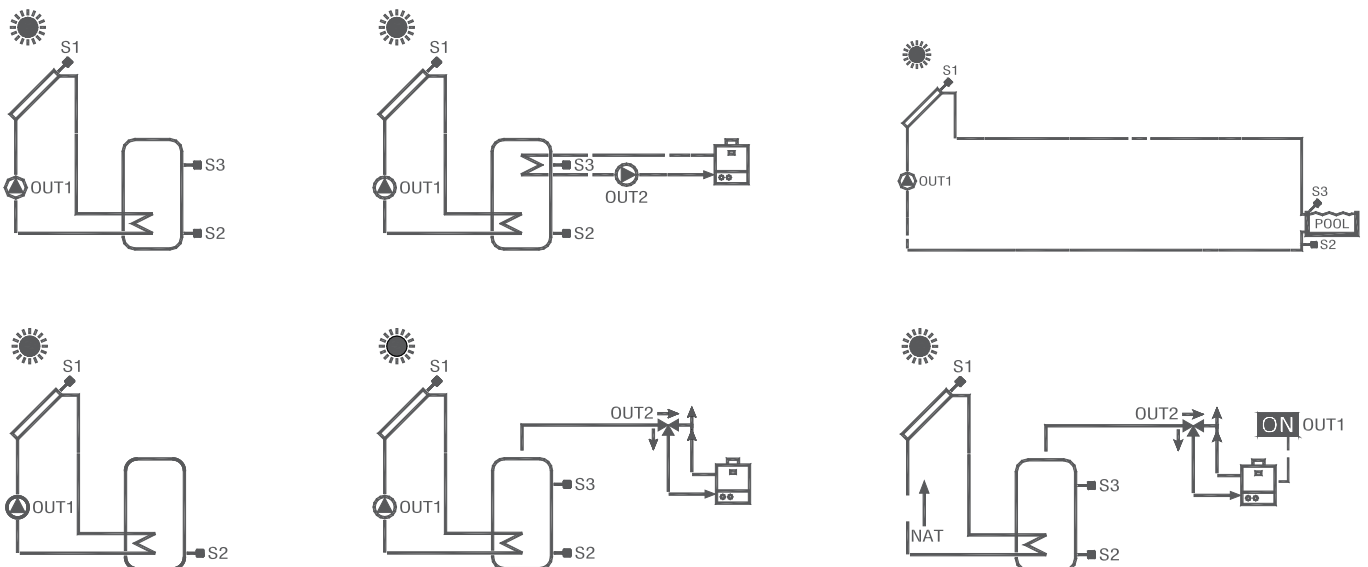


**BASIC CONTROL UNIT WITH
TEMPERATURE PROBES
INCLUDED**

ART. NR.

5755280000020

MAIN EXEMPLE OF SETTINGS MANAGED BY BASIC CONTROL UNIT



ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

PROFESSIONAL CONTROL UNIT

New **PROFESSIONAL** solar control unit combines a practical design and a clear graphical user interface. This control unit is particularly easy to use also thanks to its feature to assist the user step by step during the settings to easily and quickly start the unit. PROFESSIONAL V15 control unit can be used to run different complex installations till 42 system types. It is equipped with a backlit LCD display which easily allows to set all the functions, such as to see current values, system analysis and monitoring using statistics, customized settings for special features, extensible menus including instructions, safety lock, etc.

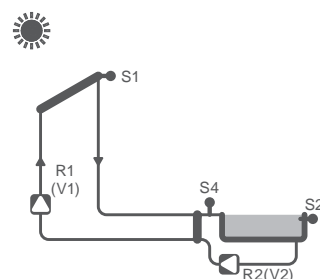
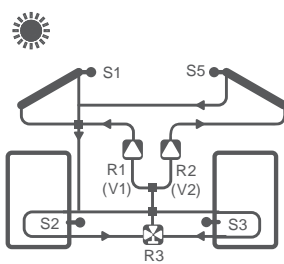
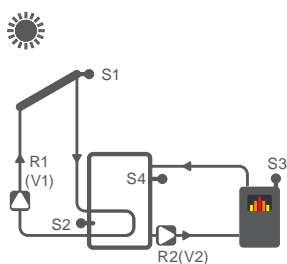
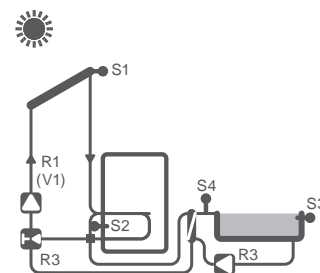
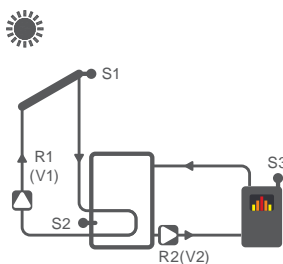
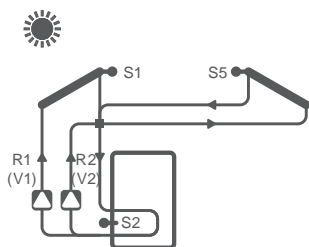
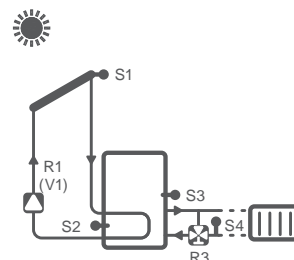
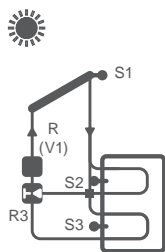
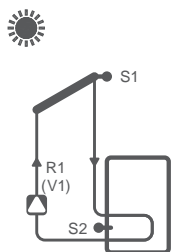


PROFESSIONAL CONTROL UNIT WITH TEMPERATURE PROBES INCLUDED

ART. NR.

5755280000021

MAIN EXEMPLE OF SETTINGS MANAGED BY PROFESSIONAL CONTROL UNIT



SPARE PARTS AND ACCESSORIES FOR COMPACT SOLAR THERMAL SYSTEMS

ACCESSORIES FOR STRATOS® 4S

STRATOS® 4S COVERING

Cover for Stratos® 4S protection. Essential to protect the system in case it would be drained, during periods it is not working or after the installation before starting to work.



MODEL	ART. NR.
120	5775000000017
180	5775000000018

HEATING CABLE

The heating cable guarantees a great protection against freezing and avoids possible damages at the pipes or fittings caused by low temperatures in installations in those environments subject to risks of ice.

This accessory is made of a heating cable with constant power of 10W/m (220 V), including the thermostat and cable with Schuko plug.



LENGTH	WATT	ART. NR.
3	30	5240000005003
6	60	5240000005004

3/4" PRESSURE ADAPTOR

The pressure reduction is an essential device to reduce and stabilise the incoming pressure from the water supply network for a correct use of the domestic installation as well as of the related devices.



ART. NR.
5046000000042

3/4" SAFETY GROUP

The safety group has to be used for DHW storage protection. The product is made of several components which have the following functions:

- safety against overpressure
- anti-pollution, so to avoid the hot water to return back to the public network
- interception, allowing to seal the supply network for control and maintenance of other devices.

The installation of such device is mandatory as per the existing law. Cordivari safety group is certified according to the European law EN 1487 requirements.



ART. NR.
5760000001002

KIT FOR SOLAR TANK AND BOILER CONNECTION

The kit enables to automatically manage the thermal energy of the solar storage tank in order to spread hot water at a controlled and optimal temperature to the users. So the water always arrives at the set temperature, activating the boiler only when necessary, that is in case of water low temperature coming from solar storage.

Thanks to its structure, it is easy to install on both new and existing systems.



ART. NR.
5765000000514

SPARE PARTS AND ACCESSORIES FOR COMPACT SOLAR THERMAL SYSTEMS

ACCESSORIES FOR STRATOS® DR

ELECTRICAL IMMERSION KIT IP65

Monophase Electrical heating as 1500W integration, set-point at 50°C, protection class IP65, safety thermostat manual reset.



ART. NR.	Tension	Output	Set-point temperature	Connection R
	Volt	[W]	[°C]	Gas M
5240000000061	220 V MONO PHASE	1500	50	1"1/4

ANTI-FREEZE ELECTRICAL IMMERSION KIT IP65

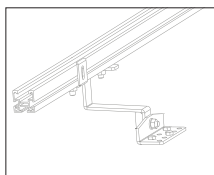
Anti-Freeze Electrical heating of 200W, set-point at 4°C, protection class IP65, it allows Stratos® DR system protection against freezing. It starts working when the temperature inside the storage falls below 4°C. If the environment temperature drops below -5°C, the system has to be drained and accurately protected following the user manual.



ART. NR.	Tension	Output	Set-point temperature	Connection R
	Volt	[W]	[°C]	Gas M
5240000000060	220 V MONO PHASE	200	4	1/2"

POLE MOUNT FIXING KIT FOR PITCHED ROOFS

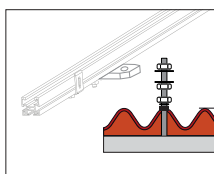
Suspended fixing kit for pitched roofs. It allows to direct the weight of the system to the roof framework instead to the roof.



ART. NR.
5770001100885

INSULATED ROOF FIXING KIT

Fixing kit for insulated pitched roofs. It allows to mount the system on the roof, crossing the insulation without causing burden or damages.



ART. NR.
5770001100886

30° SUPPORT KIT FOR STRATOS® DR

Support system for flat surfaces with 30° fixed inclination. Suitable to maximize the solar radiation as well as the output with low temperatures, especially during summer.



ART. NR.
5770001100902

PVC PROTECTION COVER

Cover for Stratos® 4S protection. Essential to protect the system in case it would be drained, during periods it is not working or after the installation before starting to work.



MODEL	ART. NR.
100	5775000000019
150	5775000000015
200	5775000000016

ACCESSORIES AND SPARE PARTS FOR THERMOSIPHON SYSTEMS

SPARE PARTS AND ACCESSORIES FOR PANAREA SOLAR SYSTEM

MAGNESIUM ANODE 3/4"

Sacrificial magnesium anode with 3/4" connection suitable for cathodic protection of the solar Interka tank. Essential to protect the tank also from possible corruptions and stray currents.



For the complete range and prices of calorifiers please refer to our calorifier and buffer tanks catalogue.

ART. NR.	INTERKA POLYWARM®	[mm]
	[liters]	
5200000041008	150	32x200
5200000041009	200-300	32x350

For INTERKA POLYWARM®. Kit of 3 pcs.

PRIMARY SAFETY VALVE

Safety valve for the primary circuit of the solar systems with thermosiphon circulation. Connections of 1/2"M and 1/2"F and calibration at 2,5 bar. This safety device is indispensable to avoid the overpressure of the primary circuit of the solar systems with thermosiphon circulation.



ART. NR.

5775000000010

1/2"M x 1/2"F (calibrated at 2,5 bar)
Package of 5 pc.

SAFETY VALVE TP 1/2" M

The safety valve TP combines the temperature and pressure control of the DHW storage tank. The safety device protects the solar systems with thermosiphon circulation from the excessive raising of one or the two factors in case of non-levy for long periods in situations of strong sun irradiation.

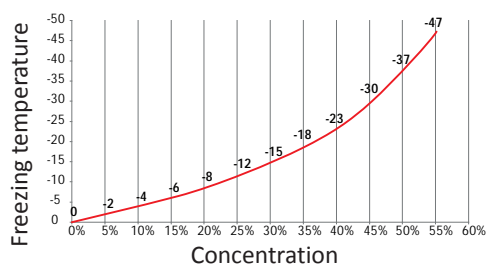


ART. NR.

5302000000020

HEAT TRANSFER MEDIUM CONCENTRATED

Non-toxic biodegradable heat transfer fluid, propylene glycol-based. It is indicated for thermosiphon systems, it is safe thanks to its composition suitable for food applications, it also protects the primary circuit against corrosion as well as deposits and foams development. Concentrated fluid to be diluted.



ART. NR.

PACKAGE
KG

5000500000004

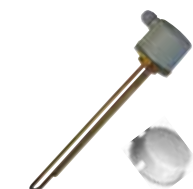
10

5000500000006

5

HEATING ELEMENT

More phase electric heater of 1500 watt with IP65 protection level, complete with protection cover against dirt, dust and UV rays. Useful as integration in systems with thermosiphon circulation. Connection of 1"1/4, manual reset, indicated for Interka solar tank.



ART. NR.

5240000000062

IP65 1,5 kw 220v 1"1/4M with protection cover

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

PROBES FOR BASIC CONTROL UNIT

Probes kit for BASIC control unit. The kit includes 2 temperature probes for the tank + 1 temperature probe for solar panel.



ART. NR.

5755280000022

PROBES FOR PROFESSIONAL CONTROL UNIT

Probes kit for PROFESSIONAL control unit. The kit includes 3 temperature probes for the tank + 2 temperature probe for solar panel.



ART. NR.

5755280000023

SHIELDED CABLE

Electrical cable to extend the temperature probe length. This cable allows to extend the length of the different probes to the control unit, avoiding the signal loss. Cable 2x1mm.



ART. NR.

5220000000021

LENGTH 20 mt.

JUNCTION BOX

In-wall junction box to easily and quickly connect the temperature probes cables thanks to the terminal block and the cables seal included.



ART. NR.

5775000000003

5 pcs box

OVERVOLTAGE PROTECTION

The junction box includes a power surge protection device. This accessory is essential to guarantee the solar control unit protection and safety against power surge or electrical discharges caused by lightning.



ART. NR.

5775000000004

5 pcs box

STRATOS®

SYSTEMS WITH FLAT
COLLECTORS

SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR

COLLECTORS AND
ACCESSORIES

TECHNICAL SUPPORT

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

ELECTRICAL IMMERSIONS KIT

Electrical heating can be used as integration on calorifiers and tanks, stainless steel heaters, protection class min IP44, supplied with thermostat, safety thermostat reset user and 2 mt of electrical cable wired and without plug.



For the complete range and prices of electric heater please refer to our calorifier and buffer tanks catalogue.

ART. NR.	Tension	Output	LENGTH L	Connection R R
	Volt	[Kw]	[mm]	Gas M
52400000000051	220 V MONO PHASE	1,5	320	1"1/2
52400000000052		2	320	
52400000000053		3	320	

24L EXPANSION VESSEL KIT

The kit includes:

- expansion vessel - flexible pipe, fixing bracket and fittings



LITERS	ART. NR.
24	5765000000101

EXPANSION VESSEL KIT

The kit includes:

- expansion vessel - flexible pipe and fittings

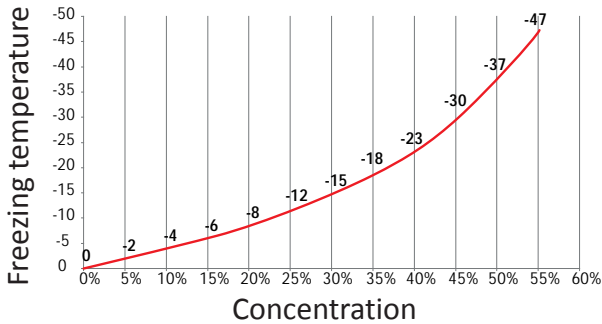


LITERS	ART. NR.
50	5765000000104
80	5765000000105
100	5765000000106
200	5765000000107

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

HEAT TRANSFER MEDIUM CONCENTRATED

Non-toxic biodegradable heat transfer fluid, propylene glycol-based. It is indicated for thermosiphon systems, it is safe thanks to its composition suitable for food applications, it also protects the primary circuit against corrosion as well as deposits and foams development. Concentrated fluid to be diluted.



ART. NR.	PACKAGE KG
50005000000004	10
50005000000006	5

CASE WITH MEASUREMENT AND PARAMETERS CHECK TOOLS FOR THERMAL SOLAR SYSTEM

Components: pressure gauge, test jar, refractometer, pH test strips, digital multimeter, monitoring and warning labels, compass, distilled water and tools.



ART. NR.
5765000000401

SOLAR COLLECTORS REFILLING SYSTEM

- The kit is made of:
- cart with 30 L can
 - self-priming pump (230V - Pmax 5,9 bar)
 - Heat resistant pipe (from -40°C to +60°C)



ART. NR.
5765000001001

STRATOS®

SYSTEMS WITH FLAT COLLECTORS

SYSTEMS WITH SOLAR VACUUM TUBE COLLECTOR

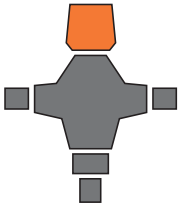
COLLECTORS AND ACCESSORIES

TECHNICAL SUPPORT

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

THERMOSTATIC MIXING VALVE

Thermostatic mixing valve for solar systems.



CONNECTIONS	ART. NR.
3/4"	5750000000001
1"	5750000000003

THERMOSTATIC SWITCH VALVE

Auto-operated thermostatic switch valve, calibrated at 45°C. It can easily integrate solar thermal systems for DHW production with a boiler.



ART. NR.	Connections
5046000000007	3/4"
5046000000008	1"

BALANCING VALVE WITH FLOWMETER

The balancing valve for hydraulic primary circuit can settle the flow rate on single collectors rows in order to get the correct flow on every branch of solar field with the purpose of an optimal thermal exchange. This accessory made in brass allows the flow regulation and direct control thanks to the graduated flow meter and the magnetic flow indicator.



ART. NR.
5046000000023

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

PRE-INSULATED PIPE EXTENSION KIT



ART. NR.	Connection R	Diameter \varnothing [mm]
5775000000005	3/4"	16
5775000000006	1"	20

5 pcs box

FLOW REGULATOR

Flow regulator for circulation groups.



FLOW RATE lt/min	ART. NR.
2 ÷ 12	50460000000035
20 ÷ 70 /V15	50460000000036
8 ÷ 28	50460000000037
8 ÷ 38	50460000000038

STRAIGHT TRANSITION CONNECTION

Copper pipe/corrugated steel pipe.

Connection to be welded, essential to link copper piping with the stainless steel corrugated pipe for primary circuit. It has a male thread with flat-face.



ART. NR.	TYPE
57750000000012	\varnothing 22 - 3/4"

5 pcs box

STRATOS®

SYSTEMS WITH FLAT
COLLECTORS

SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR

COLLECTORS AND
ACCESSORIES

TECHNICAL SUPPORT

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

SOCKETS FOR TEMPERATURE PROBE ON SOLAR COLLECTORS

Stainless steel probe socket with male 1/2" thread to add temperature probes in solar collectors, sealing cable clamp included.



ART. NR.

5775000000001

3 pcs box

COPPER SOCKET FOR PROBE

Copper probe socket with male 1/2" thread to add temperature probes in tanks.



ART. NR.

5775000000001

5 pcs box

MANUAL AIR VENT

Manual air vent for solar systems (1/2" M connection)



ART. NR.

5775000000002

5 pcs box

PRE-INSULATED PIPE

Flexible AISI 316L stainless steel corrugated pipe, with 13mm EPDM insulation at high efficiency, with protection against UV finishing. The pre-insulated pipe integrates the silicone sensor cable for temperature probe. This accessory is useful to easily and quickly create the connections of solar primary circuit.



ART. NR.

LENGTH
[mt]

Diameter Ø
[mm]

5768000010001 10 16

5768000010002 15 16

5768000010003 10 20

5768000010004 15 20

ACCESSORIES AND SPARE PARTS FOR FORCED CIRCULATION SYSTEMS

FITTINGS KIT

- 1 x 1/2" brass cross fitting F/F/F/F
- 2 x compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread
- 1 x 1/2 M manual air vent
- 1 x 1/2" well probe H 150 with cable clamp and silicone gasket



FITTINGS KIT SUITABLE FOR SYSTEM WITH:	Art. Nr.	COMPONENTS
1 x 1 COLLECTOR	5765000000202	<ul style="list-style-type: none"> • 4 Brass reinforcing ring for copper pipe 22x1,0 • 1 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 2 X bulb in sheath stop spring • 2 X socket probe 1/2" gas connection 10x11 l.85
1 x 2 COLLECTORS	5765000000203	<ul style="list-style-type: none"> • 6 Brass reinforcing ring for copper pipe 22x1,0 • 2 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 2 X bulb in sheath stop spring • 2 X socket probe 1/2" gas connection 10x11 l.85
1 x 3 COLLECTORS	5765000000211	<ul style="list-style-type: none"> • 8 Brass reinforcing ring for copper pipe 22x1,0 • 3 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 2 X bulb in sheath stop spring • 2 X socket probe 1/2" gas connection 10x11 l.85
2 x 2 COLLECTORS	5765000000216	<ul style="list-style-type: none"> • 12 Brass reinforcing ring for copper pipe 22x1,0 • 5 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 2 X bulb in sheath stop spring • 2 X socket probe 1/2" gas connection 10x11 l.85
1 x 4 COLLECTORS	5765000000221	<ul style="list-style-type: none"> • 10 Brass reinforcing ring for copper pipe 22x1,0 • 4 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 3 X bulb in sheath stop spring • 3 X socket probe 1/2" gas connection 10x11 l.85
1 x 5 COLLECTORS	5765000000306	<ul style="list-style-type: none"> • 12 Brass reinforcing ring for copper pipe 22x1,0 • 5 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 2 X bulb in sheath stop spring • 2 X socket probe 1/2" gas connection 10x11 l.85
2 x 3 COLLECTORS	5765000000311	<ul style="list-style-type: none"> • 16 Brass reinforcing ring for copper pipe 22x1,0 • 7 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 2 X bulb in sheath stop spring • 2 X socket probe 1/2" gas connection 10x11 l.85
2 x 4 COLLECTORS	5765000000231	<ul style="list-style-type: none"> • 20 Brass reinforcing ring for copper pipe 22x1,0 • 9 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 3 X bulb in sheath stop spring • 3 X socket probe 1/2" gas connection 10x11 l.85
2 x 5 COLLECTORS	5765000000321	<ul style="list-style-type: none"> • 24 Brass reinforcing ring for copper pipe 22x1,0 • 11 Compression fitting with metallic sleeve Ø 22 Dir.F/1/2" Male thread • 2 X bulb in sheath stop spring • 2 X socket probe 1/2" gas connection 10x11 l.85

TECHNICAL SUPPORT

COMPANY CERTIFICATES



QUALITY CERTIFICATE UNI EN ISO 9001

Cordivari has always placed as main objectives:

- The continuous improvement of the manufactured products
- The commitment to use low environmental impact materials that can be almost 100% recycled
- The achievement of the best quality

According to this, Cordivari has worked to obtain the most significant certifications which attest the commitment inside and outside of the company.

PRINCIPLE STANDARDS WHICH REGULATES THE CONSTRUCTION OF SOLAR COLLECTORS

- **Uni EN 7855** - Glass tests, determination of the transmission factors of the sun energy
- **Uni EN 8477-1** - Sun energy, performance calculation for the application on buildings. Evaluation of the received energy of the sunshine.
- **Uni EN 8477-2** - Sun energy, performance calculation for the application on buildings. Evaluation of the reachable performances through active or passive systems.
- **Uni EN 12795-1** - Solar thermal systems and components - Solar captors - Part 1: General requirements
- **Uni EN 12975-2** - Solar thermal systems and components - Solar collectors - Part 2: Test methods
- **Uni EN 12976-1** - Solar thermal systems and components - Factory made systems - Part 1: General requirements
- **Uni EN 12976-2** - Solar thermal systems and components - Factory made systems - Part 2: Test methods
- **Uni EN 12977-1-2-3** - installations of solar thermal systems and components – Systems assembled according specifications - general requirements, test methods, characterization of tank performance
- **Uni EN 9711** - Thermal systems using solar energy. Data for offer, orders and testing.
- **Uni EN 9488** - Solar energy – Vocabulary



ENVIRONMENTAL MANAGING SYSTEM CERTIFICATE UNI EN ISO 14001

CERTIFICATES

DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

CERTIFICATO

Proprietario del certificato Cordivari s.r.l.
Zona Industriale Pagliare
64020 Morro d'Oro TE
ITALIA

Sito produttivo 033

Prodotto Collettore solare

Tipo, modello CL ASA A MQ2.5 VT

Norme di riferimento DIN EN 12975-1:2006-06
DIN EN 12975-2:2006-06
CEN-KEYMARK-Regolazione del programma per prodotti termici solari versione 21.00 (2013-10)

Marchio di conformità 

Numero di registrazione 011-752185 F

Valido fino al 2018-08-31

Diritto di utilizzo Il presente certificato autorizza ad utilizzare il marchio di conformità di cui sopra in relazione al numero di matricola indicato.
Vedi allegato per ulteriori indicazioni.

2014-03-26 Robert Zorn R.Sc. Assessing Officer

Dakks
Deutscher Akkreditierungsstellenrat
D-53111 Köln

DIN CERTCO Gesellschaft für Konformitätsbewertung mbH · Alleenstrasse 56 · D-12203 Berlin · www.din-certco.de

SOLAR KEYMARK

DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

CERTIFICATO

Proprietario del certificato Cordivari s.r.l.
Zona Industriale Pagliare
64020 Morro d'Oro TE
ITALIA

Sito produttivo 033

Prodotto Collettore solare

Tipo, modello CL ASA A MQ2.5 OR

Norme di riferimento DIN EN 12975-1:2006-06
DIN EN 12975-2:2006-06
CEN-KEYMARK-Regolazione del programma per prodotti termici solari versione 21.00 (2013-10)

Marchio di conformità 

Numero di registrazione 011-752311 F

Valido fino al 2018-08-31

Diritto di utilizzo Il presente certificato autorizza ad utilizzare il marchio di conformità di cui sopra in relazione al numero di matricola indicato.
Vedi allegato per ulteriori indicazioni.

2014-03-26 Robert Zorn R.Sc. Assessing Officer

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SOLAR KEYMARK

ACCREDITA
ICIM

Certificazione di Prodotto Product Certification

ALLEGATO AL MARCHIO TM

Certificato N. / Certificate No. 133BN/1

DATI TECNICI / TECHNICAL DATA			
Classificazione / Classification	Solar Only, Thermosiphon, Direct, Closed, Filled, Outdoor, Horizontal		
Volume serbatoio / Tank volume	200 l	Rivestimento / Coating	ASA
Tipo di isolamento / Insulation	EPS	Spessore isolante / Insulation thickness	30 mm
Tipo di scambiatore / Heat exchanger	Direct	Materiale scambiatore / Exchanger material	Aluminium
Tipo di collettore / Collector type	ICS	Materiale copertura / Covering material	Glass
Numero collettore / Number of collector	1	Spessore copertura / Covering thickness	3,2 mm
Numero copertura / Number of Coverings	1	Area dell'assorbitore / Absorber area	2,1 m²
Area totale / Gross area	2,41 m²	Area speculare / Aperture area	2,1 m²
Materiale assorbente / Absorber material	ABS 316	Trattato / Superficial	Selective coating
Materiale isolante / Thermal insulation	EPS	Fluido assorbente / Absorber fluid	Water
Fluido termovettore / Heat transfer fluid	Water	Pressione nominale / Nominal pressure	4 bar
Temperatura nominale / Nom temperature	180 °C		

ICIM S.p.A.

PRIMA EMISSIONE / FIRST ISSUE: 15/01/2015
VERSIONE CORRENTE / CURRENT ISSUE: 15/01/2018
DATA DI SCADENZA / EXPIRING DATE: 14/01/2021

ICIM S.p.A. - Piazza Don Enrico Mattei, 15 - 00198 Roma (Italy) - www.icim.it

SOLAR KEYMARK

ACCREDITA
ICIM

Certificazione di Prodotto Product Certification

Certificato N. / Certificate No. 133BN/1

ALL'AZIENDA / TO THE FIRM

Cordivari S.r.l.
Zona Industriale Pagliare
64020 Morro d'oro (TE) - IT

UNITÀ OPERATIVA / OPERATIVES UNIT
Zona Industriale Pagliare
64020 Morro d'oro (TE) - IT

PER I SEGUENTI PRODOTTI / FOR THE FOLLOWING PRODUCTS
Sistema solare termico prefabbricato
Factory made solar thermal system

CON DENOMINAZIONE COMMERCIALE / WITH TRADE NAME
STRATOS DR 200 LT

CONFORMITÀ CON / CONFORMITY WITH
CONFORMITÀ ALLA NORMA ED AL DOCUMENTO NORMATIVO ICIM
IN CONFORMITY WITH THE STANDARD AND WITH ICIM NORMATIVE DOCUMENT
UNI EN 12975-1:2006 - UNI EN 12975-2:2006
Specific CEN Keymark Scheme Rules for Solar Thermal Products ICIM 70R032

RAPPORTO DI PROVA ACCREDITATO IN VIGORE / REFERENCED TEST REPORT ACCREDITED IN FORCE
M1.14.NRG.045/152632 ; M1.14.NRG.045/252632 ; EPT.15.NRG.0368/03179

Il presente Certificato è da ritenersi valido solo se accompagnato dal visuale (Regole) / This Certificate is valid only with the visible Annex

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PRIMA EMISSIONE / FIRST ISSUE: 15/01/2015
VERSIONE CORRENTE / CURRENT ISSUE: 15/01/2018
DATA DI SCADENZA / EXPIRING DATE: 14/01/2021

ICIM S.p.A. - Piazza Don Enrico Mattei, 15 - 00198 Roma (Italy) - www.icim.it

SOLAR KEYMARK - STRATOS® DR 200 LT

CERTIFICATES

ACCREDIA

ICIM

Certificazione di Prodotto
Product Certification

Certificato N.
Certificate No. **ICIM-CLS-000150-00**

ALLAZIENDA / TO THE FIRM
Cordivari S.r.l.
Zona Industriale Pagliare
64020 Morro d'oro (TE) - IT

UNITÀ OPERATIVE / OPERATIVE UNITS
Zona Industriale Pagliare
64020 Morro d'oro (TE) - IT

PER I SEGUENTI PRODOTTI / FOR THE FOLLOWING PRODUCTS
Sistema solare termico prefabbricato
Factory made solar thermal system

CON DENOMINAZIONE COMMERCIALE / WITH TRADE NAME
STRATOS DR 100

Confermatore: vedi Allegato / Characteristic: see Annex
CONFORMEMENTE ALLA NORMA ED AL DOCUMENTO NORMATIVO ICIM
IN CONFORMITÀ CON LE SPECIFICHE E CON I REQUISITI NORMATIVI
UNI EN 12976-1:2017 - UNI EN 12976-2:2006
Specific CEN Keymark Scheme Rules for Solar Thermal Products ICIM 0062CS
RAPPORTI DI PROVA ACCREDITATI EN 17025 / REFERENCE TEST REPORT ACCREDITED EN 17025
S231EN ; S231COLL

Il presente Certificato è valido solo se accompagnato dal relativo Allegato / This Certificate is valid only with the relative Annex

ICIM S.p.A.

PRIMA EMISSIONE
FIRST ISSUE
29/01/2018

EMMISSIONE CORRENTE
CURRENT ISSUE
29/01/2018

DATA DI SCADENZA
EXPIRING DATE
28/01/2021

ICIM S.p.A. - Piazza Don Enrico Mepelli, 75 - 20099 Sesto San Giovanni (MI)

SOLAR KEYMARK - STRATOS® DR 100 LT

ACCREDIA

ICIM

Certificazione di Prodotto
Product Certification

Certificato N.
Certificate No. **136BN/1**

ALLAZIENDA / TO THE FIRM
Cordivari S.r.l.
Zona Industriale Pagliare
64020 Morro d'oro (TE) - IT

UNITÀ OPERATIVE / OPERATIVE UNITS
Zona Industriale Pagliare
64020 Morro d'oro (TE) - IT

PER I SEGUENTI PRODOTTI / FOR THE FOLLOWING PRODUCTS
Sistema solare termico prefabbricato
Factory made solar thermal system

CON DENOMINAZIONE COMMERCIALE / WITH TRADE NAME
STRATOS DR 150 LT

Confermatore: vedi Allegato / Characteristic: see Annex
CONFORMEMENTE ALLA NORMA ED AL DOCUMENTO NORMATIVO ICIM
IN CONFORMITÀ CON LE SPECIFICHE E CON I REQUISITI NORMATIVI
UNI EN 12976-1:2006 - UNI EN 12976-2:2006
Specific CEN Keymark Scheme Rules for Solar Thermal Products ICIM 70R032
RAPPORTI DI PROVA ACCREDITATI EN 17025 / REFERENCE TEST REPORT ACCREDITED EN 17025
M1.14.NRG.045152632 ; EPT.15.NRG.036453179

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PRIMA EMISSIONE
FIRST ISSUE
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CURRENT ISSUE
15/01/2018

DATA DI SCADENZA
EXPIRING DATE
14/01/2021

ICIM S.p.A. - Piazza Don Enrico Mepelli, 75 - 20099 Sesto San Giovanni (MI)

SOLAR KEYMARK - STRATOS® DR 150 LT

euofins

Product Testing

TEST REPORT

EN 12976-2:2006 Thermal solar systems and components - Factory made systems - Part 2: Test methods
EN 12976-2:2006 Sistemi e componenti solari termici - Sistemi prefabbricati - Parte 2: Metodi di prova

Report Reference No. / Numero rapporto...
EPT.15.NRG.0364/53179

Date of issue / Data di emissione...
2015-07-18

Total number of pages / n° fogli di pagina...
30

Testing Laboratory / Laboratorio di prova...
Via Cuorgné, 21 - 10158 Torino (TO) - Italy

Applicant's name / Nome del richiedente...
ICIM S.p.A.

Address / Indirizzo...
Piazza Don Enrico Mepelli, 75 - 20099 Sesto San Giovanni (MI) - Italy

Test specification / Specifiche di prova...
EN 12976-2:2006 (ICS Solar Thermal System requirements)
EN ISO 9806:2013 (Solar Collector requirements)

Non-standard test method...
N/A

Scope of the test / Scope della prova...
To assess the general requirements of durability, reliability and safety for a Factory Made Thermal solar heating system within the scope of EN 12976-2:2006
"Thermal solar systems and components - Factory made systems - Part 2: General requirements" Thermal performance characterization by means of stable systems testing.
Verifica dei requisiti generali di durabilità, affidabilità e sicurezza in un sistema di riscaldamento solare termico prefabbricato sotto carico statico entro EN 12976-2:2006 Sistemi e componenti solari termici - Sistemi prefabbricati - Parte 2: Requisiti generali. Caratterizzazione delle prestazioni termiche mediante prova all'instabilità.

Test item description / Descrizione dell'oggetto di prova...
Factory made solar heating system: Integrated Storage Collector (ICS) system for domestic hot water preparation
Sistema di riscaldamento solare prefabbricato: sistema ad accumulo integrato nel collettore per la preparazione dell'acqua calda ad uso domestico.

Trade Mark...
CORDIVARI

Manufacturer / Costruttore...
Cordivari S.r.l.

Address / Indirizzo...
Zona Industriale Pagliare - 64020 Morro d'Oro (TE) - Italy

Model/Type reference / Modello...
STRATOS DR 150

System classification / Classificazione del sistema...
System type / Tipo di sistema: ICS
Flow principle / Principio a flusso: Thermo-siphon / Termosifone
Heat transfer principle / Principio di calore: Direct / diretto
Pressure principle / Principio pressione: Closed / Chiuso
Drive principle / Principio di movimento: Piped / A sifonamento
Storage location / Posizione serbatoio: Outdoor / All'esterno
Integrated back-up / Assente integrato: None / Nessuno

Date of receipt of the test item...
2015/04/10

Date of conclusion of the test item...
2015/04/17 - 2015/07/16

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8 2015-07-18

Ing. Giuseppe Longo
Test engineer

Ing. Giovanni Galante
Head of "Manufacture and Solar Thermal" Testing Div.

Approved by

TEST-REPORT EXTRACT

GOVERNMENT OF DUBAI

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality,
hereby attests that the product(s)
THERMAL SOLAR SYSTEMS AND COMPONENTS - SOLAR COLLECTORS
(Details as per the attached Scope of Certification)
manufactured by
CORDIVARI S.R.L.
Z.I. Pagliare, Morro d'Oro, Teramo, Italy

have been assessed in accordance with DCLD Document Ref. No. DCLD-023-2003 DCLD "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:
BS EN 12975-2:2006+A2:2010

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCLD Product Conformity Mark to the above-mentioned product(s).

for / ENJOY AMIN AHMED AMIN
Director, Dubai Central Laboratory Department
Dubai Municipality

Verify

Conformity No. 02/20050004
Valid until 09 May 2019

CS-003-PRD

PRODUCT CONFORMITY

Conformity No. 02/20050004
Valid until 09 May 2019

Signature: 02 May 2019
Inspector: 02 May 2019

0-42-021-MSV-13

The attached Scope of Certification bearing the same Certificate No. forms an integral part of this Certificate.
This Certificate is an electronic document and the form and conditions of the Product Certification System will not be transferred to paper or film.

DCLD CERTIFICATE

STRATOS®

SYSTEMS WITH FLAT
COLLECTORS

SYSTEMS WITH SOLAR
VACUUM TUBE COLLECTOR

COLLECTORS AND
ACCESSORIES

TECHNICAL SUPPORT

GENERAL SALES CONDITIONS AND WARRANTY

Sales of Cordivari's products are made according to conditions listed below. Exceptions should be agreed in writing by Cordivari Srl.

1. SHIPMENT

Goods are shipped at buyer's (purchaser) risk and peril, even if transport is organized by Cordivari. Goods have to be checked at the delivery about unaltered packaging, missing or confused items in the presence of the forwarder. Any claim has to be immediately communicated to the forwarder with a note on the shipment's document and by registered mail within 3 days from delivery (otherwise the forwarder and Cordivari srl are cleared of their responsibilities).

2. DELIVERY TERMS

Delivery terms are indicative. Failure to comply with the agreed delivery terms for any reasons will not entitle the buyer (purchaser) to any compensation, cancellation or modification of the order without our prior consent. In case exceptional events like natural disasters, strikes or unpredictable market shortage of raw materials, Cordivari reserves the right of choosing and adopting the most appropriate measures. If the ordered goods will not be collected within the agreed terms, the material will be invoiced and stored at buyer's costs and risks.

3. WEIGHT, MEASURES, SURFACES

Weights, measures, surfaces, shapes, sizes and other figures related to the products are merely indicative and Cordivari Srl may modify them at any time without any notice.

4. ORDER CANCELLATION OR MODIFICATION

No orders shall be cancelled or modified, even partially, without the consent of Cordivari Srl. It will not be possible to modify the order when the production has already started. Eventual costs due to modifications or cancellations will be charged to the buyer (purchaser).

5. WARRANTY

A) Complete solar thermal systems

Warranty for COMPACT SOLAR THERMAL SYSTEMS STRATOS® is:

- 5 years for Solar Thermal System.
- 2 years on all other technical components and accessories.
- 1 year for electrical and electronic components and accessories.

For systems designed and dimensioned directly from the customer, Cordivari warranty applies only on the products ordered. Products and systems presented in our catalogue are conceived and manufactured in compliance with European legislations EC-EN-UNI and PED. Warranty and conformity declarations are therefore valid only in those countries where such legislations are valid and in force. For extra-European countries and for all countries where above-stated norms are not acknowledged, Cordivari does not assume any responsibility concerning warranty and conformity.

The warranty shall be invalidated with failure to comply with attachment I part C of the decree law n°31 of 02/02/2001 and subsequent amendments, implementation of the Council [...] Directive 98/83/EC concerning the quality of water intended for human consumption:

- pH (>7 e <9)
- Chloride < 250 mg/l
- Sulphate < 200 mg/l
- Iron < 200 µg/l
- Disinfectant residue < 0,2 mg/l

Concerning water hardness, reference is made to the UNI CTI 8065 Norm that disciplines the values within sanitary water systems:

- Total water hardness ~ 15-25 °f

B) SOLAR COLLECTORS

The warranty period for original defects on solar collectors is 5 years

The use of non-original fixing structures or improper assembly of the same makes the warranty coverage of the collector void. Changes in staining as well as stain formation do not affect the performances of the solar collector so they are not to be considered as production defects.

C) CALORIFIER

For all calorifiers with internal anticorrosive treatment as Polywarm or stainless steel the warranty is 5 years.

For all other pressurized tanks the warranty is 2 years

The warranty covers product defects and is void if all points of current article 5 are not respected.

The warranty is valid only if the products are set with the cathode protection in an efficient and permanent way. The installation of the products has to comply with the criteria of the over pressure protection, corrosion and legionella. The installation must comply with installation and use rules and regulations as well as those described in the instructions and any eventual regulations concerning plant engineering. (Refer to our Calorifier and Buffer tanks catalogue in force)

In domestic hot water production systems as well as heating systems, the warranty is valid only if the standard UNI CTI 8065 is respected, standard which provides for various types of water treatment according to its characteristics. The warranty does not cover damages deriving from non-compliance with the standard UNI CTI 8065.

The warranty shall also be invalidated with failure to comply with the instructions [...] for installation and use provided by Cordivari and in case of non-compliance with below prescriptions.

NORMS AND PRESCRIPTIONS

The use of non-original fixing kit will invalidate the warranty. Any change in colour, as well as possible formation of stains, do not influence the performances of the solar collector therefore are not considered as manufacture defects. Warranty will be applicable if the installation of the products respects the criteria of protections against overpressure, corrosion, Legionellosis, all instructions contained in the installation manual provided by Cordivari and all additional norms concerning installation and plant design. For sanitary hot water systems as well as heating systems, for warranty purposes, comply with UNI CTI 8065 Norm that consider different types of water treatments according to its own characteristics.

Warranty does not cover any damage arising from non-compliance with the above-stated norm and prescriptions.

Warranty does not cover any damage caused by transportation, misuse or improper use and/or/maintenance, faulty installation and connections, unauthorized tampering, alteration and/or improper adjustments. Faulty anti-freeze protection. Warranty shall be considered applicable at the following additional conditions:

The product has been stored in suitable, good conditions and sheltered from harsh weather conditions

- The product has not suffered damage during transport, handling, installation
 - Repairs, tampering or other operations have not been made inappropriately by unauthorized personnel,
 - The installation has been carried out by qualified personnel and in compliance with all instructions contained in the installation manual provided by Cordivari, with all specific technical regulations and all EC norms.
 - Accessories used are the original ones provided by Cordivari srl
 - The buyer (purchaser) has settled payments within the agreed terms.
 - Water does not present any trace of aggressive chemical substances
 - Max. working pressure and temperature stated in our catalogue are respected.
 - Replacement or repairs to the product or components during the warranty period shall not extend the duration of the warranty and can be carried out only after Cordivari srl acceptance.
 - Warranty does not cover construction or dismantling costs to move the product from/to installation site or labour costs for eventual replacements.
 - Warranty is applicable starting from the date of Cordivari Srl invoice and it is not renewed in case of eventual product replacement.
 - Cordivari srl shall not be liable for any direct or indirect damage caused to property, or personal injury or harm to animals that may be caused by incorrect handling, [...] improper use or malfunction of the product.
- The personnel of Cordivari srl intervenes only to provide customer service assistance for the product purchased. The installer is responsible for installation and must respect a all instructions contained in the installation manual provided by Cordivari, with all specific technical regulations and all EC norms.

Cordivari srl Cordivari reserves the right to make improvements or modifications at his sole discretion, at any time, without notice or obligation and without interfering with above-stated general conditions.

For accessories and remaining articles of present catalogue, warranty is 2 years.

6. PAYMENTS

All invoices have to be paid according to the agreed deadline. Any delay, even partially, gives rise to interest on arrears and cause the immediate suspension of any scheduled delivery.

7. GOODS' PROPERTY

Cordivari Srl remains owner of the delivered goods until they are not completely paid by the buyer (purchaser). In the event of total or partial default by the Buyer (purchaser), Cordivari Srl can request the immediate return of the delivered goods, retaining the partial payments received as indemnity, or even reserve the right to claim further damages.

8. PRICES

Prices are not binding and can be modified without notice at anytime. Prices are revisable and in case of changed market conditions, Cordivari srl reserves the right to modify them for undelivered goods. Stated prices have to be intended ex-works Cordivari Plant in Morro D'oro (TE – Italy), except in case of a different written agreement. For more voluminous delivery Cordivari may charge some extra-costs for packaging. Prices on this Pricelist are V.A.T. excluded

9. ORDERS

The minimum order is Euro 2.000,00. Given orders are binding to the buyer, who acknowledges of all our sales conditions.

For orders sent in the name of and/or on behalf of third parties, written signature stands for joint obligation and fulfillment of the agreed commitments.

In case transport is organized by Cordivari, the delivery is to be intended only at Customer's premises (headquarter and/or warehouse). For different requirements kindly contact Cordivari sales office.

Cordivari reserves also the right to request additional costs in case of special requests upon delivery term (express delivery, etc.).

10. COURT AUTHORITY

For the present Catalogue and conditions only the provisions of Italian law will be used. For controversy, the Court of Teramo (Italy) shall have exclusive competence. Essential and trial law shall be exclusively Italian.

11. ORIGINAL VERSION

Translation of Cordivari General Sales Conditions and Warranty Terms, reported in this page, derives from the Italian version. In case of possible controversy, the official Cordivari General Sales Conditions and Warranty Terms are the one reported in the Italian language, stated at the back of the Italian catalogues.

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CONDIZIONI GENERALI DI VENDITA E GARANZIA

Le vendite dei prodotti della Cordivari Srl sono effettuate conformemente alle sotto elencate Condizioni Generali di Vendita e Garanzia. Ogni deroga a queste condizioni è subordinata all'accettazione scritta da parte della Cordivari Srl.

1. SPEDIZIONE

La merce viaggia a rischio e pericolo del Cliente, anche se viene spedita franco destino. La merce deve essere verificata all'atto della consegna, controllando l'integrità dell'imballo, articoli mancanti o sostituzioni in presenza del trasportatore. Ogni contestazione dovrà essere segnalata immediatamente al trasportatore/corriere firmando con riserva il DDT e confermando tale riserva a mezzo lettera raccomandata entro tre giorni dal ricevimento merce. (In caso di mancata osservanza di questa clausola l'impresa di trasporto e la Cordivari srl sono svincolate da ogni responsabilità).

2. TERMINI DI CONSEGNA

I termini di consegna si intendono approssimativi e comunque se il termine di consegna proposto non potesse essere rispettato per qualsiasi motivo, il Cliente non avrà diritto a esigere alcun indennizzo, pagamenti di penali, annullamento o modifica all'ordine conferito. In caso di eventi straordinari quali calamità naturali, scioperi, mancanza di materie prime e cause di forza maggiore, la Cordivari srl si riserva la scelta delle misure da adottare. Se la merce ordinata non viene ritirata entro i termini concordati, questa verrà fatturata e immagazzinata con costi, rischio e pericolo a carico del committente.

3. PESI, MISURE, SUPERFICI

Pesi, misure, superfici, forme e dimensioni, illustrazioni o immagini e altri dati presenti in questo catalogo o sui prodotti hanno puro scopo illustrativo e non impegnativi e possono subire delle modifiche o variazioni che la Cordivari srl si riserva di apportare ai suoi prodotti senza preavviso. Fare sempre riferimento alla documentazione tecnica allegata al prodotto e ai certificati ufficiali.

4. ANNULLAMENTO O MODIFICA ORDINE

Senza il consenso scritto della Cordivari Srl, le ordinazioni conferite non possono essere né parzialmente né totalmente annullate o modificate. Non si accordano variazioni o modifiche quando è già stata intrapresa la lavorazione. Eventuali spese derivanti dall'annullamento o modifica dell'ordine saranno fatturate al cliente.

5. GARANZIA:

A) SISTEMI COMPLETI

La durata della garanzia per vizi originari sui Sistemi completi è:

- 5 anni per i Collectors Solari e per i Bollitori.
- 2 anni per tutti i restanti accessori, componenti tecnici, elettrici ed elettronici.
- 1 anno per componenti elettrici ed elettronici come anche per gli accessori.

In caso di sistemi dimensionati dall'acquirente, la Cordivari garantisce esclusivamente la qualità dei componenti ordinati. I prodotti e sistemi presentati nel nostro catalogo sono concepiti e realizzati in conformità con la legislazione europea EC-EN-UNI e PED. Le dichiarazioni di garanzia e di conformità sono quindi valide solo nei paesi in cui tali normative sono valide e in vigore. Per paesi extra europei e per tutti i paesi in cui le norme sopra indicate non sono riconosciute, la Cordivari non si assume alcuna responsabilità in merito a garanzia e conformità.

La garanzia decade qualora non vengano rispettati i valori limite indicati nell'allegato I Parte C del D.Lgs. n°31 del 02/02/2001 e successive modifiche, attuazione della direttiva europea 98/83/CE, relativa alla qualità dell'acqua destinata al consumo umano:

- pH (>7 e <9)
- Cloruro < 250 mg/l
- Ferro < 200 µg/l
- Solfato < 200 mg/l
- Disinfettante residuo < 0,2 mg/l

Per quanto riguarda la durezza dell'acqua si fa riferimento alla Norma UNI CTI 8065 che ne disciplina i valori negli impianti ad acqua calda sanitaria:

- Durezza totale 15-25 °f

Ogni garanzia decade in caso di non rispetto delle prescrizioni indicate sulle istruzioni d'uso e di montaggio fornite a corredo del prodotto e se non sono rispettate le norme descritte a seguire.

B) Collectors SOLARI

La durata della garanzia per vizi originari sui collectors solari è di 5 anni.

L'utilizzo di strutture di fissaggio non originali, o il montaggio improprio delle stesse fanno decadere la garanzia sul collettore.

Modifiche della colorazione, come anche la formazione di macchie, non influiscono sulle performance del collettore solare, pertanto non sono difetti di produzione.

C) BOLLITORI

Per tutti i bollitori con trattamento anticorrosivo interno in Polywarm®, o acciaio inox 316L la garanzia è di 5 anni.

Per tutti gli altri recipienti in pressione la garanzia è di 2 anni.

La garanzia copre i difetti di fabbricazione e decade se non viene rispettato quanto indicato nel presente articolo. La garanzia sussiste a condizioni che il prodotto sia sempre dotato in maniera permanente ed efficiente della protezione catodica prevista a corredo, che l'installazione dei prodotti abbia rispettato i criteri della protezione dalla sovrappressione, corrosione, legionella e norme e prescrizioni di installazione e utilizzo, oltre che quanto prescritto nelle istruzioni d'uso e in tutte le eventuali norme in materia impiantistica (vedi. Catalogo listino BOLLITORI in vigore).

Negli impianti di produzione di acqua calda sanitaria, così come in quelli di riscaldamento, attenersi, ai fini della garanzia, a quanto disposto dalla norma UNI CTI 8065 che prevede vari tipi di trattamenti dell'acqua in funzione delle sue caratteristiche. La garanzia non copre danni derivanti da inadempienze alle prescrizioni della norma UNI CTI 8065.

L'impegno di prestare la garanzia nei punti A, B, C, D, del presente articolo, sussiste a condizione che:

- Il prodotto sia stato immagazzinato in buone condizioni e al riparo dalle intemperie prima dell'installazione;
- Il prodotto non abbia subito danneggiamenti durante il trasporto, le movimentazioni o l'installazione;
- Non siano state effettuate manomissioni o riparazioni da persone non autorizzate;
- L'installazione sia stata realizzata da personale autorizzato e in conformità alle istruzioni e alle norme indicate sulla documentazione tecnica fornita e rispettate eventuali disposizioni di legge o norme tecniche specifiche;
- Gli accessori utilizzati siano quelli regolarmente forniti dalla Cordivari Srl;
- Il compratore abbia effettuato il saldo dei pagamenti nei termini prestabiliti;
- Non siano state effettuate aggiunte di sostanze chimiche aggressive all'acqua;
- La pressione e la temperatura di esercizio indicate sul catalogo corrispondano alla pressione e alla temperatura limite di utilizzo.
- Eventuali riparazioni o sostituzioni in garanzia di parti o prodotti possono avvenire solo ed esclusivamente a giudizio insindacabile della Cordivari Srl e se effettuati durante il periodo di garanzia, non spostano la decorrenza e la durata della garanzia stessa.
- La garanzia non copre costi dovuti a demolizioni lavori per il passaggio dei prodotti sia in ingresso che in uscita e la manodopera per eventuali sostituzioni di prodotto. Cordivari srl si impegna durante il periodo di garanzia alla sostituzione del prodotto reso, riconosciuto difettoso per accertati difetti di produzione, oltre a ciò il committente non potrà vantare alcun altro risarcimento per spese di danno, diretti o indiretti di qualsiasi natura a persone e/o cose derivanti da detti difetti.
- La garanzia decorre dalla data della fattura di vendita della Cordivari e non si rinnova in alcun caso nell'eventualità di una sostituzione di prodotto.
- La Cordivari srl non risponde di eventuali danni diretti o indiretti causati a cose o persone per avarie del prodotto, così come per errato o improprio uso dello stesso.
- Il personale incaricato della Cordivari interviene sempre e solo a titolo di assistenza per il prodotto in quanto il responsabile dell'installazione rimane a tutti gli effetti l'installatore che dovrà rispettare le prescrizioni tecniche riportate nel presente certificato nonché le normative ANCC, UNI- CIG, VVFF e CEI.

La Cordivari Srl si riserva il diritto di apportare in qualsiasi momento ed a suo insindacabile giudizio, tutte le modifiche che riterrà utili e necessarie a dati e caratteristiche tecniche dei propri prodotti senza che ciò interferisca nelle condizioni generali sopra descritte.

Per gli accessori e per tutti gli articoli residuali del presente catalogo non contemplati nelle condizioni generali di vendita, la garanzia è di 2 anni.

6. PAGAMENTI

I pagamenti delle fatture relative alle forniture dovranno essere effettuati entro i termini di scadenza stabiliti. Il ritardo nel pagamento delle fatture, anche se parziale, dà luogo alla decorrenza degli interessi di mora nella misura del tasso corrente, oltre alla sospensione immediata delle spedizioni in corso.

7. RISERVA DI PROPRIETÀ

Fino a quando il cliente non ha pagato l'ultima rata di prezzo di merce consegnata, i prodotti restano di proprietà della Cordivari srl. In caso di inadempimento anche parziale del compratore la Cordivari Srl potrà chiedere l'immediata restituzione della merce trattenendo comunque le rate pagate a titolo di indennità salvo il maggior danno.

8. PREZZI

I prezzi non sono impegnativi e possono essere modificati senza preavviso. I prezzi sono revisionabili in funzione delle variazioni che dovessero intervenire fino al momento della consegna.

I prezzi si intendono resa franco stabilimento di Morro D'Oro (TE), salvo diversi accordi.

I prezzi sono sempre riportati nel listino al netto di IVA.

Per modelli ingombranti la Cordivari Srl si riserva di chiedere una partecipazione alle spese di imballaggio.

9. ORDINI/CONSEGNA

Il valore minimo per ordine è di Euro 2000. Gli ordini impartiti sono vincolanti per l'acquirente che dichiara di conoscere ed accettare tutte le nostre condizioni di vendita. Nel caso in cui il cliente rediga l'ordine a nome e per conto di terzi, con la firma dell'ordine si impegna in solido all'adempimento degli impegni concordati.

Nel caso in cui il trasporto sia organizzato dalla Cordivari, la consegna è da intendersi esclusivamente presso la sede o magazzino cliente. Per esigenze diverse contattare l'ufficio vendite Cordivari.

Cordivari si riserva inoltre il diritto di addebitare costi aggiuntivi in caso di richieste particolari ai termini di resa concordati (corriere espresso, ecc.).

10. FORO COMPETENTE

Foro Competente. Per qualsiasi controversia derivante dal presente contratto o collegata allo stesso è competente il Foro di Teramo.

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Nessuna parte di questa opera può essere ristampata o riprodotta in qualsiasi altra forma senza l'autorizzazione scritta della Cordivari.

Il presente catalogo sostituisce ed annulla tutte le edizioni precedenti.

La società si riserva la facoltà di modificare in qualsiasi momento i prodotti e i dati riportati a catalogo e non risponde degli eventuali errori tipografici.



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