

**SOLAR HEATING  
SYSTEMS AND  
CYLINDERS**



# Ariston cares!

Energy efficiency is becoming a more and more common word when talking about domestic hot water production and delivery. The growing concern for the future of the environment we are living in, and the desire to leave a green and healthy world to future generations is creating a shift in the demand from traditional technology towards high-efficiency and renewable products.

Modern technologies like solar systems and air to water heat pumps perfectly serve the scope.

They use a clean and renewable source, either sun or air, to heat the water thus giving you maximum comfort while reducing polluting emissions and protecting the environment.

Ariston Thermo Group, a leading brand in thermal comfort, has been proposing alternative energy-efficient solutions worldwide since many years.

With its wide range of solar systems (both natural and forced circulation) and air-to-water heat pumps (both monoblock and split versions) is capable of offering in every situation the right solution to give its end-user hot water with an environmentally friendly attitude.

Ariston Thermo Group has committed itself to a long-term challenge: reach 80% of its sold products only on high-energy efficiency and renewable products by 2020 in order to bring a tangible change in the world we are living in.

Do you want to take part to this change ?

For more information on our commitment towards a green and sustainable future please visit:  
[www.ariston.com](http://www.ariston.com)



80%

HIGH EFFICIENCY  
RENEWABLE  
BY 2020

# Ariston quality: simply “**Made in Italy**”

## INTERNATIONAL QUALITY CERTIFICATION

All Ariston factories are certified by CSQ, a member of the International Certification Network IQNet. As a result, all Ariston products are manufactured in compliance with the highest standards, guaranteeing reliability and high-quality. Every year all the plants are involved in a competition aimed to improve the quality level of the production.



## 3 MILESTONES OF QUALITY

Customer satisfaction is Ariston's main concern and this is why quality is constantly monitored at every level through:

- **Incoming control** of the raw materials and components
- **Process Control** aiming to intercept the potential defects in earlier stages of the manufacturing process
- **Product Testing** of 100% of the production in the line to assure the correct functioning of the product

## ITALIAN TECHNOLOGY & DESIGN

Driven by innovation but still linked to its roots.

This is the perfect mix that represent Ariston attitude and that pushes the members of the R&D department to develop more efficient, eco-friendly and reliable products always with the quality and design typical of the Italian manufacturing tradition.



# Ariston solar systems: 30 years of experience at your service

## 1982

Ariston opens the first plant for the production of solar collectors to contrast rising price of oil in Europe, that at that time was incentivizing green technologies.

In the first year the record production of 44.000 m<sup>2</sup> was reached.

Ariston Thermo immediately became a leader in this sector.

The production was meant just for Italy at that time and we kept manufacturing collectors in Cerreto (Italy) till 2001.

## 1983

The first Ariston solar collector is officially certified by ENEL, national authority of energy in Italy.

Ariston solar collectors are used to realize one full wall of a skyscraper in Milan.

## 2002

Acquisition of Elco company, leader in north west Europe in heating and with a long tradition in solar systems. All the products in the actual range are tested separately by Ariston (Italy) and Elco (Germany) to ensure covering all possible working conditions.

## 2004

Opening of a new solar plant in India for Indian Market only.

Starting the production of vacuum tube in China. Tubes and manifold technology are patented by Ariston.

## 2007

Serra De' Conti plant (Italy) was opened and became the center of the R&D dept for all the plants. Serra De' Conti is one of the most technologically advanced plant in Europe.

## 2012

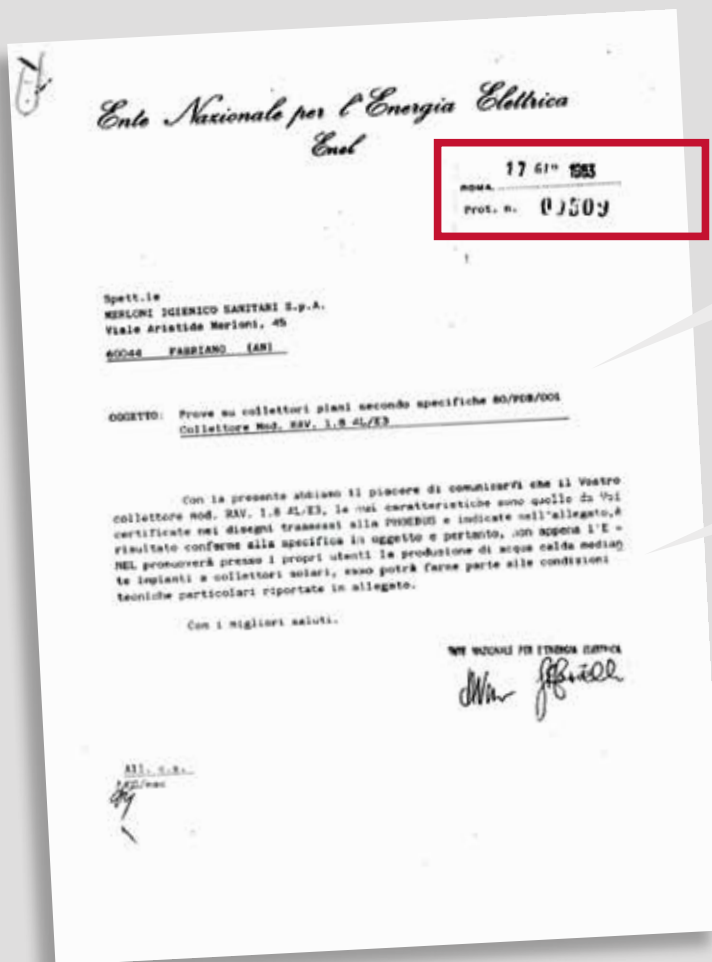
"Sun&wind Energy" magazine, places Ariston as first manufacturer of solar collectors in Italy

When you install an Ariston solar system at your home, you are not simply installing a product; you are bringing at your home 30 years of experience, system design, products test and evolution.



# Certified experience

Our first solar collector was certified in **1983** by the Italian National Body of Energy.



## OBJECT:

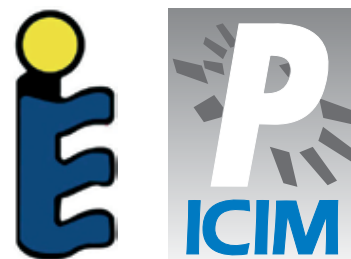
test on flat collectors according to 80/PDB/001 specification.  
Collector model RAV 1,8 4L/E3

With the following letter we are pleased to inform you that your collector model RAV 1.8 4L/E3, whose characteristics are those certified in the technical drawing sent to PHOEBUS and shown in the attached, are compliant to the 80/PDB/001 requirements and therefore, as soon as ENEL will promote solar water heaters to its end-users, your collector can be part of the offer as per the conditions agreed.

# Ariston solar thermal quality guaranteed

## Certified energy efficiency

The Ariston collectors have maximum efficiency levels and respond to the EN 12975 Standard. All of this has been checked by strict tests performed at accredited research centres. The new products have acquired the Solar Keymark.



Ariston also distinguishes itself for the attention reserved for its customers in the after-sales period.

The five year warranty covers the collector and the cylinder, while the electronic control unit, the pump unit and the accessory kits are guaranteed for two years.



## Longer lasting and safer

The special highly transparent toughened glass of the Ariston collectors reflects the incident solar rays to a minimum, thus losing little energy. The solar energy absorbed is also withheld thanks to its prismatic surface, which creates a "greenhouse effect" inside the collector. The maximum efficiency is accompanied by the safety of toughened glass, tested against hail.

## Anti-reflective and hail-proof



# Type of solar system

## The solution to all needs

As for heat systems, the heat is transferred by means of a "heat carrying fluid" that runs between the solar panel and the cylinder. The fluid can run spontaneously or using a pump. On the basis of which the two types of solar systems are distinguished: natural or forced circulation.

### Natural circulation

Simple  
Reliable  
Economic  
Reduced maintenance



### Forced circulation

Efficient  
Flexible  
Architectonic integration  
In symbiosis with the boiler



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## HOW TO READ THE SYMBOLS AND PERFORMANCE LEVELS

The icons are designed to facilitate reading of the features of each product.



**MINERAL WOOL INSULATION**  
Material containing rock wool and glass wool to lower heat dispersion.



**HAIL-PROOF**  
The 3,2 mm toughened solar glass has passed the hail-resistance test and is guaranteed against atmospheric agents.



**SOLAR INTEGRABLE**  
Designed for solar integration.



**HIGH ABSORPTION**  
Highly transparent prismatic surface ensuring greater sunlight absorption.



**MADE IN ITALY**  
Entirely produced in Italy.



**SOLAR KEYMARK**  
Quality certification recognized at European level for the solar collectors.



**POLYURETHANE INSULATION**  
Internal insulation in foamed polyurethane without chlorofluorocarbons (CFCs) harmful to the environment.



**LONG DURATION**  
Boiler coating in exclusive titanium enamelling at 850 °C.



**CORROSION-PROOF**  
Ultra protected tank thanks to the magnesium anode or the transmitted current anode.



**INSPECTION FLANGE**  
Wide inspection flange for easy maintenance.



**HIGH EFFICIENCY**  
Product characterised by high energy performance, reduction of consumption and pollutant emissions.



**P-ICIM**  
The P-ICIM is the regulation body in charge of Solar Key Mark release, and ensures the effective compliance of the components of a solar thermal system to the European quality, security and functionality standards.



# KAIROS THERMO DIRECT

150/1 TR - 200/1 TR - 300/2 TR



## Natural circulation direct solar system for the production of domestic hot water

- NO GLYCOL
- NO HEAT STRESS
- EASY TO INSTALL



HIGH ABSORPTION



MINERAL WOOL INSULATION



LONG DURATION



CORROSION-PROOF

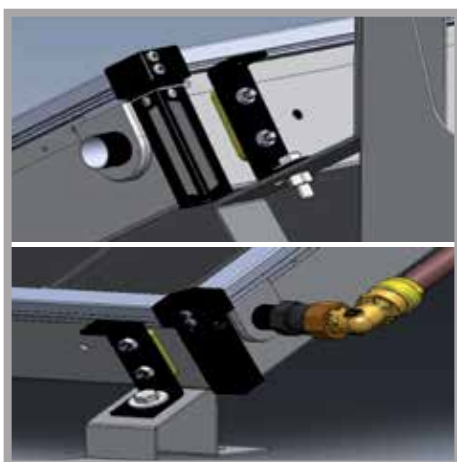


HAIL-PROOF



HIGH EFFICIENCY

HIGH EFFICIENCY

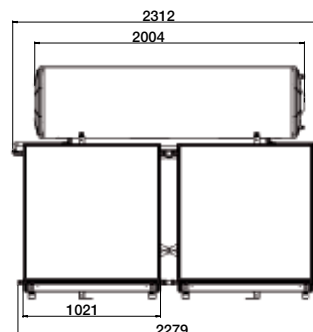
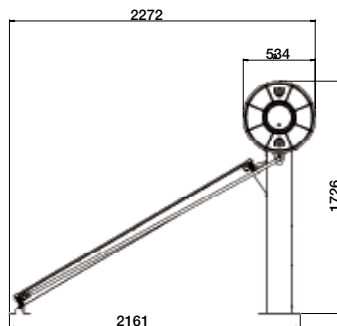
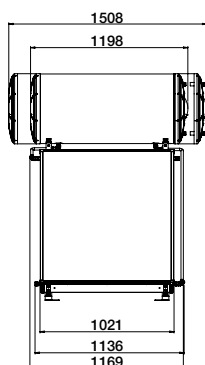
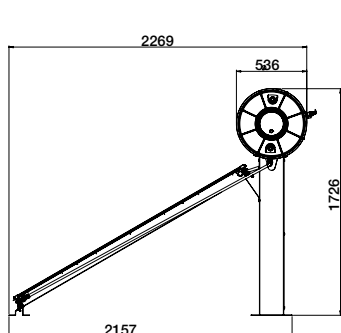


simple  
and  
efficient

## Technical data

		KAIROS THERMO DIRECT 150/1 TR	KAIROS THERMO DIRECT 200/1 TR	KAIROS THERMO DIRECT 300/2 TR
Collectors gross surface	m <sup>2</sup>	2,05	2,05	4,10
Collectors aperture surface	m <sup>2</sup>	1,90	1,90	3,80
Empty mass (ground installation)	kg	117	129	212
Domestic hot water storage tank capacity	l	153	202	275
DHW circuit max. pressure	bar	8	8	8

CODE 3022091 3022092 3022093



# KAIROS THERMO HF

150 - 200 - 300



## Natural circulation solar system for the production of domestic hot water

- NEW CIRCUIT FOR MAXIMIZING THE AMOUNT OF DOMESTIC HOT WATER ACCORDING TO THE AVAILABLE SOLAR RADIATION
- HIGH PERFORMANCE SOLAR COLLECTOR TO ENSURE HIGH TEMPERATURE DOMESTIC HOT WATER
- NEW DESIGN WITH EXTREMELY COMPACT DIMENSIONS
- SIMPLE INSTALLATION THANKS TO HYDRAULIC QUICK FITTING CONNECTIONS AND SELF-SUPPORTING FRAME
- ENAMELLED HEATING ELEMENT (ONLY 200 LT AND 300 LT MODEL)
- SOLAR KEYMARK CERTIFICATION



HIGH EFFICIENCY



MADE IN ITALY



SOLAR KEYMARK



CORROSION PROOF



HAIL PROOF



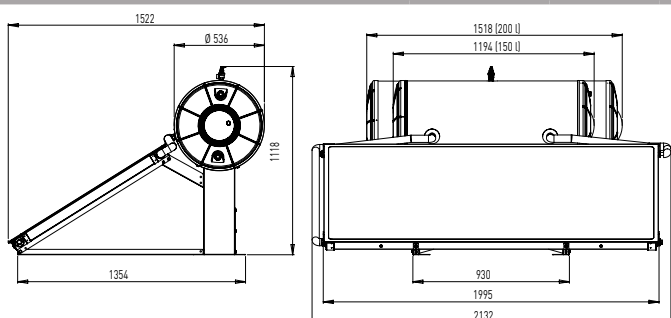
LONG DURATION



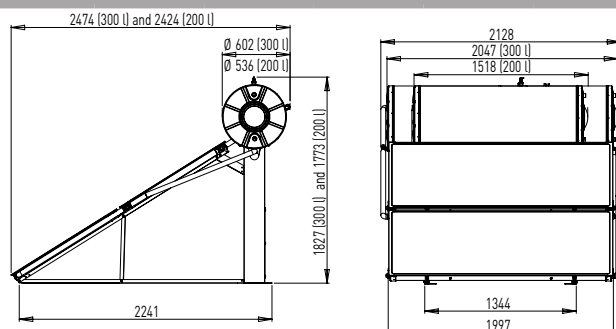
MINERAL WOOL INSULATION

## Technical data

	HF 150/1 TR	HF 150/1 TT	HF 200/1 TR	HF 200/1 TT	HF 200/2 TR	HF 200/2 TT	HF 300/2 TR	HF 300/2 TT
<b>Solar collectors</b>								
Installation	Ground or flat roof	Sloped roof	Ground or flat roof	Sloped roof	Ground or flat roof	Sloped roof	Ground or flat roof	Sloped roof
Collector gross surface	m <sup>2</sup>	2,2	2,2	2,2	2,2	4,4	4,4	4,4
Collector aperture surface	m <sup>2</sup>	2,01	2,01	2,01	2,01	4,02	4,02	4,02
Empty mass	kg	113	104	124	116	170	157	187
Solar circuit capacity	l	5	5	5	5	6,6	6,6	10,6
<b>Tank module</b>								
Domestic hot water storage tank capacity	l	153	153	202	202	202	202	280
DHW circuit max. pressure	bar	8	8	8	8	8	8	8
Solar circuit safety valve calibration	bar	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Heat losses	kWh/24h	1,8	1,8	2,2	2,2	2,2	2,2	3,6
CODE (with antifreeze liquid)		3022100	3022101	3022102	3022103	3022158	3022157	3022104
CODE (without antifreeze liquid)		3022125	3022124	3022127	3022126	3022141	3022140	3022129
CODE (preassembled heating element of 1,5 kW for 150 lt and 2 kW for 200-300 lt)		3022131	3022130	3022177	3022176	3022179	3022178	3022181



These drawings refer to 150/1 and 200/1 models



These drawings refer to 200/2 and 300/2 models



## LIST OF COMPONENTS

Description	Code	Kairos CN direct collector Cod. 3020036	CNA1R direct Cod. 3507082	CNA2R direct Cod. 3507080	CNA3R direct Cod. 3507081	Ground Frame for 150-1 and 200-1 direct Cod. 3024140	Ground Frame for 300-2 Cod. 3024141	Hydraulic fittings kit 150-1 and 200-1 direct Cod. 3024101	Hydraulic fittings kit 300-2 direct Cod. 3024102
Kairos Thermo Direct 150/1 TR	3022091	1	1			1		1	
Kairos Thermo Direct 200/1 TR	3022092	1		1		1		1	
Kairos Thermo Direct 300/2 TR	3022093	2			1		1		1

## LIST OF COMPONENTS

Description	Code	KAIROS VN 2.2 Code:3020041	CNA 150 HF ARISTON Code: 3507104	CNA 200 HF ARISTON Code: 3507105	CNA 300 HF ARISTON Code: 3507106	CNA 150 HF ELETTROSOL Code: 3507110	CNA 200 HF-E 2KW ARISTON Code: 3507173	CNA 300 HF-E 2KW ARISTON Code: 3507174	Ground frame for Kairos Thermo HF 150/1 and 200/1 Code: 3024166	Ground frame for Kairos Thermo HF 200/2 Code: 3024206	Ground frame for Kairos Thermo HF 300/2 Code: 3024167	Roof frame for Kairos Thermo HF 150/1 and 200/1 Code: 3024168	Roof frame for Kairos Thermo HF 200/2 Code: 3024193	Roof frame for Kairos Thermo HF 300/2 Code: 3024169	Hydraulic fittings 150/1 and 200/1 for ground installation Code: 3024162	Hydraulic fittings 150/1 and 200/1 for roof installation Code: 3024164	Hydraulic fittings for ground installation of 200/2 Code: 3024205	Hydraulic fittings for roof installation of 200/2 Code: 3024091	Hydraulic fittings 300/2 for ground installation Code: 3024163	Hydraulic fittings 300/2 for roof installation Code: 3024165
KAIROS THERMO HF 150-1 TR ES	3022125	1	1						1						1					
KAIROS THERMO HF 150-1 TT ES	3022124	1	1									1				1				
KAIROS THERMO HF 200-1 TR ES	3022127	1		1					1						1					
KAIROS THERMO HF 200-1 TT ES	3022126	1		1								1				1				
KAIROS THERMO HF 200-2 TR ES	3022141	2		1						1							1			
KAIROS THERMO HF 200-2 TT ES	3022140	2		1									1					1		
KAIROS THERMO HF 300-2 TR ES	3022129	2			1						1									1
KAIROS THERMO HF 300-2 TT ES	3022128	2			1									1						1
KAIROS THERMO HF 150-1 TR ELETTRISOL	3022131	1				1			1						1					
KAIROS THERMO HF 150-1 TT ELETTRISOL	3022130	1				1						1				1				
KAIROS THERMO HF 200-1 TR ELETTRISOL	3022177	1					1		1						1					
KAIROS THERMO HF 200-1 TT ELETTRISOL	3022176	1					1					1				1				
KAIROS THERMO HF 200-2 TR ELETTRISOL	3022179	2					1			1							1			
KAIROS THERMO HF 200-2 TT ELETTRISOL	3022178	2					1						1					1		
KAIROS THERMO HF 300-2 TR ELETTRISOL	3022181	2						1			1									1
KAIROS THERMO HF 300-2 TT ELETTRISOL	3022180	2						1						1						1

## INTEGRATION SYSTEM

Description	Code	None	Electric heating element	Generic combi boiler	Egis Plus	Genus Evo < 28 kW Clas Evo < 28 kw	Genus Evo ≥ 28 kW Clas Evo ≥ 28 kw Clas B	Outdoor models	Built-in models
ELECTRIC KIT 1,5 KW FOR 150-200-300 LT	107069		●						
ENAMELLED ELECTRIC KIT 2 KW FOR 150-200-300 LT	3024272		●						
THERMOSTATIC MIXER	3024085	●	●	●					
MOTORIZED THREE-WAY VALVE	3087085			●					
DIGITAL THERMOSTAT	800232			●					
INTEGRATED THERMOSTATIC MANUAL MIXING VALVE	3318379				●	●			
HIGH FLOW RATE THERMOSTATIC MIXING VALVE	3318419						●		
BUILT IN SOLAR KIT*	3318408							●	●
MOTORIZED BUILT-IN SOLAR KIT*	3318484								●
INTEGRATED SOLAR PROBE	3318317				●	●	●	●	●

\*It is required the code 3318401 antifreeze kit (protection down -20 °C)

# KAIROS XP 2.5-1V

## Vertical solar collector for big forced circulation systems

- SELECTIVE BLU SERPENTINE ABSORBER
- HIGH TRANSPARENCY GLASS
- QUICK CONNECTIONS
- INTEGRATED SOLAR PROBE HOLE
- GROUND, ROOF OR RECESSED VERTICAL INSTALLATION



HIGH ABSORPTION



HAIL-PROOF



MINERAL WOOL INSULATION



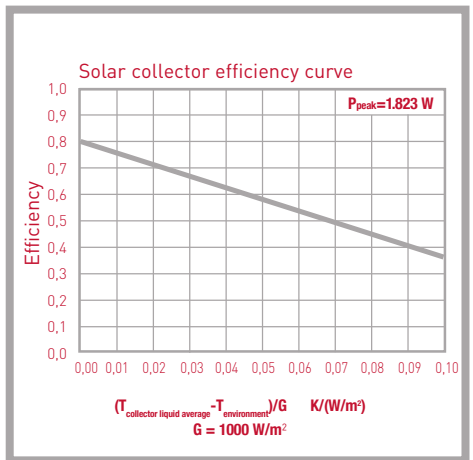
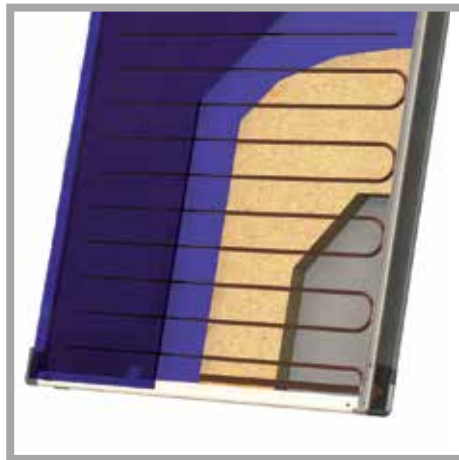
SOLAR KEYMARK



HIGH EFFICIENCY



MADE IN ITALY



## Technical data

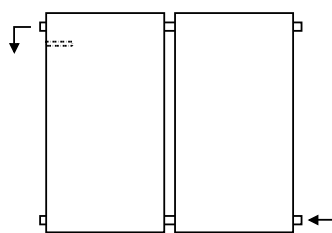
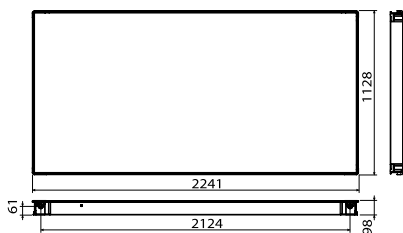
### KAIROS XP 2.5-1V

Empty mass	Kg	46
Working pressure	bar	6
Collector pipe diameter	mm	18
Amount of collector liquid	l	2,1
Absorption	%	95
Emission	%	5
Aperture surface	m <sup>2</sup>	2,26
Absorbent surface	m <sup>2</sup>	2,24
Specific thermic capacity	kJ/K	15,32
$\eta_0$		0,81*
$k_1$	W/m <sup>2</sup> K	3,02*
$k_2$	W/m <sup>2</sup> K <sup>2</sup>	0,016*
T stagnation	°C	198

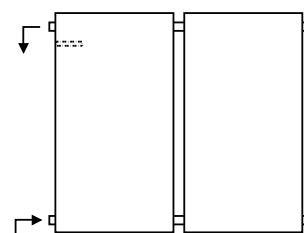
\* data refers to the aperture area

CODE

3020046



Up to 10 collectors



Up to 5 collectors

# KAIROS XP 2.5-1H

## Horizontal solar collector for big forced circulation systems

- SELECTIVE BLU SERPENTINE ABSORBER
- HIGH TRANSPARENCY GLASS
- QUICK CONNECTIONS
- INTEGRATED SOLAR PROBE HOLE
- FLAT ROOF, GROUND OR SLOPED ROOF HORIZONTAL INSTALLATION



HIGH ABSORPTION



HAIL-PROOF



MINERAL WOOL INSULATION



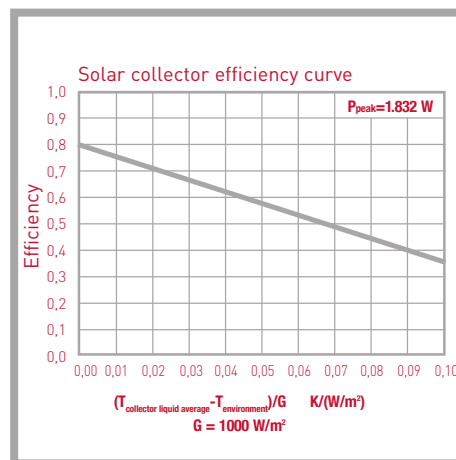
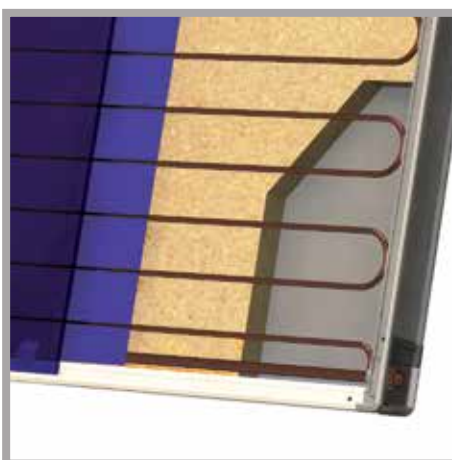
SOLAR KEYMARK



HIGH EFFICIENCY



MADE IN ITALY



## Technical data

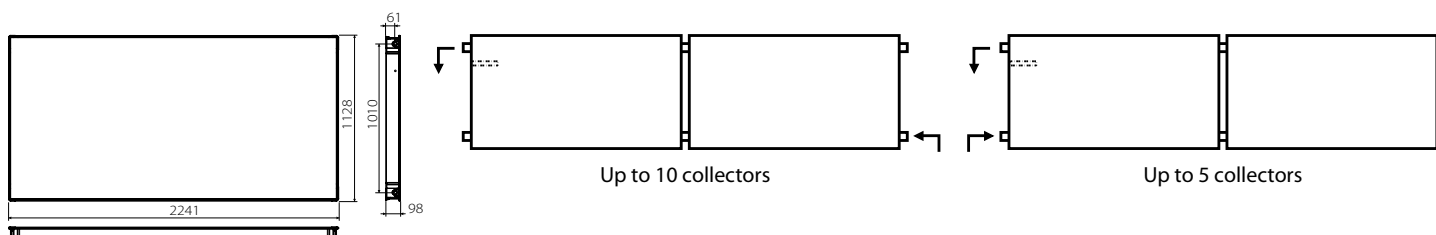
### KAIROS XP 2.5-1H

Empty mass	Kg	46
Working pressure	bar	6
Collector pipe diameter	mm	18
Amount of collector liquid	l	2,5
Absorption	%	95
Emission	%	5
Aperture surface	m <sup>2</sup>	2,26
Absorbent surface	m <sup>2</sup>	2,23
Specific thermic capacity	kJ/K	17,98
$\eta_0$		0,812*
$k_1$	W/m <sup>2</sup> K	3,015*
$k_2$	W/m <sup>2</sup> K <sup>2</sup>	0,017*
T stagnation	°C	193

\* data refers to the aperture area

CODE

3020047



# KAIROS CF 2.0

## Solar collector for forced circulation

- ABSORBER WITH HIGHLY SELECTIVE TREATMENT TO TITANIUM OXIDES (95% ABSORPTION 5% EMISSION)
- HAIL-PROOF ANTI-REFLECTIVE GLASS
- HYDRAULIC CIRCUIT WITH COPPER PIPES
- HARP GEOMETRY AND CONTINUOUS ULTRASOUND WELDING

- DESIGNED AND SIZED FOR FUNCTIONING IN SYSTEMS WITH FORCED CIRCULATION
- CAN BE INCLINED BETWEEN 30° AND 60°
- TEST REPORT ACCORDING TO EN 12975



HIGH ABSORPTION



LONG DURATION



CORROSION-PROOF



HAIL-PROOF



SOLAR KEYMARK



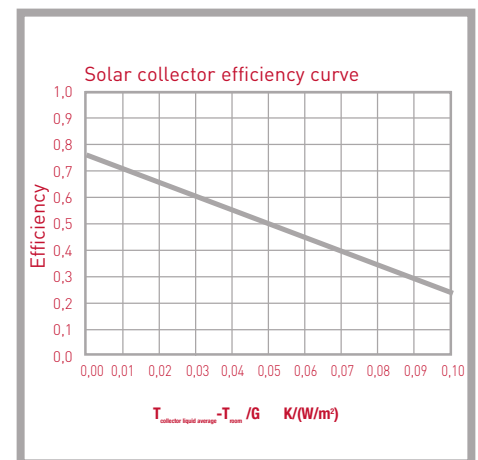
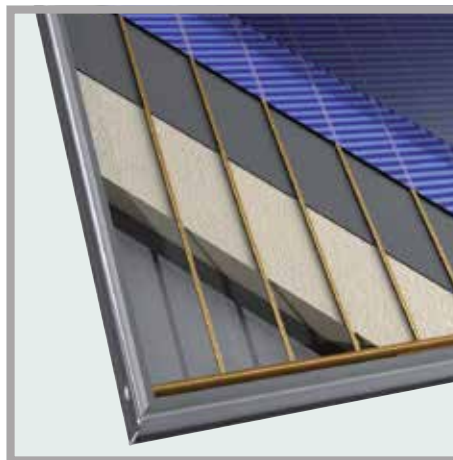
P-ICIM



HIGH EFFICIENCY



MADE IN ITALY



## Technical data

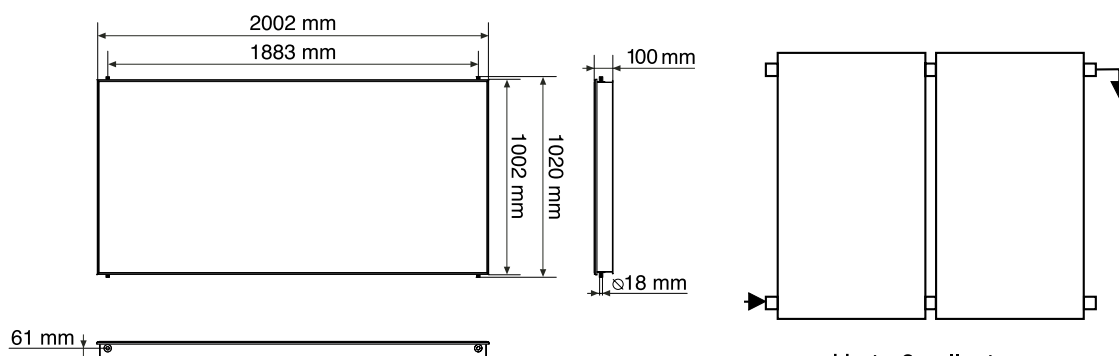
### KAIROS CF 2.0

Empty weight	kg	35
Working pressure	bar	6
Collector pipe diameter	mm	18
Amount of collector liquid	l	1,0
Absorption	%	95
Emission	%	5
Aperture surface	m <sup>2</sup>	1,82
Absorbent surface	m <sup>2</sup>	1,74
Specific heat capacity	kJ/K	13
$\eta_0$		0,74*
$k_1$	W/m <sup>2</sup> K	3,43*
$k_2$	W/m <sup>2</sup> K <sup>2</sup>	0,008*
stagnation T	°C	182,3

\* data referring to the aperture area

CODE

3020008







## Vacuum tube solar collector for special forced circulation systems

- ALUMINIUM BLUE SELECTIVE AND ADJUSTABLE ABSORBER WITH CONCENTRIC TUBE
- VERY HIGH TRANSPARENCY BOROSILICATE VACCUM SINGLE GLASS
- STRUCTURE WITH INSULATED TECHNO-POLYMER
- CONNECTIONS WITH IDLER SCREW NUT
- INTEGRATED SOLAR PROBE HOLE
- VERTICAL, HORIZONTAL, GROUND AND SLOPED ROOF INSTALLATION



HIGH ABSORPTION



CORROSION-PROOF



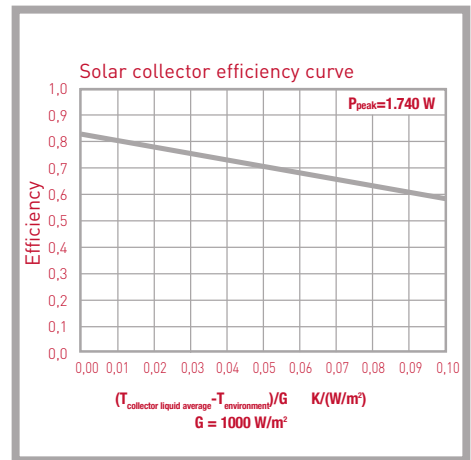
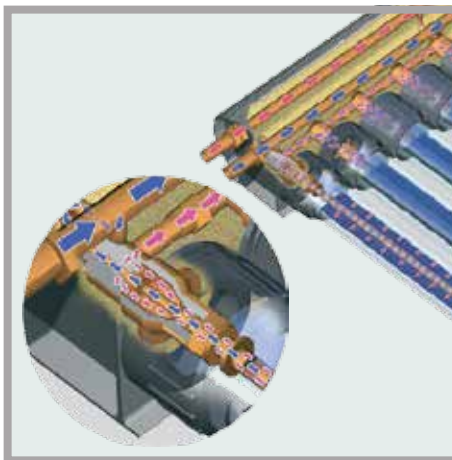
HAIL-PROOF



SOLAR KEYMARK



HIGH EFFICIENCY



## Technical data

### SOLAR COLLECTOR KAIROS VT 20

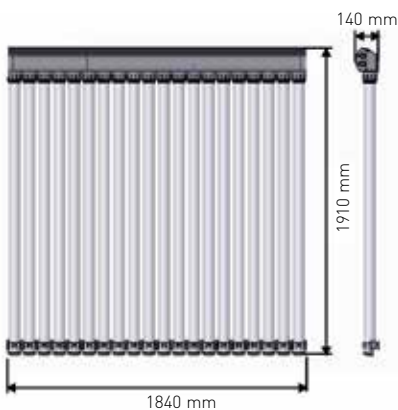
Empty mass	kg	68
Working pressure	bar	6
Amount of collector liquid	lt	5.7
Absorption	%	92
Emission	%	8
Aperture surface	m <sup>2</sup>	2,12
Absorbent surface	m <sup>2</sup>	2,01
$\eta_0$		0.82*
$k_1$	W/m <sup>2</sup> K	2.82*
$k_2$	W/m <sup>2</sup> K <sup>2</sup>	0.0047*
T stagnation	°C	206,1

\* data refers to the aperture area

KAIROS VT 20 B  
3021021

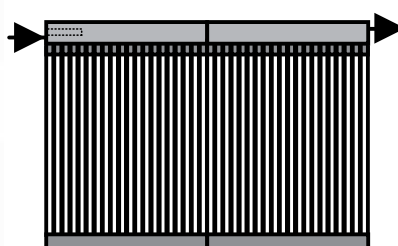
KAIROS VT 20 E  
3021022

CODE

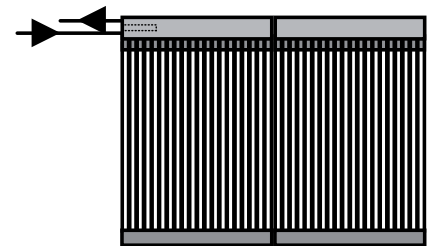


### Rule of composition of the line with temperature probe:

a row of n manifolds consists of a solar collector Kairos VT 20 B and n-1 solar collectors Kairos VT 20 E.



Up to 6 collectors



Up to 3 collectors

# Composition of the rows of solar collectors

Efficient products for the satisfaction of the user, easiness and flexibility of installation to help the installer: this perfect coupling characterizes our solar collectors and is one of the reason why Ariston's solar products are chosen every year from millions of customer around the world.

The collectors of Ariston solar range can be installed on the ground or flat roof, on sloped roof and in-roof (Kairos XP 2.5-1 V only).

For any of the above mentioned installation possibility, the following tables are designed to help the installer and the end user choosing the correct installation and hydraulic accessories for any kind of solar collector.



Example of ground installation



Example of sloped roof installation



Example of in-roof installation (only Kairos XP 2.5 V)

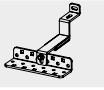
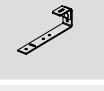


Description	Code	1		2		3		4		5		6	
		TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR
Hydraulic fittings kit for 1 collector forced circ.CF	3024017	1	1	1	1	1	1	1	1	1	1	1	1
Hydraulic fittings kit for CF extension	3024018			1	1	2	2	3	3	4	4	5	5
Roof frame for 1 collector forced circulation CF	3024014	1				1				1			
Roof frame for 2 collectors forced circulation CF	3024015			1				1				1	
Extension roof frame for 2 collectors forced circulation CF	3024016					1		1		2		2	
Horizontal bar (CF 2.0)	3024249		1		2		3		4		5		6
Triangle	3024103		2		2		3		4		5		6

## KAIROS XP 2.5-1V

		1				2				3				4				5				6				7				8				9				10															
		TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>								
Description	Code	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>	TT	TR	IN	IN <sup>2</sup>
KAIROS XP 2.5-1 V	3020046	1	1	1		2	2	2	4	3	3	3	6	4	4	4	8	5	5	5	10	6	6	6	12	7	7	7	14	8	8	8	16	9	9	9	18	10	10	10	20												
Hydraulic connection set 1 collector	3024093	1	1	1		1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2				
Hydraulic connection set 1 collector ext.	3024094					1	1	1	2	2	2	2	4	3	3	3	6	4	4	4	8	5	5	5	10	6	6	6	12	7	7	7	14	8	8	8	16	9	9	9	18												
Horizontal Bars	3024104	1	1			2	2			3	3			4	4			5	5			6	6			7	7			8	8			9	9			10	10														
Triangle	3024103	2				2				3				4				5				6				7				8				9				10															
Inox Fixing Straps*	3024112	2				3				4				5				6				7				8				9				10				11															
In-roof kit (1 collector)	3721434		1																																																		
In-roof kit (2 collectors)	3721428					1	1			1	1			1	1			1	1			1	1			1	1			1	1			1	1			1	1														
In-roof kit (additional collector)	3721429									1	1			2	2			3	3			4	4			5	5			6	6			7	7			8	8														
2nd row in-roof kit (2 collectors)	3721430						1				1				1				1				1				1				1				1				1														
2nd row in-roof kit (additional collector)	3721431										1				2				3				4				5				6				7				8														

		1		2		3		4		5		6		7		8		9		10	
		TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR
Description	Code	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR
KAIROS XP 2.5-1 H	3020047	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
Connection set 1 coll	3024093	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Connect set 1 additional coll XP	3024094			1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
Horizontal bars (XP 2.5-1 H)	3024106	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
Triangle (XP 2.5-1 H)	3024105		2		3		4		5		6		7		8		9		10		11
Inox fixing straps* (pair)	3024112	2		3		4		5		6		7		8		9		10		11	

\* special fixing frame for sloped roof for xp collector

Description	Code	
Bent tile fixing brackets (pair)	3024113	
Flat tile fixing brackets (pair)	3024114	
Slate tile fixing brackets (pair)	3024083	
Undulating roof fixing screws (pair)	3024115	
Wooden roof fixing screws (pair)	3024116	

# KAIROS VT 20



1

2

3

4

5

6

Description	Code	1				2				3				4				5				6							
		TT	TO	OO	TR	TT	TO	OO	TR	TT	TO	OO	TR	TT	TO	OO	TR	TT	TO	OO	TR	TT	TO	OO	TR				
Hydraulic kit for KAIROS VT extension	12043886					1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
Horizontal bar	3024250	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6				
KAIROS VT roof bracket kit	3024147	1	1	1		2	2	2		3	3	3		4	4	4		5	5	5		6	6	6					
Triangle	3024251				1				2				3				4				5				6				
Safety bracket	3024254	1				2				3				4				5				6							

## MINIMUM EXTERNAL TEMPERATURE / PERCENTAGE

GLYCOL TABLE		-3°/10%		-7°/20%		-14°/30%		-23°/40%		-32°/50%		MIXTURE CONTENT
		water	glycol	water	glycol	water	glycol	water	glycol	water	glycol	
Natural Circulation kit	l 150/1	18	2	15	5	15	5	-	-	-	-	20
	l 200/1	22.5	2.5	20	5	17.5	7.5	-	-	-	-	25
	l 200/2	22.5	2.5	20	5	17.5	7.5	-	-	-	-	25
	l 300/2	22.5	2.5	20	5	17.5	7.5	-	-	-	-	25
Forced Circulation kit	l 200/2 CF1	12	1	10.5	2.5	9	4	8	5	6.5	6.5	13
	l 200/2 CF2	8	1	7	2	6.5	2.5	5.5	3.5	4.5	4.5	9
	l 300/2 CF1	16	2	14.5	3.5	12.5	5.5	11	7	9	9	18
	l 300/2 CF2	16	2	14.5	3.5	12.5	5.5	11	7	9	9	18
	l 400/3 CF2	20.5	2.5	18.5	4.5	16	7	14	9	11.5	11.5	23
	l 500/4 CF2	25	3	22.5	5.5	19.5	8.5	17	11	14	14	28
Supplementary CF kit connections	18 - 5 m_pipe	+ 1	+ 0	+ 1	+ 0	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1
	18 -10 m_pipe	+ 2	+ 0	+ 1.5	+ 0.5	+ 1.5	+ 1	+ 1	+ 1	+ 1	+ 1	+ 2
	18 -20 m_pipe	+ 3.5	+ 0.5	+ 3	+ 1	+ 3	+ 1	+ 2.5	+ 1.5	+ 2	+ 2	+ 4
	18 -30 m_pipe	+ 5.5	+ 0.5	+ 5	+ 1	+ 4	+ 2	+ 3.5	+ 2.5	+ 3	+ 3	+ 6
	22 - 5 m_pipe	+ 2	+ 0	+ 1.5	+ 0.5	+ 1.5	+ 0.5	+ 1	+ 1	+ 1	+ 1	+ 2
	22 -10 m_pipe	+ 2.5	+ 0.5	+ 2.5	+ 0.5	+ 2	+ 1	+ 2	+ 1	+ 1.5	+ 1.5	+ 3
	22 -20 m_pipe	+ 5.5	+ 0.5	+ 5	+ 1	+ 4	+ 2	+ 3.5	+ 2.5	+ 3	+ 3	+ 6
	22 -30 m_pipe	+ 8	+ 1	+ 7	+ 2	+ 6	+ 3	+ 5.5	+ 3.5	+ 4.5	+ 4.5	+ 9

# Accessories and components



# Solar Accessories

	Code
<b>Solar system management accessories and devices</b>	
<b>Sensys, modulating system manager (wired)</b> - Remote control of all boiler functions through the BUS Bridgenet protocol - User-Friendly Setting/Configuration of system parameters - thermoregulation - Display of solar system working (if connected) - Display of energy reports (kWh), solar energy production, CO2 savings, stored DHW - Modulating sensor for detecting of the room temperature - User-friendly daily and weekly scheduling of central heating - User-friendly daily and weekly scheduling of domestic hot water (only in case of only-heating boiler coupled to a tank)	3318585 IT-EN-FR-ES-PT  3318613 TK-RUS-GR-HR-SRB  3318615 PL-CZ-HU-RO
<b>ELIOS 25 solar control unit</b> Control unit with LCD able to show and manage up to 20 types of solar plants. Four inputs for Pt1000 Class B DIN type probes and four high voltage outputs. Three probes supplied, two for the cylinder and one for the collector with copper well. The control unit displays the temperatures detected by the probes, on-screen diagnostics, system test function, counting the hours of integration and anti-freeze function. Dimensions: 156 x 108 x 47 mm.	3104047
<b>Additional DHW solar probe</b> Cylinder probe with diameter of 6 mm Pt1000 Class B DIN with 1 metre of blue cable suitable for measuring cylinder temperatures; range -50°C/+110°C. Compatible with Elios 25.	3104049
<b>Additional collector solar probe</b> Cylinder probe with diameter of 6 mm Pt1000 Class B DIN with 1 metre of grey cable suitable for measuring collector temperatures; range -50°C/+200°C. Compatible with Elios 25. Copper well and probe-holder clamp included.	3104048
<b>Enamelled electrical resistance</b> Flanged resistance kit for 2 kW single-phase natural circulation systems and 220 V power supply. Includes flange, magnesium anode, thermostat and small cap. Suitable for Kairos Thermo Direct (all versions) and Kairos Thermo HF (all versions).	3024272
<b>Electrical resistance</b> Flanged resistance kit for 1.5 kW single-phase natural circulation systems and 220 V power supply. Includes flange, magnesium anode, thermostat and small cap. Suitable for Kairos Thermo Direct (all versions) and Kairos Thermo HF (all versions).	107069
<b>Safety group</b> Pre-assembled group including safety valve, automatic air release valve and manometer	12053830
<b>heating return probe S4</b>	3024175



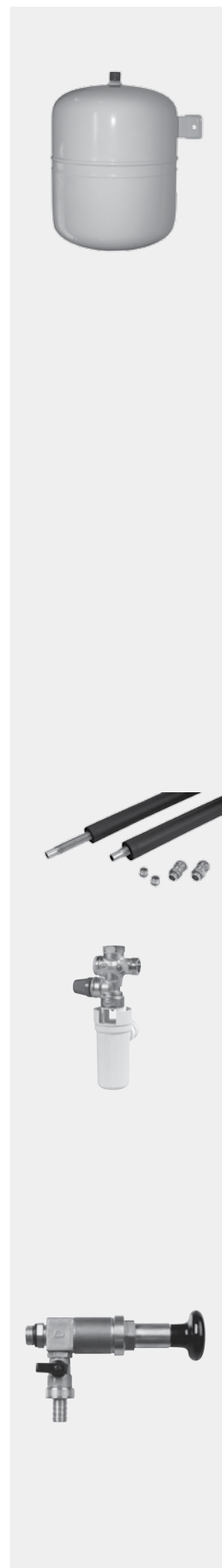
# Solar Accessories

	Code
<b>Hydraulic devices and accessories</b>	
<p><b>Solar pump unit 25-65 (AR)</b> Pumping station for forced circulation systems, equipped with safety unit, regulation and rinse unit. Hydraulic connections in 3/4" flat seal version. Flexible tube and quick-coupling fitting for expansion vessel. Dimensions: 250 x 375 mm. Flow - return centre-to-centre distance 100 mm.</p>	3024056
<p><b>Digital Solar Pump Group</b> Pumping station for forced circulation plants, equipped with a safety, regulation and rinse unit, digital pressure and temperature sensors, electronic control board provided with a collector probe and two tank probes. Hydraulic connections in 18 mm or in 3/4" flat seal version. Dimensions: 275 x 480 mm. flow - return axles distance 125 mm. NB: system interface SENSYS to be ordered separately</p>	3024151
<p><b>Cascade solar pump unit 25-65</b> Pumping station for forced circulation systems, equipped with safety unit, regulation and rinse unit. Hydraulic connections in 3/4" flat seal version. To be coupled to the solar pump unit 25-65 (AR) for management of systems with several cylinders or with several sets of collectors. Dimensions: 250 x 375 mm.</p>	3024057
<p><b>Solar pump unit 25-120</b> Pumping station for large forced circulation systems, equipped with safety unit. Hydraulic connections in 3/4" flat seal version. Flexible tube and quick-coupling fitting for expansion vessel.</p>	3024059
<p><b>Thermostatic mixer</b> Bronze mixing valve designed for solar application able to supply constant temperature in a wide range of regulations with reaction times at extremely low thermal transients. Equipped with scald-proof mechanism, protection against calcification and corrosion. Dimensions: 115 x 74 mm.</p>	3024085
<p><b>GAL EVO motorized mixing valve (plus wires)</b></p>	3024176
<p><b>Motorized diverter valve</b> Diverter valve for DHW integration management. 230 V power supply. Temperature of the fluid +1°C/+95°C, maximum functioning differential pressure 4 bar. 3/4" male threaded connections. Dimensions: 94 x 130 x 68 mm.</p>	3087085
<p><b>Motorized three-way valve</b> diverter motorized valve to use exclusively with Macc tank. Suitable with heating and domestic hot water. Includes wires.</p>	3024076
<p><b>GAL EVO motorized diverter valve</b></p>	3024177
<p><b>Fresh water station</b> DHW production module. Minimum flow rate 2,5 l/min. Maximum DHW flow rate 32 l/min. Adjustable temperature from 36 to 65 °C. Dimensions 700x400x295 mm</p>	3024152
<p><b>Recirculation kit FWS</b></p>	3024161
<p><b>Hydraulic kit COMBI</b></p>	3024174



# Solar Accessories

	Code
<b>18 lt solar expansion vessel</b>	4448666440
<b>25 lt solar expansion vessel</b>	4448666451
<b>35 lt solar expansion vessel</b>	12002737
<b>50 lt solar expansion vessel</b>	12028860
<b>80 lt solar expansion vessel</b>	12078041
<b>150 lt solar expansion vessel</b>	3720857
<b>200 lt solar expansion vessel</b>	3720858
Suitable for use in closed heating systems with solar energy as per DIN 4757 and EN 12977. The vessel is equipped with a special membrane for solar systems, certified according to the DIN 4807-3 Standard, which separates the air side from the side containing the solar liquid. The fixing brackets allow stable and safe installation. Maximum pressure equal to 10 bar, System use temperature within -10°C/+99°C.	
<b>Generic solar plate heat exchanger 16kW</b>	3024036
<b>Generic solar plate heat exchanger 32kW</b>	3024037
<b>Generic solar plate heat exchanger 48kW</b>	3024038
Brazen steel plate heat exchanger, suitable for use with domestic hot water and heating. Operational pressure 5 bar, maximum operational temperatures 60/45 °C respectively with exchange surfaces (m2)* / number of plates / acceptable volumetric flow rate (l/h) equal to 0.4 / 18 / 720; 0.8 / 34 / 1440; 1.2 / 48 / 2500	
<b>Solar heat exchanger for swimming pools 20kW</b>	3024039
<b>Solar heat exchanger for swimming pools 40kW</b>	3024040
<b>Solar heat exchanger for swimming pools 70kW</b>	3024041
*Titanium shell and tube heat exchanger, suitable for heating water in swimming pools. Operational pressure 2 bar. Primary/secondary operational flow rates (m3) respectively of 0.9/10; 1.7/15; 3/20.	
<b>Collector side hydraulic adaptation kit</b>	3024070
Contains hydraulic fitting elements for smooth copper pipe measuring 16-18 and 22 mm and for connection with 3/4" flat seal.	
<b>Pump unit side hydraulic adaptation kit.</b>	3024071
Contains hydraulic fitting elements for smooth copper pipe measuring 16-18 and 22 mm and for connection with 3/4" flat seal.	
<b>Automatic air vent valve</b>	3024158
<b>Stainless steel roof passage pipes.</b>	3024234
Contains two flexible stainless steel pipes measuring 22 mm with isolation measuring 1 m. Connections for smooth copper pipe measuring 16-18 and 22 mm.	
<b>Twin pre-isolated pipes</b>	3024069
Kit containing 10 m of corrugated stainless steel dual piping with 16 mm diameter and preisolated. Collector probe cable is incorporated. A bronze fitting kit is supplied for connection to the collectors and the pumping station.	
<b>1/2" hydraulic safety unit</b>	877084
<b>3/4" hydraulic safety unit</b>	877085
<b>1" hydraulic safety unit</b>	885516
<b>1" siphon</b>	877086



## Instruments for filling and maintenance of the solar system

	Code
<b>Pure anti-freeze liquid (5 lt)</b>	800215
Non-toxic, odourless and hygroscopic propylene glycol. The corrosion inhibitors contained in the propylene glycol protect the metals normally used in solar installations. Can be mixed with water in all proportions between 25% and 75%.	
<b>Anti-freeze liquid manual loading pump</b>	800235
Bronze piston pump for connection to the solar system during the filling phase and pressurisation.	



# Cylinders





## Floor-standing indirect cylinder with coil



- BOILER PROTECTION WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT AT 850°C
- SINGLE-COIL, FOLDED-DOWN FOR UNIFORM HEATING OF TANK
- EQUIPPED FOR RECIRCULATION
- UPPER FLANGE WITH INTEGRATED ANODE AND SENSOR SHEATH
- 110 MM FRONT INSPECTION FLANGE
- MAGNESIUM ANODE
- ADJUSTABLE SUPPORT FEET
- 3 kW ELECTRICAL INTEGRATION KIT (FOR 200 AND 300 LITRE MODELS) OR 6 kW AVAILABLE ON REQUEST
- RING NUT FOR ELECTRICAL KIT INSERTION

**flexibility**  
in the  
**storage**  
**capacity**

## Technical data - Overall dimensions

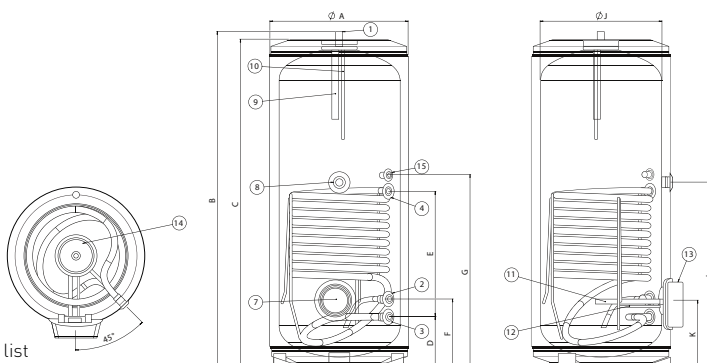
		BC1S 200	BC1S 300	BC1S 450				
Capacity	l	200	300	450	A mm	600	600	714
Coil exchange surface	m <sup>2</sup>	1	1,3	1,6	B mm	1312	1834	1744
Max absorbed power	kW	31	36	43	C mm	1272	1794	1704
Warming time	min	28	36	46	D mm	248	248	270
DHW Production					E mm	434	663	646
ΔT=30°C	l/h	762	885	1057	F mm	338	338	360
ΔT=45°C	l/h	592	688	822	G mm	-	-	1003
Pressure loss trough coil	mbar	9,0	10,4	13,0	J mm	500	500	630
Max working pressure	bar	10	10	10	K mm	324	324	354
Heat dispersion	kWh/24h	1,7	1,9	2,1	L mm	730	959	964
Cooling constant	wh/l k j	0,18	0,14	0,13				
Max working temperature	°C	90	90	90				
Net weight	kg	101	135	151				

CODE

3070256

3070257

3070258



1. Domestic hot water outlet 1" M
2. Domestic cold water inlet 1" F
3. Coil return 1" F
4. Coil outlet flow 1" F
7. Side flange ø110 mm
8. Connection for heating element 1" 1/2
9. Upper magnesium anode
10. Upper probe sheath
11. Side magnesium anode
12. Side probe sheath
13. Side access door
14. Upper access door
15. Recirculation

For the whole accessory list see page 34



## Floor-standing indirect cylinder with double coil



LONG-LIFE



POLYURETHANE INSULATION



ANTI CORROSION



INSPECTION FLANGE



SOLAR INTEGRABLE



MADE IN FRANCE

- BOILER PROTECTION WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT AT 850°C
- DOUBLE COIL WITH HIGH SURFACE TO COUPLE WITH FOSSIL OR RENEWABLE ENERGIES
- EQUIPPED FOR RECIRCULATION
- UPPER FLANGE WITH INTEGRATED ANODE AND SENSOR SHEATH
- 110 MM FRONT INSPECTION FLANGE
- MAGNESIUM ANODE
- ADJUSTABLE SUPPORT FEET
- 3 kW ELECTRICAL INTEGRATION KIT (FOR 200 AND 300 LITRE MODELS) OR 6 kW AVAILABLE ON REQUEST
- RING NUT FOR ELECTRICAL KIT INSERTION (FOR 300 AND 450 LITRE MODEL)

ideal  
for  
**solar**  
heating  
systems

## Technical data - Overall dimensions

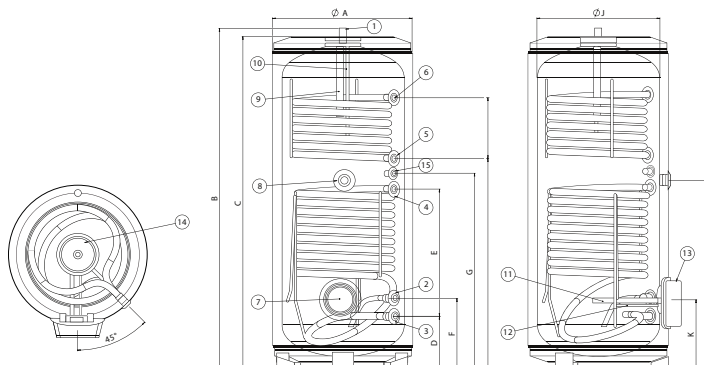
		BC2S 200		BC2S 300		BC2S 450							
Capacity	l	200		300		450		A mm	600	600	714		
Coil		Upper	Lower	Upper	Lower	Upper	Lower	B mm	1312	1834	1744		
Coil exchange surface	m <sup>2</sup>	0,8	1	0,8	1,3	1	1,6	C mm	1272	1794	1704		
Max absorbed power	kW	27,3	31,0	27,3	36,0	30,8	43,0	D mm	248	248	270		
DHW Production								E mm	434	663	646		
ΔT=30°C	l/h	671	762	671	885	757	1057	F mm	338	338	360		
ΔT=45°C	l/h	497	667	497	688	589	925	G mm	595	998	1003		
Pressure loss trough coil	mbar	1,0	9	1,3	10,4	1,6	13,0	H mm	770	1167	1089		
Max working pressure	bar	10		10		10		I mm	270	270	282		
Heat dispersion	kWh/24h	1,7		1,9		2,1		J mm	500	500	630		
Cooling constant	wh/l k j	0,18		0,13		0,1		K mm	324	324	354		
Max working temperature	°C	90		90		90		L mm	730	959	964		
Net weight	kg	101		135		151							

CODE

3070259

3070260

3070261



1. Domestic hot water outlet 1" M
2. Domestic cold water inlet 1" F
3. Lower Coil return 1" F
4. Lower Coil outlet flow 1" F
5. Upper coil return 1" F
6. Upper coil outlet flow 1" F
7. Side flange ø110 mm
8. Connection for heating element 1" 1/2 " (not for 200 l)"
9. Upper magnesium anode
10. Upper probe sheath
11. Side Magnesium Anode
12. Side probe sheath
13. Side access door
14. Upper access door
15. Recirculation

For the whole accessory list see page 34



Floor-standing vertical cylinder with high capacity for the storage of domestic hot water.



ANTI CORROSION



INSPECTION FLANGE



MADE IN ITALY

- STEEL BOILER WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT
- MAGNESIUM ANTI-CORROSION ANODE
- RECIRCULATION
- INSPECTION FLANGE
- INTEGRATED PROBE-HOUSING SHEATH
- FLEXIBLE REMOVABLE INSULATION
- ACTIVE ANODE AVAILABLE AS ACCESSORY
- -400 MM INSPECTION FLANGE

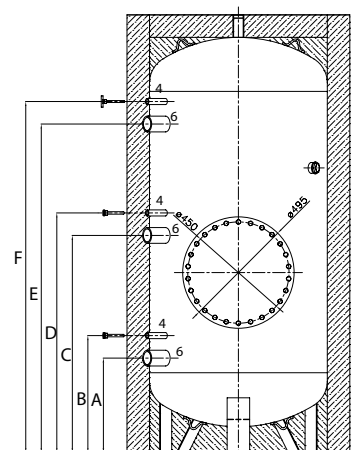
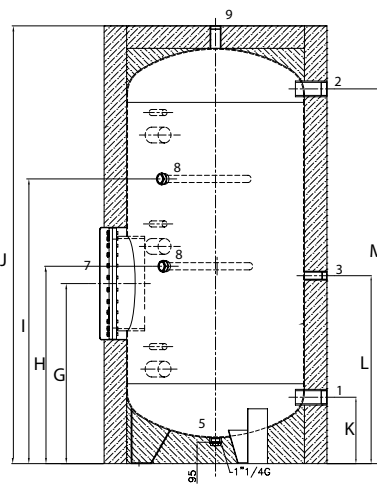
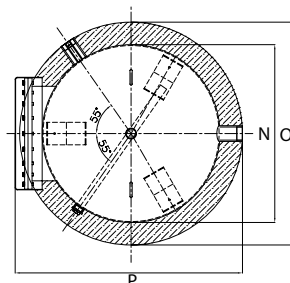
## Technical data - Overall dimensions

		MAXIS CDZ 800	MAXIS CDZ 1000	MAXIS CDZ 1500	MAXIS CDZ 2000	MAXIS CDZ 2500	MAXIS CDZ 3000		MAXIS CDZ 800	MAXIS CDZ 1000	MAXIS CDZ 1500	MAXIS CDZ 2000	MAXIS CDZ 2500	MAXIS CDZ 3000
Capacity	l	800	930	1500	2000	2500	2993	A mm	420	420	490	570	540	540
Max. working pressure	bar	7	7	7	7	7	7	B mm	520	520	590	670	640	640
Max. cylinder working pressure	°C	95	95	95	95	95	95	C mm	965	1160	1140	1125	1220	1370
Cylinder's thermal dispersions	kWh/24h	5,3	6,0	8,3	8,9	10,0	11,4	D mm	1065	1260	1240	1225	1320	1470
Mempty mass	kg	216	237	360	417	550	617	E mm	1460	1710	1780	1610	1870	2220
								F mm	1560	1910	1880	1710	1970	2320
								G mm	800	830	905	975	960	960
								H mm	1265	1050	1065	1125	1150	1150
								I mm		1600	1650	1550	1800	2150
								J mm	1945	2195	2335	2245	2465	2815
								K mm	295	295	365	435	400	400
								L mm	835	835	945	1025	1105	1105
								M mm	1665	1915	1985	1820	2080	2430
								N mm	790	790	1000	1200	1250	1250
								O mm	990	990	1200	1400	1450	1450
								P mm	1010	1010	1220	1420	1470	1470

CODE

3507113 3507114 3507121 3507122 3507123 3507124

- |                                |               |                |
|--------------------------------|---------------|----------------|
|                                | 800-1000-1500 | 2000-2500-3000 |
| 1. Cold water inlet            | G2" F         | G2" F          |
| 2. Hot water outlet            | G2" F         | G2" F          |
| 3. Recirculation               | G1" F         | G1 1/2" F      |
| 4. Sanitary circuit return     | G2" F         | G2" F          |
| 5. Draining fitting connection | G1 1/4" F     | G1 1/4" F      |
| 6. Well                        | G1/2" F       | G1/2" F        |
| 7. Flange                      | ø 400         | ø 400          |
| 8. Magnesium anode             | G1 1/4" F     | G1 1/4" F      |
| 9. Upper fitting connection    | G1 1/4" F     | G1 1/4" F      |



For the whole accessory list see page 34



Floor-standing vertical single-coil cylinder for the production of domestic hot water. Integrable with forced circulation solar system or high power heating system



ANTI CORROSION



SOLAR INTEGRABLE



INSPECTION FLANGE



MADE IN ITALY

- STEEL BOILER WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT
- MAGNESIUM ANTI-CORROSION ANODE
- RECIRCULATION
- INSPECTION FLANGE
- TWO INTEGRATED PROBE-HOUSING SHEATHS
- AVAILABLE HEATING ELEMENT KIT
- INTEGRATED THERMOMETER
- PRE-ASSEMBLED FLEXIBLE REMOVABLE INSULATION
- ACTIVE ANODE AVAILABLE AS ACCESSORY

## Technical data - Overall dimensions

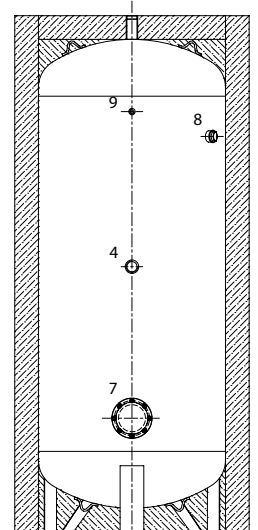
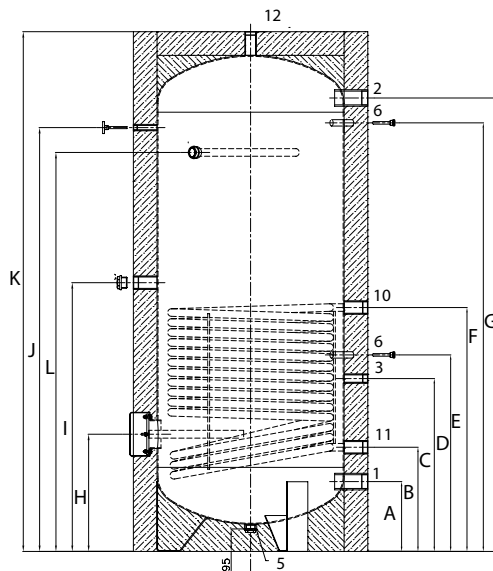
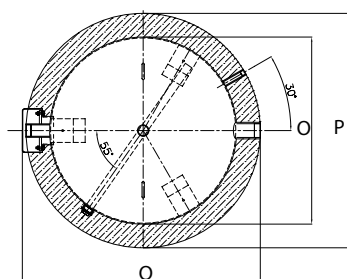
		MAXIS CD1 800F	MAXIS CD1 1000F			MAXIS CD1 800F	MAXIS CD1 1000F
Capacity	l	748	908	A mm		295	295
Max. working pressure (EN 12897-2006)	bar	7	7	B mm		460	440
Max. working cylinder temperature	°C	95	95	C mm		660	730
Solar coil surface	m <sup>2</sup>	2,5	3,0	D mm		760	830
Solar coil capacity	l	14,2	18	E mm		910	1030
Max. working coil temperature	°C	110	110	F mm		1560	1810
Coil power at 900 l/h (according to EN12897/EN15332)	kW	23,8 / 22	30,9 / 39,5	G mm		1665	1915
Coil load losses at 900 l/h	mbar	21	33	H mm		475	495
Max. coil working pressure	bar	10	10	I mm		1000	1135
Cylinder's thermal dispersions	kWh/24h	5,27	6,03	J mm		1540	1790
Empty mass	kg	201	272	K mm		1945	2195
				L mm		1360	1685
				M mm		-	-
				N mm		-	-
				O mm		790	790
				P mm		990	990
				Q mm		1005	1005

CODE

3507117

3507118

1. Cold water inlet G2" F
2. Hot water outlet G 2" F
3. Recirculation G 1" F
4. Sanitary circuit return G 1 1/2" F
5. Draining fitting connection G 1 1/4" F
6. Well G 1/2" F
7. Flange ø 110
8. Magnesium anode G 1 1/4" F
9. Thermometer
10. Primary circuit flow G 1 1/2" F
11. Primary circuit return G 1 1/2" F
12. Upper fitting connection G 1 1/2" F



For the whole accessory list see page 34



Floor-standing vertical single-coil cylinder for the production of domestic hot water. Integrable with forced circulation solar system or high power heating system



ANTI CORROSION



SOLAR INTEGRABLE



INSPECTION FLANGE



MADE IN ITALY

- STEEL BOILER WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT
- MAGNESIUM ANTI-CORROSION ANODE
- RECIRCULATION
- INSPECTION FLANGE
- INTEGRATED PROBE-HOUSING SHEATH
- AVAILABLE HEATING ELEMENT KIT
- INTEGRATED THERMOMETER
- FLEXIBLE REMOVABLE INSULATION
- ACTIVE ANODE AVAILABLE AS ACCESSORY
- -400 MM INSPECTION FLANGE

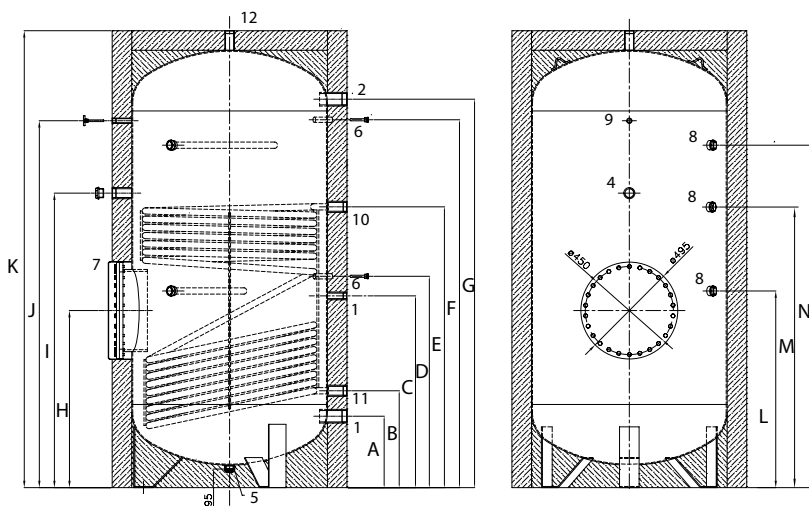
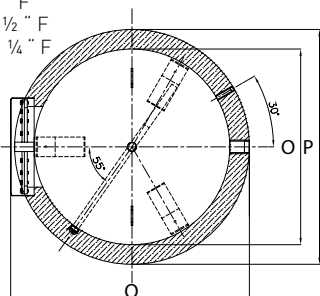
## Technical data - Overall dimensions

		MAXIS CD1 800	MAXIS CD1 1000	MAXIS CD1 1500	MAXIS CD1 2000	MAXIS CD1 2500		MAXIS CD1 800	MAXIS CD1 1000	MAXIS CD1 1500	MAXIS CD1 2000	MAXIS CD1 2500
Capacity	l	800	1000	1500	2000	2500	A mm	295	295	365	435	400
Max. working pressure (EN 12897-2006)	bar	7	7	7	7	7	B mm	415	425	495	560	555
Max. working cylinder temperature	°C	95	95	95	95	95	C mm	795	865	980	1060	1065
Solar coil surface	m <sup>2</sup>	2,5	3	4,5	5,4	6	D mm	895	965	1080	1160	1165
Solar coil capacity	l	14,2	18	26,6	32,6	36,6	E mm	1195	1315	1435	1460	1535
Max. working coil temperature	°C	110	110	110	110	110	F mm	1560	1810	1880	1710	1970
Coil power at 900 l/h	kW	22/23,8	30,9/39,5	30,9 / 39,5	39,9 / 57,5	46,1 / 65,3	G mm	1665	1915	1985	1820	2080
(according to EN12897/EN15332)							H mm	800	830	905	975	960
Coil load losses at 900 l/h	mbar	21	33	33	44	48	I mm	1260	1395	1505	1525	1660
Max. coil working pressure	bar	10	10	10	10	10	J mm	1540	1790	1875	1695	1955
Cylinder's thermal dispersions	kWh/24h	5,62	6,03	5,97	8,31	8,88	K mm	1945	2195	2335	2245	2465
Empty mass	kg	246	272	420	487	630	L mm	900	930	1005	1075	1060
							M mm					1590
							N mm	1500	1765	1750	1650	1920
							O mm	790	790	1000	1200	1250
							P mm	990	990	1200	1400	1450
							Q mm	1010	1010	1220	1420	1470

CODE

3507115 3507116 3507125 3507126 3507127

1. Cold water inlet G2" F
2. Hot water outlet G 2" F
3. Recirculation G 1 1/2" F
4. Heating element G 1 1/2" F
5. Draining fitting connection G 1 1/4" F
6. Well G 1/2" F
7. Flange ø 400
8. Magnesium anode G 1 1/4" F
9. Thermometer
10. Primary circuit flow G 1 1/2" F
11. Primary circuit return G 1 1/2" F
12. Upper fitting connection G 1 1/4" F



For the whole accessory list see page 34



Floor-standing vertical double-coil cylinder for the production of domestic hot water. Integrable with forced circulation solar system or high power heating system



ANTI CORROSION



SOLAR INTEGRABLE



INSPECTION FLANGE



MADE IN ITALY

- STEEL BOILER WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT
- MAGNESIUM ANTI-CORROSION ANODE
- RECIRCULATION
- INSPECTION FLANGE
- INTEGRATED PROBE-HOUSING SHEATH
- AVAILABLE HEATING ELEMENT KIT
- INTEGRATED THERMOMETER
- FLEXIBLE REMOVABLE INSULATION
- LARGE SOLAR SURFACE EXCHANGER AND INTEGRATION FOR THE MAXIMUM EFFICIENCY
- COIL AND BACK SANITARY CONNECTIONS FOR EASY INSTALLATION

## Technical data - Overall dimensions

		MAXIS CD2 800F	MAXIS CD2 1000F	MAXIS CD2 1500F	MAXIS CD2 2000F	MAXIS CD2 2500F		MAXIS CD2 800F	MAXIS CD2 1000F	MAXIS CD2 1500F	MAXIS CD2 2000F	MAXIS CD2 2500F
Capacity	l	770	896	1500	2000	2500	A mm	295	295	365	435	400
Max. working pressure (EN 12897-2006)	bar	7	7	7	7	7	B mm	460	460	520	560	555
Max. working cylinder temperature	°C	95	95	95	95	95	C mm	760	760	995	925	1030
Solar coil surface	m <sup>2</sup>	2,4	2,5	4,2	4,5	6,0	D mm	910	910	1230	1110	1270
Solar coil capacity	l	14,2	14,5	24,6	27,1	36,6	E mm	1050	1115	1380	1265	1475
Solar coil power at 900 l/h*	kW	24,6 / 45,3	30,1 / 62,1	37,2 / 70,9	39,9 / 57,5	51,2 / 72,4	F mm	1290	1360	1555	1415	1645
Coil load losses at 900 l/h	mbar	23	23	67	45	50	G mm	1350	1465	1650	1520	1755
Max. working coil pressure	bar	10	10	10	10	10	H mm	1500	1565	1785	1645	1895
Solar coil surface	m <sup>2</sup>	2,4	2,5	2,5	3	3,5	I mm	1560	1810	1880	1710	1970
Upper coil capacity	l	14,2	14,5	14,5	18,1	21,2	J mm	1665	1915	1985	1820	2080
Upper coil power at 900 l/h	kW	18 / 23,5	34,7 / 60,3	34,7 / 60,3	35,2 / 65,2	36 / 70,1	K mm	475	475	570	690	645
Upper coil load losses at 900 l/h	mbar	15	22	22	23	28	L mm				1165	1325
Max. working coil pressure	bar	10	10	10	10	10	M mm	980	1015	1305	1215	1405
Max. working coil temperature	°C	110	110	110	110	110	N mm	1250	1215	1415	1450	
Cylinder's thermal dispersions	kWh/24h	5,27	5,97	7,06	8,26	9,34	O mm	1560	1685	1865	1700	1955
Empty mass	kg	236	257	410	477	635	P mm	1540	1790	1875	1700	1955
							Q mm	1945	2195	2335	2245	2465
							R mm	790	790	1000	1200	1250
							S mm	990	990	1200	1400	1450
							T mm	1005	1005	1215	1415	1465

\* [according to EN 12897/EN15332]

CODE

3507119

3507120

3507128

3507129

3507130

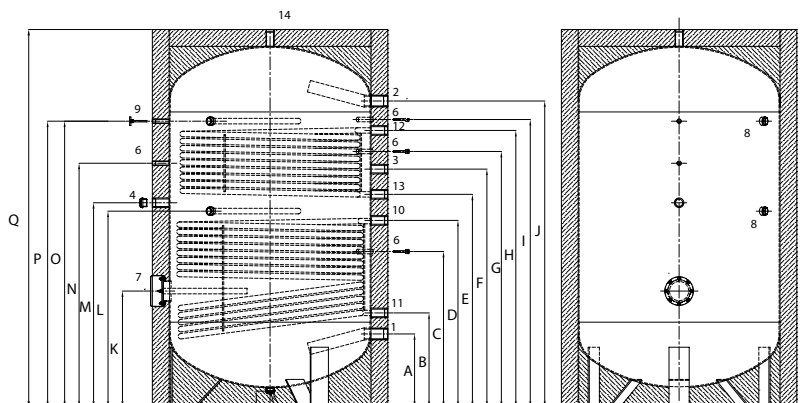
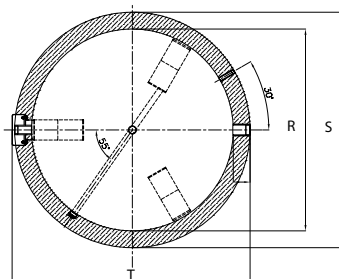
1. Cold water inlet
2. Hot water outlet
3. Recirculation
4. Heating element
5. Draining fitting connection
6. Well
7. Flange
8. Magnesium anode
9. Thermometer
10. Lower coil flow
11. Lower coil return
12. Upper coil flow
13. Upper coil return
14. Upper fitting connection

800 - 1000 - 1500

- G 2" F
- G 2" F
- G 1" F
- G 1 1/2" F
- G 1 1/4" F
- G 1/2" F
- ø 110
- G 1 1/4" F
- 
- G 1 1/2" F
- G 1 1/2" F
- G 1 1/2" F
- G 1 1/2" F
- G 1 1/4" F

2000 - 2500

- G 2" F
- G 2" F
- G 1 1/2" F
- G 1 1/2" F
- G 1 1/4" F
- G 1/2" F
- ø 110
- G 1 1/4" F
- 
- G 1 1/2" F
- G 1 1/2" F
- G 1 1/2" F
- G 1 1/2" F
- G 1 1/4" F



For the whole accessory list see page 34



## Buffer cylinder for primary circuit water with coil



MADE IN ITALY

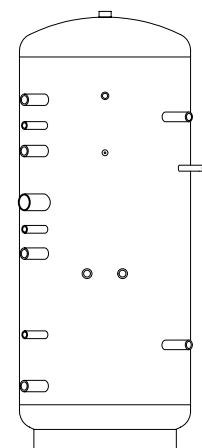
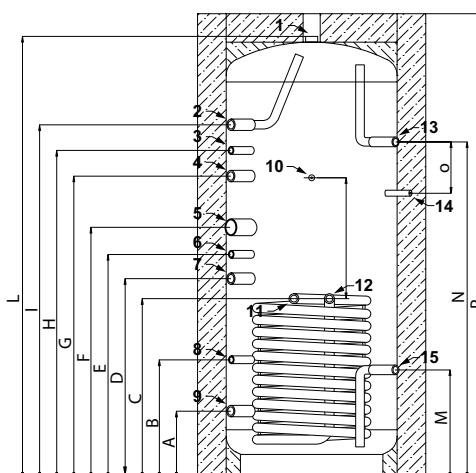
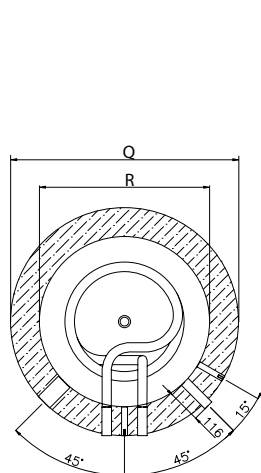
- BLACK STEEL CYLINDER
- PARALLEL CONNECTIONS FOR THE SOLAR COIL, ARRANGEMENT FOR EASY CONNECTION TO THE DIGITAL SOLAR PUMP GROUP-INTERNAL PIPES AND ARRANGEMENT FOR EASY INSTALLATION ON DHW MODULE
- POSSIBILITY OF INTEGRATION WITH ELECTRICAL RESISTANCE AND CONNEXION FOR AIR RELEASE SYSTEM
- DESIGNED FOR INTEGRATION WITH FRESH WATER STATION AND SOLAR PUMP GROUP

## Technical data - Overall dimensions

		MAXIS CK1	MAXIS CK1	MAXIS CK1	MAXIS CK1					
		400	600	800	1000	MAXIS CK1 400	MAXIS CK1 600	MAXIS CK1 800	MAXIS CK1 1000	
Capacity	l	400	580	765	888	A mm	235	230	260	260
Max. working pressure	bar	3	3	3	3	B mm	415	405	500	500
Max. working cylinder temperature	°C	95	95	95	95	C mm	630	760	775	900
Solar coil surface	m <sup>2</sup>	1,5	2,1	2,8	3,4	D mm	700	815	855	980
Solar coil capacity	l	9,3	13	17,5	21	E mm	785	900	950	1075
Max. working coil temperature	°C	110	110	110	110	F mm	880	1000	1060	1185
Coil power at 900 l/h (according to EN12897/EN15332)	kW	24/ 16,2	28,4/ 50,7	28,6/ 24,8	32,4/ 57,7	G mm	1060	1400	1315	1550
Coil load losses at 900 l/h	mbar	21	25	32	32	H mm	1150	1550	1405	1640
Max. working coil pressure	bar	10	10	10	10	I mm	1240	1645	1495	1730
Cylinder's thermal dispersions	kWh/24h	2,3	2,97	3,45	3,45	L mm	1550	1865	1725	1975
Empty mass	kg	92	113	155	176	M mm	380	380	380	380
						N mm	1180	1180	1180	1180
						O mm	180	180	180	180
						P mm	1630	1945	1805	2055
						Q mm	800	850	990	990
						R mm	600	650	790	790

CODE 3507097 3507098 3507099 3507100

1. Air valve G 1" F
2. Boiler flow G 1" F
3. Well G 1/2" F
4. Heating flow G 1" F
5. Heating element G 1 1/2" F
6. Well G 1/2" F
7. Return boiler G 1" F
8. Well G 1/2" F
9. Heating return G 1" F
10. M6 bolt for connection of digital solar pump group
11. Solar flow G 3/4" F
12. Solar return G 3/4" F
13. DHW production module return G 3/4" F
14. M8 bolt for connection of DHW production group
15. DHW production module flow G 3/4" F



For the whole accessory list see page 34





## Buffer cylinder for primary circuit water, without coil



MADE IN ITALY

- BLACK STEEL CYLINDER
- 8 2" CONNECTIONS TO MANAGE HIGH POWER AND HIGH CAPACITY SOURCES
- IDEAL TO MATCH WITH PLATE HEAT EXCHANGERS TO STORAGE PRIMARY CIRCUIT WATER FROM SOLAR AND OTHER SOURCES
- DIRECT CONNECTION WITH THE BOILER THANKS TO 6 BAR WORKING PRESSURE
- 4 PROBE HOLDERS
- 8 PROBE HOLDERS (4 IMMERSED AND 4 CONTACT PROBE HOLDERS)

## Technical data - Overall dimensions

		MAXIS CKZ 1500	MAXIS CKZ 2000	MAXIS CKZ 2500	MAXIS CKZ 3000		MAXIS CKZ 1500	MAXIS CKZ 2000	MAXIS CKZ 2500	MAXIS CKZ 3000
Capacity	l	1500	2000	2500	2822	A mm	372	335	390	390
Max. working pressure	bar	6	6	6	6	B mm	817	885	860	950
Max. working cylinder temperature	°C	95	95	95	95	C mm	1342	1441	1365	1510
Cylinder's thermal dispersions	kWh/24h	6,52	11,22	10,72	10,75	D mm	1750	1990	1820	2070
Empty mass	kg	224	256	297	324	E mm	2150	2408	2265	2515
						F mm	1000	1100	1250	1250
						G mm	1200	1300	1450	1450

CODE

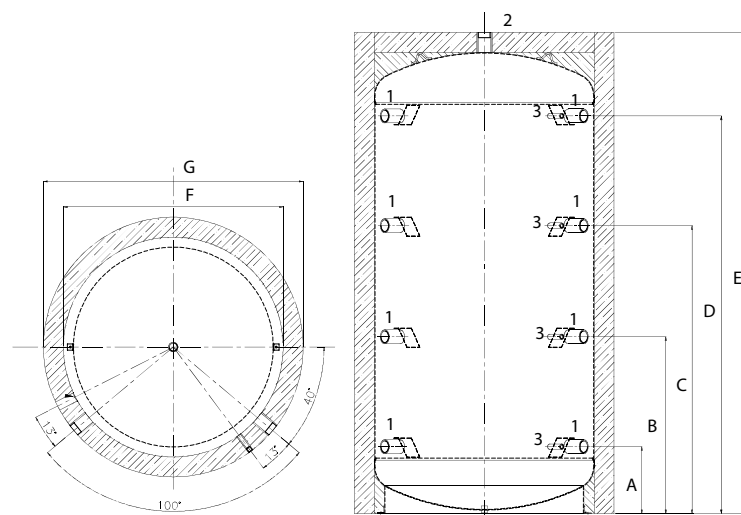
3507131

3507132

3507133

3507134

1. Primary circuit connection G 2" F
2. Air release valve G 2" F
3. Probe well G 1/2"



For the whole accessory list  
see page 34

# Cylinder Accessories

Electrical kits	Code	BC1S BC2S	CDZ	CD1F CD1 CD2F	CK1
Electrical kit 3 kW Includes: heating element, flange 110 mm, wiring and rod thermostat	935118	● (only for 200 and 300 liters)			
Electrical kit three-phase 6 kW Includes: heating element, flange 110 mm, wiring and bubl thermostat mono and three-phase	935119	●			
Electrical kit 1,5 kW Includes: 1" 1/2 screw-on heating element and thermostat. EPR: IP 21 for installation on single-phase side flange	935393	● (no BC2S 200)		● (only 800 1000)	●
Electrical kit 2,5 kW Includes: 1" 1/2 screw-on heating element and thermostat. EPR: IP 21 for installation on single-phase side flange	935394	● (no BC2S 200)		●	●
Electrical kit 6 kW Includes: 1" 1/2 screw-on heating element and thermostat. EPR: IP 21 for installation on three-phase side flange	3078066			●	●
Electrical kit 9 kW Includes heating element on 400 mm flange and thermostat.	3078058		●	● (CD1 models)	
Electrical kit 15 kW Includes heating element on 400 mm flange and thermostat.	3078059		●	● (CD1 models)	
Small active anode Kit	3078061		● (800 1000)		
Medium active anode Kit	3078062		● (1500)	● (CD1 F 1000)	
Large active anode Kit	3078063		● (2000)	● (1500)	
Extra Large active anode Kit	3078064		● (2500 3000)	● (2000 2500)	
<b>Safety group</b>					
Hydraulic safety group R1/2Z	12053830	●			●

# Ariston offers complete customer satisfaction

## PRE-SALES SERVICE

At Ariston we believe that every system can perform at the top only if it is customized. In order to provide the best solution, our pre-sales service take care of every new installation from the very beginning taking into consideration all the specific factors and the peculiarities of the site, thus providing a tailored-fit solution that can maximize the comfort of the end users and therefore their satisfaction. Thanks to software simulation and CAD programs, Ariston positions itself as the perfect partner for renewable solutions, from consultants to the end user.



## AFTER-SALES SERVICE

Our products are manufactured for your peace of mind: the materials used, the building technique and the specifics of the products are chosen with the aim of minimizing the maintenance. The tests performed on 100% of the production are an additional guarantee of quality and durability. Anyhow for any intervention our after sales service can assist you on the phone or directly on the field to solve any possible issue that may come out after the installation and commissioning.

## STEP-BY-STEP SUPERVISION

Playing a critical part in the performance of a renewable system, the phases of installation and first commissioning of the product are followed with incredible care by our technicians. Whether it's simply a doubt to be solved or an on-site supervision, we are there to help you through this important stage, at any step.



## CONSTANT TRAINING

The constant evolution of solar systems and other renewable products is not an issue for Ariston and its partners. Periodical trainings are held directly in the solar products manufacturing plant in Italy. These intensive courses focus on new products as well as on new dimensioning techniques. In this way we can always provide a state-of-the-art service, ensuring your maximum satisfaction.

[www.ariston.com](http://www.ariston.com)

ARISTON THERMO GROUP

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