ARISTON

The home of sustainable comfort

Solar Water Heating Systems and Cylinders

WATER HEATERS · SOLAR SYSTEMS · HEAT PUMPS · GAS BOILERS

The home of **sustainable comfort**

As a leading specialist in heating and water-heating with over 90 years of history, Ariston understands well the challenges in creating practical and high-performance products and systems that guarantee exceptional levels of comfort and efficiency. That is why it has set itself a new mission – to give more homes access to sustainable comfort solutions using less energy and effort.

To this end, it has further strengthened its commitment to delivering high-quality, renewable and energy-efficient solutions that can simplify and improve the quality of home life while empowering people to live more sustainably.

By successfully combining its global reach with an in-depth focus on the needs of the different markets where it has a presence, Ariston prides itself in being the home of sustainable comfort: a reference brand trusted worldwide by millions of families and industry professionals longing for advanced thermal comfort solutions that not only are easy to use and maintain but also use as little energy as possible.

Our story, driven by your needs

Ariston's continuous growth has been fueled by its commitment to provide people with reliable and highly-efficient comfort solutions to improve and enjoy life at home.
Each step of the way we have been driven by the existing and emerging needs of our customers, and our solutions have been conceived with their lifestyle in mind.

'30s Foundation

Aristide Merloni founds "Industrie Merloni" company in the Marche Region of Italy, and starts the production of weighing scales.

'80s Heating

We consolidate our market leadership in water heating and the production of boilers begins.

'60s **Water** heating

The Ariston brand is launched and the production of electric water heaters begins.

'90s

Global expansion

With the launch in China and Russia, we begin to evolve into a global brand.

'10s

Ariston Comfort Challenge

With this mission, Ariston proved the ability of its products to guarantee exceptional performance, durability and efficiency's levels in every condition, even where it seems impossible. It was a huge challenge, but it was just the beginning.

'00s

Renewable technologies

We successfully develop and launch our new model in heat pump, which marks our development into innovative and sustainable heating technology.

'20s

The home of sustainable comfort

We strengthen our commitment to providing our end-users with products that generate heating and hot water in the most efficient and renewable way possible. A tangible sign of our dedication to respecting everything that surrounds us.

Believe in **sustainability**

Our purpose is to provide everyone, in every corner of the world, with high-quality heating and water heating solutions, while protecting the environment.
To this end, we have placed energy efficiency and technologies using energy from renewable sources at the centre of our sustainable growth strategy, thus acting consistently with the sustainable development goals endorsed by the General Assembly of the United Nations.

This commitment is reflected in the effort we invest in developing efficient and sustainable products, solutions and processes that can make a decisive contribution to reducing energy consumption and environmental impact without sacrificing comfort.

The economic, social and environmental impacts generated through Ariston Thermo Group's operations contribute towards 9 of the 17 sustainable development goals, including:

Sustainable cities and communities

Ariston Thermo Group's commitment to energy-efficient solutions will enable citizens to use clean energy to its fullest potential. Replacing low-efficiency products with Ariston's new high-efficiency technologies will allow to curb carbon dioxide emissions by more than 3,4 Mln tons by 2022*.

Responsible consumption and production

All of our production plants around the world are at the centre of Ariston Thermo Group's energy efficiency plan. This consists in a long-term strategy that in 2019 allowed the Group to achieve a remarkable result: over 10,000 tons of CO2 equivalent avoided thanks to the energy efficiency of the production processes.

Climate action

During 2019 the Ariston Comfort Zone, a modular house equipped with Ariston's most advanced and efficient technology, enabled a group of researchers from the University of Copenhagen tasked with studying how climate change is affecting the Arctic ecosystem to conduct 22 new studies.


ARISTON
SERVICE

Pre-Sales and After-Sales technical support

Our Services

We are always at your side In all phases of the realization of a project.

From the design of a plant, to the construction of the system itself and even after commissioning, a team of Ariston specialists is constantly available to provide support and assistance.

Pre-Sales

A team of technicians and engineers offer their support and their experience in the design of key-on-hand solutions, providing them with products, designs and maintenance services.

Technical Consultancy Center

The Technical Consultancy Center provides every day specialist consultancy and timely responses on the technical characteristics of installations.

The technical team is the right interlocutor with whom interface for design and maintenance of complex plants.

After-Sales

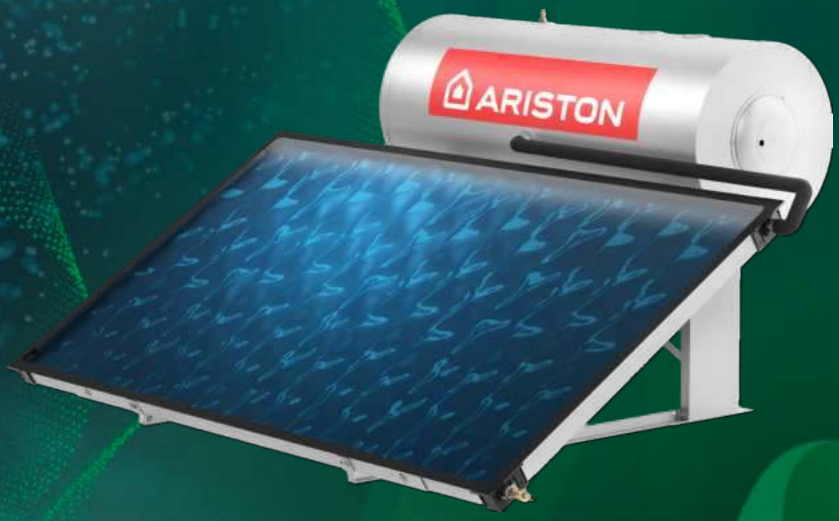
Our qualified Service Network provides technical support for startup, maintenance, troubleshooting and repair interventions, by remote and on field as well.

Our mission is to deliver high level of service, through solid know-how and quality of genuine spare parts, in order to ensure the Ariston products performance, long term reliability and make them exceed the Customer expectations.

SOLAR
HEATING SYSTEMS

KAIROS THERMO CF-3

KAIROS THERMO GR-2



KAIROS THERMO HF-2

KAIROS FAST
CD1 CF-1
CD2 CF-1

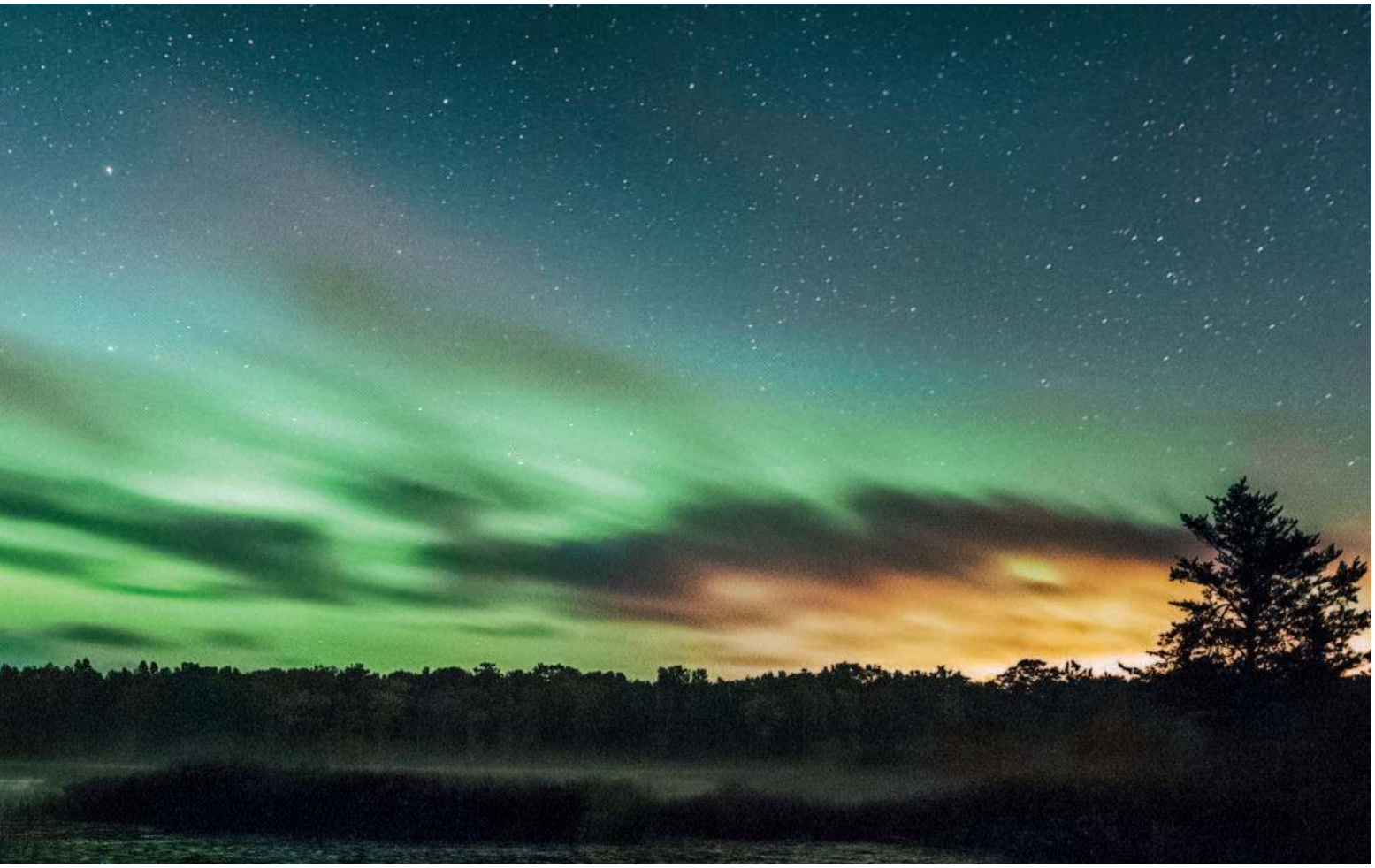
ARISTON CARES!

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?



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

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.

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 m2 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

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.

Ente Nazionale per l'Energia Elettrica
Enel

17 GIU 1983
Prot. n. 09509

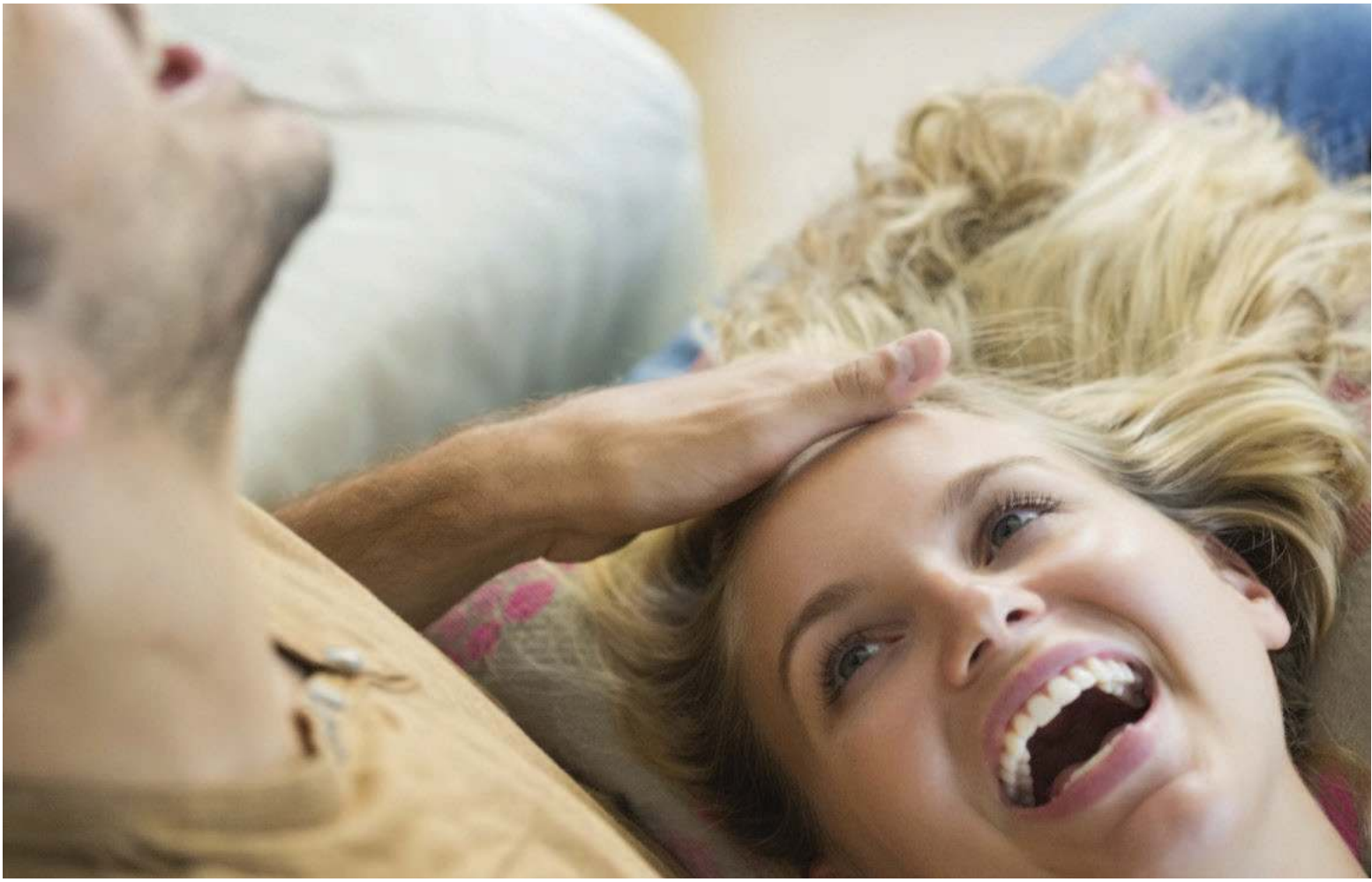
Spett.le
MERLONI IGIENICO SANITARI S.p.A.
Viale Aristide Merloni, 45
60044 FABRIANO (AN)

OGGETTO: Prove su collettori piani secondo specifiche 80/PDB/001
Collettore Mod. RAV. 1.8 4L/E3

Con la presente abbiamo il piacere di comunicarVi che il Vostro collettore mod. RAV. 1.8 4L/E3, le cui caratteristiche sono quelle da Voi certificate nei disegni trasmessi alla PHOEBUS e indicate nell'allegato, è risultato conforme alla specifica in oggetto e pertanto, non appena l'E - NEL provvederà presso i propri utenti la produzione di acqua calda mediante impianti a collettori solari, esso potrà farne parte alle condizioni tecniche particolari riportate in allegato.

Con i migliori saluti.

OUR FIRST SOLAR COLLECTOR WAS CERTIFIED IN 1983 BY THE ITALIAN NATIONAL BODY OF ENERGY.



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 loosing 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

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.

THE SOLUTION TO ALL NEEDS

NATURAL CIRCULATION

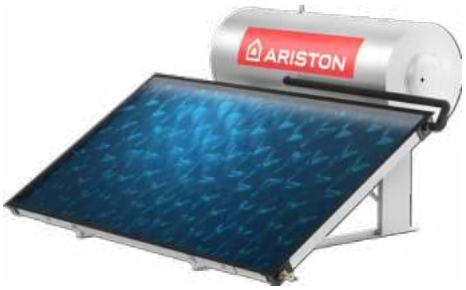
SIMPLE
RELIABLE
ECONOMIC
REDUCED MAINTENANCE

FORCED CIRCULATION

EFFICIENT
FLEXIBLE
ARCHITECTONIC INTEGRATION
IN SYMBIOSIS WITH THE BOILER

COMPLETE SYSTEMS

	KAIROS THERMO CF-3		KAIROS THERMO GR-2			
	200-1	300-2	150-1	200-1	200-2	300-2
TYPE OF CIRCULATION	natural		natural			
ROOF INSTALLATION	yes		yes			
GROUND AND FLAT ROOF INSTALLATION	yes		yes			
TYPE OF SYSTEM	indirect		indirect			
ELECTRO SOLAR VERSION AVAILABLE	yes		yes			
NUMBER OF COLLECTORS	1	2	1	1	2	2
GROSS AREA (m^2)	2,01		1,96			
EXPANSION VASE	not necessary		not necessary			
SENSYS	not necessary		not necessary			
TANK ENERGY CLASS	-		-			
TANK EMPTY WEIGHT (kg)	60	100	50	60	60	85
COLLECTOR WEIGHT (kg)	30		27			
SOLAR KEYMARK	yes		yes			
PAGE	20		21			



KAIROS THERMO HF-2				KAIROS FAST CD1 CF-1			KAIROS FAST CD2 CF-1	
150-1	200-1	200-2	300-2	150-1	200-2	300-2	200-2	300-2
natural				forced			forced	
yes				yes			yes	
yes				yes			yes	
indirect				indirect			indirect	
yes				-			-	
1	1	2	2	1	2	2	2	2
2,2				2,01			2,01	
not necessary				included, 16 l			included, 16 l	
not necessary				included			included	
-				B	C	C	C	C
30	30	60	60	82	110	119	114	131
35				29,5			29,5	
yes				yes (only collectors)			yes (only collectors)	
22				26			26	

Kairos Thermo CF-3

ENERGY EFFICIENT | MADE IN ITALY | HAIL PROOF | SOLAR KEYMARK

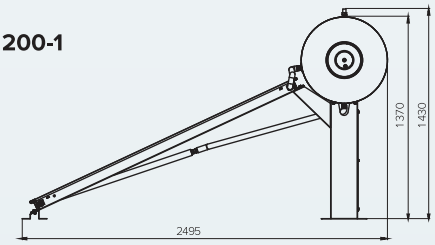
Natural circulation solar system for production of domestic hot water

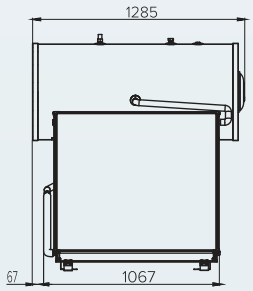
- / New heat exchanger with 3x* performance
- / Selective surface treatment grant 95% absorbtion and only 5% reflection
- / Robust structure in aluminum
- / Fast, easy and risk-free installation with "inster and click" connection

Features

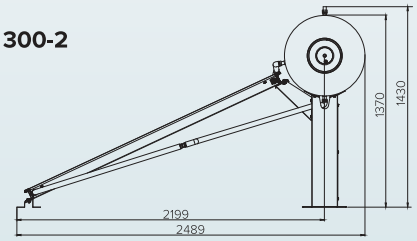
- / Refined design
- / Solar keymark certification on entire system
- / Safety valve
- / Made in Italy

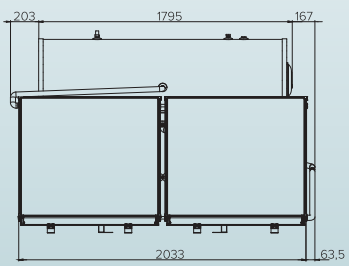
200-1





300-2





TECHNICAL DATA		CF-3 200-1	CF-3 300-2
Solar system			
Installation		Ground or flat roof	Ground or flat roof
Numer of collectors		1	2
Total gross area	m2	2.01	4.02
Total absorber area	m2	1.83	3.66
Empty mass	kg	115	193
Solar circuit capacity	lt	11	22
Solar safety valve calibration	bar	2.5	2.5
Absorbtion		95%	95%
Collector glass		Mat tempered glass, low iron, 3.2mm thick	Mat tempered glass, low iron, 3.2mm thick
Absorber material		Full face, aluminum sheet with selective coating	Full face, aluminum sheet with selective coating
Absorber tubing material	kg	Copper	Copper
Max load tested		5400	5400
Storage tank			
Nominal Tank capacity	lt	200	300
Insulation thickness	mm	50	50
Outer Material tank	mm	Prepainted steel	Prepainted steel
CODE		3022514	3022340

LIST OF COMPONENTS

Description	code	KAIROS CF 2.0-1 code 3020072	SOLAR ENAMELED TANK 2 KW 200 L PREP. ST. code 3207055	SOLAR ENAMELED TANK 2 KW 300 L PREP. ST. code 3207054	HYDRA + INST KIT THERMO CF-3 200-1 TR code 3024390	HYD+INST KIT THERMO CF-3 200-2/300-2 TR code 3024391	DOCUMENT PACKAGE THERMO CF-3 code 3024392
KAIROS THERMO CF-3_E 200-1 TR	3022514	1	1		1		1
KAIROS THERMO CF-3_E 300-2 TR	3022340	2		1		1	1

*heat exchanger capacity in liters compared to old CF2. 9lt (CF-3) vs 3lt (CF2) on 200lt version.

Kairos Thermo GR-2

ENERGY EFFICIENT | ITALIAN DESIGN | HAIL PROOF | SOLAR KEYMARK

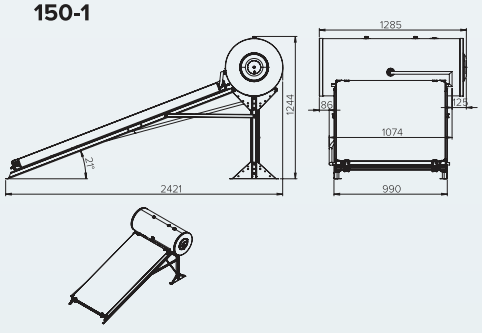
Natural circulation solar system for production of domestic hot water

/ Selective surface treatment grant 95% absorbtion and only 5% reflection

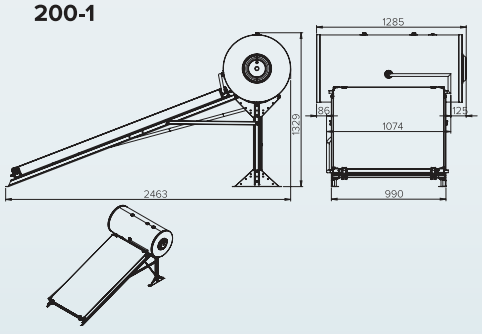
Features

/ Solar keymark certification on entire system
/ Safety valve
/ Available in single or double collector configuration

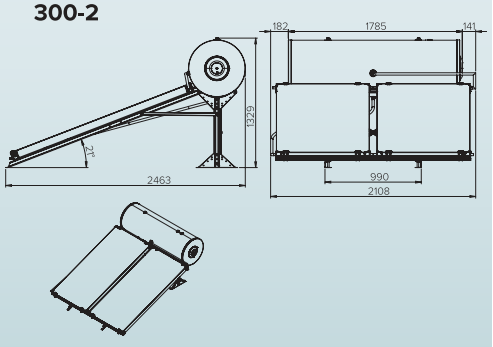
150-1



200-1



300-2

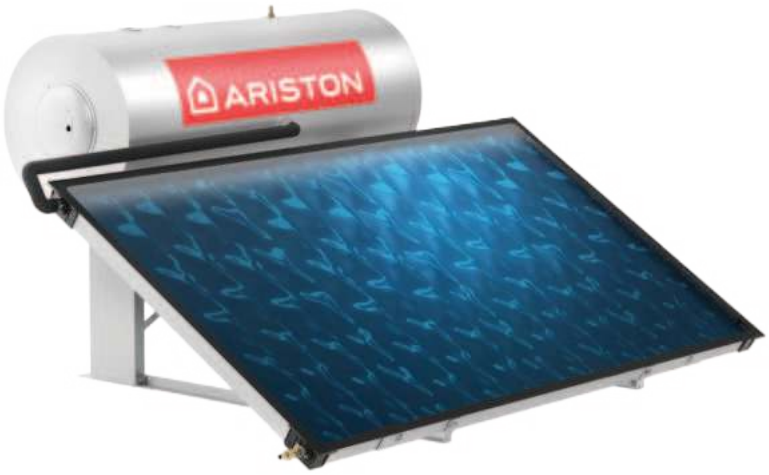


TECHNICAL DATA		GR2 150-1	GR2 200-1	GR2 300-2
Solar system				
Installation		Ground or flat roof	Ground or flat roof	Ground or flat roof
Numer of collectors		1	1	2
Total gross area	m2	2.04	2.04	4.08
Total absorber area	m2	1.94	1.94	3.88
Empty mass	kg	104	114	178
Solar circuit capacity	lt	10	11	23
Solar safety valve calibration	bar	2.5	2.5	2.5
Absorbtion		95%	95%	95%
Collector glass		Clear tempered glass, 3.2mm thick	Clear tempered glass, 3.2mm thick	Clear tempered glass, 3.2mm thick
Absorber material		Full face, aluminum sheet with selective coating	Full face, aluminum sheet with selective coating	Full face, aluminum sheet with selective coating
Absorber tubing material		Copper	Copper	Copper
Max load tested	kg	2400	2400	2400
Storage tank				
Nominal Tank capacity	lt	150	200	300
Insulation thickness	mm	50	50	50
Outer Material tank	mm	Prepainted steel	Prepainted steel	Prepainted steel
CODE		3022483	3022484	3022485

LIST OF COMPONENTS

Description	code	KAIROS COLLECTOR GR2 2M code 3020081	SOLAR ENAMELED TANK GR2 2M 150 2KW PS ARI code 3207122	SOLAR ENAMELED TANK GR2 2M 200 2KW PS ARI code 3207123	SOLAR ENAMELED TANK GR2 2M 300 2KW PS ARI code 3207124	HYDRA I INST KIT GR2 2M 1 COLL NG TR code 3024523	HYDRA I INST KIT GR2 2M 2 COLL NG TR code 3024524
KAIROS THERMO GR2 2KW 150-1 2M TR	3022483	1	1			1	
KAIROS THERMO GR2 2KW 200-1 2M TR	3022484	1		1		1	
KAIROS THERMO GR2 2KW 300 2 2M TR	3022485	2			1		1

Kairos Thermo HF-2 NEW



Natural circulation solar system for production of domestic hot water

/ New heat exchanger with 3x performance for faster water heating*
/ Increased rain penetration resistance for no-worry in any climate.
/ Blue selective surface treatment grant 95% absorbtion and only 5% reflection.
/ Fast, easy and risk-free installation with 'insert and click' connections.

Features
/ Refined design
/ Solar keymark certification
/ Tempered glass with low iron
/ Safety valve and thermostat*

*Compared to previous model Kairos HF

TECHNICAL DATA		HF-2 150/1 TR	HF-2 150/1 TT	HF-2 200/1 TR	HF-2 200/1 TT	HF-2 200/2 TR	HF-2 200/2 TT	HF-2 300/2 TR	HF-2 300/2 TT
SOLAR COLLECTORS									
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
Number of collectors		1	1	1	1	2	2	2	2
Total Gross Area	m^2	2,2	2,2	2,2	2,2	4,4	4,4	4,4	4,4
Total Absorber Area	m^2	2,01	2,01	2,01	2,01	4,02	4,02	4,02	4,02
Empty mass	kg	88	88	98	98	128	128	160	160
Solar Circuit capacity	l	8	8	9	9	9	9	19	19
Absorption	%	95%	95%	95%	95%	95%	95%	95%	95%
External cover material		High transparency glass	High transparency glass	High transparency glass	High transparency glass	High transparency glass	High transparency glass	High transparency glass	High transparency glass
STORAGE TANK									
Domestic hot water storage tank capacity	l	136	136	190	190	190	190	276	276
Domestic hot water circuit max. pressure	bar	8	8	8	8	8	8	8	8
Solar circuit safety valve calibration	bar	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
CODE* (NO integrated electric backup)		3022449	3022450	3022451	3022452	3022453	3022454	3022455	3022456
CODE Electric verison with INTEGRATED 2kW heating element*		3022434	3022433	3022436	3022435	3022438	3022437	3022440	3022439

Integration System		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
Description	**Code**								
Backup heating element 1,5 kW (150-200-250 lt)	3105073		●						
Backup heating element 2 kW (150-200-250 lt)	3105071		●						
Backup heating element 2,5 kW (150-200-250 lt)	3105072		●						
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				●	●	●	●	●
			A	B			C		

*Valid for electro solar version only.
**It is required the code 3318401 antifreeze kit (protection down -20 °c)

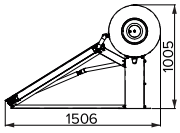
ENERGY EFFICIENT | ITALIAN DESIGN | HAIL PROOF | SOLAR KEYMARK

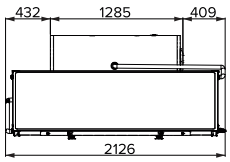
LIST OF COMPONENTS		KAIROS VN 2.2-2 code 3020083	SOLAR ENAMELED TANK HF-2 150 ARISTON code 3207107	SOLAR ENAMELED TANK HF-2 200 ARISTON code 3207115	SOLAR ENAMELED TANK HF-2 300 ARISTON code 3207109	SOLAR ENAMELED TANK HF-2-E 2KW150 ARISTON code 3207111	SOLAR ENAMELED TANK HF-2-E 2KW200 ARISTON code 3207117	SOLAR ENAMELED TANK HF-2-E 2KW200 ARISTON code 3207113	Flat roof installation kit + hydraulic kit for KAIROS THERMO HF-2 150-1 TR - code 3024482	Flat roof installation kit + hydraulic kit for KAIROS THERMO HF-2 200-1 TR - code 3024483	Flat roof installation kit + hydraulic kit for KAIROS THERMO HF-2 200-2 TR and 300-2 TR - code 3024484	Sloped roof installation kit + hydraulic kit for KAIROS THERMO HF-2 150-1 TT - code 3024485	Sloped roof installation kit + hydraulic kit for KAIROS THERMO HF-2 200-1 TT - code 3024486	Sloped roof installation kit + hydraulic kit for KAIROS THERMO HF-2 200-2 TT - code 3024487	Sloped roof installation kit + hydraulic kit for KAIROS THERMO HF-2 300-2 TT - code 3024488
Description	**code**														
Kairos Thermo HF-2 150-1 TR	3022449	1	1						1						
Kairos Thermo HF-2 150-1 TT	3022450	1	1									1			
Kairos Thermo HF-2 200-1 TR	3022451	1		1						1					
Kairos Thermo HF-2 200-1 TT	3022452	1		1									1		
Kairos Thermo HF-2 200-2 TR	3022453	2		1							1				
Kairos Thermo HF-2 200-2 TT	3022454	2		1										1	
Kairos Thermo HF-2 300-2 TR	3022455	2			1						1				
Kairos Thermo HF-2 300-2 TT	3022456	2			1										1
Kairos Thermo HF-2 150-1 2KW TR	3022434	1				1			1						
Kairos Thermo HF-2 150-1 2KW TT	3022433	1				1						1			
Kairos Thermo HF-2 200-1 2KW TR	3022436	1					1			1					
Kairos Thermo HF-2 200-1 2KW TT	3022435	1					1						1		
Kairos Thermo HF-2 200-2 2KW TR	3022438	2					1				1				
Kairos Thermo HF-2 200-2 2KW TT	3022437	2					1							1	
Kairos Thermo HF-2 300-2 2KW TR	3022440	2						1			1				
Kairos Thermo HF-2 300-2 2KW TT	3022439	2						1							1

Kairos Thermo HF-2 NEW

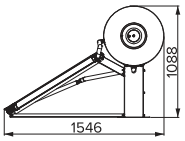
TEHCNICAL DRAWING - INCLINED (mm)

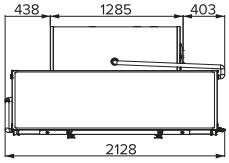
150 LITERS 1 COLLECTORS



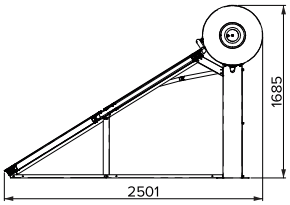


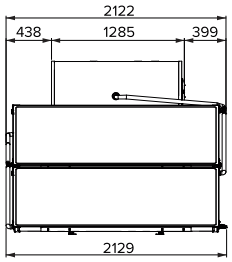
200 LITERS 1 COLLECTORS



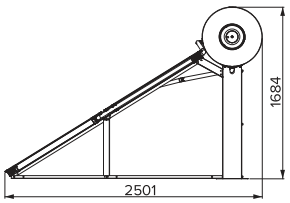


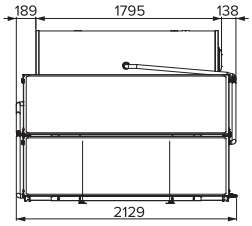
200 LITERS 2 COLLECTORS



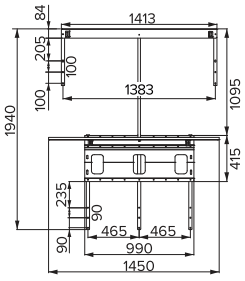


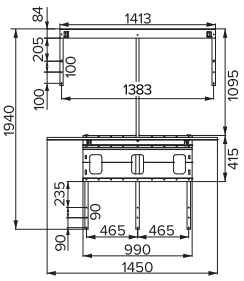
300 LITERS 2 COLLECTORS

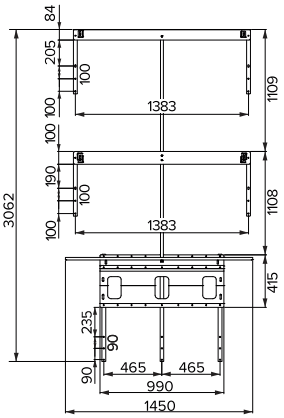


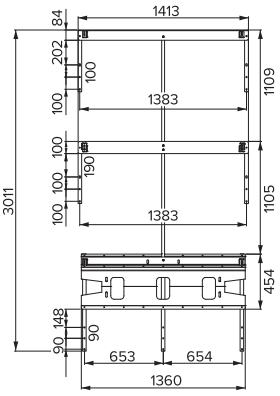


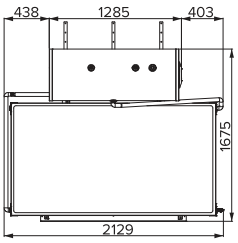
TEHCNICAL DRAWING - FLAT (mm)

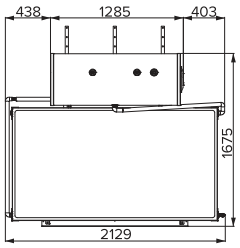


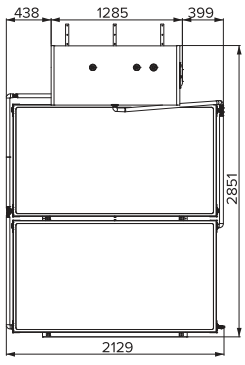


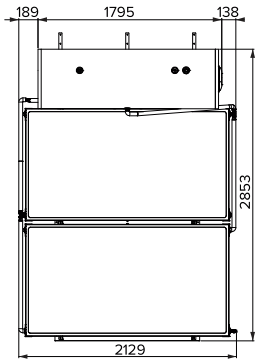






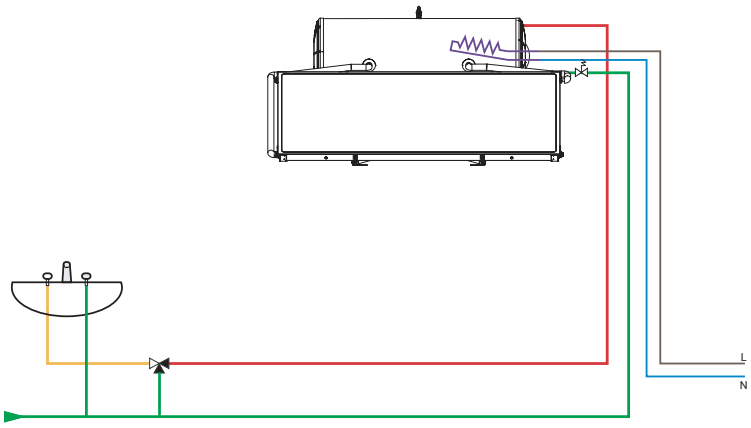




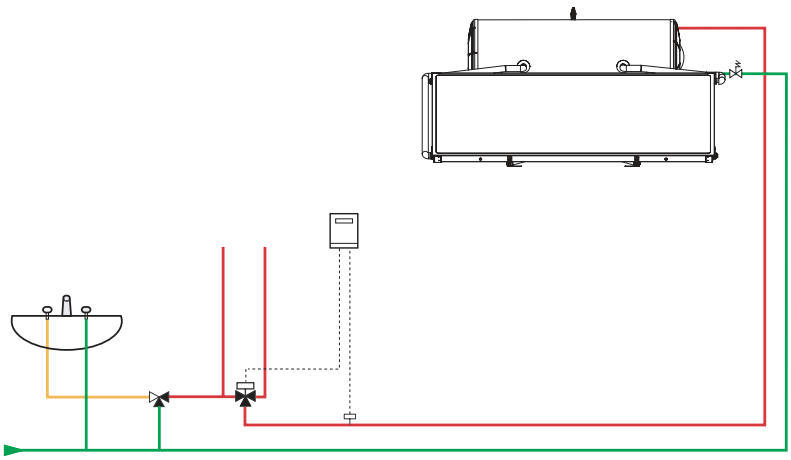


MAIN SYSTEM LAYOUTS

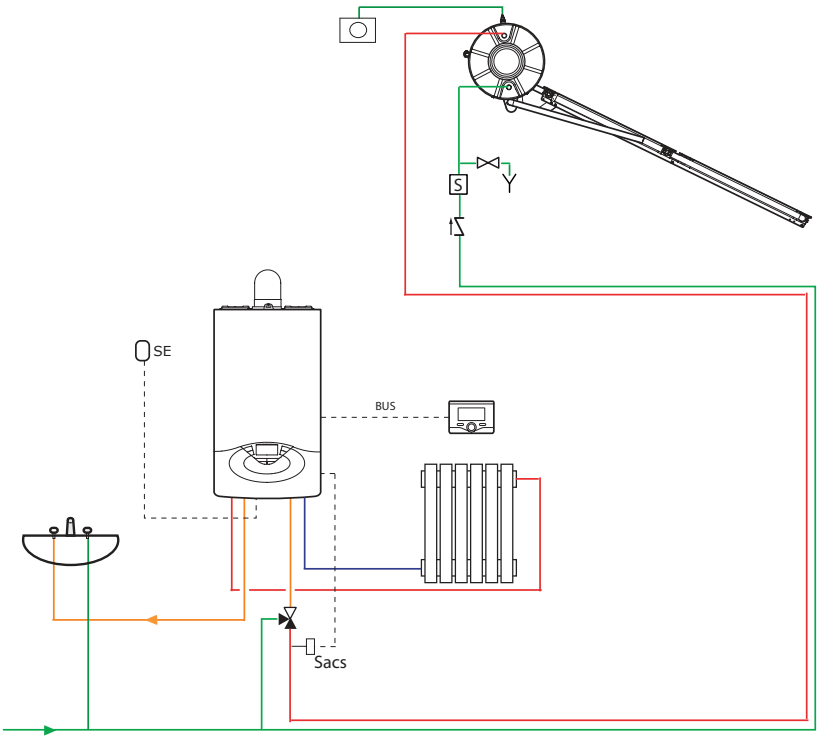
LAYOUT A



LAYOUT B



LAYOUT C



Kairos Fast

Forced circulation solar system with integrated single/double coil tank for the production of domestic hot water

PERFORMANCES

/ The selective aluminium absorber forgives very high efficiency, and reduced reflection;
/ The ultrasonic welding technology, on the collector, ensures very good performances for home applications;

DESIGN AND TECHNOLOGY

/ The Sensys, the system interface included in the product, allows an easy navigation and a full control of all the working parameters, displaying the solar fraction, the storage of how water and the energy saving;
/ The preassembled storage offers the best enjoyble design of its category, thanks to the accurate study of the lines, and of the external shape;

QUALITY

/ The collector's solar key mark certifies the compliance with the international standard;
/ The protech anode guarantees anti-corrosion protection of the internal tank;

TECHNICAL DATA		KAIROS FAST CD1 150-1	KAIROS FAST CD1 200-2	KAIROS FAST CD1 300-2	KAIROS FAST CD2 200-2	KAIROS FAST CD2 300-2
SOLAR COLLECTORS		1-KAIROS CF 2.0-1	2-KAIROS CF 2.0-1	2-KAIROS CF 2.0-1	2 - KAIROS CF 2.0 -1	2 - KAIROS CF 2.0 -1
Collectors gross surface	m^2	2,01	4,02	4,02	4.02	4.02
Collectors aperture surface	m^2	1,74	3,48	3,48	3.48	3.48
STORAGE TANK MODULE						
Dimensions (L x H x P)	mm	697 x 965 x 889	697 x 1260 x 889	697 x 1782 x 889	697 x 1260 x 889	697 x 1782 x 889
Domestic hot water storage tank capacity	l	142	198	298	192	292
Heat loss	kWh/24h	1,1	1,49	2,28	1.49	2.28
DHW circuit minimum pressure	bar	7	7	7	7	7
DHW circuit max. pressure	mca	4,5	4,5	4,5	4,5	4,5
Solar expansion vessel capacity	l	16	16	16	16	16
Solar circuit safety valve calibration	bar	6	6	6	6	6

KAIROS FAST	CD1 150-1	CD1 200-2	CD1 300-2	CD2 200-2	CD2 300-2
ErP Energy class	B	C	C	C	C
TR	3023637	3023639	3023645	3023641	3023645
TT	3023638	3023640	3023646	3023642	3023646

ACCESSORIES	CODE
SOLAR/DHW ADDITIONAL EXPANSION VESSEL (16L) FOR MACC	3024183

ENERGY EFFICIENT | MADE IN ITALY | SYSTEM MANAGEMENT | ANTI-CORROSION | PERFORMANCE PLUS | EASY INSTALLATION

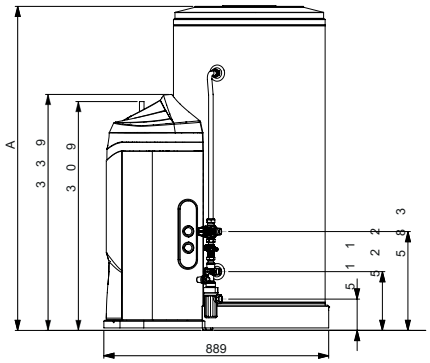
LIST OF COMPONENTS KAIROS FAST

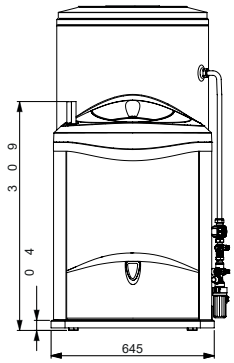
Description	KAIROS MACC CD1 150 CYLINDER Cod. 3023271	KAIROS MACC CD1 200 CYLINDER Cod. 3023272	KAIROS MACC CD1 300 CYLINDER Cod. 3023273	KAIROS MACC CD2 200 CYLINDER Cod. 3023274	KAIROS MACC CD2 300 CYLINDER Cod. 3023275	KAIROS CF 2.0-1 Cod. 3020072	HORIZONTAL BAR CF 2.0-1 Cod. 3024249	Triangle Cod. 3024103	ROOF FRAME 1 COLL. CF 2.0-1 Cod. 3024359	ROOF FRAME 2 COLL. CF 2.0-1 Cod. 3024360	HYDRAULIC CONNECTIONS FOR 1 COLLECTOR CF 2.0-1 Cod. 3024364	EXTENSION HYDRAULIC CONNECTIONS FOR 1 COLLECTOR 1 CF 2.0-1 Cod. 3024363	ANTE-FREEZE LIQUID FOR SOLAR SYSTEMS (5 LT) Cod. 800215	DOCUMENTATION MACC *
KAIROS FAST CD1 150-1 TR	1					1	1	2			1		1	1
KAIROS FAST CD1 150-1 TT	1					1			1		1		1	1
KAIROS FAST CD1 200-2 TR		1				2	2	2			1	1	1	1
KAIROS FAST CD1 200-2 TT		1				2				1	1	1	1	1
KAIROS FAST CD2 200-2 TR				1		2	2	2			1	1	1	1
KAIROS FAST CD2 200-2 TT				1		2				1	1	1	1	1
KAIROS FAST CD1 300-2 TR			1			2	2	2			1	1	1	1
KAIROS FAST CD1 300-2 TT			1			2				1	1	1	1	1
KAIROS FAST CD2 300-2 TR					1	2	2	2			1	1	1	1
KAIROS FAST CD2 300-2 TT					1	2				1	1	1	1	1

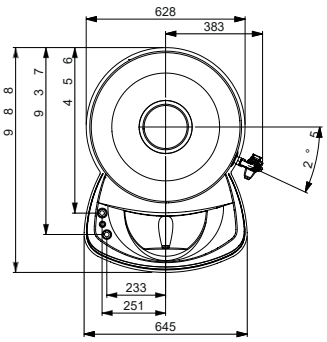
* DOCUMENTATION MACC (IT-EN) Code 3105018; DOCUMENTATION MACC (HU-PL-RO-CZ-RU-UA) Code 3105021; DOCUMENTATION MACC (TK-RU-GR-HR-SRB-UA) Code 3105022

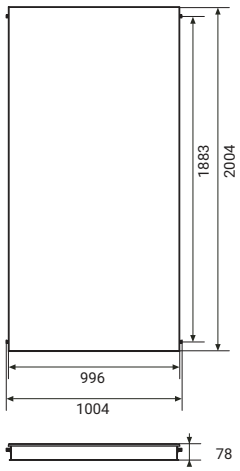
Kairos Fast

CD1



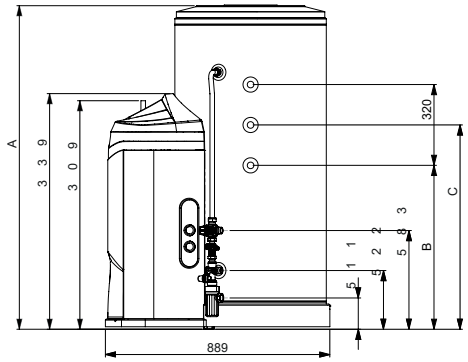


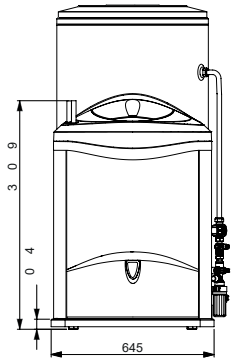


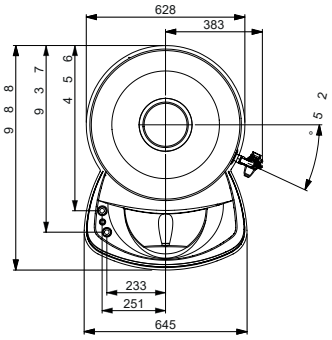


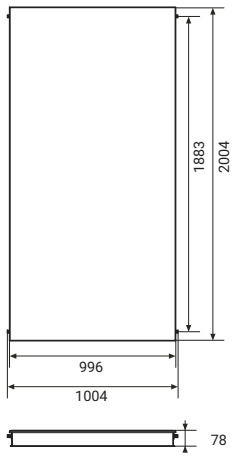
OVERALL DIMENSIONS		CD1 150-1	CD1 200-2	CD1 300-2
A	mm	965	1260	1782

CD2



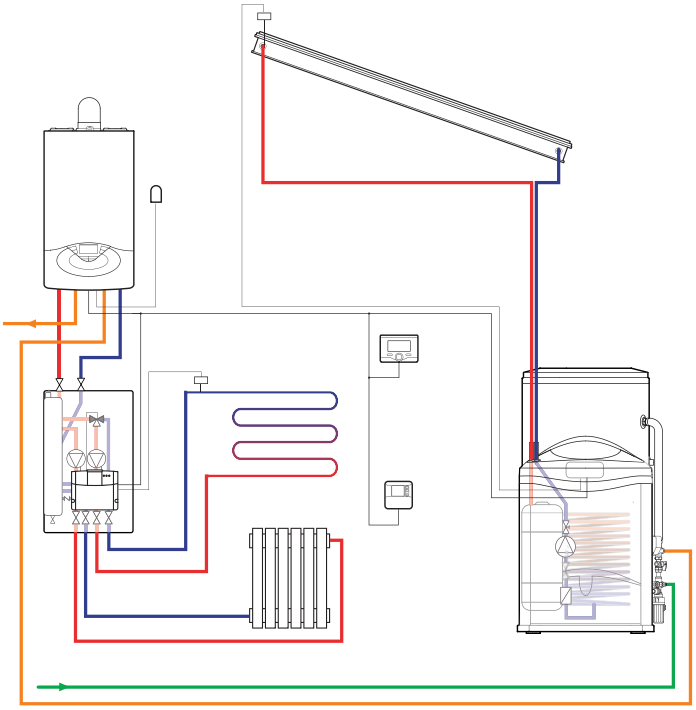


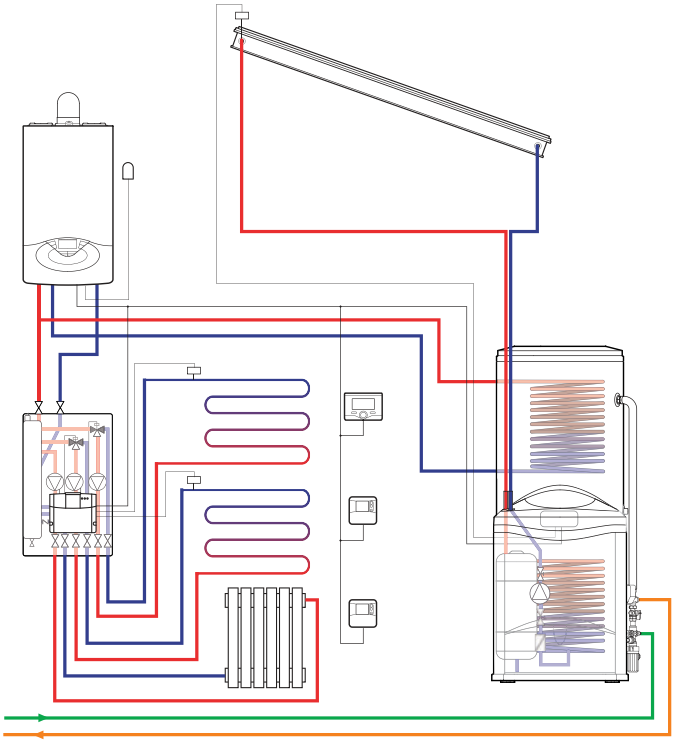


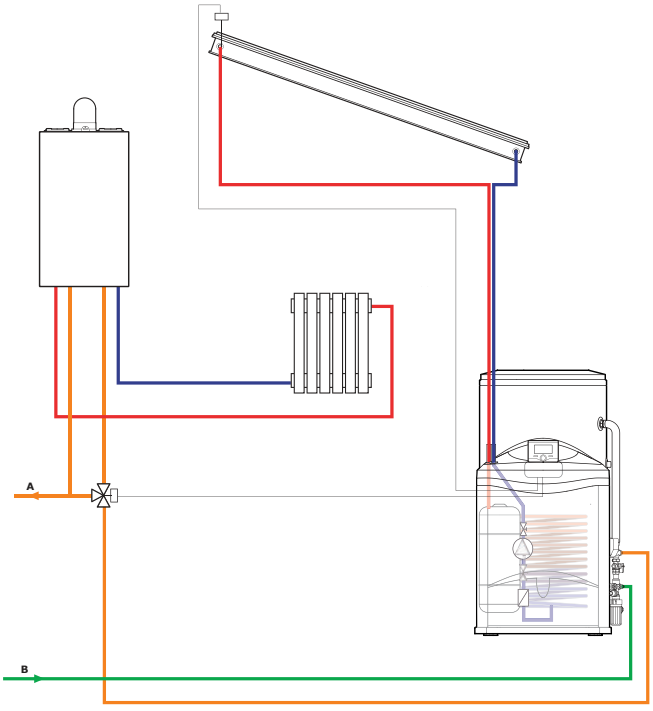


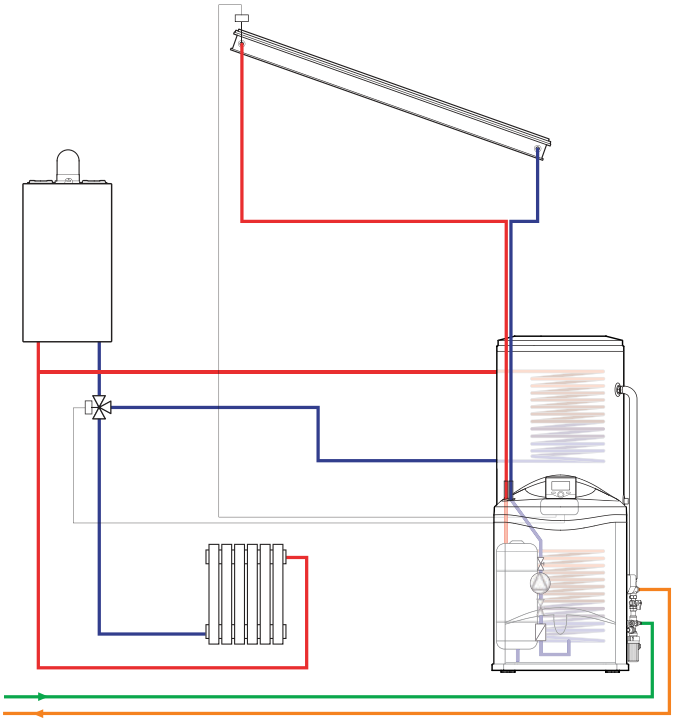
OVERALL DIMENSIONS		CD2 200-2	CD2 300-2
A	mm	1260	1782
B	mm	649	1170
C	mm	808	1330

MAIN LAYOUTS









Kairos Macc

Single/double coil pre-assembled tank module for the production of domestic hot water

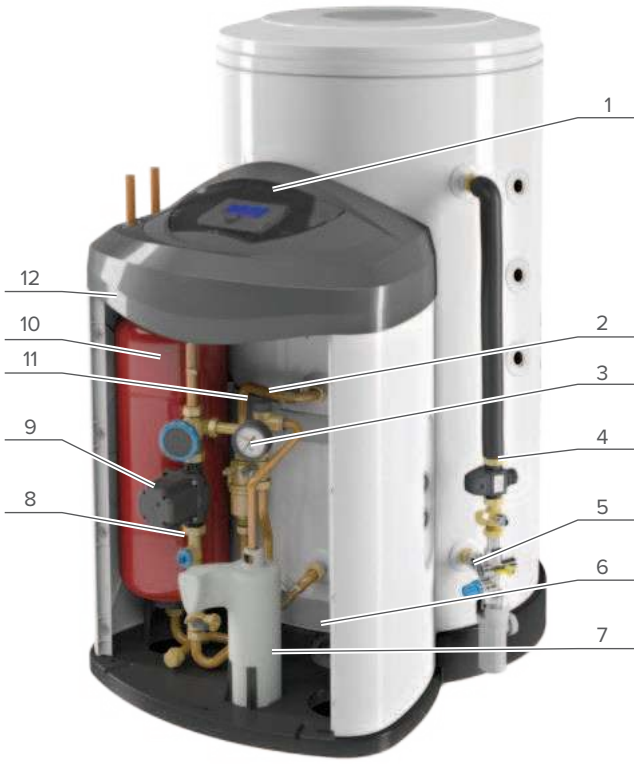
/ The storage's polyurethane insulation free of CFC & HCFC allows maximum protection against heat losses;
/ The storage can disperse up to 1,5 kWh/24 h (150 lt): one of the lowest value of its category;
/ The arrangement for an additional expansion vessel makes the product suitable for big solar systems;
/ The accurate design of the heat exchange surface can provide a big amount of hot water;
/ The motorized mixing valve gives you the possibility to set the desired temperature;
/ The preassembled storage offers the best enjoyble design of its category, thanks to the accurate study of the lines, and of the external shape;
/ The air purge valve protects from air accumulation;
/ The preassembled hydraulic safety group protects the storage from high pressure working conditions;

TECHNICAL DATA		CD1 150	CD1 200	CD1 300	CD2 200	CD2 300
Domestic hot water storage tank capacity	l	142	198	298	192	292
DHW circuit max. pressure	bar	7	7	7	7	7
Lower coil surface	m^2	0.85	0.85	0.85	0.85	0.85
Upper coil surface	m^2				0.8	0.8
Max operating temperature	°C	85	85	85	85	85
Max solar pump head	m. H_2O	4.5	4.5	4.5	4.5	4.5
Solar expansion vessel capacity	l	16	16	16	16	16
Solar circuit capacity	l	6	6	6	6	6
Upper exchanger capacity	l				4.5	4.5
Solar circuit safety valve calibration	bar	6	6	6	6	6
Tank's thermal dispersions	kWh/24h	1.1	1.49	2.28	1.49	2.28
Empty mass	kg	82	106	119	110	131

KAIROS MACC	CD1 150	CD1 200	CD1 300	CD2 200	CD2 300
ErP Energy class	B	C	C	C	C
(IT-EN)	3023271	3023272	3023273	3023274	3023275
(HU-PL-RO-CZ)	3023303	3023304	3023305	3023306	3023307
(TK-RU-GR-HR-SRB-UA)	3023308	3023309	3023310	3023311	3023312

ACCESSORIES	CODE
SOLAR/DHW ADDITIONAL EXPANSION VESSEL (16L) FOR MACC	3024183

MADE IN ITALY | SYSTEM MANAGEMENT | ANTI-CORROSION | EASY INSTALLATION



1 Sensys user interface
2 Solar safety valve
3 Pressure sensor
4 Motorised thermostat - controlled mixing valve
5 Hydraulic safety assembly with siphon
6 Connection for additional solar vessel / domestic water expansion vessel
7 Solar fluid collection tank with indicator
8 Flow meter
9 Solar pump
10 16 litre solar expansion vessel
11 Pressure gauge
12 Deareator

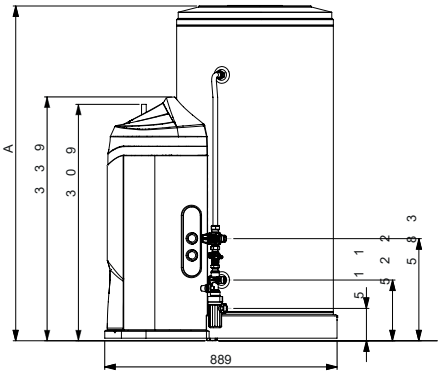
LIST OF COMPONENTS KAIROS MACC

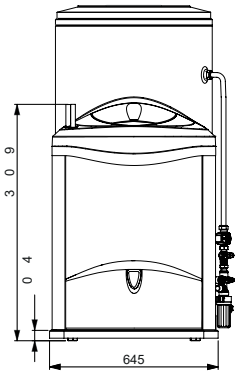
Description	Code	KAIROS MACC CD1 150 CYLINDER Cod. 3100665	KAIROS MACC CD1 200 CYLINDER Cod. 3100666	KAIROS MACC CD1 300 CYLINDER Cod. 3100667	KAIROS MACC CD2 200 CYLINDER Cod. 3100668	KAIROS MACC CD2 300 CYLINDER Cod. 3100669	DOCUMENT. MACC *
KAIROS MACC CD1 150 (IT-EN)	3023271	1					1
KAIROS MACC CD1 150 (PL-CZ-HU-RO)	3023303	1					1
KAIROS MACC CD1 150 (TK-HR-SRB-GR-RU-UA)	3023308	1					1
KAIROS MACC CD1 200 (IT-EN)	3023272		1				1
KAIROS MACC CD1 200 (PL-CZ-HU-RO)	3023304		1				1
KAIROS MACC CD1 200 (TK-HR-SRB-GR-RU-UA)	3023309		1				1
KAIROS MACC CD1 300 (IT-EN)	3023273			1			1
KAIROS MACC CD1 300 (PL-CZ-HU-RO)	3023305			1			1
KAIROS MACC CD1 300 (TK-HR-SRB-GR-RU-UA)	3023310			1			1
KAIROS MACC CD2 200 (IT-EN)	3023274				1		1
KAIROS MACC CD2 200 (PL-CZ-HU-RO)	3023306				1		1
KAIROS MACC CD2 200 (TK-HR-SRB-GR-RU-UA)	3023311				1		1
KAIROS MACC CD2 300 (IT-EN)	3023275					1	1
KAIROS MACC CD2 300 (PL-CZ-HU-RO)	3023307					1	1
KAIROS MACC CD2 300 (TK-HR-SRB-GR-RU-UA)	3023312					1	1

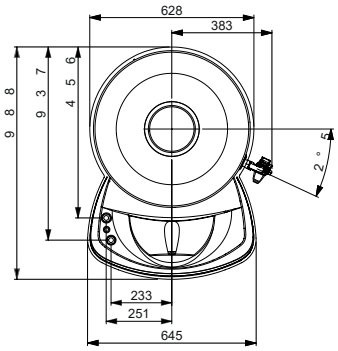
* MACC Documentation (IT-EN) Code 3105018; MACC Documentation (HU-PL-RO-CZ-RU-UA) Code 3105021; MACC Documentation (TK-RU-GR-HR-SRB-UA) Code 3105022;

Kairos Macc

CD1

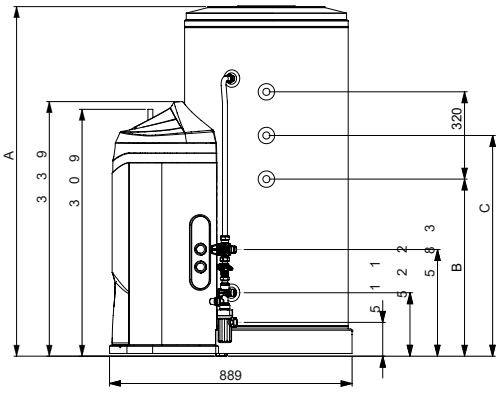


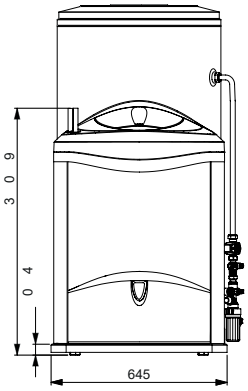


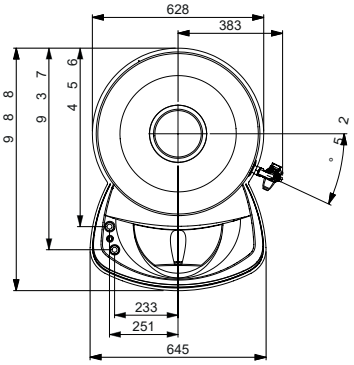


OVERALL DIMENSIONS		CD1 150	CD1 200	CD1 300
A	mm	965	1260	1782

CD2

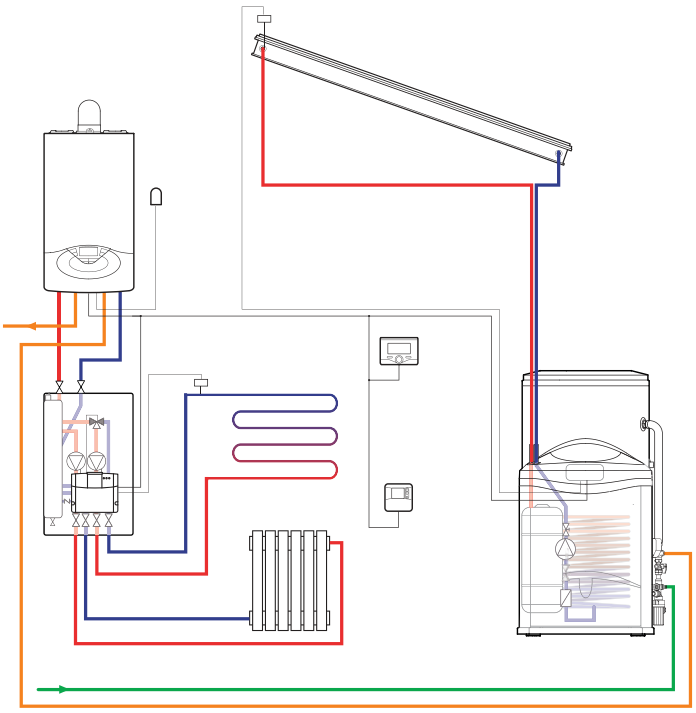


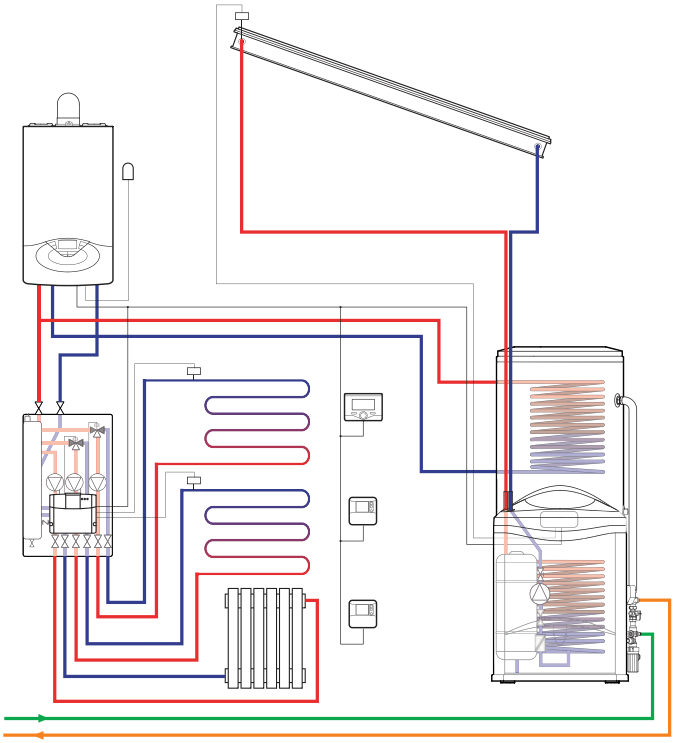


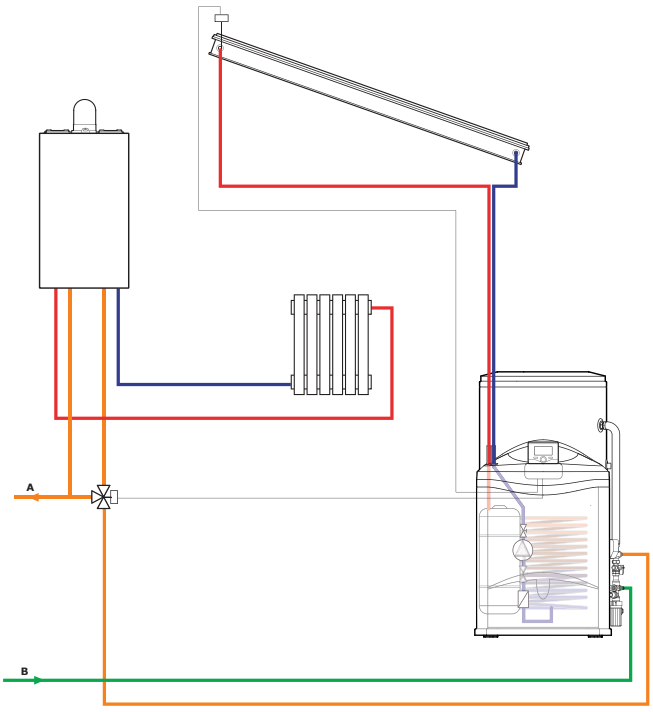


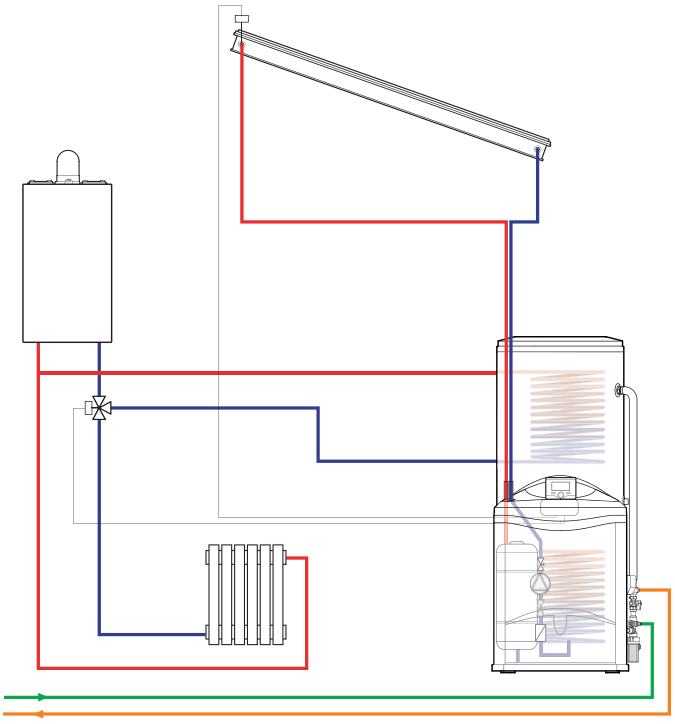
OVERALL DIMENSIONS		CD2 200	CD2 300
A	mm	1260	1782
B	mm	649	1170
C	mm	808	1330

MAIN LAYOUTS









Kairos Combi

Integrated tank for the solar heating integration and for the production of domestic hot water

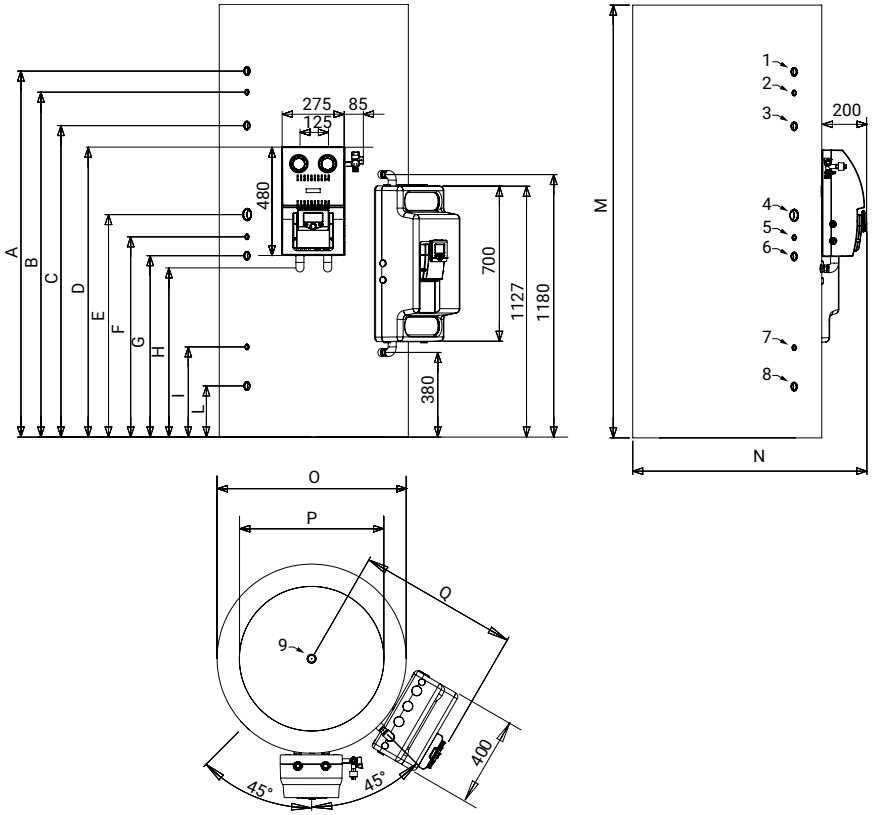
- The soft 100 mm insualation allows maximum protection against heat losses;
- The high residual head (6,5 m) of the pump gruop assures the proper working of big systems;
- Kairos Combi includes all the accessories needed for a complete installation: the digit pump group, the digital manometer, the digital flow meter...
- The Sensys, the system interface included in the product, allows an easy navigation and a full control of all the working parameters, displaying the solar fraction, the storage of how water and the energy saving;
- The air purge valve protects from air accumulation inside the system;
- The preassembled hydraulic safety group protects the storage from high pressure working conditions;

TECHNICAL DATA		CK1 400	CK1 600	CK1 800	CK1 1000
Domestc hot water storage tank capacity	l	400	600	800	1000
Coil surface	m^2	1.5	2.1	2.8	3.4
Solar coil capacity	l	9.3	13	17.5	21
Max operating tank pressure	bar	3	3	3	3
Max operating temperature	°C	95	95	95	95
Empty mass	kg	92	113	155	176
FRESH WATER STATION					**DHW PRODUCTION MODULE (WITH DHW RECIRCULATION ACCESSORY)**
Temperature range	°C				36 ÷ 65
Minimum flow rate	l/min				2.5
Sanitary flow rate measurer	l/min				2.5 ÷ 32
Max primary circuit pressure	bar				3
Max DHW circuit pressure	bar				6
Max DHW/primary circuit temperature	°C				85
Electrical supply/Frequency	V/Hz				230 / 50
Power consumption	W				40 (100)
Hydraulic DHW/primary circuit connections	"				¾" M
Dimensions (H x L x P)	mm				700 x 400 x 295
Mass	Kg				16 (18)
Max DHW flow rate (70°C , ΔT=30°)	l/min				32
PUMP GROUP					**DIGIT SOLAR PUMP GROUP**
Solar circuit flow rate range	l/min				1 ÷ 16
Max solar circuit pressure	bar				6
Max heat transfer fluid temperature	°C				130
Electrical supply/Frequency	V/Hz				230 / 50
Power consumption	W				97
Flow and return temperature sensor					NTC (10kΩ β=3977)
Hydraulic conections					¾" M or smooth tube ø 18 mm
Weight	kg				6.5
Dimensions (LxHxP)	mm				275 x 480 x 200

KAIROS COMBI	CK1 400	CK1 600	CK1 800	CK1 1000
ErP Energy class	B	C	C	C
CODE	3023285	3023286	3023287	3023288

ACCESSORIES	CODE
DHW module recirculation kit	3024161
Electrical kit 1.5 kW 230 V 1", 1/2	935393
Electrical kit 2.5 kW 230-400 V 1", 1/2	935394
Electrical kit 6 kW 400 V 1", 1/2	3078066
Safety group	12053830

MADE IN ITALY | SYSTEM MANAGEMENT | EASY INSTALLATION



*	400	600	800	1000
A	1240	1645	1495	1730
B	1150	1550	1405	1640
C	1060	1400	1315	1550
D	1164	1294	1309	1434
E	880	1000	1060	1185
F	785	900	950	1075
G	700	815	855	980
H	630	760	775	900
I	415	405	500	500
L	235	230	260	260
M	1630	1945	1805	2055
N	1000	1050	1190	1190
O	800	850	990	990
P	600	650	790	790
Q	695	720	690	690
1	1" F	1" F	1" F	1" F
2	½" F	½" F	½" F	½" F
3	1" F	1" F	1" F	1" F
4	1" ½ F	1" ½ F	1" ½ F	1" ½ F
5	½" F	½" F	½" F	½" F
6	1" F	1" F	1" F	1" F
7	½" F	½" F	½" F	½" F
8	1" F	1" F	1" F	1" F
9	1" F	1" F	1" F	1" F

*dimenson in mm

LIST OF COMPONENTS KAIROS COMBI

Description	SAFETY GROUP R1/2Z Cod. 12053830	DIGIT SOLAR PUMP GROUP (AR) Cod. 3318905	FRESH WATER STATION Cod. 3024152	HYDRAULIC KIT COMBI Cod. 3024174	HEATING RETURN PROBE -S4 Cod. 3024175	DOCUMENT. COMBI IT-ES-PT-FR-EN Cod. 3024189	MAXIS CK1 400 Cod. 3060460	MAXIS CK1 600 Cod. 3060461	MAXIS CK1 800 Cod. 3060462	MAXIS CK1 1000 Cod. 3060463	SENSYS **
KAIROS COMBI CK1 400	1	1	1	1	1	1	1				1
KAIROS COMBI CK1 600	1	1	1	1	1	1		1			1
KAIROS COMBI CK1 800	1	1	1	1	1	1			1		1
KAIROS COMBI CK1 1000	1	1	1	1	1	1				1	1

** Sensys (IT-EN-FR-ES-PT) Code 3318585; Sensys (PL-CZ-HU-RO) Code 3318615; Sensys (TK-RU-GR-HR-SRB) Code 3318613.

Grafico portate acqua sanitaria disponibili (temperatura di rete 10 °C)

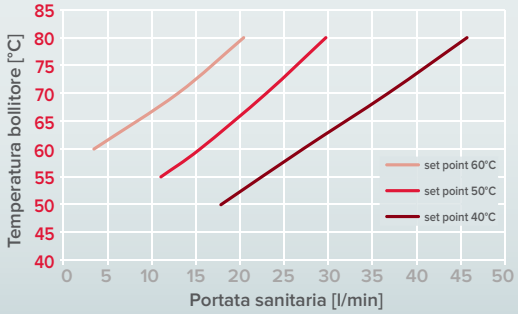
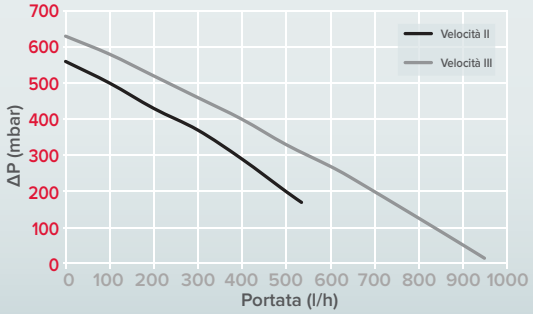
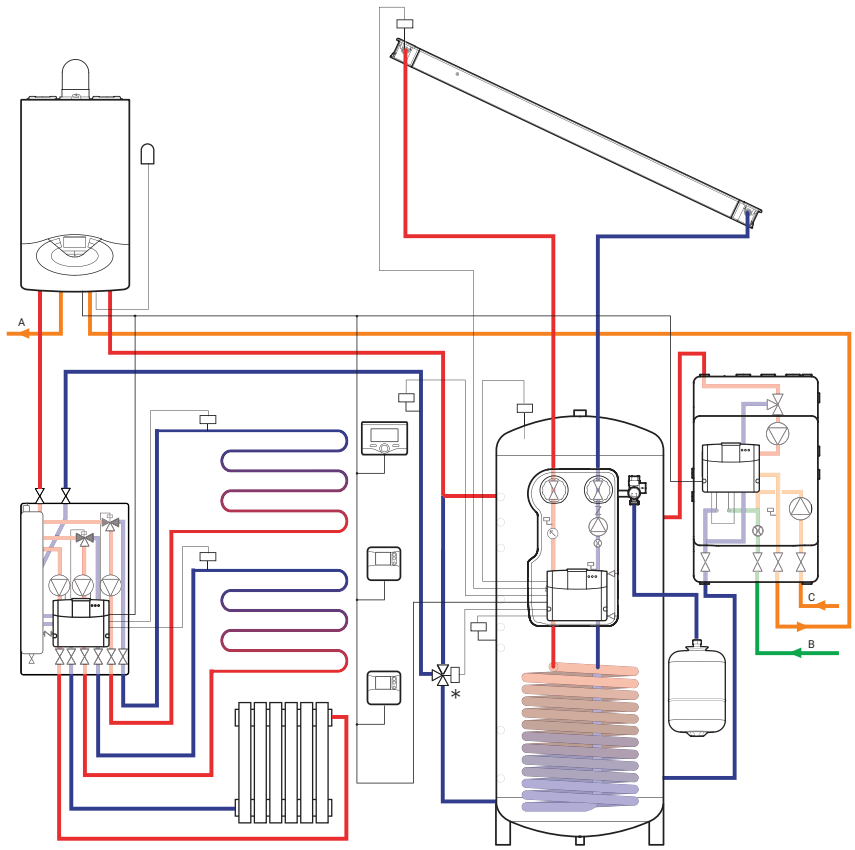


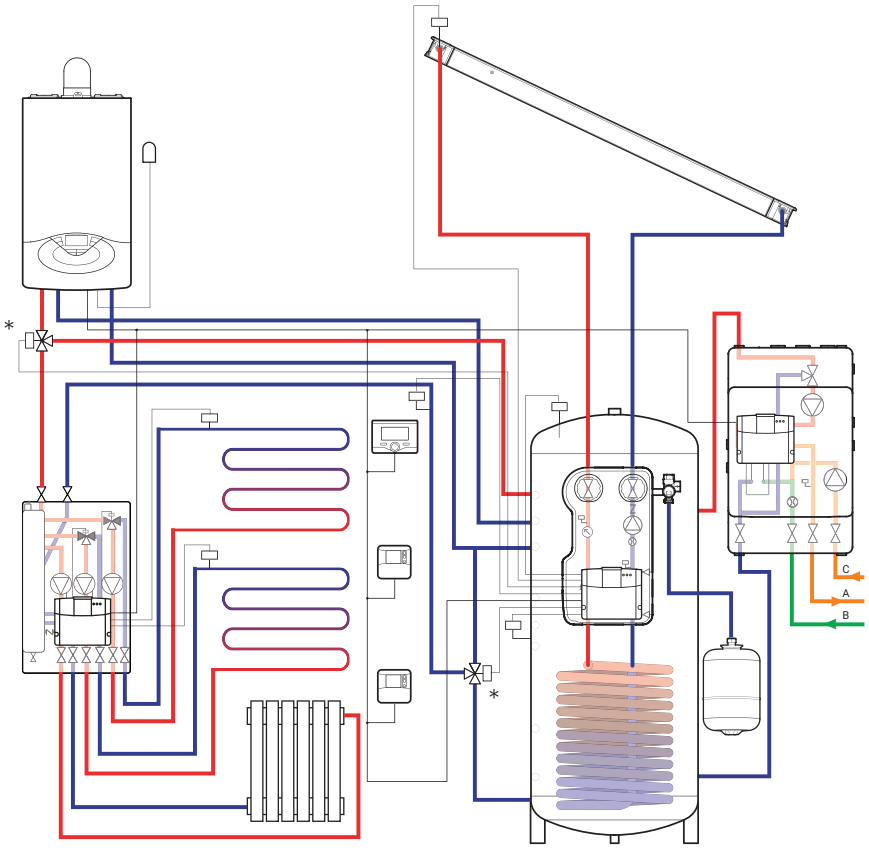
Grafico portata Gruppo pompa digitale (temperatura di rete 10 °C)



Kairos Combi

MAIN LAYOUTS





*diverter valve to be ordered separately cod. 3024177

COLLECTORS FOR FORCED CIRCULATION

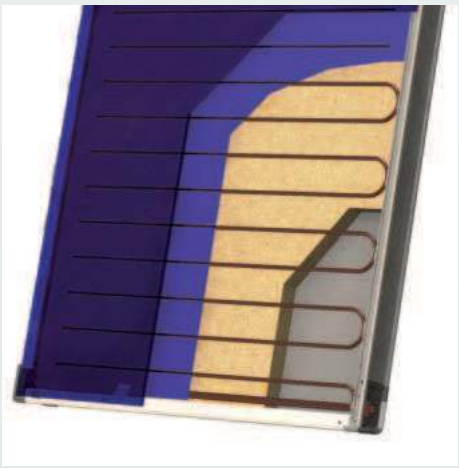



	KAIROS XP 2.5-1V	KAIROS XP 2.5-1H	KAIROS THERMO GR2	KAIROS CF2.0-1
	2,53	2,53	2,02	2,01
GROSS AREA (m^2)	2,53	2,53	2,04	2,01
APERTURE AREA (m^2)	2,26	2,26	1,94	1,83
ABSORBER AREA (m^2)	2,24	2,24	2,01	1,74
EMPTY WEIGHT (kg)	46	46	29	30
STAGNATION TEMPERATURE (°C)	198	193	179	190
HEIGHT (mm)	61	61	80	78
LENGTH (mm)	2241	1128	1960	2004
WIDTH (mm)	1128	2241	1040	1004
INCLINED ROOF INSTALLATION	Yes	Yes	Yes	Yes
GROUND/FLAT ROOF INSTALLATION	Yes	Yes	Yes	Yes
BUILT-IN INSTALLATION	Yes	Yes	Yes	Yes
MAX NUMBER OF COLLECTORS	10	10	10	6
SOLAR KEYMARK	Yes	Yes	Yes	Yes
PAGE	38	40	42	44

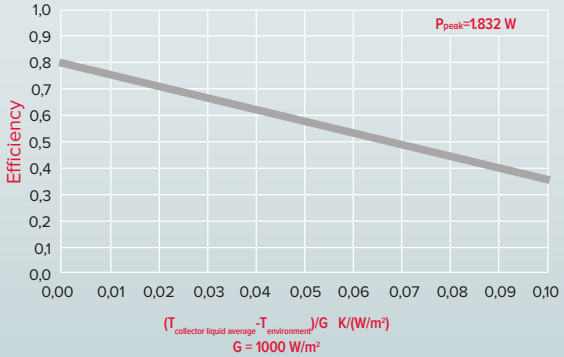
Kairos XP 2.5-1V

Solar collector for forced circulation

- Kairos XP 2.5-1 has a serpentine absorber that makes it suitable for big systems;
- The blue selective surface treatment provides very high performances with the 95% absorbtion and only 5% reflection;
- Kairos XP 2.5-1 offers a very enjoyble design in its category, thanks to the accurate study of the lines, and of the external shape;
- The new o-ring connection allows a very quick installation, even eliminating the risk to damage the hydraulic connection kit;
- The special tempered glass with low content iron assures very high protection against the hail, and against the collector's loading;
- The technopolymer angle, that integrates the condensate exhaust and the flanged manifold outlet, ensures a more precise production process;



Solar collector efficiency curve

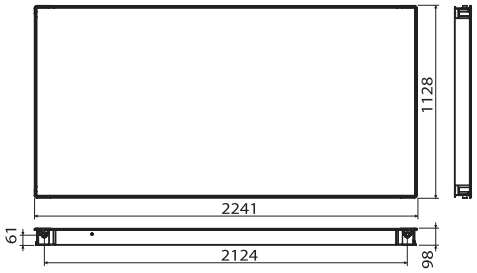


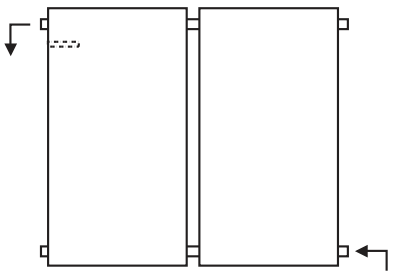
TECHNICAL DATA		KAIROS XP 2.5-1V
Empty mass	Kg	46
Working pressure	bar	6
Collector pipe diameter	mm	18
Gross surface	m^2	2.51
Amount of collector liquid	l	2.1
Absorption	%	95
Emission	%	5
Aperture surface	m^2	2.26
Absorbent surface	m^2	2.24
Specific thermic capacity	kJ/K	15.32
η_0		0.81*
k_1	W/m^2K	3.13*
k_2	W/m^2K^2	0.016*
T stagnation	°C	198

* data refers to the aperture area

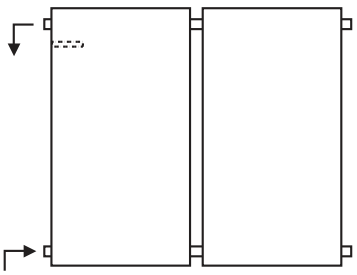
KAIROS XP	2.5-1V
CODE	3020058

ENERGY EFFICIENT | MADE IN ITALY | PERFORMANCE PLUS | HAIL PROOF





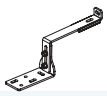
Up to 10 collectors



Up to 5 collectors

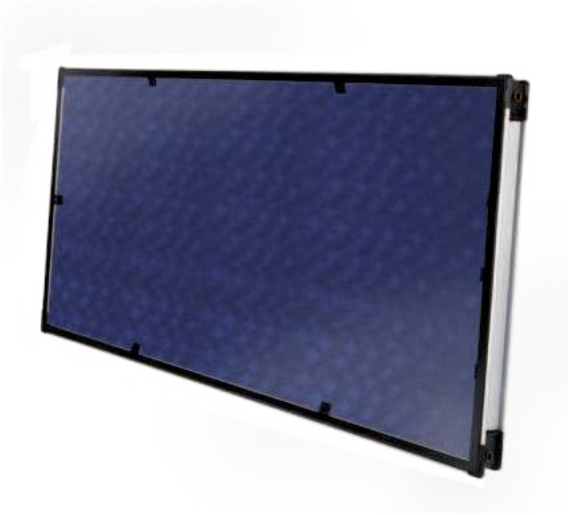
KAIROS XP 2.5-1V		1			2				3				4				5				6				7				8				9				10			
Description	Code	TT	TR	IN	TT	TR	IN	IN²	TT	TR	IN	IN²	TT	TR	IN	IN²	TT	TR	IN	IN²	TT	TR	IN	IN²	TT	TR	IN	IN²	TT	TR	IN	IN²	TT	TR	IN	IN²	TT	TR	IN	IN²
KAIROS XP 2.5-1 V	3020058	1	1	1	2	2	2	4	3	3	3	6	4	4	4	8	5	5	5	10	6	6	6	12	7	7	7	14	8	8	8	16	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
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

special fixing frame for sloped roof for xp collector

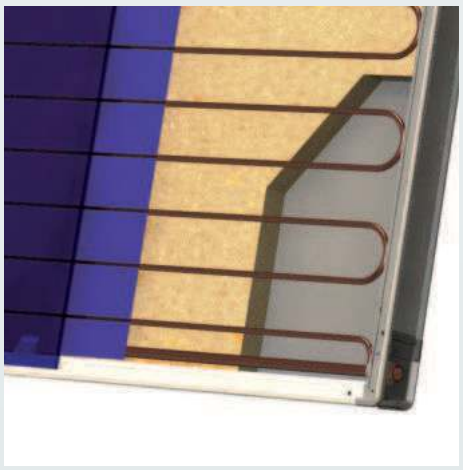
Description		Codice	Disegno
Bent tile fixing brackets (pair)		3024113	
Flat tile fixing brackets (pair)		3024114	
Slate tile fixing brackets (pair)		3024083	
Undulating roof fixing screws (pair)		3024115	
Wooden roof fixing screws (pair)		3024116	

Kairos XP 2.5-1H

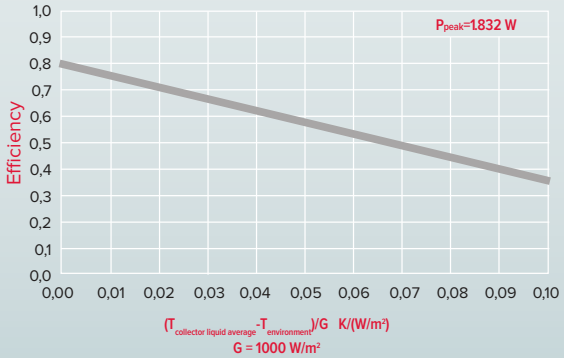
Solar collector for forced circulation



- / Kairos XP 2.5-1 has a serpentine absorber that makes it suitable for big systems;
- / The blue selective surface treatment provides very high performances with the 95% absorbtion and only 5% reflection;
- / Kairos XP 2.5-1 offers a very enjoyble design in its category, thanks to the accurate study of the lines, and of the external shape;
- / The new o-ring connection allows a very quick installation, even eliminating the risk to damage the hydraulic connection kit;
- / The special tempered glass with low content iron assures very high protection against the hail, and against the collector's loading;
- / The technopolymer angle, that integrates the condensate exhaust and the flanged manifold outlet, ensures a more precise production process;



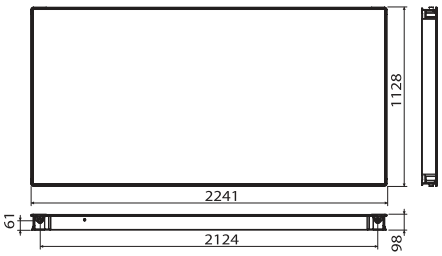
Solar collector efficiency curve

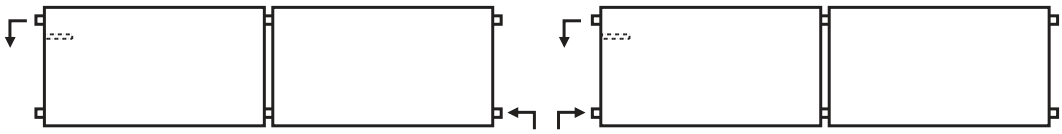


TECHNICAL DATA		KAIROS XP 2.5-1H
Empty mass	Kg	46
Working pressure	bar	6
Collector pipe diameter	mm	18
Gross surface	m^2	2.51
Amount of collector liquid	l	2.5
Absorption	%	95
Emission	%	5
Aperture surface	m^2	2.26
Absorbent surface	m^2	2.23
Specific thermic capacity	kJ/K	17.98
η_0		0.81*
k_1	W/m^2K	3.02*
k_2	W/m^2K^2	0.017*
T stagnation	°C	193

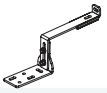
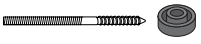
* data refers to the aperture area

KAIROS XP	2.5-1H
CODE	3020057





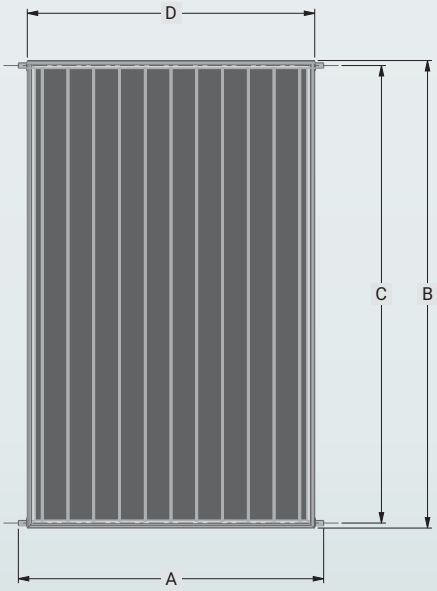
KAIROS XP 2.5-1H		1		2		3		4		5		6		7		8		9		10	
Description	Code	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR
KAIROS XP 2.5-1 H	3020057	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
Connection set 1 coll	3024093	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Connect set 1 additional coll XP	3024094			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		Codice	Disegno
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 THERMO GR2

Solar collector for forced circulation

- Clear tempered solar glass 3,2mm
- Transparent glass
- Transmittance 0,90
- ‘Full face’ anodized aluminum absorber 0,4 mm, with blue selective coating
- Laser welded
- Copper harp: 2 headers X Ø22x0,7 ;10 risers X Ø8x0,40
- Solar absorption: 95%
- Thermal emissivity: 5%
- Mineral Wool/30mm (back), 15mm (lateral)
- Density 24kg/m3
- Aluminum 0,6mm



KAIROS ENERGY EVO	
A	1110 mm
B	1960 mm
C	1910 mm
D	1040 mm

TECHNICAL DATA		THERMO GR2
Extrenal dimensions (height × width × thickness)	mm	1960 ×1040×80
Gross area	m^2	2,04
Aperture area	m^2	1,94
Absorber area	m^2	2,01
Absorber capacity	L	1,71
Frame / thickness	mm	Anodized Aluminum frame with a back plate of Aluminum / 0,4
Glass		Clear tempered glass 3,2mm; (transmittance 0,90)
Insulation		Mineral Woo; 30mm back, 15mm Lateral
Absorber		Aluminum
Absorbtion	%	95
Emission	%	5
Conversion factor	η0	0,72
Header copper tube Ø / thickness	mm	Ø 22 / 0,70
Riserer copper tube Ø / thickness	mm	Ø 8 / 0,40
Number of vertical risers	No.	8
Maximum operating pressure	Bar	10
Installation		Vertical
Weight (empty & packed)	Kg	29
Stagnation temperature	°C	179°C

KAIROS ENERGY EVO	
CODE	3020077

HYDRAULIC CONNECTIONS

A: Connecting collectors in parallel with diagonal hydraulic connections

The collectors can be connected in parallel using the joint kit.
A maximum of 6 collectors can be connected in parallel per row.
The inlet and outlet connections of the collector array must be arranged in such a way as to form a diagonal connection (with the inlet at the bottom of one side of the array and the outlet at the top of the other side).

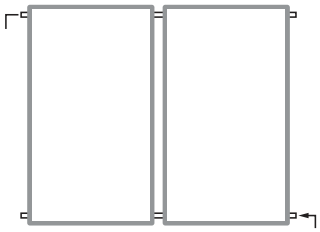
B: Connecting collectors in series

A single collector array may be connected in series to another array.
It is important that the number of collectors is the same in each row in order to avoid differences in fl ow rate within the arrays.

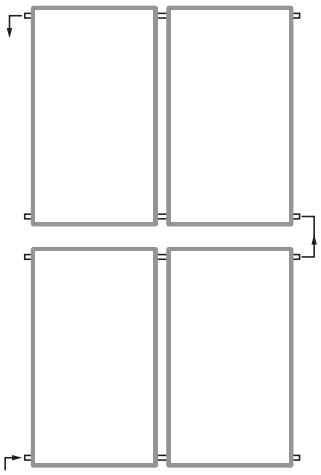
C: Connecting collector arrays in parallel

A single collector array may be connected in parallel to another array.
It is important that the number of collectors is the same in each row in order to avoid differences in flow rate within the arrays. Hydraulic connection should be carried out according to the principle of reverse return.

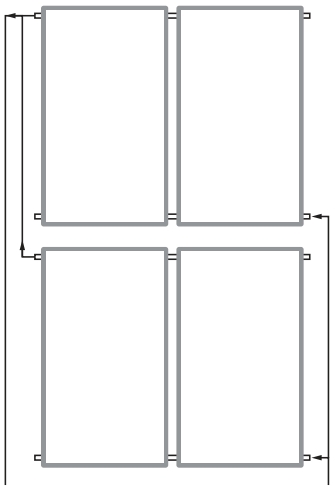
1



2



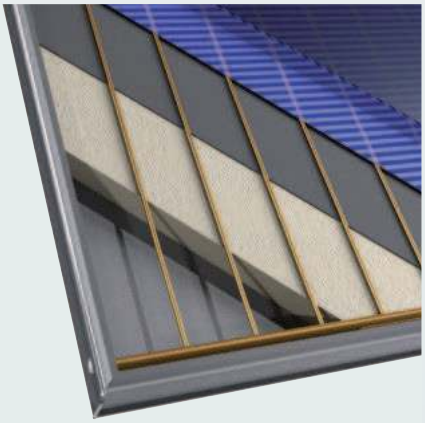
3



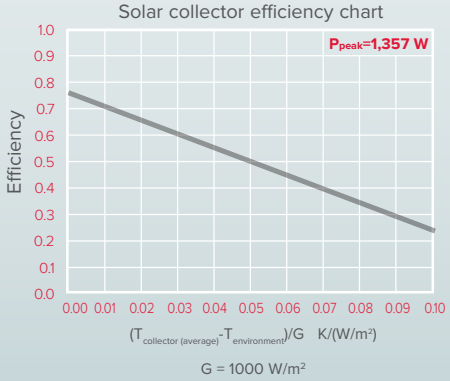
Kairos CF 2.0-1

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



Solar collector efficiency chart



G = 1000 W/m²

TECHNICAL DATA		KAIROS CF 2.0-1
Empty weight	kg	30
Working pressure	bar	6
Collector pipe diameter	mm	18
Amount of collector liquid	l	1.0
Absorption	%	95
Emission	%	5
Aperture surface	m^2	1.83
Absorbent surface	m^2	1.74
Specific heat capacity	kJ/K	13
η0		0.74*
k1	W/m^2K	3.82*
k2	W/m^2K^2	0.013*
stagnation T	°C	190

* data referring to the aperture area

KAIROS CF 2.0-1	2.0-1
CODE	3020072

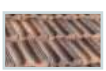
ENERGY EFFICIENT | MADE IN ITALY | SOLAR KEYMARK | PERFORMANCE PLUS | HAIL PROOF

FLAT ROOF AND GROUND INSTALLATION

		1		2		3		4		5		6	
		TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR
Description	Codice												
Collector KAIROS CF 2.0-1	3020072	1	1	2	2	3	3	4	4	5	5	6	6
Kit hydraulic connections 1 collector CF 2.0-1	3024364	1	1	1	1	1	1	1	1	1	1	1	1
Kit hydraulic connections 1 additional collector CF 2.0-1	3024363			1	1	2	2	3	3	4	4	5	5
Roof frame kit 1 coll CF 2.0-1	3024359	1				1				1			
Roof frame 2 coll CF 2.0-1	3024360			1		1		2		2		3	
Roof frame 1 extension CF 2.0-1	3024361					1		1		2		2	
Horizontal bars CF 2.0/2.0-1	3024249		1		2		3		4		5		6
Triangle XP 2.5V - CF 2.0/2.0-1	3024103		2		2		3		4		5		6

IN-ROOF INSTALLATION

		1			2			3			N		
		A	T	C	A	T	C	A	T	C	A	T	C
Description	Codice												
Collettore KAIROS CF 2.0-1	3020072	1	1	1	2	2	2	3	3		N	N	
Kit raccordi idraulici 1 coll circ. forzata CF 2.0-1	3024364	1	1	1	1	1	1	1	1		1	1	
Kit raccordi idraulici 1 coll aggiuntivo CF 2.0-1 IR	3024353				1	1	1	2	2		N-1	N-1	
Kit in-roof slate 1 coll CF 2.0-1	3024344	1											
Kit in-roof slate 2 coll CF 2.0-1	3024345				1			1			1		
Kit in-roof slate 1 additional colector CF 2.0-1	3024346							1			N-2		
Kit in-roof flat tile 1 coll CF 2.0-1	3024347		1										
Kit in-roof flat tile 2 coll CF 2.0-1	3024348					1			1			1	
Kit in-roof flat tile 1 additional collector CF 2.0-1	3024349								1			N-2	
Kit in-roof curved tile 1 coll CF 2.0-1	3024350			1									
Kit in-roof curved tile 2 coll CF 2.0-1	3024351						1						

A - slate  **T** - flat tile  **C** - curved tile  **N** - 4-5-6

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 choosen 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 2.5-1V)

TABLE SHOWING COMPOSITION OF ROWS FOR ON-ROOF AND GROUND INSTALLATION

		1		2		3		4		5		6	
Description	Code	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR	TT	TR
Collector KAIROS CF 2.0-1	3020072	1	1	2	2	3	3	4	4	5	5	6	6
Hydraulic connection kit 1 forced circ. coll. CF 2.0-1	3024364	1	1	1	1	1	1	1	1	1	1	1	1
Hydraulic connection kit for additional collector SYS 2.0-1	3024363			1	1	2	2	3	3	4	4	5	5
Rooftop frame kit - 1 collector CF 2.0-1	3024359	1				1				1			
Rooftop frame 2 collectors CF 2.0-1	3024360			1		1		2		2		3	
Rooftop frame 1 extension for CF 2.0-1	3024361					1		1		2		2	
Horizontal bars CF 2.0/2.0-1	3024249		1		2		3		4		5		6
Triangle XP 2.5V - CF 2.0/2.0-1	3024103		2		2		3		4		5		6
Row code		CF1TT	CF1TR	CF2TT	CF2TR	CF3TT	CF3TR	CF4TT	CF4TR	CF5TT	CF5TR	CF6TT	CF6TR

TABLE SHOWING COMPOSITION OF ROWS FOR RECESSED INSTALLATION (IN-ROOF)

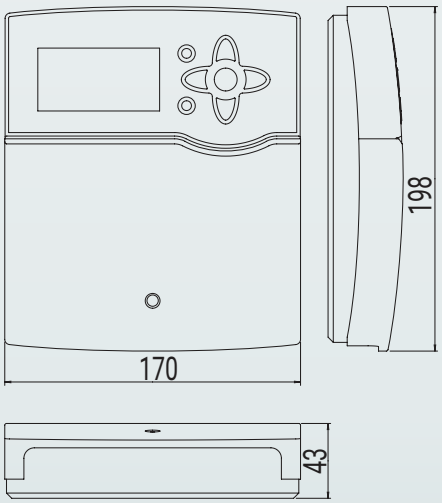
		1			2			3			N		
Description	Code	A	T	C	A	T	C	A	T	C	A	T	C
Collector KAIROS CF 2.0-1	3020072	1	1	1	2	2	2	3	3		N	N	
Hydraulic connection kit 1 forced circ. coll. CF 2.0-1	3024364	1	1	1	1	1	1	1	1		1	1	
Hydraulic connection kit 1 additional collector CF 2.0-1 IR	3024353				1	1	1	2	2		N-1	N-1	
Slate in-roof kit - 1 collector CF 2.0-1	3024344	1											
Slate in-roof kit - 2 collectors CF 2.0-1	3024345				1			1			1		
Slate in-roof kit - 1 additional collector CF 2.0-1	3024346							1			N-2		
Marseilles tile in-roof kit - 1 collector CF 2.0-1	3024347		1										
Marseilles tile in-roof kit - 2 collectors CF 2.0-1	3024348					1			1			1	
Marseilles tile in-roof kit - 1 additional collector CF 2.0-1	3024349								1			N-2	
Curved tile in-roof kit - 1 collector CF 2.0-1	3024350			1									
Curved tile in-roof kit - 2 collectors CF 2.0-1	3024351						1						
Row code		CF1AIR	CF1TIR	CF1CIR	CF2AIR	CF2TIR	CF2CIR	CF3AIR	CF3TIR	-	-	-	-

MINIMUM EXTERNAL TEMPERATURE / PERCENTAGE

		-3°/10%		-7°/20%		-14°/30%		-23°/40%		-32°/50%		
		water	glycol	water	glycol	water	glycol	water	glycol	water	glycol	MIXTURE CONTENT
Natural Circulation kit	I 150/1	18	2	15	5	15	5	-	-	-	-	20
	I 200/1	22.5	2.5	20	5	17.5	7.5	-	-	-	-	25
	I 200/2	22.5	2.5	20	5	17.5	7.5	-	-	-	-	25
	I 300/2	22.5	2.5	20	5	17.5	7.5	-	-	-	-	25
Forced Circulation kit	I 200/2 CF1	12	1	10.5	2.5	9	4	8	5	6.5	6.5	13
	I 200/2 CF2	8	1	7	2	6.5	2.5	5.5	3.5	4.5	4.5	9
	I 300/2 CF1	16	2	14.5	3.5	12.5	5.5	11	7	9	9	18
	I 300/2 CF2	16	2	14.5	3.5	12.5	5.5	11	7	9	9	18
	I 400/3 CF2	20.5	2.5	18.5	4.5	16	7	14	9	11.5	11.5	23
	I 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

Solar Manager Pro

- / Menu simplified and quick to set-up
- / 7 main schemes and + 20 variants
- / 8 sensor inputs and 5 relay outputs
- / 2 PWM or 0/10V signal to drive up to 2 modulating pumps
- / Up to 2 extension modules via VBus® connectable (21 sensors and 15 relays in total)
- / Irradiation based function to exploit solar energy
- / Possibility to set up by remote or by SD card
- / Measure and report of solar energy expoitation
- / Compatible with ADEME Fond Chaleur (GRS) protocol
- / Complete accessories range for basic and evolved functions



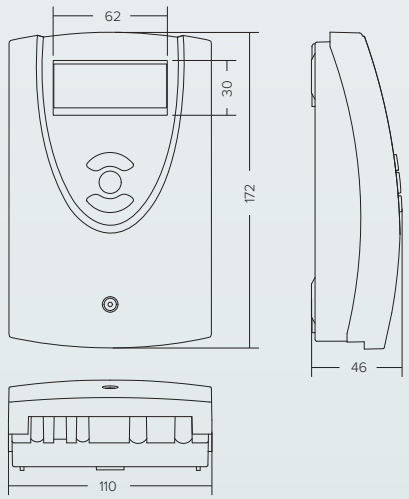
TECHNICAL DATA	SOLAR MANAGER PRO
Inputs	8
Outputs	4 semiconductor relays, 1 potential-free relay, 2 PWM outputs
Power supply	230
Protection type	20
Ambient temperature	0 ÷ 40
Dimensions	198 x 170 x 43

	SOLAR MANAGER PRO
CODE	3024252

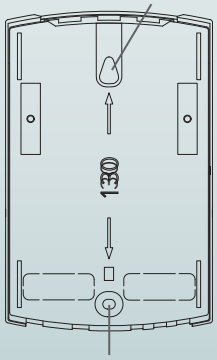
Solar Manager Izy Plus

- / Especially designed for the speed control of high efficiency pumps
- / 1 input for a VFD Grundfos Direct SensorTM
- / System Monitoring Display
- / Up to 4 Pt1000 temperature sensors
- / 2 semiconductor relays for pump speed control
- / HE pump control
- / Heat quantity measurement
- / Commissioning menu
- / 10 basic systems to choose from
- / Function control
- / Optional thermal disinfection function
- / Drain back option
- / Unit °F and °C selectable
- / 3 temperature probes Pt1000 (1 collector + 2 cylinder)
- / Wall hung kit

Dimensions and minimum distances



Upper fastening

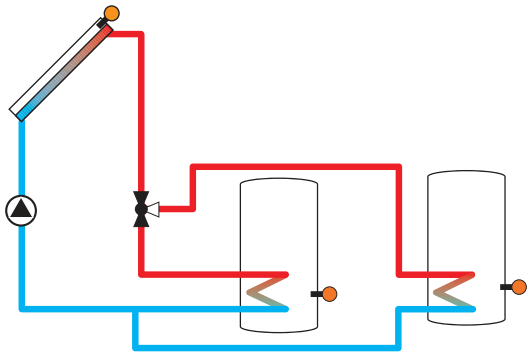


Lower fastening

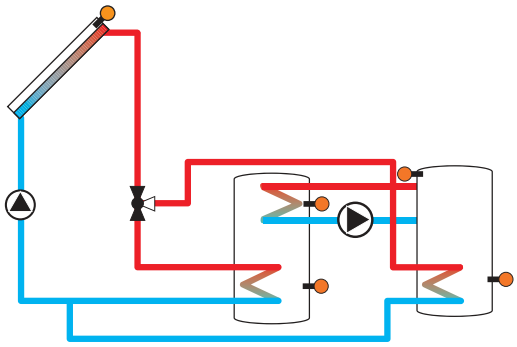
TECHNICAL DATA	SOLAR MANAGER IZY PLUS
Inputs	4 Pt1000 temperature sensors, 1 VFD Grundfos Direct SensorTM
Outputs	2 semiconductor relays, 2 PWM outputs
PWM frequency	512 Hz
PWM voltage	10.5 V
Switching capacity	1 (1) A 240 V~ (semiconductor relay)
Total switching capacity	2 A 240 V~
Power supply	100 – 240 V~ (50 – 60 Hz)
Supply connection	type X attachment
Standby	0.64 W
Temperature controls class	I
Energy effciency [%]	1
Mode of operation	type 1.C.Y action
Rated impulse voltage	2.5 kV
Data interface	VBus®
VBus® current supply	35 mA
Functions:	function control, operating hours counter, tube collector function, thermostat function, speed control and heat quantity measurement
Housing	plastic, PC-ABS and PMMA
Mounting	wall mounting, mounting into patch panels is possible
Indication / Display	System-Monitoring-Display for visualisation of systems, 16-segment and 7-segment display, 8 symbols for indication of system status
Operation	3 buttons
Ingress protection	IP 20 / EN 60529
Protection class	I
Ambient temperature:	0 ... 40 °C
Pollution degree	2
Fuse	T2A
Maximum altitude	2000 m above MSL
Dimensions	172 x 110 x 46 mm

	SOLAR MANAGER IZY PLUS
CODE	3024548

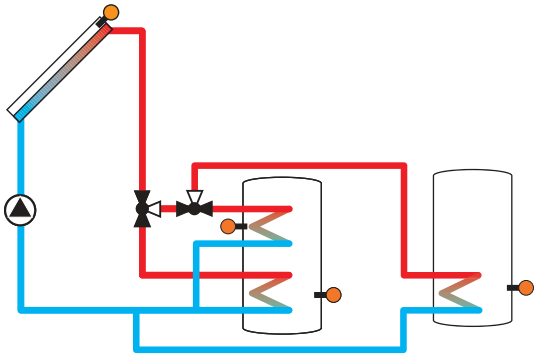
General System Diagrams



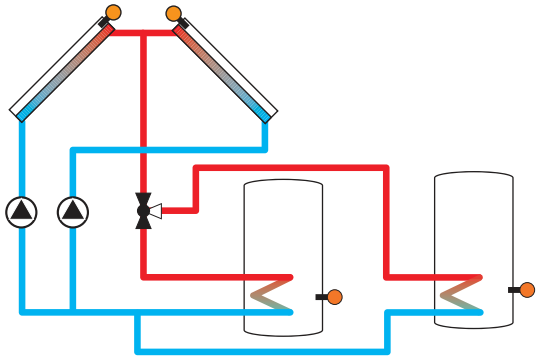
Solar system with 2 tanks,
probes and a 1 three way valve



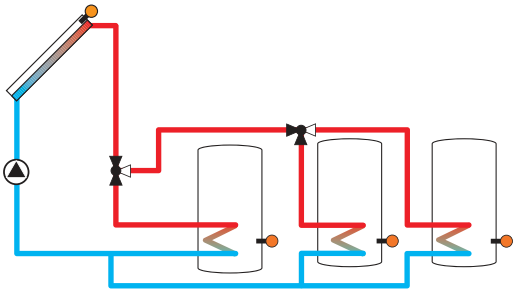
Solar system with 2 tanks,
valve control and heat exchange



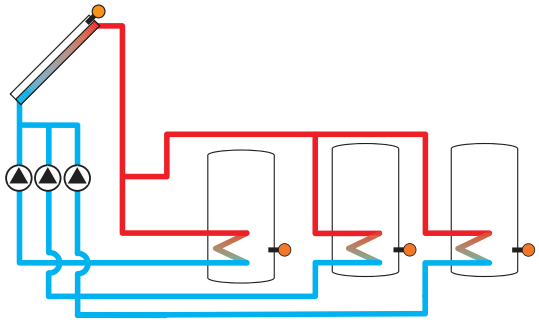
Solar system with 2 tanks,
of which one is stratified



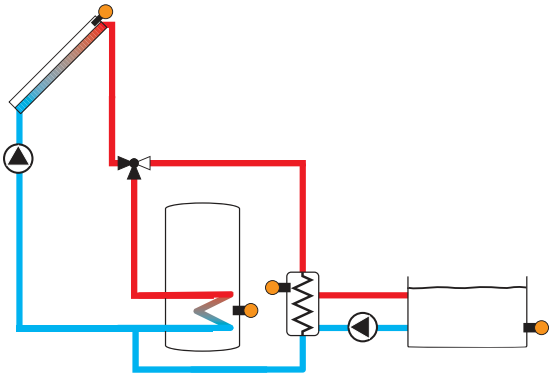
Solar system with 2 tanks and
est/ovest collectors



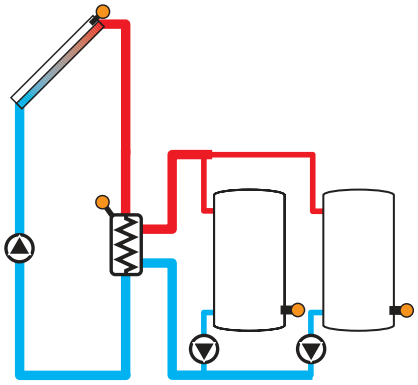
Solar system with 3 tanks,
valve control and priority logic



Solar system with 3 tanks,
pump control and priority logic



Solar system with 1 tank,
1 swiming pool, collectors, 1 external heat exchanger,
1 three way valve



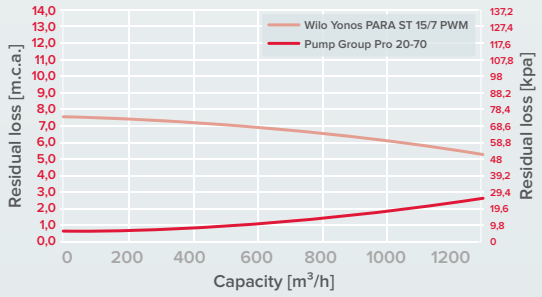
Solar system with 2 tanks,
1 external heat exchanger and pump control

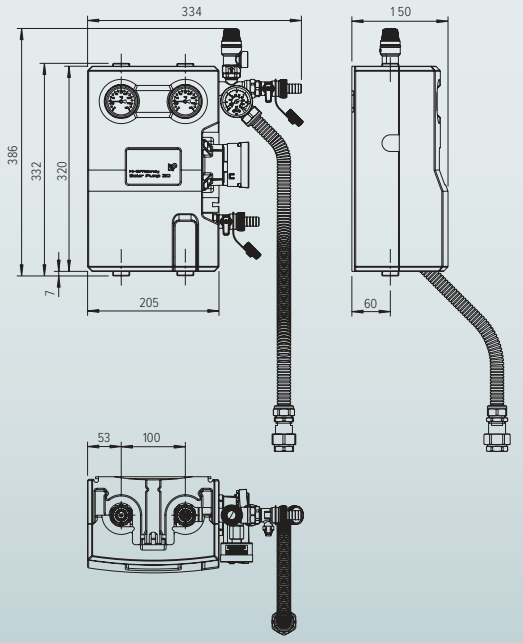
Solar Manager Pro Accessories

Accessories to manage the solar system	Code	
DATALOGGER DL3 PRO With the DL3 Pro you can easily and conveniently log system data of up to 6 controllers get a comprehensive overview of all controllers connected with the large full graphic display. Transfer data with an SD memory card, or use the LAN interface to view and process data on your PC.	3024276	
DATALOGGER DL2 PRO This module enables the acquisition and storage of large amounts of data (such as measuring and balance values of the solar system) over a long period of time. System access is possible with just a few clicks via VBus.net For transmission of the data stored in the internal memory of the DL2 to a PC, an SD card can be used.	3024277	
I/O EXTENSION MODULE 6-5 PRO The extension Module provides 5 additional relays and 6 additional sensor inputs. Up to 3 extension modules can be connected to the Solar Manager Pro via VBus®. The Extension Modules themselves do not require any adjustments, they are simply connected and assigned to the controller. The inputs and outputs of the registered modules will then be available for all functions of the controller.	3024279	
IRRADIATION SENSOR PRO The solar cell is used for measuring the irradiation intensity. The short-circuit current rises with increasing irradiation intensity. The sensor can also be used for additional functions. The connecting cable can be extended to 100 m.	3024278	
RPD SENSOR PRO Measure the temperature and the relative pressure with a single measuring element and then transmit the measured values directly. They can be optimally used for leakage and overpressure monitoring. Can be used in aggressive media as well as in domestic water and thus are ideal for the application in solar thermal and heating systems.	3024282	
VFD SENSOR PRO SMALL The digital sensor measure the temperature and the flow rate with a single measuring Can be used in aggressive media as well as in domestic water and thus are ideal for measuring the flow rate and the heat quantity in solar thermal and heating systems. VFD Pro Small has an operative flow range 1-12l / 25-80°C MaxT 100°C (120°C short).	3024280	
VFD SENSOR PRO BIG The digital sensor measure the temperature and the flow rate with a single measuring Can be used in aggressive media as well as in domestic water and thus are ideal for measuring the flow rate and the heat quantity in solar thermal and heating systems. VFD Pro big has an operative flow range 2-40l/ 25-80°C MaxT 100°C (120°C short).	3024281	
SOLAR MANAGER PROBE - COLLECTOR Probe for collectors, related to PRO electronics	3024273	
SOLAR MANAGER PROBE - CYLINDERS Probe for cylinders, related to PRO electronics	3024274	
SOLAR MANAGER PROBE - CUFF TUBE Probe for PRO electronics, to be applied on the pipes	3024275	
OVERVOLTAGE PROTECTION The device should be used in order to protect the susceptible temperature sensors in or at the collector against induced overvoltages. In the case of local thunderstorms, voltage peaks which could destroy the sensor can be induced in the sensor cable. The protector diodes in the Overvoltage protection limit these overvoltages to a value harmless to the sensor. The best way to protect the sensor is to install this connecting box close to the sensor.	3024284	
LAN INTERFACE - SOLAR MANAGER PRO It is designed for the direct connection of the controller to a PC or router. It enables easy access to the controller via the local network of the owner. Thus, controller access, system parametrisation and data read-out can be effected from every workstation of the network.	3024283	
ALARM MODULE PRO It is to be connected to the VBus® of the controller and issues an optical signal via the red LED if a failure has occurred. It has a potential-free relay output, which can e.g. be connected to a building management system (BMS) to issue a general warning in the case of a system failure.	3024292	

Pump Group Pro 20-70

- / Compact size
- / External PPS casing
- / High efficiency pumps





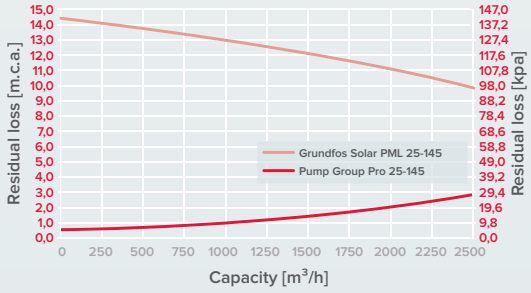
TECHNICAL DATA	PUMP GROUP PRO 20 - 70
Max. admissible pressure	PN 10
Max. operating temperature	120 °C
Max. short-time temperature	160 °C, < 15 minutes
Max. propylene glycol content	50%
Pressure relief valve	6 bars
Pressure gauge	0 - 6 bars
Check valves	2x200 mm wc
Valves and fittings	Brass
Gaskets	EPDM
Check valves	Brass
Insulation	0.041 W/(m K)

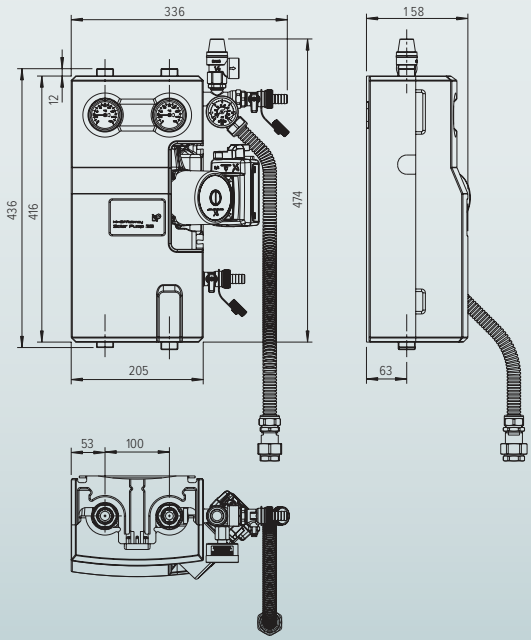
PUMP GROUP PRO	20 - 70
CODE	3024256

For the whole accessory list see page 57

Pump Group Pro 25-145

/ Compact size
/ External PPS casing
/ High efficiency pumps





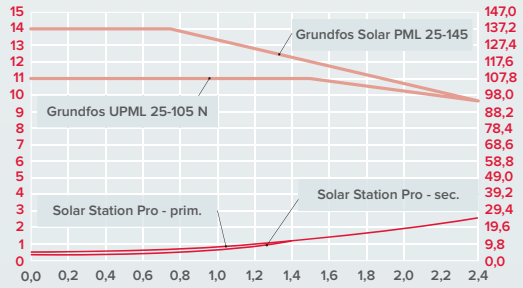
TECHNICAL DATA	PUMP GROUP PRO 25-145
Max. admissible pressure	PN 10
Max. operating temperature	120 °C
Max. short-time temperature	160 °C, < 15 minutes
Max. propylene glycol content	50%
Pressure relief valve	6 bars
Pressure gauge	0 - 6 bars
Check valves	2x200 mm wc
Valves and fittings	Brass
Gaskets	EPDM
Check valves	Brass
Insulation	0.041 W/(m K)

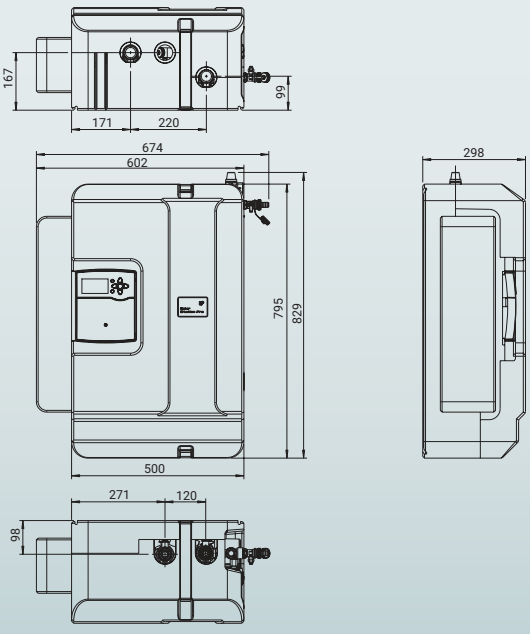
PUMP GROUP PRO	25-145
CODE	3024258

For the whole accessory list see page 57

Solar Station Pro

- / Compact size
- / External PPS casing
- / High performing Plate exchanger
- / High efficiency pumps on Solar and secondary circuits
- / DHW compliancy
- / Solar Manager Pro embedded





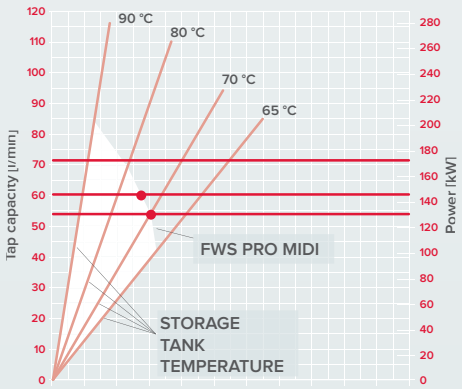
TECHNICAL DATA		SOLAR STATION PRO
Maximum pressure primary side	bar	6
Maximum pressure secondary side	bar	10
Maximum temperature primary side	°C	120
Maximum temperature secondary side	°C	95
Number of plates exchanger		60
Sensors installed		3 x Pt1000
Sensors in the packaging		2 x Pt1000

SOLAR STATION PRO	
CODE	3024261

For the whole accessory list see page 57

Fws Pro Midi

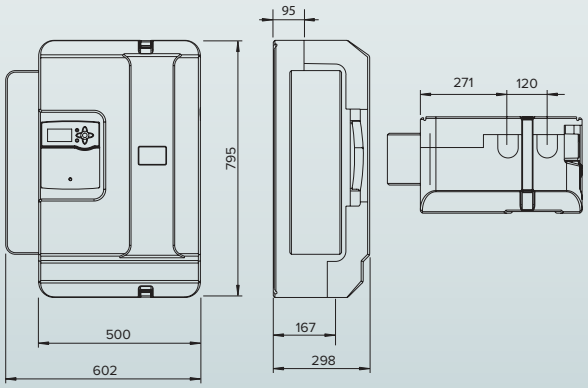
- / External PPS casing
- / High performing Plate exchanger
- / Instantaneous DHW production reduce bacteria risks
- / ACS and DM174 compliancy
- / Controller embedded



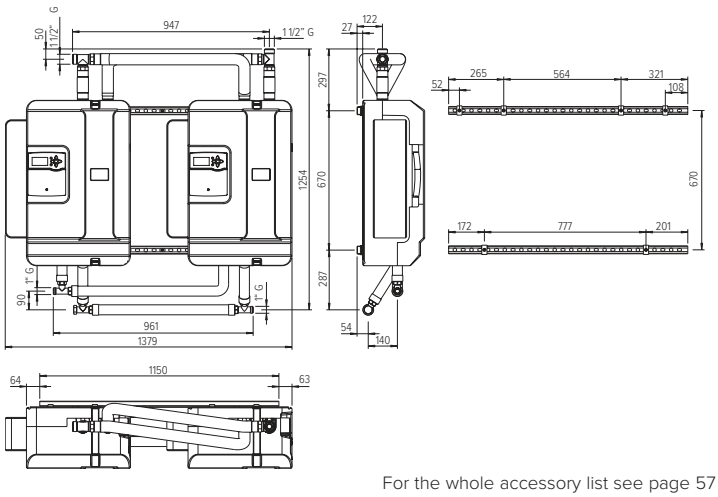
TECHNICAL DATA		FWS PRO MIDI
Maximum pressure primary side	bar	6
Maximum pressure secondary side	bar	10
Maximum temperature	°C	95
Number of plates exchanger		40

	FWS PRO MIDI
CODE	3024263

SINGLE INSTALLATION SCHEME



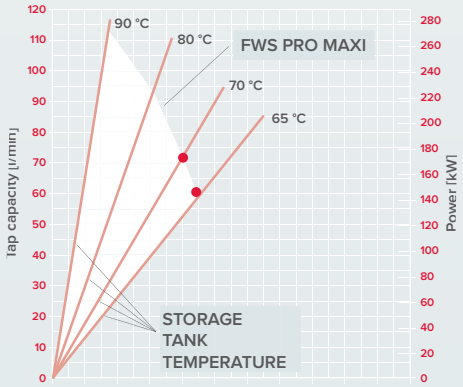
CASCADE INSTALLATION SCHEME



For the whole accessory list see page 57

Fws Pro Maxi

- / External PPS casing
- / High performing Plate exchanger
- / Instantaneous DHW production reduce bacteria risks
- / ACS and DM174 compliancy
- / Controller embedded

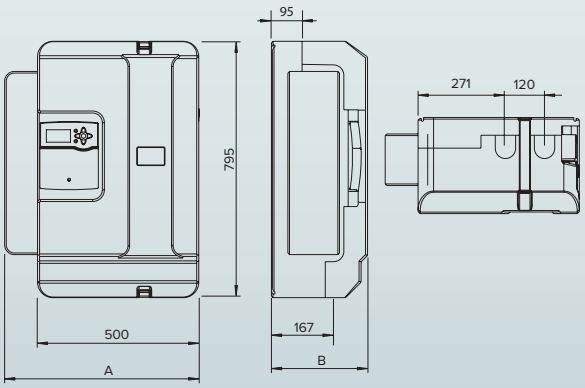


Water temperature at the tap: 45°C
Water temperature at production: 60°C
Cold water temperature: 10°C

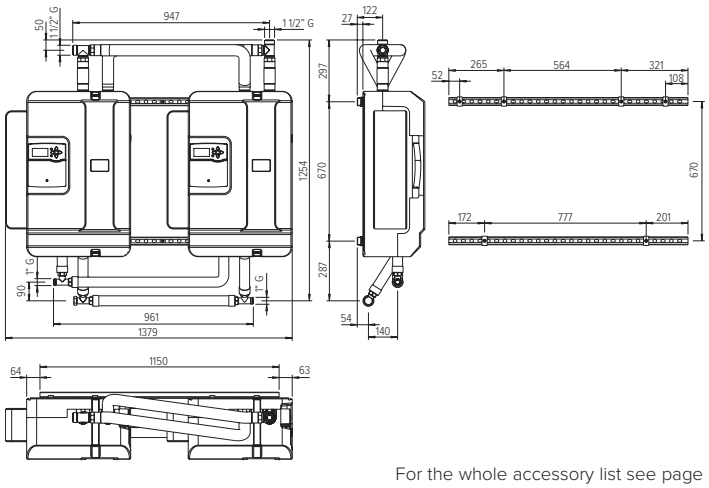
TECHNICAL DATA		FWS PRO MAXI
Maximum pressure primary side	bar	6
Maximum pressure secondary side	bar	10
Maximum temperature	°C	95
Number of plates exchanger		60

	FWS PRO MAXI
CODE	3024264

SINGLE INSTALLATION SCHEME



CASCADE INSTALLATION SCHEME

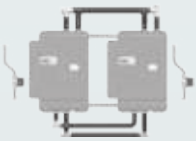


For the whole accessory list see page 57

Solar Accessories

Devices and accessories for solar collectors	Code
CIRCULATION KIT FWS PRO MIDI-MAXI	3024265
CASCADE KIT FWS PRO MIDI	3024268
CASCADE KIT FWS PRO MAXI	3024269
CIRCULATION KIT FWS PRO MIDI CASCADE	3024270
CIRCULATION KIT FWS PRO MAXI CASCADE	3024271
3-WAY VALVE PRO - DN 20 Destratification valve to install SOLAR STATION PRO	3024262
3-WAY VALVE PRO - DN 25 Destratification valve to install single FWS PRO MIDI	3024266
3-WAY VALVE PRO - DN 32 Destratification valve to install single FWS PRO MAXI	3024267
3-WAY VALVE PRO - DN 40 Destratification valve to install FWS PRO MIDI in cascade	3024325
RPR SENSOR PRO - PRESSURE SENSOR	3024326



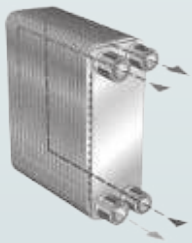


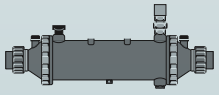

Solar system management accessories and devices	Code
Sensys, modulating system manager (wired) - Remote control of all boiler functions through the BUS Bridgenet protocol - User-Friendly Setting/Configuration of system parameters - thermoregulation - Display of solar system working (if connected) - Display of energy reports (kWh), solar energy production, CO2 savings, storaged 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
SOLAR MANAGER IZY PLUS Especially designed for the speed control of high efficiency pumps, 1 input for a VFD, Grundfos Direct SensorTM, • System Monitoring Display, Up to 4 Pt1000 temperature sensors, 2 semiconductor relays for pump speed control, HE pump control, Heat quantity measurement, Commissioning menu, 10 basic systems to choose from, Function control, Optional thermal disinfection function, Drain back option, Unit °F and °C selectable. STANDARD EQUIPMENT: 3 temperature probes Pt1000 (1 collector + 2 cylinder), Wall hung kit, Manuals IT, EN, FR, ES. Dimensions: 110 x 166 x 47 mm.	3024548
Additional DHW solar probe 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.	3024274
Additional collector solar probe 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.	3024273
Digital thermostat Device with input for probe and output for the actuation of a high voltage load at 250 V like a diverter valve with 2 or 3 wires. The three digit display allows to view the temperatures and the setting of the functioning parameters. Supplied cylindrical probe with diameter of 6 mm Ptc1000 with 1.5 metres of cable. Dimensions: 79 x 115 x 42 mm.	800232
Electrical resistance 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
Enamelled electrical resistance 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
Safety group Pre-assembled group including safety valve, automatic air release valve and manometer	12053830
heating return probe S4	3024175
EXTENSION PUMP PRO 25-145	3024259
PIPES KIT EXTENSION PUMP PRO 25	3024260

Solar Accessories

Hydraulic devices and accessories	Code	
Digital Solar Pump Group 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	3318905	
Thermostatic mixer 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.	3024085	
GAL EVO motorized mixing valve (plus wires)	3024176	
Motorized diverter valve 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.	3087085	
Motorized three-way valve diverter motorized valve to use exclusively with Macc tank. Suitable with heating and domestic hot water. Includes wires.	3024076	
GAL EVO motorized diverter valve	3024177	
Fresh water station 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	3024152	
Forced circulation sensor kit Compatible with digital solar pump assembly and Sensys. Contains: - solar indirect cylinder sensor - collector sensor	3318485	
Collector sun sensor Compatible with digital solar pump assembly and Sensys. Contains: - collector sensor	3318564	

Hydraulic devices and accessories	Code
Recirculation kit FWS	3024161
Hydraulic kit COMBI	3024174
Heating return sensor S4	3024175
EXPANSION TANKS SOLAR	
Expansion sola vesselr / healthcare 16 lt for Macc	3024183
Solar expansion vessel 18 lt	3024318
Solar expansion vessel 25 lt	3024319
Solar expansion vessel 35 lt	3024320
Solar expansion vessel 50 lt	3024321
Solar expansion vessel 80 lt	3024322
Solar expansion vessel 150 lt	3024323
Solar expansion vessel 200 lt	3024324
Generic solar plate heat exchanger 16kW **Generic solar plate heat exchanger 32kW** **Generic solar plate heat exchanger 48kW** Heat exchanger steel plate brazed, suitable for use with hot water and heating. 5 bar operating pressure, maximum operating temperature 60/45 ° C respectively with exchange surfaces (m2) * / number plates / volumetric flow permissible (l / h) of 0.4 / 18/720; 0.8 / 34/1440; 1.2 / 48/2500	3024036 3024037 3024038
Solar heat exchanger for swimming pools 20kW **Solar heat exchanger for swimming pools 40kW** **Solar heat exchanger for swimming pools 70kW** * Shell and tube heat exchanger in titanium, suitable for heating swimming pool water. Operating pressure 2 bar. operating ranges (m3) primary / secondary respectively of 0.9 / 10; 1.7 / 15; 3/20.	3024039 3024040 3024041

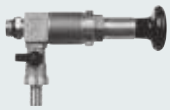




Solar Accessories

Hydraulics devices and accessories	Code
Adaptation kit hydraulic manifold side It contains hydraulic fitting elements for smooth copper pipe from 16 to 18 and 22 mm and for connection with flat 3/4 “.	3024070
Adaptation kit hydraulic pump unit side It contains hydraulic fitting elements for smooth copper pipe from 16 to 18 and 22 mm and for connection with flat 3/4 “.	3024071
Steel roof passage pipes It contains two flexible stainless steel tubes from 22 mm insulated 1m long. Connections for smooth copper pipe from 16 to 18 and 22 mm.	3087014
Pre-insulated pipes twins Kit containing 10 m of corrugated stainless steel tube twin 16 mm in diameter and insulated. Collector sensor cable is built. A kit of brass fitting for connection collectors and the pumping station.	3024069
T-shaped fittings for XP	3024096
Safety hydraulic group 3/4 “	877085
Siphon 1”	877086

Tools for filling and maintenance of the solar system	Code
Pure antifreeze liquid (5 lt) Propylene glycol non-toxic, odorless and hygroscopic. Corrosion inhibitors contained in the propylene glycol protect the metals normally used in solar installations. Miscible with water in all proportions between 25% and 75%.	800215
Manual charge pump antifreeze Piston pumps brass for connection to the solar plant during the phase filling and pressurizing.	800235
GROUP OF FILLING THE SOLAR POWERED Filling of the solar powered device that reduces up to 80% faster start-up of the system. Compact and transportable an indispensable tool for those who frequently install solar systems. Prevalence 40 m, tank capacity 20 liters. Dimensions 390 x 430 x 600 mm	3024091
Mounting template THERMO HF 150-1 and 200-1 on the ground	3024194
Mounting template THERMO HF 300-2 ground	3024195
Carrying handles kettles THERMO HF	3024198
SOLAR CASE Case containing all the tools specific to the pre-installation inspection, the first startup of the solar system and its maintenance ordinary and extraordinary. The case is composed of: • A digital pH meter complete with screwdriver and solution (pH 7 @ 25 °C) for calibration • A refractometer full manual screwdriver, plastic dropper and cloth for cleaning of the prism • A digital thermometer with 2 probe Tc-K • Two temperature probes Tc-K Clamp • A pressure gauge 0 .. 4.5 bar • A clinobussola • A pack of maps for the measurement of pH	3024090



ARISTON

CYLINDERS

CYLINDERS

	BCH			BC1S 7B			BC2S 7B		
	80	120	160	200	300	450	200	300	450
ENELGY CLASS	C	C	B	B	B	B	B	B	B
INSTALLATION	FLOOR/WALL			FLOOR			FLOOR		
BOILER COMPATIBLE	yes			yes			yes		
SOLAR COMPATIBLE	yes			yes			yes		
1st COIL SURFACE (m^2)	0,5	0,7	0,7	0,8	1,3	2	0,5	0,8	1
2nd COIL SURFACE (m^2)	-			-			0,8	1 ,3	2
TITANIUM ENAMELLED	yes			yes			yes		
ANTI-CORROSION PROTECTION	yes			yes			yes		
STANDARD ELECTRIC RESISTANCE	-			-			-		
OPTIONAL ELECTRIC RESISTANCE	yes			yes			yes		
RECIRCULATION	yes			yes			yes		
PAGE	67			68			69		

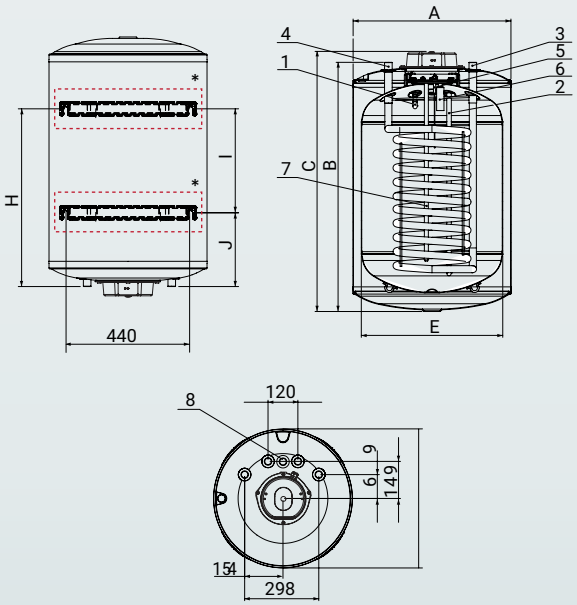
EP1				EP2				EPZ			
3000	4000	5000	7000	3000	4000	5000	7000	3000	4000	5000	7000
-	-	-	-	-	-	-	-	-	-	-	-
FLOOR				FLOOR				FLOOR			
yes				yes				yes			
yes				yes				yes			
5,4	5,4	5,4	7,8	5,4	5,4	5,4	7,8	-			
5,4	5,4	5,4	7,8	5,4	5,4	5,4	7,8	-			
yes				yes				yes			
-				-				-			
-				-				-			
yes				yes				yes			
yes				yes				yes			
77				79				81			

BCH

MADE IN EUROPE | ANTI-CORROSION | SOLAR INTEGRATION

Single coil multiposition vertical cylinder

/ Titanium enamelled steel boiler
/ Double electronic anti-corrosion anode in magnesium
/ Recirculation
/ It can be floor and wall mounted even inverted
/ Integrated sensor slot sheath
/ Electrical heating element kit available
/ Wall mounting bracket kit available
/ Can be integrated with the forced circulation solar heating system, electric heating element and boiler



1. Cold water inlet or hot water outlet 3/4"M
2. Hot water outlet or cold water inlet 3/4"M
3. Coil return or flow 3/4"M
4. Coil flow or return 3/4"M
5. Pro Tech Anode
6. Magnesium anode
7. Temperature sensor
8. Recirculation 3/4"M (excluding 80 l)

* wall bracket available as accessory

TECHNICAL DATA		80	120	160	200
Capacity	l	76	124	157	195
Maximum temperature	°C	90	90	90	90
Thermal loss (EN 60379)	kWh/24h	1,27	1,51	1,35	1,84
Maximum operating pressure	bar	7	7	7	7
Coil surface	m^2	0,5	0,5	0,7	1
Exchanger ouput	kW	10,3	13,9	15,5	21
Pressure loss through coil	mbar	16	16	33	41
Net Weight	kg	34	44	52	62
DIMENSIONS					
A	mm	560	560	560	560
B	mm	670	880	1312	1558
C	mm	700	910	1345	1590
D	mm	535	745	1183	1428
H	mm	417	627	1050	1296
I	mm	155	365	600	800
J	mm	262	262	450	496
M	mm	572	572	572	572

BCH	80	120	160	200
ErP Energy class	C	C	B	C
CODE	3092010	3092011	3092012	3092013

*with reference to wall mounting

For the whole accessory list see page 83

BC1S 7B

NEW

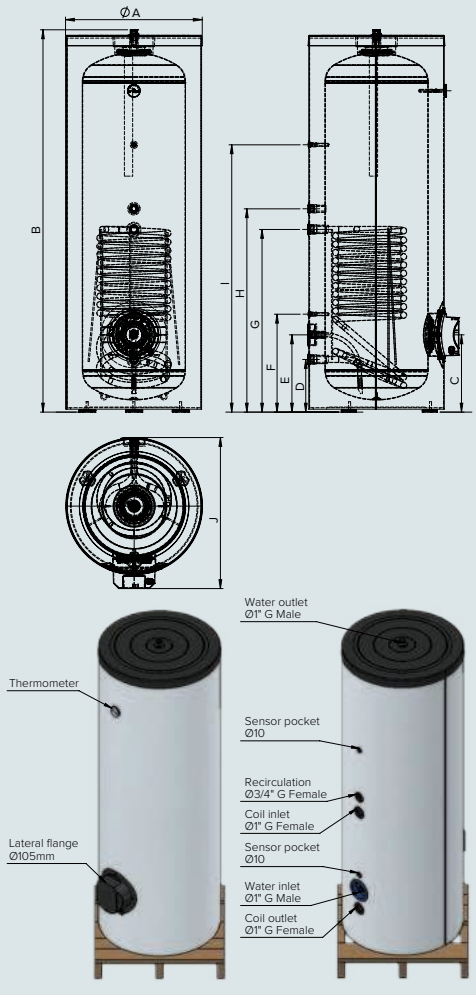
MADE IN EUROPE | SOLAR INTEGRATION | EASY INSPECTION

FRONT REAR

Floor-standing indirect cylinder with mono-coil

/ Tank protection with exclusive titanium-based enamel treatment at 850°C
/ Single-coil, suitable for solar or fossil sources
/ Equipped for recirculation
/ 105 mm front inspection flange
/ Magnesium anode
/ Adjustable support feet
/ 2 kW electrical integration kit or 6 kW (450 L) available on request
/ Two sensor pockets
/ Thermometer included
/ PVC soft jacket included

CE



TECHNICAL DATA		BC1S 200	BC1S 300	BC1S 450
Coil capacity	l	5	9,6	13
Coil surface	m^2	0,8	1,3	2
Exchanger output (En 15332)	kW	14	22,4	38
Exchanger output (En 12897)	kW	12,5	17,9	25
Coil resistance	mbar	12	16	17
Max. working pressure	bar	7	7	7
Thermal loss EN 60379	kWh/24h	1,46	1,66	1,92
Maximum temperature	°C	90	90	90
Weight	kg	72	100	140
DIMENSIONS				
A - Diameter	mm	656	656	751
B - Height / Water outlet Ø1" G Male	mm	1331	1853	1978
C - Lateral flange Ø105mm	mm	374	374	374
D - Coil outlet Ø1" G Female	mm	255	255	255
E - Water inlet Ø1" G Male	mm	374	374	374
F - Sensor pocket Ø10mm	mm	474	474	474
G - Coil inlet Ø1" G Female	mm	685	885	1045
H - Recirculation Ø3/4" G Female	mm	785	985	1145
I - Sensor pocket Ø10mm	mm	905	1295	1435
J - Width including flange plastic cover	mm	730	730	825

BC1S 7B	200	300	450
ErP Energy class	B	B	B
CODE	3070608	3070609	3070610

BC2S 7B

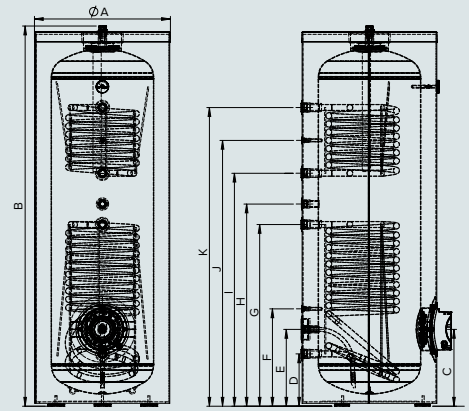
NEW

MADE IN EUROPE | SOLAR INTEGRATION | EASY INSPECTION

FRONT REAR

Floor-standing indirect cylinder with double coil

/ Tank protection with exclusive titanium-based enamel treatment at 850°C
/ Double coil suitable to couple solar and fossil sources
/ Equipped for recirculation
/ 105 mm front inspection flange
/ Magnesium anode
/ Adjustable support feet
/ 2 kW electrical integration kit or 6 kW (450 L) available on request
/ Two sensor pockets
/ Thermometer included
/ PVC soft jacket included



TECHNICAL DATA		BC2S 200	BC2S 300	BC2S 450
UPPER COIL				
Coil capacity	l	3,2	6	7,5
Coil surface	m2	0,5	0,8	1
Exchanger output (En 15332)	kW	10	14,5	20
Exchanger output (En 12897)	kW	9,8	13,8	17,4
Coil resistance	mbar	9	11	10
BOTTOM COIL				
Coil capacity	l	5	9,6	13
Coil surface	m2	0,8	1,3	2
Exchanger output (En 15332)	kW	14	22,4	38
Exchanger output (En 12897)	kW	12,5	17,9	25
Coil resistance	mbar	12	16	17
Max. working pressure	bar	7	7	7
Thermal loss EN 60379	kWh/24h	1,46	1,66	1,92
Maximum temperature	°C	90	90	90
Weight	kg	80	107	150
DIMENSIONS				
A - Diameter	mm	656	656	751
B - Height / Water outlet Ø1" G Male	mm	1331	1853	1978
C - Lateral flange Ø105mm	mm	374	374	374
D - Coil outlet Ø1" G Female	mm	255	255	255
E - Water inlet Ø1" G Male	mm	374	374	374
F - Sensor pocket Ø10mm	mm	474	474	474
G - Coil inlet Ø1" G Female	mm	605	885	1045
H - Recirculation Ø3/4" G Female	mm	705	985	1145
I - Coil outlet Ø1" G Female	mm	805	1135	1295
J - Sensor pocket Ø10mm	mm	905	1295	1435
K - Coil inlet Ø1" G Female	mm	1005	1455	1575
L - Width including flange plastic cover	mm	730	730	825

BC2S 7B	200	300	450
ErP Energy class	B	B	B
CODE	3070616	3070617	3070618

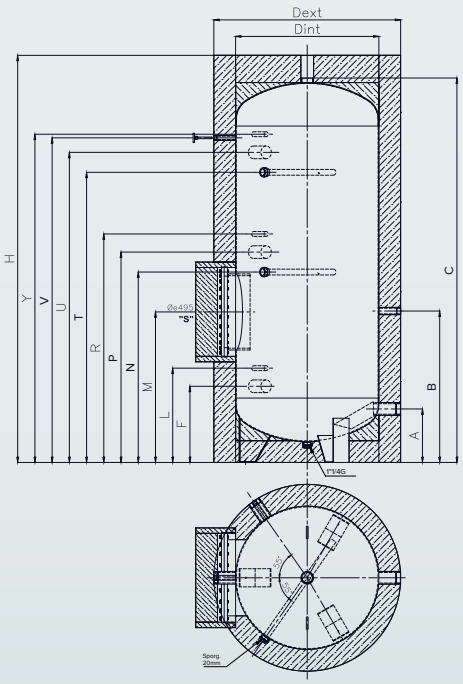
Maxis CDZ

MADE IN ITALY

EASY INSPECTION

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

- / 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
- / Available heating element up to 15 kW



	800-1000-1500	2000-2500-3000
1. Cold water inlet	G2" F	G2" F
2. Hot water outlet	G 2"F	G 2"F
3. Recirculation	G 1" F	G 1 ½ " F
4. Sanitary circuit return	G 2"F	G 2"F
5. Draining fitting connection	G 1 ¼ "F	G 1 ¼ "F
6. Well	G ½ "F	G ½ "F
7. Flange	ø 495	ø 495
8. Magnesium anode	G 1 ¼ " F	G 1 ¼ " F
9. Upper fitting connection	G 1 ¼ "F	G 1 ¼ "F

TECHNICAL DATA		MAXIS CDZ 800	MAXIS CDZ 1000	MAXIS CDZ 1500	MAXIS CDZ 2000	MAXIS CDZ 2500	MAXIS CDZ 3000
Capacity	l	776	886	1492	1940	2470	2880
Max. working pressure	bar	8	8	8	8	8	8
Max. cylinder working temperature	°C	95	95	95	95	95	95
Thermal loss (EN 60379)	kWh/24h	3	3,1	3,8	4,28	4,67	5,1
Empty weight	kg	228	256	349	432	524	576
OVERALL DIMENSIONS							
A	mm	295	290	350	430	330	330
B	mm	835	830	820	910	860	960
C	mm	1870	2095	1935	2095	2065	2355
F	mm	420	415	475	565	465	465
H	mm	1995	2220	2060	2220	2190	2480
L	mm	520	515	575	665	565	565
M	mm	800	825	835	945	895	895
N	mm	-	1045	1055	1210	1145	1260
P	mm		1155	965	1120	1020	1170
R	mm	1065	1255	1065	1220	1120	1270
T	mm	1265	1595	1360	1460	1510	1810
U	mm	1460	1685	1465	1535	1605	1895
V	mm	1540	1765	1550	1625	1695	1985
Y	mm	1560	1785	1565	1635	1705	1995
D int	mm	790	790	1100	1200	1350	1350
D ext	mm	1030	1030	1340	1440	1590	1590

MAXIS CDZ	800	1000	1500	2000	2500	3000
ErP Energy class	C	C	C	C	-	-
CODE	3060684	3060685	3060612	3060613	3060614	3060615

For the whole accessory list see page 83

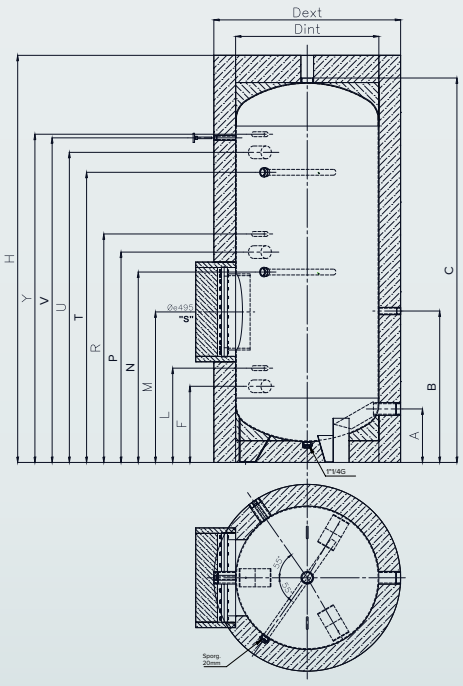
Maxis CDZ F

MADE IN ITALY

EASY INSPECTION

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

- / 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
- / Available heating element up to 15 kW



	800-1000-1500	2000-2500-3000
1. Cold water inlet	G2" F	G2" F
2. Hot water outlet	G 2"F	G 2"F
3. Recirculation	G 1" F	G 1 ½ " F
4. Sanitary circuit return	G 2"F	G 2"F
5. Draining fitting connection	G 1 ¼ "F	G 1 ¼ "F
6. Well	G ½ "F	G ½ "F
7. Flange	ø 495	ø 495
8. Magnesium anode	G 1 ¼ " F	G 1 ¼ " F
9. Upper fitting connection	G 1 ¼ "F	G 1 ¼ "F

TECHNICAL DATA		MAXIS CDZ 600F	MAXIS CDZ 800F	MAXIS CDZ 1000F	MAXIS CDZ 1500F	MAXIS CDZ 2000F	MAXIS CDZ 2500F	MAXIS CDZ 3000F
Capacity	l	776	886	1492	1940	2470	2880	
Max. working pressure	bar	8	8	8	8	8	8	
Max. cylinder working temperature	°C	95	95	95	95	95	95	
Thermal loss (EN 60379)	kWh/24h	3	3,1	3,8	4,28	4,67	5,1	
Empty weight	kg	228	256	349	432	524	576	

OVERALL DIMENSIONS								
A	mm	250	295	230	290	370	270	270
B	mm	790	835	770	760	850	800	900
C	mm	2030	1870	2035	1875	2035	2005	2295
F	mm	375	420	355	415	505	405	405
H	mm	2155	1995	2160	2000	2160	2130	2420
L	mm	475	520	455	515	605	505	505
M	mm	555	600	535	595	685	585	585
N	mm	_	_	700	750	830	750	750
P	mm	1115	965	1095	905	1060	960	1110
R	mm	1215	1065	1195	1005	1160	1060	1210
T	mm	1375	1265	1535	1305	1400	1450	1750
U	mm	1665	1460	1625	1405	1475	1545	1835
V	mm	1745	1540	1705	1490	1565	1635	1925
Y	mm	1765	1560	1725	1505	1575	1645	1935
D int	mm	650	790	790	1100	1200	1350	1350
D ext	mm	890	1030	1030	1340	1440	1590	1590

MAXIS CDZ							
ErP Energy class	C	C	C	C	-	-	
CODE	3060684	3060685	3060612	3060613	3060614	3060615	

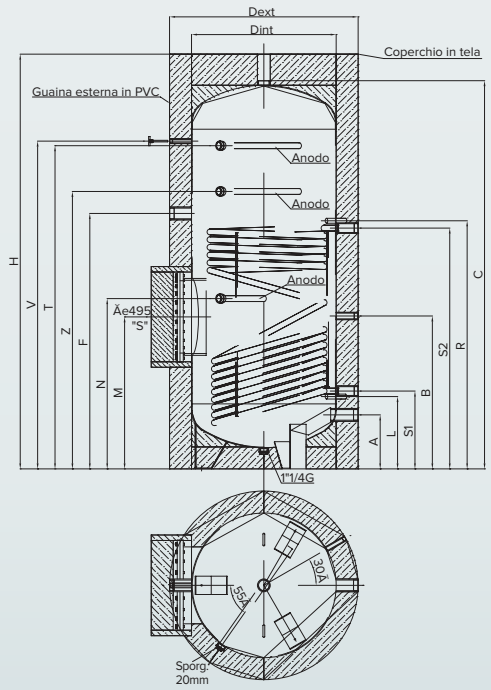
For the whole accessory list see page 83

Maxis CD1

MADE IN ITALY | SOLAR INTEGRATION | EASY INSPECTION

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

- / 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
- / Available heating element up to 15 kw on the lateral flange, and up to 6 kW on the cap connection



1. Cold water inlet G2" F
2. Hot water outlet G 2"F
3. Recirculation G 1 ½ " F
4. Heating element G 1 ½ " F
5. Draining fitting connection G 1 ¼ "F
6. Well G ½" F
7. Flange ø 400
8. Magnesium anode G 1 ¼ " F
9. Thermometer
10. Primary ciurcuit flow G 1 ½ " F
11. Primary ciurcuit return G 1 ½ " F
12. Upper fitting connection G 1 ¼ " F

TECHNICAL DATA		MAXIS CD1 800	MAXIS CD1 1000	MAXIS CD1 1500	MAXIS CD1 2000	MAXIS CD1 2500	MAXIS CD1 3000
Standing loss	*W*	125	133	162	182	196	211
Storage volume	*l*	757	862	1456	1897	2422	2832
Max water temp.	*°C*	95	95	95	95	95	95
Bottom coil surface	*m²*	2,5	3	4,5	5,4	6	6
Coil capacity	*l*	15	18,6	27,6	33,6	37,6	37,6
Bottom coil rating	*kW*	39,6	45,1	76,2	99,3	126,7	148,2
Coil pressure drop	*mbar*	15,2	18,9	27,9	34	38,2	38,2
Coils working pressure	*(bar)*	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
Max working pressure/	*(bar)*	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Tank weight	*Kg*	259	292	402	498	600	652
OVERALL DIMENSIONS							
A	mm	295	290	350	430	330	330
B	mm	735	830	820	910	860	960
C	mm	1870	2095	1935	2095	2065	2355
F	mm	1000	1130	1185	1310	1225	1225
H	mm	1995	2220	2060	2220	2190	2480
L	mm	420	390	450	535	440	440
M	mm	475	490	585	685	595	595
N	mm	475	490	585	685	595	595
R	mm	940	1065	1150	1280	1185	1185
T	mm	1500	1760	1510	1625	1695	1960
V	mm	1540	1765	1575	1645	1695	1985
Z	mm	–	–	–	–	1340	1340
S1	mm	450	420	480	565	470	470
S2	mm	900	1025	1110	1240	1145	1145
D int	mm	790	790	1100	1200	1350	1350
D ext	mm	1030	1030	1340	1440	1590	1590

MAXIS CD1	MAXIS CD1 800	MAXIS CD1 1000	MAXIS CD1 1500	MAXIS CD1 2000	MAXIS CD1 2500	MAXIS CD1 3000
ErP Energy class	C	C	C	C	-	-
CODE						

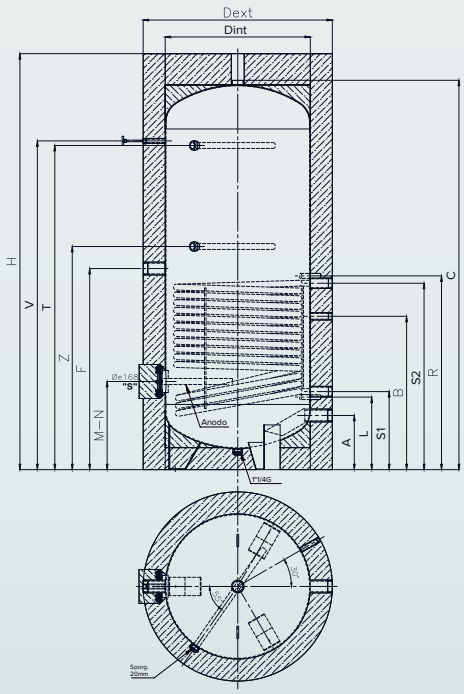
For the whole accessory list see page 83

Maxis CD1 F

MADE IN ITALY | SOLAR INTEGRATION | EASY INSPECTION

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

- / 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
- / Available heating element up to 6 kW



1. Cold water inlet G2" F
2. Hot water outlet G 2"F
3. Recirculation G 1" F
4. Sanitary circuit return G 1 ½ " F
5. Draining fitting connection G 1 ¼ "F
6. Well G ½" F
7. Flange ø 110
8. Magnesium anode G 1 ¼ " F
9. Thermometer
10. Primary ciurcuit flow G 1 ½ " F
11. Primary ciurcuit return G 1 ½ " F
12. Upper fitting connection G 1 ½ " F

TECHNICAL DATA		MAXIS CD1 600F	MAXIS CD1 800F	MAXIS CD1 1000F	MAXIS CD1 1500F	MAXIS CD1 2000F	MAXIS CD1 2500F	MAXIS CD1 3000F
Standing loss	*W*	88	97	110	137	161	177	187
Storage volume	*l*	561	757	862	1456	1897	2422	2832
Max water temp.	*°C*	95	95	95	95	95	95	95
Bottom coil surface	*m^2*	2,4	2,5	3	4,5	5,4	6	6
Coil capacity	*l*	15	15	18,6	27,6	33,6	37,6	37,6
Bottom coil rating	*kW*	3,4	34,8	41,8	62,6	75,6	84,0	84,0
Coil pressure drop	*mbar*	15,1	15,2	18,9	27,9	34	38,2	38,2
Coils working pressure	*(bar)*	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
Max working pressure/	*(bar)*	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Tank weight	*Kg*	170	218	251	361	457	559	611
OVERALL DIMENSIONS								
A	mm	250	295	290	350	430	330	330
B	mm	790	735	830	820	910	860	960
C	mm	2030	1870	2095	1935	2095	2065	2355
F	mm	1160	1000	1130	1185	1310	1225	1225
H	mm	2155	1995	2220	2060	2220	2190	2480
L	mm	390	420	390	450	535	440	440
M	mm	460	475	490	585	685	595	595
N	mm	460	475	490	585	685	595	595
R	mm	1100	940	1065	1150	1280	1185	1185
T	mm	1375	1500	1760	1510	1625	1695	1960
V	mm	1745	1540	1765	1575	1645	1695	1985
Z	mm	–	–	–	–	–	1340	1340
S1	mm	420	450	420	480	565	470	470
S2	mm	1060	900	1025	1110	1240	1145	1145
Dint	mm	650	790	790	1100	1200	1350	1350
Dext	mm	890	1030	1030	1340	1440	1590	1590

MAXIS CD1		MAXIS CD1 600F	MAXIS CD1 800F	MAXIS CD1 1000F	MAXIS CD1 1500F	MAXIS CD1 2000F	MAXIS CD1 2500F	MAXIS CD1 3000F
ErP	Energy class	B	B	C	C	C	-	-
CODE								

For the whole accessory list see page 83

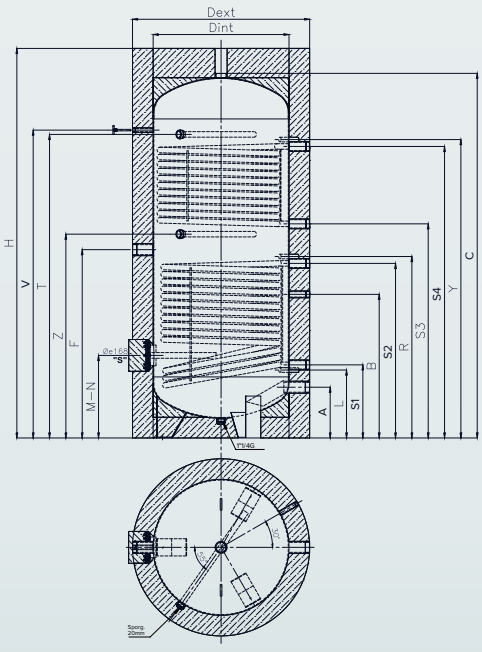
Maxis CD2 F

MADE IN ITALY | SOLAR INTEGRATION | EASY INSPECTION

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

- / 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
- / Available 6 kW heating element

PRESTAZIONI IN POMPA DI CALORE - RAFFRESCAMENTO [3]



	800 - 1000 - 1500	2000 - 2500
1. Cold water inlet	G2" F	G2" F
2. Hot water outlet	G 2"F	G 2"F
3. Recirculation	G 1" F	G 1 ½ " F
4. Heating element	G 1 ½ " F	G 1 ½ " F
5. Draining fitting connection	G 1 ¼ "F	G 1 ¼ "F
6. Well	G ½ "F	G ½ "F
7. Flange	ø 110	ø 110
8. Magnesium anode	G 1 ¼ " F	G 1 ¼ " F
9. Thermometer		
10. Lower coil flow	G 1 ½ " F	G 1 ½ " F
11. Lower coil return	G 1 ½ " F	G 1 ½ " F
12. Upper coil flow	G 1 ½ " F	G 1 ½ " F
13. Upper coil return	G 1 ½ " F	G 1 ½ " F
14. Upper fitting connection	G 1 ¼ "F	G 1 ¼ "F

TECHNICAL DATA		MAXIS CD2 600F	MAXIS CD2 800F	MAXIS CD2 1000F	MAXIS CD2 1500F	MAXIS CD2 2000F	MAXIS CD2 2500F	MAXIS CD2 3000F
Standing loss	W	88	97	111	139	163	189	198
Storage volume	l	548	738	848	1440	1884	2395	2805
Max water temp	°C	95	95	95	95	95	95	95
Solar coil surface	m2	2,4	2,4	2,5	4,2	4,5	6	6
Solar coil capacity	l	15,5	14,9	14,9	25,1	27,3	37,6	37,6
Solar coil rating	kW	33,4	34,8	41,8	2,6	75,6	84	84
Solar coil pressure-drop	mbar	15,7	15,1	15,1	25,7	27,6	38,2	38,2
Upper coil surface	m2	1,9	2,4	2,5	2,5	3	3,5	3,5
Upper coil capacity	l	10,3	14,9	14,9	15,5	16,8	21,2	21,2
Upper coil rating	kW	26,4	33,4	34,8	34,8	41,8	48,7	48,7
Upper coil pressure	mbar	10,6	15,1	15,7	15,7	17	21,5	21,5
Coils working pressure	MPa(bar)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
Max Max fluid temp. coil	°C	110	110	110	110	110	110	110
Max working pressure	MPa(bar)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Tank weight	Kg	200	251	276	391	483	608	661
OVERALL DIMENSIONS								
A	mm	250	295	290	350	430	330	330
B	mm	790	735	830	820	910	860	960
C	mm	2030	1870	2095	1935	2095	2065	2355
F	mm	1160	1000	1130	1185	1310	1225	1225
H	mm	2155	1995	2220	2060	2220	2190	2480
L	mm	390	420	390	450	535	440	440
M	mm	460	475	490	585	685	595	595
N	mm	460	475	490	585	685	595	595
R	mm	1100	940	1065	1150	1280	1185	1185
T	mm	1375	1500	1760	1510	1625	1695	1960
V	mm	1745	1540	1765	1575	1645	1695	1985
Z	mm	–	–	–	–	–	1340	1340
S1	mm	420	450	420	480	565	470	470
S2	mm	1060	900	1025	1110	1240	1145	1145
S3	mm	1260	1025	1150	1200	1270	1295	1445
S4	mm	1680	1475	1600	1535	1605	1675	1825
D int	mm	650	790	790	1100	1200	1350	1350
D ext	mm	890	1030	1030	1340	1440	1590	1590

MAXIS CD1	600F	800F	1000F	1500F	2000F	2500F	3000F
ErP Energy class	B	B	C	C	C	-	-
CODE	3060695	3060696	3060619	3060620	3060621		

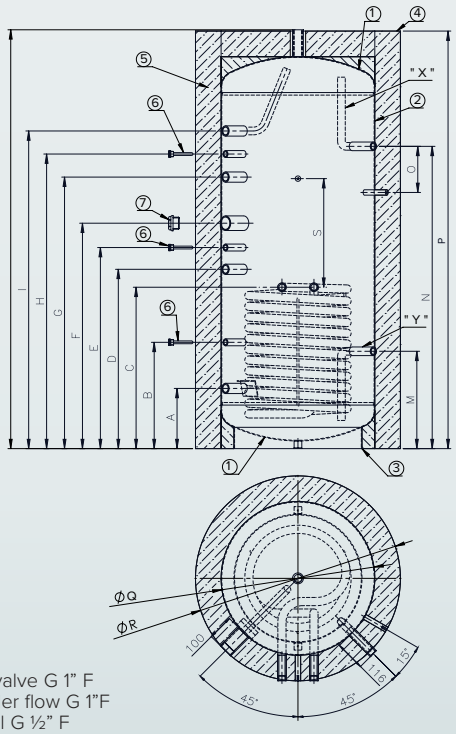
For the whole accessory list see page 83

Maxis CK1

MADE IN ITALY

Buffer cylinder for primary circuit water with coil

- 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 connession for air release system
- Designed for integration with Fresh Water Station and Solar Pump Group



1. Air valve G 1" F
2. Boiler flow G 1"F
3. Well G ½" F
4. Heating flow G 1"F
5. Heating element G 1 ½ " F
6. Well G ½" F
7. Return boiler G 1"F
8. Well G ½" F
9. Heating return G 1"F
10. M6 bolt for connection of digital solar pump group
11. Solar flow G ¾" F
12. Solar return G ¾" F
13. DHW production module return G ¾" F
14. M8 bolt for connection of DHW production group
15. DHW production module flow G ¾" F

TECHNICAL DATA		MAXIS CK1 400	MAXIS CK1 600	MAXIS CK1 800	MAXIS CK1 1000
Capacity	l	374	559	724	830
Maximum temperature	°C	95	95	95	95
Thermal loss (EN 60379)	kWh/24h	1,7	2,2	2,6	2,6
Maximum operating pressure	bar	3	3	3	3
Coil surface	m^2	1,5	2,1	2,8	3,4
Exchanger ouput	kW	21	25	32	32
Pressure loss through coil	mbar	15	19	27,9	34
Net Weight	kg	92	113	155	176
OVERALL DIMENSIONS					
A	mm	235	230	260	260
B	mm	415	405	500	500
C	mm	630	760	775	900
D	mm	700	815	855	980
E	mm	785	900	950	1075
F	mm	880	1000	1060	1185
G	mm	1060	1400	1315	1550
H	mm	1150	1550	1405	1640
I	mm	1240	1645	1495	1730
L	mm	1550	1865	1725	1975
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

MAXIS CK1	400	600	800	1000
ErP Energy class	B	C	C	C
CODE	3060460	3060461	3060462	3060463

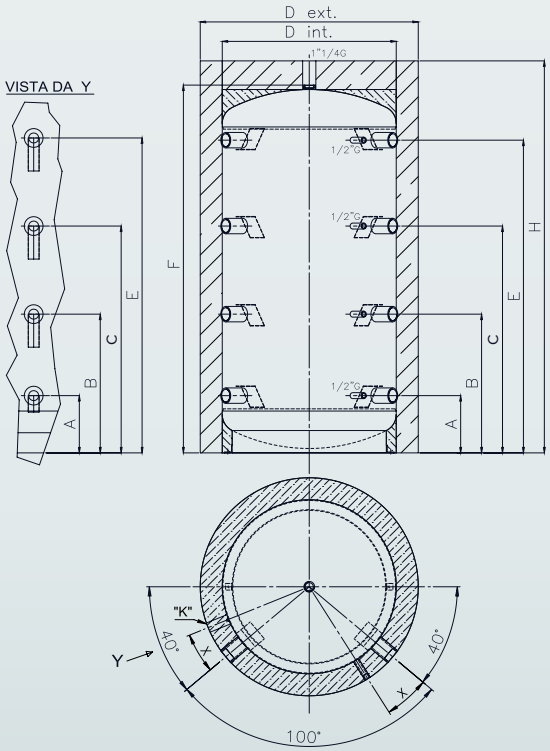
For the whole accessory list see page 83

Maxis CKZ

MADE IN ITALY

Buffer cylinder for primary circuit water, without coil

- / Black steel cylinder
- / 82” 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
- / 8 probe holders (4 immersed and 4 contact probe holders)



1. Primary ciurcuit connection G 2” F
2. Air release valve G 2” F
3. Probe well G ½ “

TECHNICAL DATA		MAXIS CKZ 1500	MAXIS CKZ 2000	MAXIS CKZ 2500	MAXIS CKZ 3000
Capacity	l	1460	1953	2463	2929
Max. working pressure	bar	6	6	6	6
Max. cylinder working temperature	°C	95	95	95	95
Thermal loss (EN 60379)	kWh/24h	3,1	3,6	4,2	4,6
Empty weight	kg	194	259	333	381
OVERALL DIMENSIONS					
A	mm	370	385	435	445
B	mm	815	790	775	800
C	mm	1340	1195	1110	1155
E	mm	1735	1600	1450	1510
F	mm	2060	1975	1875	1945
H	mm	2185	2100	2000	2070
D int	mm	1000	1200	1400	1500
D ext	mm	1240	1440	1640	1740

MAXIS CKZ	1500	2000	2500	3000
ErP Energy class	C	C	-	-
CODE	3060622	3060623	3060624	3060625

For the whole accessory list see page 83

EP1

MADE IN EUROPE

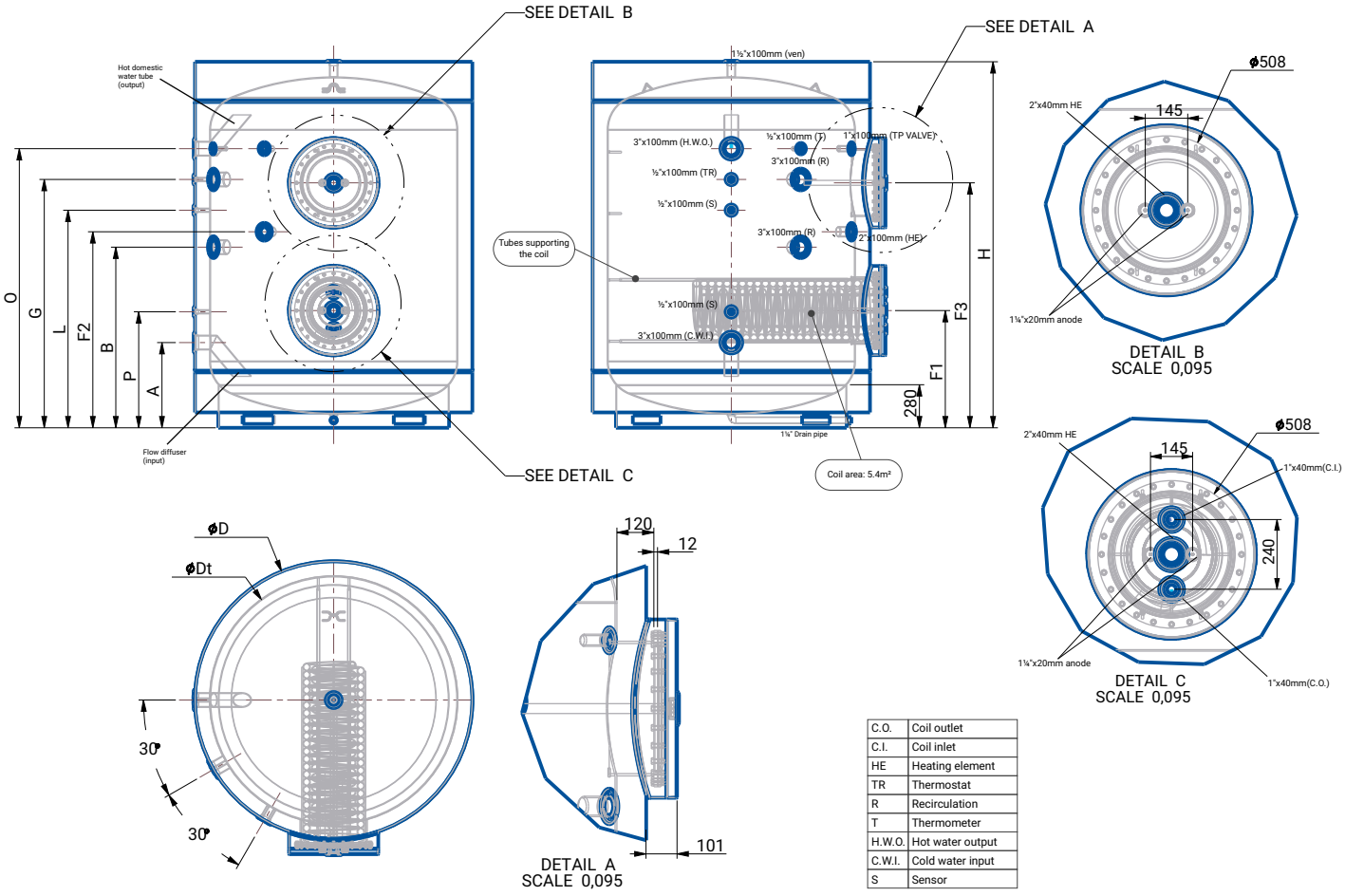
Single coil floor-standing cylinder

/ Epoxy Enameled coating WRAS approved
/ Maximum design pressure of 10 bar, tested at 20 bar
/ Automatic metal welding
/ Removable internal coil
/ Magnesium anti-corrosion anode
/ Soft Polyurethane foam Insulation; 100mm thickness
/ External Jacket options:
  - ➤ *PVC for standard installation*
  - ➤ *METAL for outdoor installation to protect against weather conditions*
/ Drain connection
/ Recirculation connection
/ Inspection and maintenance flanges 508 mm
  - ➤ *2 for up to 5000 L*
  - ➤ *3 for 7000 L*
/ Optional heating element kits
  - ➤ *3, 12, 24, 36 kW*

TECHNICAL DATA		EP1 3000	EP1 4000	EP1 5000	EP1 7000
Actual Tank Capacity	l	3457	3877	4887	7169
Maximum design pressure	bar	10	10	10	10
Working pressure	bar	8	8	8	8
Maximum operating Temperature	°C	85	85	85	85
Thermal Losses [W]	W	255	357	384	597
Tank Weight (Including weight of coils)	kg	790	1005	1095	1622
Number of Coils		1	1	1	1
Coil Weight	kg	110	110	110	127
Coil Capacity	l	33	33	33	51,5
Coil Surface Area	m2	5,4	5,4	5,4	7,8
Coil Thermal Capacity	kW	133	133	133	192
Coil Pressure Drop at 1000 l/hr flow	kpa	53	53	53	73
Coil Pressure Rating	bar	25	25	25	25
Number of flange/ hole diameter/ External diameter	mm	2/420/508	2/420/508	2/420/508	3/420/508
Insulation			100 mm removable soft Polyurethane foam		
Inner tank			Epoxy Enamelled coating		
External cover			Soft PVC / Metal sheet		
OVERALL DIMENSIONS					
B	mm	735	1174	1125	1219
A	mm	535	554	565	609
O	mm	1795	1814	2325	2659
G	mm	1595	1614	2125	2409
P	mm	735	754	765	859
L	mm	1395	1414	1545	2049
F1	mm	744	762	825	804
F2	mm	1235	1274	1280	1319
F3	mm	1574	1592	1655	1634
F4	mm	-	-	-	1319
H	mm	2330	2379	2890	3291
D	mm	1700	1800	1800	2000
Dt	mm	1500	1600	1600	1800

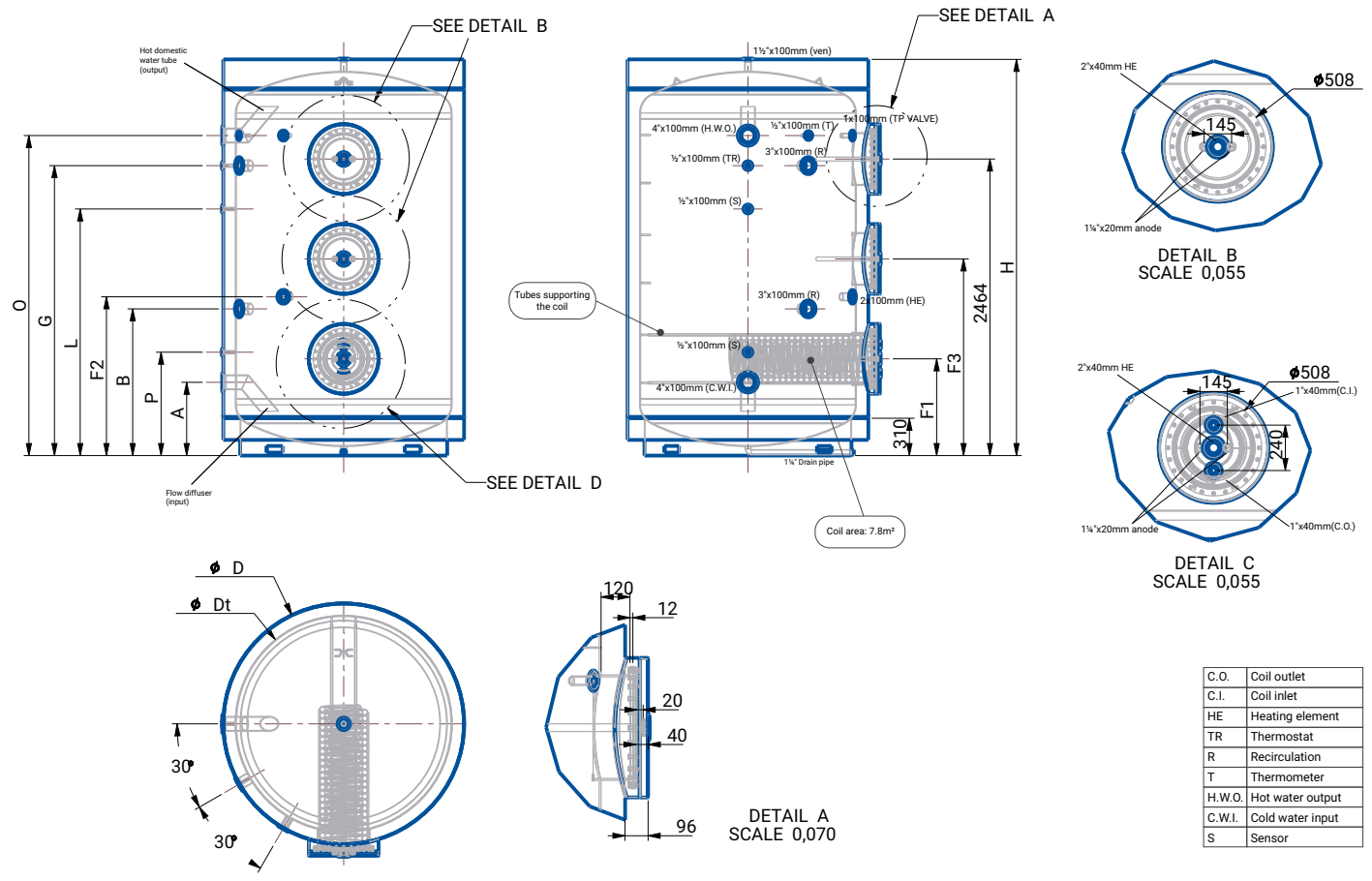
EP1		EP1 3000	EP1 4000	EP1 5000	EP1 7000
CODE					
PVC		3060716	3060722	3060740	3060745
METAL		3060717	3060723	3060741	3060748

EP1 3000 - 5000



C.O.	Coil outlet
C.I.	Coil inlet
HE	Heating element
TR	Thermostat
R	Recirculation
T	Thermometer
H.W.O.	Hot water output
C.W.I.	Cold water input
S	Sensor

EP1 7000



C.O.	Coil outlet
C.I.	Coil inlet
HE	Heating element
TR	Thermostat
R	Recirculation
T	Thermometer
H.W.O.	Hot water output
C.W.I.	Cold water input
S	Sensor

EP2

MADE IN EUROPE

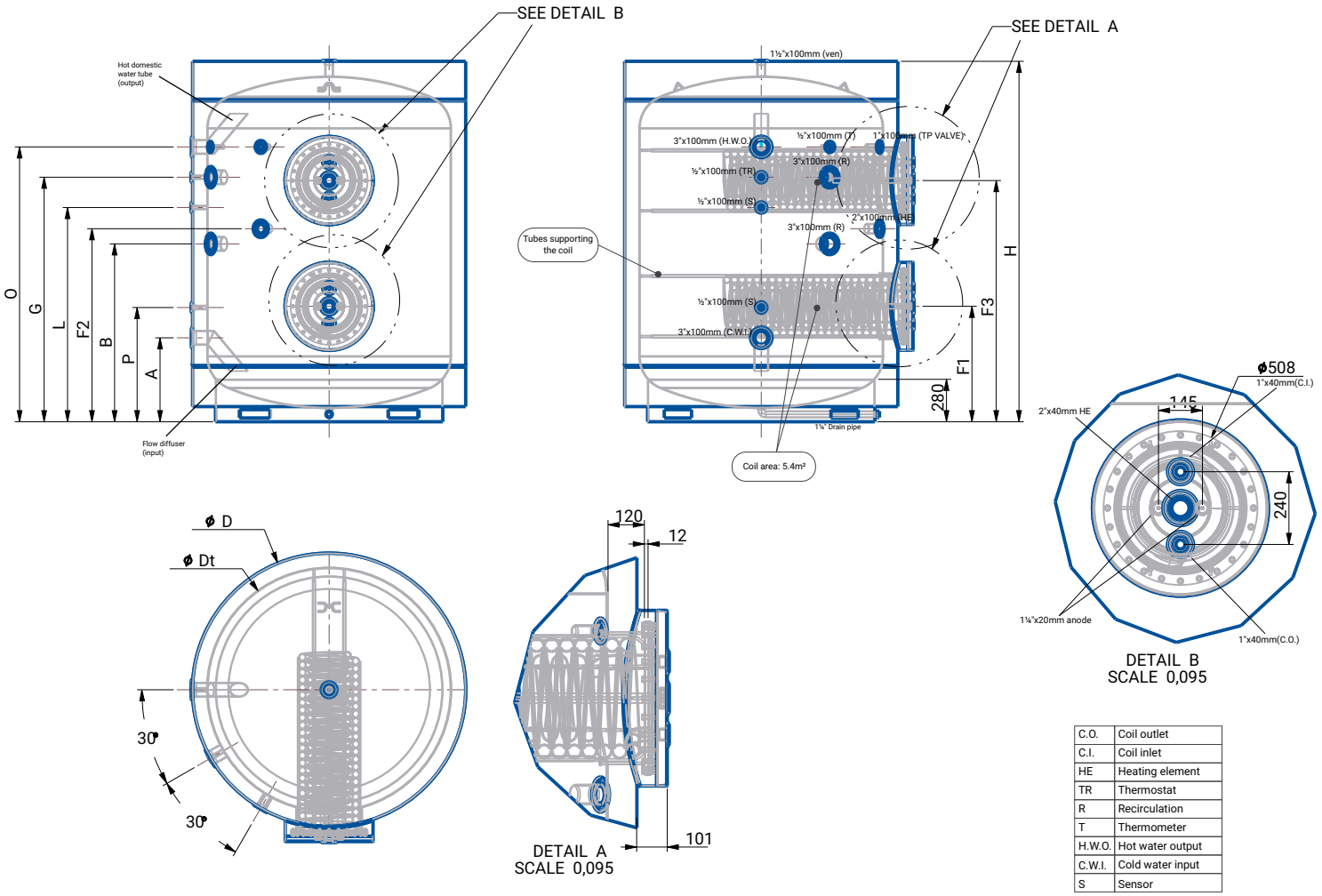
Double coil floor-standing cylinder

/ Epoxy Enameled coating WRAS approved
/ Maximum design pressure of 10 bar, tested at 20 bar
/ Automatic metal welding
/ Removable internal coils
/ Magnesium anti-corrosion anode
/ Soft Polyurethane foam Insulation; 100mm thickness
/ External Jacket options:
  - ➤ *PVC for standard installation*
  - ➤ *METAL for outdoor installation to protect against weather conditions*
/ Drain connection
/ Recirculation connection
/ Inspection and maintenance flanges 508 mm
  - ➤ *2 for up to 5000 L*
  - ➤ *3 for 7000 L*
/ Optional heating element kits
  - ➤ *3, 12, 24, 36 kW*

TECHNICAL DATA		EP2 3000	EP2 4000	EP2 5000	EP2 7000
Actual Tank Capacity	l	3424	3844	4854	7117
Maximum design pressure	bar	10	10	10	10
Working pressure	bar	8	8	8	8
Maximum operating Temperature	°C	85	85	85	85
Thermal Losses [W]	W	241	333	359	555
Tank Weight (Including weight of coils)	kg	900	1115	1205	1779
Number of Coils		2	2	2	2
Coil Weight	kg	110	110	110	127
Coil Capacity	l	33	33	33	51,5
Coil Surface Area	m2	5,4	5,4	5,4	7,8
Coil Thermal Capacity	kW	133	133	133	192
Coil Pressure Drop at 1000 l/hr flow	kpa	53	53	53	73
Coil Pressure Rating	bar	25	25	25	25
Number of flange/ hole diameter /External diameter	mm	2/420/508	2/420/508	2/420/508	3/420/508
Insulation			100 mm removable soft Polyurethane foam		
Inner tank			Epoxy Enamelled coating		
External cover			Soft PVC / Metal sheet		
OVERALL DIMENSIONS					
B	mm	735	1174	1125	1219
A	mm	535	554	565	609
O	mm	1795	1814	2325	2659
G	mm	1595	1614	2125	2409
P	mm	735	754	765	859
L	mm	1395	1414	1545	2049
F1	mm	744	762	825	804
F2	mm	1235	1274	1280	1319
F3	mm	1574	1592	1655	1634
F4	mm	-	-	-	1319
H	mm	2330	2379	2890	3291
D	mm	1700	1800	1800	2000
Dt	mm	1500	1600	1600	1800

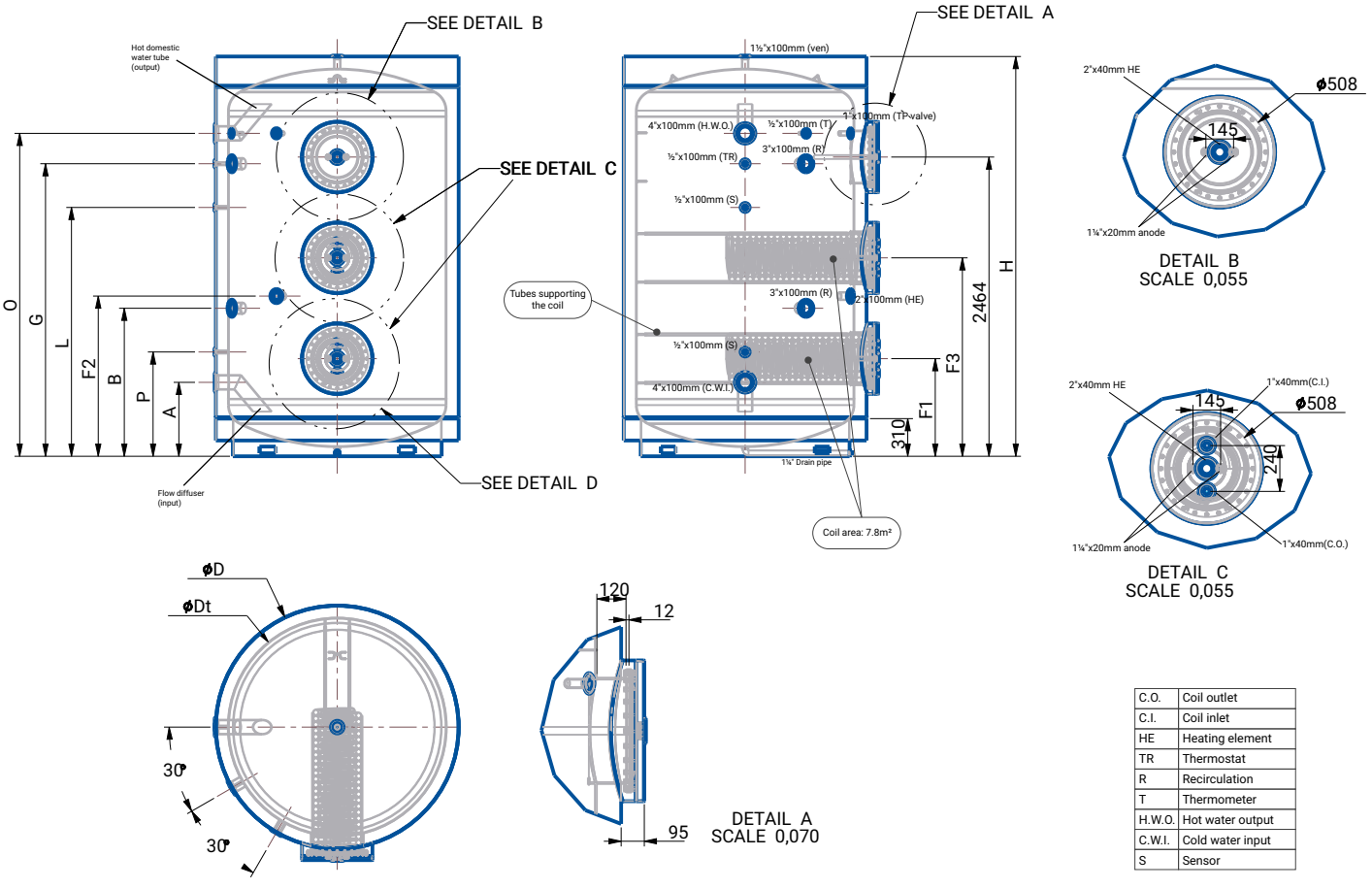
EP2	EP2 3000	EP2 4000	EP2 5000	EP2 7000
CODE				
PVC	3060718	3060724	3060742	3060746
METAL	3060719	3060725	3060743	3060749

EP2 3000 - 5000



C.O.	Coil outlet
C.I.	Coil inlet
HE	Heating element
TR	Thermostat
R	Recirculation
T	Thermometer
H.W.O.	Hot water output
C.W.I.	Cold water input
S	Sensor

EP2 7000



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EPZ

MADE IN EUROPE

Floor-standing cylinder without coil

/ Epoxy Enameled coating WRAS approved
/ Maximum design pressure of 10 bar, tested at 20 bar
/ Automatic metal welding
/ Magnesium anti-corrosion anode
/ Soft Polyurethane foam Insulation; 100mm thickness
/ External Jacket options:
  - ➤ *PVC for standard installation*
  - ➤ *METAL for outdoor installation to protect against weather conditions*
/ Drain connection
/ Recirculation connection
/ Inspection and maintenance flanges 508 mm
  - ➤ *2 for up to 5000 L*
  - ➤ *3 for 7000 L*
/ Optional heating element kits
  - ➤ *3, 12, 24, 36 kW*

TECHNICAL DATA		EPZ 3000	EPZ 4000	EPZ 5000	EPZ 7000
Actual Tank Capacity	l	3490	3910	4920	7220
Maximum design pressure	bar	10	10	10	10
Working pressure	bar	8	8	8	8
Maximum operating Temperature	°C	85	85	85	85
Thermal Losses	W	294	357	395	606
Tank Weight	kg	680	895	985	1465
Number of flange/ hole diameter /External diameter	mm	2/420/508	2/420/508	2/420/508	3/420/508
Insulation			100 mm removable soft Polyurethane foam		
Inner tank			Epoxy Eamelled coating		
External cover			Soft PVC / Metal sheet		
OVERALL DIMENSIONS					
B	mm	735	1174	1125	1219
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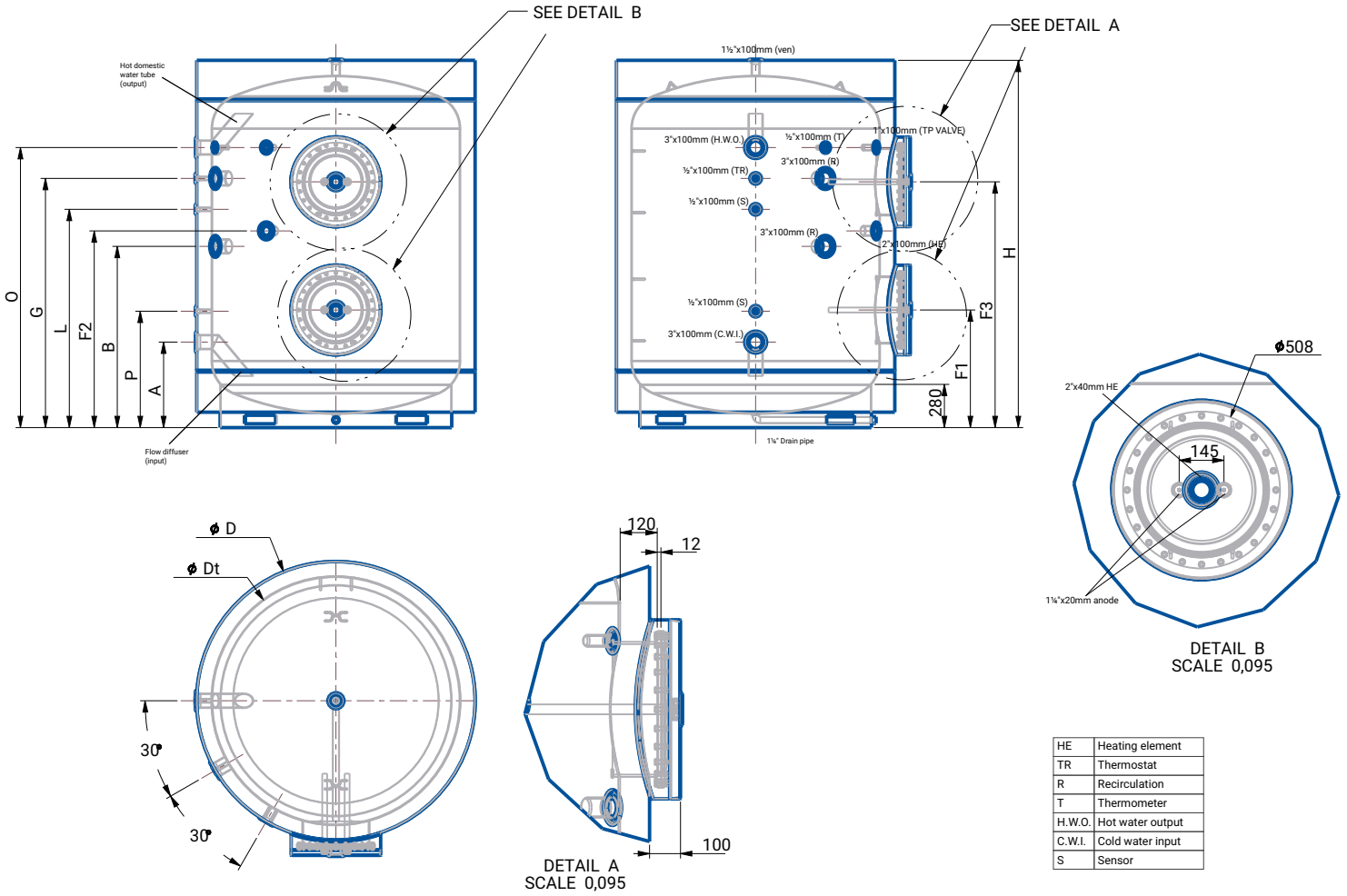
D	mm	1700	1800	1800	2000
Dt	mm	1500	1600	1600	1800

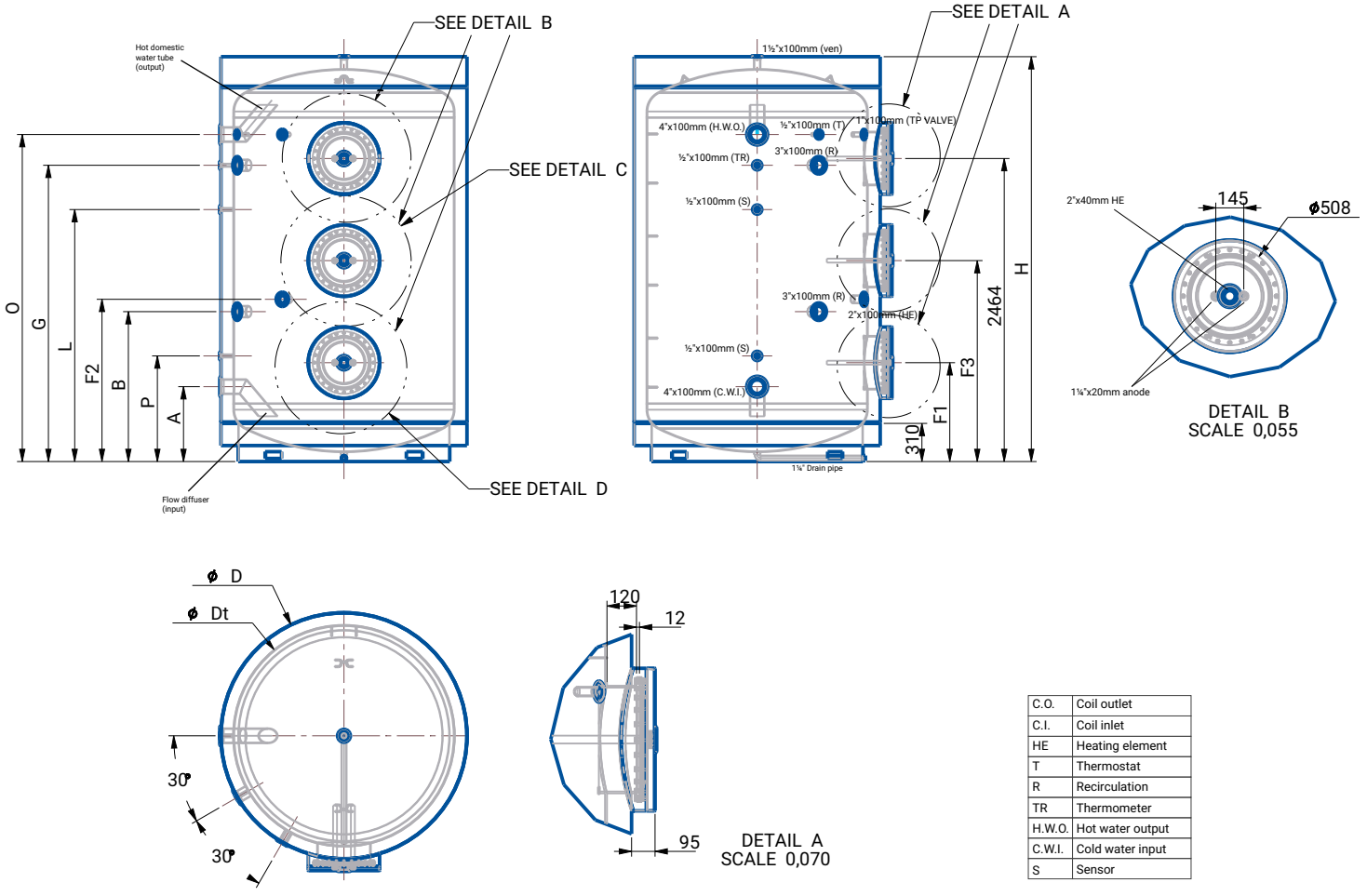
EPZ	EPZ 3000	EPZ 4000	EPZ 5000	EPZ 7000
CODE				
PVC	3060714	3060720	3060738	3060744
METAL	3060715	3060721	3060739	3060747

EPZ 3000 - 5000



HE	Heating element
TR	Thermostat
R	Recirculation
T	Thermometer
H.W.O.	Hot water output
C.W.I.	Cold water input
S	Sensor

EPZ 7000



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Cylinder Accessories

Description	Code	BC1S 7B	BC2S 7B	BCH EE	CDZ	CD1	CD1 F	CD2 F	CK1	BDR
NEW ELECTRIC KIT 2 kW 230V 1 1/2"	3078222	●	●							
NEW ELECTRIC KIT 6 KW 230-400V - 1 1/2"	3078223	● (only 450l)	● (only 450l)							
ELECTRIC KIT BDR CDS 1,5 KW-230V	3078069									●
ELECTRIC KIT BDR CDS 2,5 KW-230V	3078070									●
ELECTRIC KIT BDR CDS 2,5 KW-TRI	3078071									●
ELECTRIC KIT 3 KW 230-400V	3105046				●	●	●	●	●	
ELECTRIC KIT 12 KW 400V	3078157				●	●	●	●		
ELECTRIC KIT 24 KW 400V	3078158				●	●*	●**	●**		
ELECTRIC KIT 36 KW 400V	3078159				●	●*				
FLANGE DN 400 FOR ELECTRIC KIT INST	3105044				●	●				
FLANGE DN 168 FOR ELECTRIC KIT INST	3105045						●	●		
Safety Groups	**Code**	**BC1S 7B**	**BC2S 7B**	**BCH EE**	**CDZ**	**CD1**	**CD1 F**	**CD2 F**	**CK1**	**BDR**
SAFETY GROUP 3/4"	877085			●						●
SAFETY GROUP 1"	885516	●	●							
SIPHON	877086			●						●

*3105044 mandatory
**3105045 mandatory

How to read the symbols

The icons have been designed to facilitate the reading of the features of each product. Ariston makes it possible, from the very beginning, to quickly and easily identify performance levels, understand the different ranges and evaluate purchasing criteria.

In short, users can familiarise themselves with each machine without becoming confused or wasting time, in line with the Ariston philosophy of always offering the customer - and the professional technician - a service which is clear and easy to use.

SUPER SILENT

Silent functioning, respectful of the quiet of your everyday life

ENERGY EFFICIENT

Better exploitation of energy and renewable sources, enhanced performance

ITALIAN DESIGN

The elegant aesthetics is designed in collaboration with Italian designers, an attention to details that dares to be shown off

SYSTEM MANAGEMENT

Manage all Ariston products connected in system thanks to BusBridgeNet® technology

MADE IN EUROPE

Made in Europe

ANTI-CORROSION

Longer durability and high performance thanks to the anti-corrosion Pro-tech technology

EASY INSTALLATION

Installation time and process optimized in cooperation with experts and professionals

SOLAR INTEGRATION

It can be connected in system with Ariston solar-sourced products

MADE IN ITALY

Made in Italy

AG+ COATING

AG+ cartridge technology with antibacterial capability that actively stop the proliferation of E-Coli, Salmonella, Legionella, Mould Fungi & More.

EASY INSPECTION
Large inspection flange for an easier access to the internal components of the products

OUTDOOR INSTALLATION
Designed to be safely installed outside, resistant to all kinds of weather

COMPACT SIZE
Compact design with reduced dimensions for an easy fit at your home

EASY MAINTENANCE
Frontal access to all main components

ECO EVO FUNCTION
Automatic setting of its functioning based on your habits and needs of hot water

ANTI-LEGIONELLA
Automatic water heating cycle to prevent bacterial growth

ANTI-FREEZING
Works at cold temperature

INVERTER TECHNOLOGY
Frequency modulation of the external unit compressor

SOLAR KEYMARK
Compliant with European quality certification for solar systems

ELECTRONIC TEMPERATURE MANAGEMENT
Electronic control panel for easier, more intuitive operation.

TITANIUM PLUS
Longer durability and resistance to corrosion thanks to the Titanium enameling of the water tank

INTEGRATION WITH PHOTOVOLTAIC SYSTEM
Connection with photovoltaic systems

Wi-Fi
Smart Connectivity - Aqua Ariston Net App

WATER PLUS
It keeps the incoming cold water at the bottom of the tank to ensure reduced mixing with stored hot water

ABSOLUTE SAFETY SYSTEM
It is a set of functions preserving the good functioning of the product in case of energy or water failures

INCOLOY ENAMELED HEATING ELEMENT
It is corrosion resistant and reduces limescale

TITAN SHIELD
It is an anti-corrosion and rust-resistant protective technology which prevents the surface from corroding even when it is in contact with warm water

DIGIT DISPLAY
Easy interaction and easy temperature management thanks to the advanced hi-tech digit display

LED DISPLAY
Simple and intuitive multifunction LED display

DOUBLE SAFETY THERMOSTAT
In case of malfunctioning, the precise thermostat blocks heating cycle before reaching too high temperature

HIGH EFFICIENCY INSULATION
Premium and robust environmental-friendly insulation material made up of Cyclopentane

DISPLAY ECO
Frontal led control panel with smart thermometer

SHOWER READY
It shows when enough water has been heated for a shower

i-MEMORY
Function that learns your habits and choses accordingly the best option between utilizing the renweable energy of the heat pump, and activating the heating element

DRY HEATING ELEMENT
The heating element is not in direct contact with water for long lasting durability and limescale protection

SAFETY PACKAGE
Set of functions preserving the good functioning of the product in case of energy or water failures

HAIL-PROOF
Hail-resistant thick glass

STABLE TEMPERATURE
Outlet temperature remains stable even in the case of flow rate variation

IP25 WATERPROOF
The TOP level in water protection guarantees a safety installation in shower box

CONSTANT TEMPERATURE
Hot water and constant temperature right when you need them, in every condition and regardless of any external factor (water flow, water's original temperature)

SINGLE POINT
It is corrosion resistant and reduces limescale

MULTI POINT
Can supply more water points at the same time (pressurized)

FLAT
Low depth for space saving and easy fitting at your home

ELECTRONIC TEMPERATURE MANAGEMENT
Electronic thermostat ensures an increase of energy saving and prevents scalding thanks to anti-overheating features.

POWER AND TEMPERATURE MANAGEMENT
Flow regulation knob plus temperature regulation knob and 4 steps axial regulation power to set the desired energy consume

MUTIPOSITION
Flexible installation, vertical or horizontal position

PERFORMANCE PLUS
Enhanced performance thanks to the high quality material selection to increase heat absorption and limit heat dispersion

EXTERNAL TEMPERATURE REGULATION
EXTERNAL POWER REGULATION
Easy setting of the temperature/power, thanks to the external controller

ARISTON SERVICE

After-sales service

First class service

Ariston service model is designed to offer efficiency and professionalism to all its customers.

Genuine Ariston spare parts

All Ariston spare parts are built and tested to guarantee the best possible quality and the reliability of your Ariston product. Using genuine Ariston spare parts and components is the only way to keep your system at its best, fulfilling legal and warranty requirements.

Maximum peace of mind

Ariston gives you the assurance of long-term product quality and safety, and in case of any potential problem it ensures that everything will be dealt with quickly and professionally.

Look up the closest service center at **ariston.com/me**
or call the Ariston Customer Service at the **toll-free number 800-2747866**


ARISTON
SERVICE

ariston.com