

Ariston is a member of the MTS Group

a leading international company focussed on manufacturing and delivering a complete range of heating and water heating systems and services.



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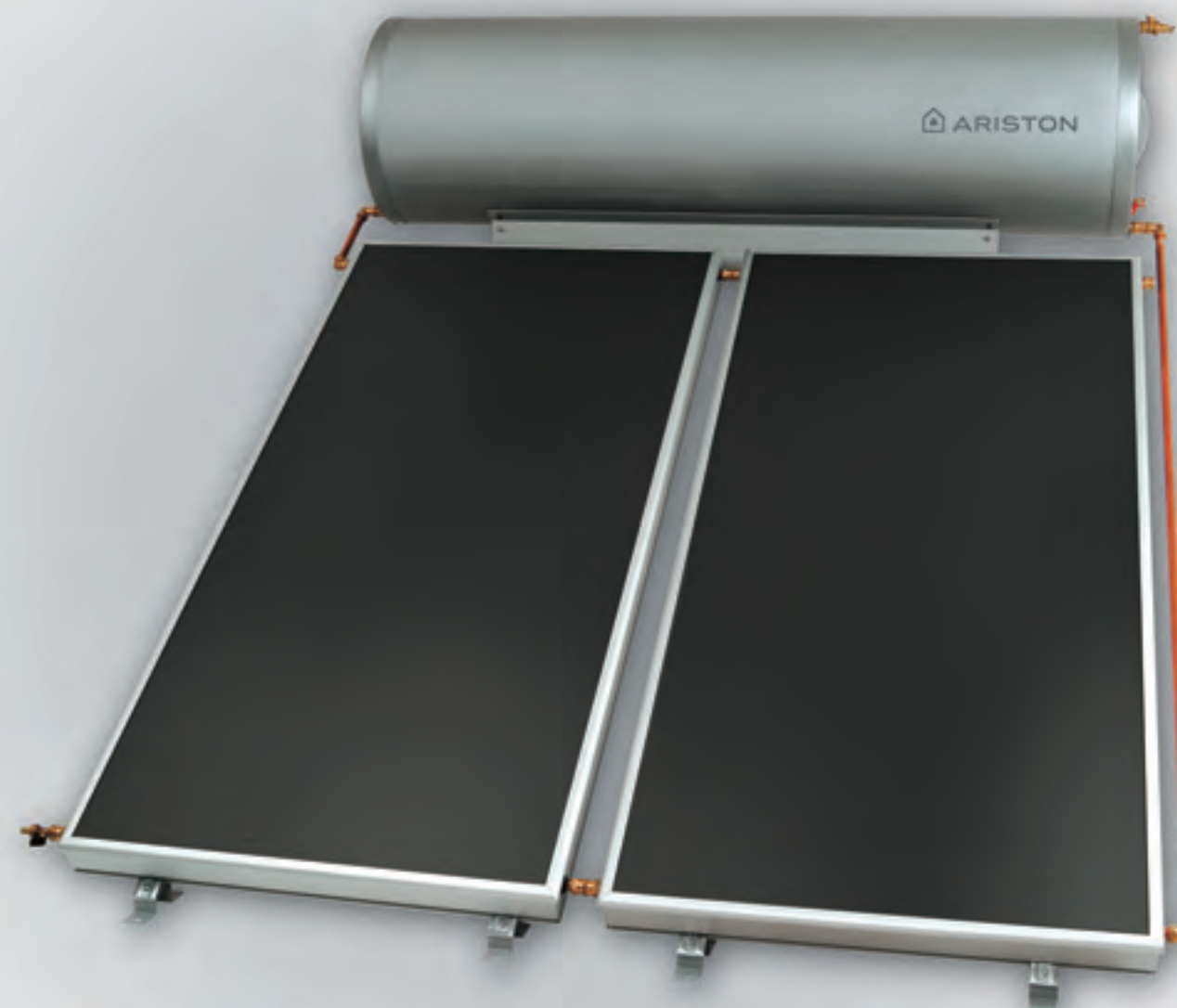
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ARISTON

MARCH 2006 EDITION

SOLAR SYSTEMS GENERAL CATALOGUE



Solar heating

A carefully-considered choice



“Clean” energy with zero emissions

The answer is an easy one: because it is an energy source with zero emissions. It therefore contributes to the reduction of atmospheric pollution, in particular by limiting the greenhouse effect (carbon dioxide emitted by traditional sources of energy is the main cause of this effect). In actual fact: your child will thank you in the future for the solar panels you install today, and your grandchildren will thank you even more.

In practice, their well-being (in addition to your own well-being) will have cost a surprisingly small amount. Solar heating is now a mature technology which offers great advantages in correspondence with a contained commitment. It offers simple installation, perfect integration with traditional heating systems and reduced maintenance requirements. A better world is just around the corner. Why wait?

How do you reconcile domestic well-being with the desire for a cleaner environment outside the home?
Thanks to solar energy, this is no longer so difficult.
This is why Ariston, a world leader in household heating systems, has created a new range of solar heating components and solutions.

But why solar energy?



A few years to recuperate the cost, then you will never pay for water again

It is true: the environmental advantages provide a convincing argument in favour of solar heating. This is not the only argument, however. There is also a practical advantage, which we will now explore. The calculation used is a simple one: one solar-powered system can meet up to 70% of a household's domestic hot water requirements. Depending on the solar radiation conditions (these are usually good for the whole of Italy) and the type of fuel replaced by this energy, the time it takes to redeem the cost of the system varies between 3 and 5 years.



The ideal solution for every type of solar radiation

The absorber used in Ariston Solar panels is supplied in two different versions: a Basic version and a Top version. The former involves a black selective paint treatment, aimed at installation locations which are subjected to strong solar radiation or which will mostly be used in the summer months. The TOP version, on the other hand, undergoes a special treatment which increases its yearly output efficiency by 20 - 30%. The TOP panel is therefore the ideal product for use in locations where solar radiation is weaker, in situations where the panels are used all year round or where site restrictions prevent the installation of a large number of collectors.

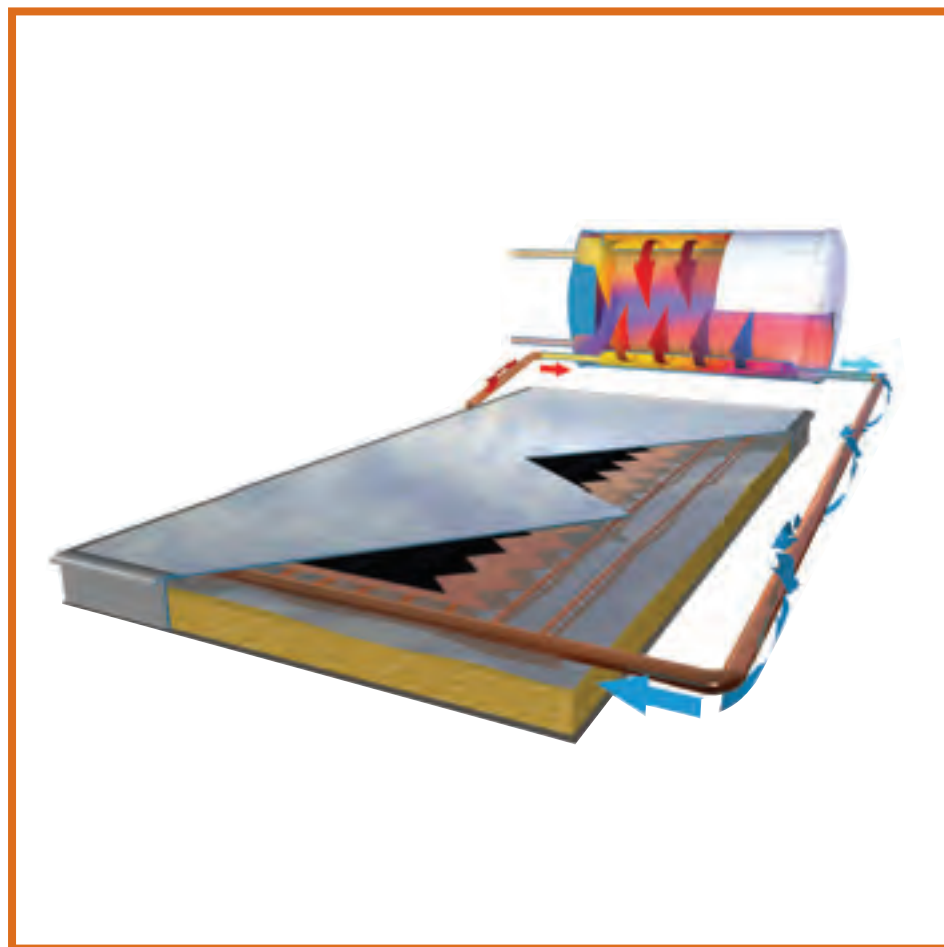
Anyone who opted for solar power three to five years ago will now be taking their baths for free

A saving of 1500 to 2005 Euros over a period of 5 years*

*this may vary according to local energy costs

A family of four using this system, which saves on hot water production, will recuperate the cost of purchasing the solar-powered system within 3 to 5 years. After this, the production of hot water will be completely free for ever.

What is a natural circulation system?



Advantages

Easy installation system.
Simple system: the system can be connected simply by using pipes for the cold water inlet and the hot water outlet.
No electrical connection is required.
Reduced maintenance needs.

Main target area.
Small-scale users and families.

There are two types of solar-heated systems: natural circulation and forced circulation systems. The choice of system depends on the type of use for which it is intended. The natural circulation system is the most simple and energy-efficient model. It operates according to a basic principle of physics: a liquid, if heated, becomes lighter and tends to rise upwards. In a natural circulation system the fluid contained in the pipes inside the panel rises towards the storage tank exchanger and transmits heat to it, while the cold liquid travels back down towards the solar collector. When there is no solar radiation the fluid in the collector, which is weighed down, blocks circulation and avoids the dispersion of the heat accumulated in the storage tank. The only compulsory requirement is that the indirect cylinder is placed in a higher position than the collectors so that the fluid is able to rise.

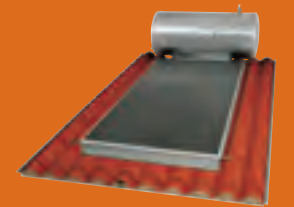
Solar kit

designed for
2-3 people

Solar-powered system 150/1
TR CN fixed to the ground
(TOP or BASIC)



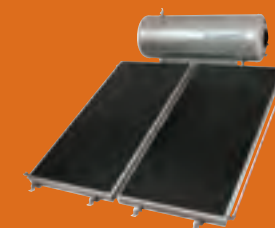
Solar-powered system 150/1
TT CN fixed to the rooftop
(TOP or BASIC)



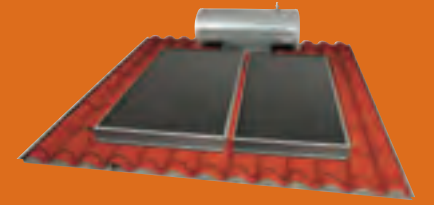
Solar kit

designed for
3-4 people

Solar-powered system 200/2
TR CN fixed to the ground
(TOP or BASIC)



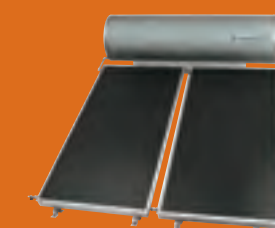
Solar-powered system 200/2
TT CN fixed to the rooftop
(TOP or BASIC)



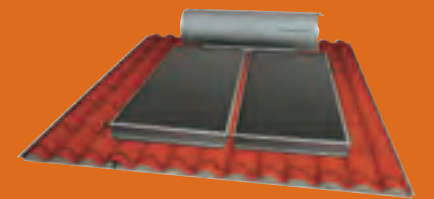
Solar kit

designed for
4-5 people

Solar-powered system 300/2
TR CN fixed to the ground
(TOP or BASIC)



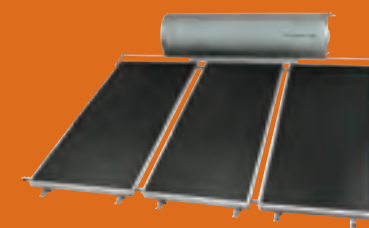
Solar-powered system 300/2
TT CN fixed to the rooftop
(TOP or BASIC)



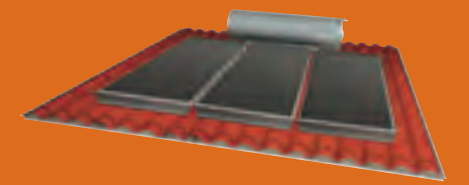
Solar kit

designed for
5-6 people

Solar-powered system 300/3
TR CN fixed to the ground
(TOP or BASIC)



Solar-powered system 300/3
TT CN fixed to the rooftop
(TOP or BASIC)



What is a forced circulation system?



Advantages

Flexibility: the indirect cylinder can be installed in any room of the house, and the panels positioned in the most suitable location for maximum insolation.

Main target area.
Suitable for larger-scale users.

In a solar heated system it is not always possible or convenient to place the indirect cylinder in a higher position than the panels. When this situation occurs, the liquid cannot flow towards the storage tank exchanger independently. A circulation pump, controlled by an electronic control unit, therefore becomes necessary. The control unit monitors the temperature of the panels and of the boiler constantly using two sensors, powering the circulation pump only when the liquid in the panels is hotter than the liquid in the storage tank.

Solar kit

designed for
3-4 people

Solar kit

designed for
3-4 people

Solar kit

designed for
5-6 people

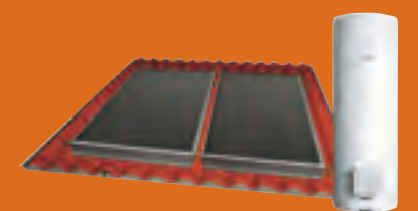
Solar kit

designed for
5-6 people

Solar-powered system 200/2
TR CF1 fixed to the ground
(TOP or BASIC)



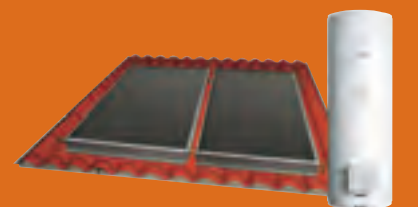
Solar-powered system 200/2
TT CF1 fixed to the rooftop
(TOP or BASIC)



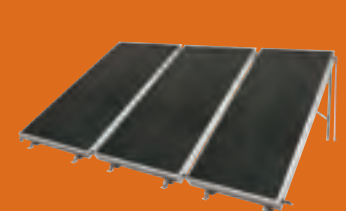
Solar-powered system 200/2
TR CF2 fixed to the ground
(TOP or BASIC)



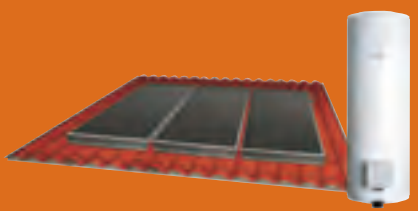
Solar-powered system 200/2
TT CF2 fixed to the rooftop
(TOP or BASIC)



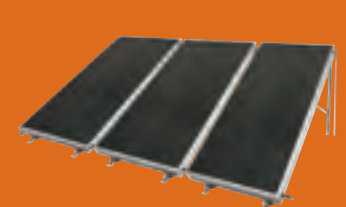
Solar-powered system 300/3
TR CF1 fixed to the ground
(TOP or BASIC)



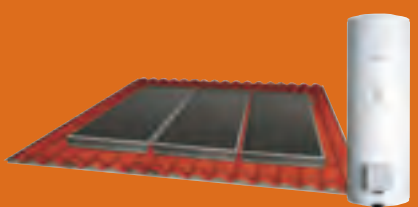
Solar-powered system 300/3
TT CF1 fixed to the rooftop
(TOP or BASIC)



Solar-powered system 300/3
TR CF2 fixed to the ground
(TOP or BASIC)



Solar-powered system 300/3
TT CF2 fixed to the rooftop
(TOP or BASIC)



Ariston: the safety and the range of products offered by a market leader

Choosing the solar heated system is a significant decision. There is therefore only one way to do it: rely on a company which guarantees quality, experience and safety. Ariston has been a world leader in the domestic heating sector for over forty years. It has evolved in line with the progress made in the field of well-being and the improvement in the quality of life of millions of people all over the world.

More specifically, Ariston has guided - and is still guiding - the technological and commercial development of the sector through the introduction of continuous and important innovations. All this is now translated into a range of products and services which truly offer - as the brand payoff states - "the best climate there is". This domination is expressed in avant-garde solutions for the global organisation of domestic well-being and in the exclusive services available for the maximum satisfaction of operators and users.

This, combined with the quality and skills offered by Ariston, has now spread to the solar-heated system range, where the know-how and experience in the field of domestic heating developed during decades of leadership is fully applied. For this reason, the Ariston solar-powered system does not simply represent an environmentally-friendly solution for well-being; your choice also guarantees long-term reliability, assistance and safety.

Quality and efficiency applied to large-scale production



NATURAL CIRCULATION



FORCED CIRCULATION



GROUND INSTALLATION



ROOFTOP INSTALLATION



SUITABLE FOR (NO. OF) PEOPLE



MINERAL WOOL INSULATION



HIGH ABSORPTION



ENVIRONMENTALLY FRIENDLY



LONG-LIFE



ANTI-CORROSION



TEMPERATURE DISPLAY

In this catalogue

SOLAR KITS

NATURAL CIRCULATION SOLAR KITS

- 12_Ground installation solar kit 150/1 TR CN (Basic and Top)
- 13_Rooftop installation solar kit 150/1 TT CN (Basic and Top)
- 14_Ground installation solar kit 200/2 TR CN (Basic and Top)
- 15_Rooftop installation solar kit 200/2 TT CN (Basic and Top)
- 16_Ground installation solar kit 300/2 TR CN (Basic and Top)
- 17_Rooftop installation solar kit 300/2 TT CN (Basic and Top)
- 18_Ground installation solar kit 300/3 TR CN (Basic and Top)
- 19_Rooftop installation solar kit 300/3 TT CN (Basic and Top)

FORCED CIRCULATION SOLAR KITS

- 20_Ground installation solar kit 200/2 TR CF1 (Basic and Top)
- 21_Rooftop installation solar kit 200/2 TT CF1 (Basic and Top)
- 22_Ground installation solar kit 200/2 TR CF2 (Basic and Top)
- 23_Rooftop installation solar kit 200/2 TT CF2 (Basic and Top)
- 24_Ground installation solar kit 300/3 TR CF1 (Basic and Top)
- 25_Rooftop installation solar kit 300/3 TT CF1 (Basic and Top)
- 26_Ground installation solar kit 300/3 TR CF2 (Basic and Top)
- 27_Rooftop installation solar kit 300/3 TT CF2 (Basic and Top)

SOLAR COMPONENTS

- 28_Solar collectors
- 29_Solar indirect cylinder with air pocket
- 30_BS1S - Solar indirect cylinder with single coil
- 31_BS2S - Solar indirect cylinder with double coil
- 32_BDR - Multi-position indirect cylinder with air pocket

ACCESSORIES

- 33_FOR NATURAL CIRCULATION
Connection kits, frames, thermometers
- 34_FOR FORCED CIRCULATION
Control unit, circulation assembly, connection kits, frames
- 35_FOR SOLAR INDIRECT CYLINDERS
Electrical kits

SOLAR KITS



150/1 TR CN BASIC 150/1 TR CN TOP



BASIC 150 L COLLECTOR SOLAR KIT
TOP 150 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
2-3 PEOPLE

BASIC 150 L COLLECTOR KIT "150/1 TR CN BASIC"
consists of:
BASIC SOLAR COLLECTOR
CNA1R 150 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 150-1
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 150-1

TOP 150 L COLLECTOR KIT "150/1 TR CN TOP"
consists of:
TOP SOLAR COLLECTOR
CNA1R 150 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 150-1
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 150-1

- COLLECTOR APERTURE AREA 1.8 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA1R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

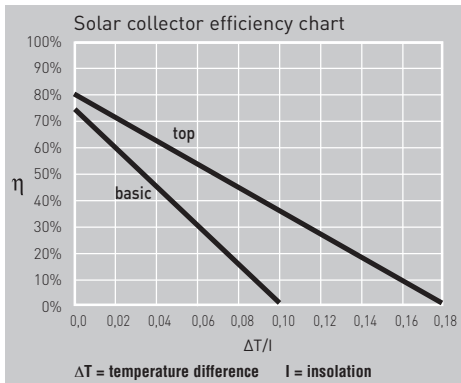
*150 litres
of hot water
1 collector*

Indicative performance values

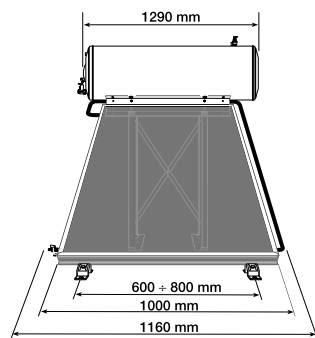
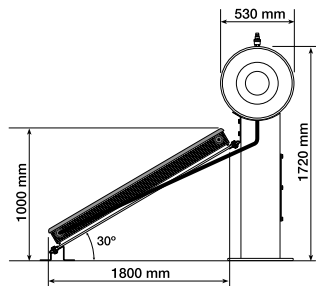
	Average energy supplied Annual usage (kWh/day)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	3-4	140-100	60-80
Central Italy	3-4	110-85	70-100
Southern Italy	4-5	100-70	90-120

	Average energy supplied Summer usage (kWh/day)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	5-7	70-50	120-160
Central Italy	6-8	65-50	140-180
Southern Italy	7-9	50-40	160-200

For technical data relating to solar components please see pages 28, 29, 33



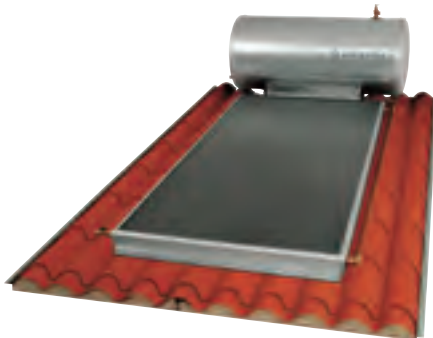
MODEL	150/1 TR CN BASIC	150/1 TR CN TOP
CODE	3104000	3104002



SOLAR KITS



150/1 TT CN BASIC 150/1 TT CN TOP



BASIC 150 L COLLECTOR SOLAR KIT
TOP 150 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
2-3 PEOPLE

BASIC 150 L COLLECTOR KIT "150/1 TT CN BASIC"
consists of:
BASIC SOLAR COLLECTOR
CNA1R 150 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 150-1
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 150-1

TOP 150 L COLLECTOR KIT "150/1 TT CN TOP"
consists of:
TOP SOLAR COLLECTOR
CNA1R 150 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 150-1
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 150-1

- COLLECTOR APERTURE AREA 1.8 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA1R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

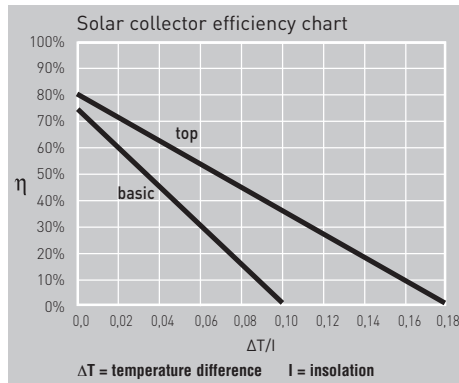
*150 litres
of hot water
1 collector*

Indicative performance values

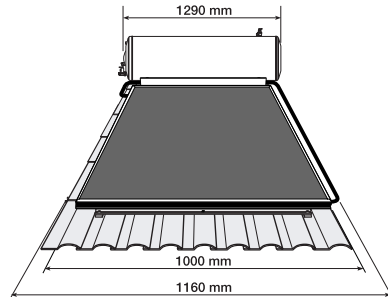
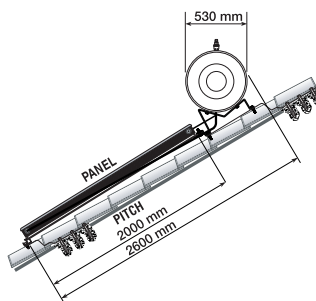
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	3-4	140-100	60-80
Central Italy	3-4	110-85	70-100
Southern Italy	4-5	100-70	90-120

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	5-7	70-50	120-160
Central Italy	6-8	65-50	140-180
Southern Italy	7-9	50-40	160-200

For technical data relating to solar components please see pages 28, 29, 33



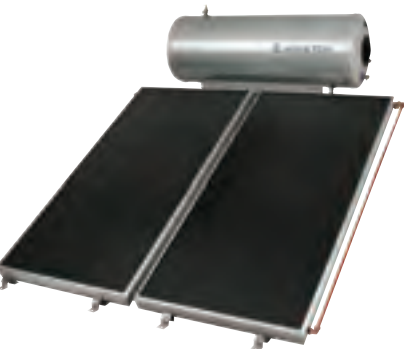
MODEL	150/1 TT CN BASIC	150/1 TT CN TOP
CODE	3104001	3104003



SOLAR KITS



200/2 TR CN BASIC 200/2 TR CN TOP



BASIC 200 L COLLECTOR SOLAR KIT TOP 200 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
3-4 PEOPLE

BASIC 200 L COLLECTOR KIT "200/2 TR CN BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
CNA2R 200 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 200-2
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 200-2

TOP 200 L COLLECTOR KIT "200/2 TR CN TOP"
consists of:
2 TOP SOLAR COLLECTORS
CNA2R 200 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 200-2
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 200-2

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA2R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

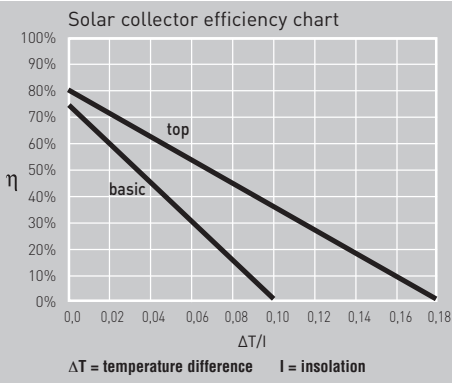
200 litres
of hot water
2 collectors

Indicative performance values

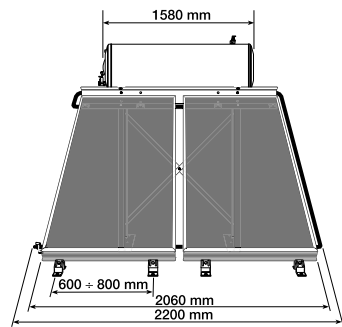
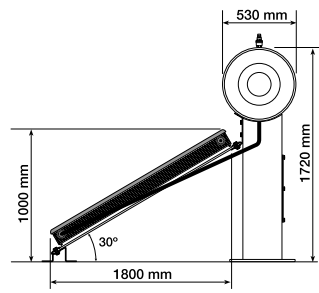
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	80-60	130-170
Central Italy	6-8	70-50	150-200
Southern Italy	8-10	60-40	180-250

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	50-30	240-320
Central Italy	11-15	40-30	270-360
Southern Italy	13-18	35-25	300-400

For technical data relating to solar components please see pages 28, 29, 33



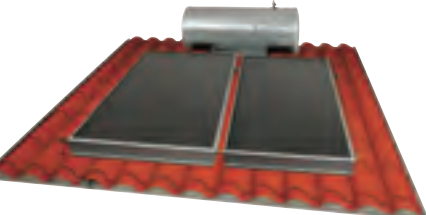
MODEL	200/2 TR CN BASIC	200/2 TR CN TOP
CODE	3104004	3104006



SOLAR KITS



200/2 TT CN BASIC 200/2 TT CN TOP



BASIC 200 L COLLECTOR SOLAR KIT TOP 200 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
3-4 PEOPLE

BASIC 200 L COLLECTOR KIT "200/2 TT CN BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
CNA2R 200 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 200-2
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 200-2

TOP 200 L COLLECTOR KIT "200/2 TT CN TOP"
consists of:
2 TOP SOLAR COLLECTORS
CNA2R 200 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 200-2
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 200-2

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA2R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

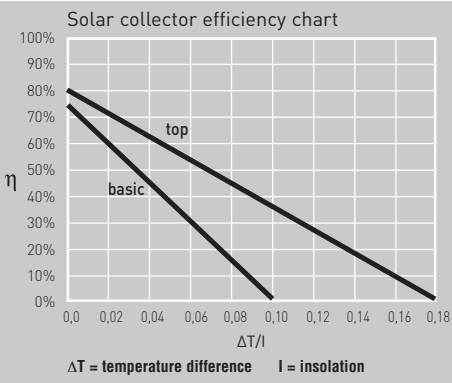
200 litres
of hot water
2 collectors

Indicative performance values

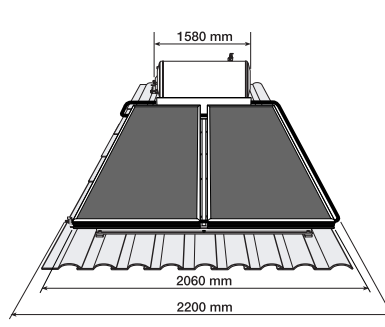
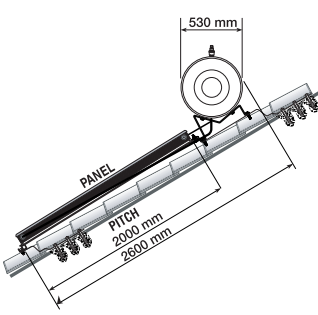
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	80-60	130-170
Central Italy	6-8	70-50	150-200
Southern Italy	8-10	60-40	180-250

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	50-30	240-320
Central Italy	11-15	40-30	270-360
Southern Italy	13-18	35-25	300-400

For technical data relating to solar components please see pages 28, 29, 33



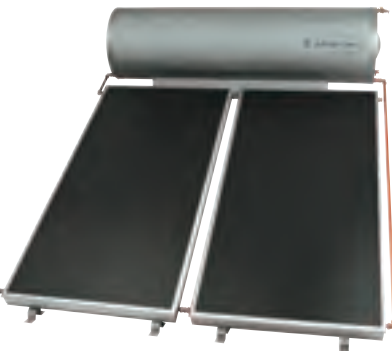
MODEL	200/2 TT CN BASIC	200/2 TT CN TOP
CODE	3104005	3104007



SOLAR KITS



300/2 TR CN BASIC 300/2 TR CN TOP



BASIC 300 L COLLECTOR SOLAR KIT
TOP 300 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
4-5 PEOPLE

BASIC 300 L COLLECTOR KIT "300/2 TR CN BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-2
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 300-2

TOP 300 L COLLECTOR KIT "300/2 TR CN TOP"
consists of:
2 TOP SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-2
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 300-2

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA3R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

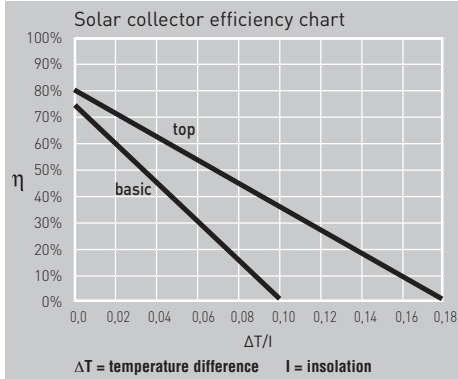
300 litres
of hot water
2 collectors

Indicative performance values

	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	130-100	130-170
Central Italy	6-8	110-80	150-200
Southern Italy	8-10	90-70	180-250

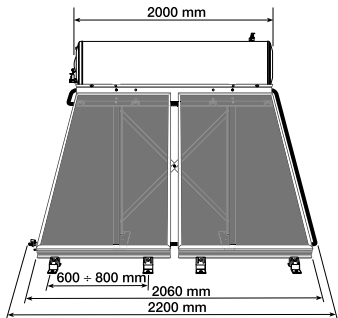
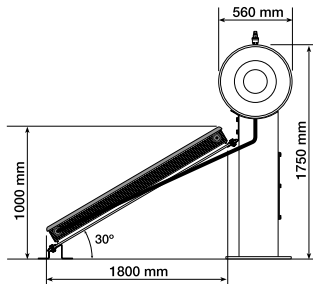
	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	70-50	240-320
Central Italy	11-15	60-50	270-360
Southern Italy	13-18	50-40	300-400

For technical data relating to solar components please see pages 28, 29, 33



MODEL 300/2 TR CN BASIC 300/2 TR CN TOP

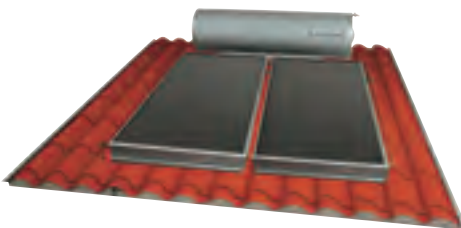
CODE 3104008 3104010



SOLAR KITS



300/2 TT CN BASIC 300/2 TT CN TOP



BASIC 300 L COLLECTOR SOLAR KIT
TOP 300 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
4-5 PEOPLE

BASIC 300 L COLLECTOR KIT "300/2 TT CN BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-2
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 300-2

TOP 300 L COLLECTOR KIT "300/2 TT CN TOP"
consists of:
2 TOP SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-2
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 300-2

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA3R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

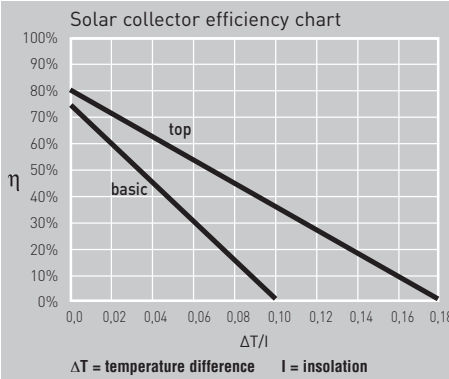
300 litres
of hot water
2 collectors

Indicative performance values

	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	130-100	130-170
Central Italy	6-8	110-80	150-200
Southern Italy	8-10	90-70	180-250

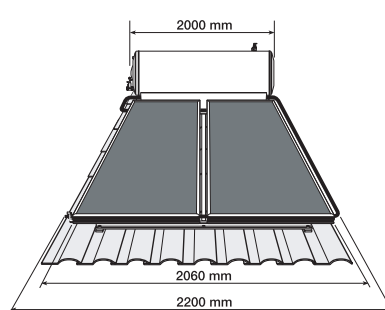
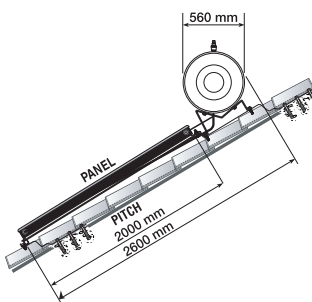
	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	70-50	240-320
Central Italy	11-15	60-50	270-360
Southern Italy	13-18	50-40	300-400

For technical data relating to solar components please see pages 28, 29, 33



MODEL 300/2 TT CN BASIC 300/2 TT CN TOP

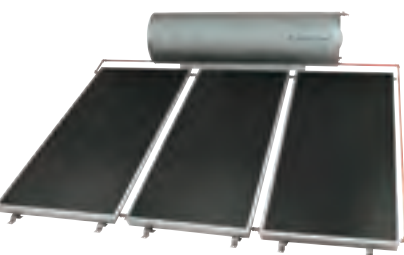
CODE 3104009 3104011



SOLAR KITS



300/3 TR CN BASIC 300/3 TR CN TOP



BASIC 300 L COLLECTOR SOLAR KIT
TOP 300 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
5-6 PEOPLE

BASIC 300 L COLLECTOR KIT "300/3 TR CN BASIC"
consists of:
3 BASIC SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-3
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 300-3

TOP 300 L COLLECTOR KIT "300/3 TR CN TOP"
consists of:
3 TOP SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-3
NATURAL CIRCULATION GROUND INSTALLATION
FRAME 300-3

- COLLECTOR APERTURE AREA 5.4 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA3R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

300 litres
of hot water
3 collectors

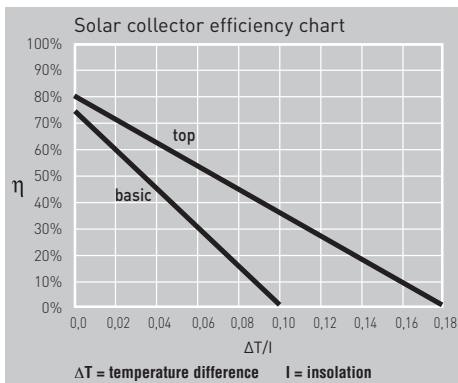


Indicative performance values

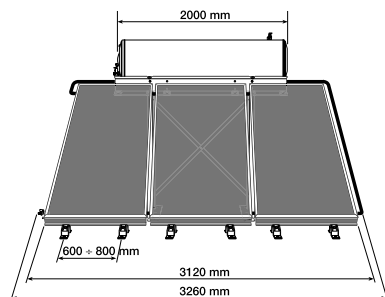
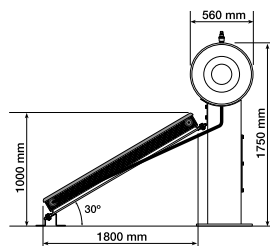
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	8-10	60-40	190-250
Central Italy	10-13	50-40	230-300
Southern Italy	12-15	40-30	270-360

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	15-20	30-20	350-470
Central Italy	17-23	25-20	400-530
Southern Italy	20-26	20-15	460-600

For technical data relating to solar components please see pages 28, 29, 33



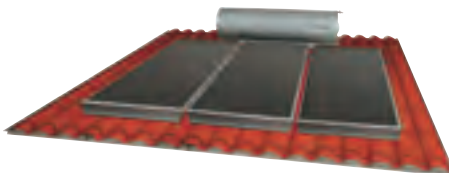
MODEL	300/3 TR CN BASIC	300/3 TR CN TOP
CODE	3104012	3104014



SOLAR KITS



300/3 TT CN BASIC 300/3 TT CN TOP



BASIC 300 L COLLECTOR SOLAR KIT
TOP 300 L COLLECTOR SOLAR KIT



NATURAL
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
5-6 PEOPLE

BASIC 300 L COLLECTOR KIT "300/3 TT CN BASIC"
consists of:
3 BASIC SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-3
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 300-3

TOP 300 L COLLECTOR KIT "300/3 TT CN TOP"
consists of:
3 TOP SOLAR COLLECTORS
CNA3R 300 L SOLAR INDIRECT CYLINDER
HYDRAULIC CONNECTION KIT 300-3
NATURAL CIRCULATION ROOFTOP INSTALLATION
FRAME 300-3

- COLLECTOR APERTURE AREA 5.4 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- CNA3R INDIRECT CYLINDER WITH AIR POCKET AND EXTERNAL FRAME IN ANODISED ALUMINIUM
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST
- ENEA APPROVAL EN 12976-2 (TOP VERSION ONLY)

300 litres
of hot water
3 collectors

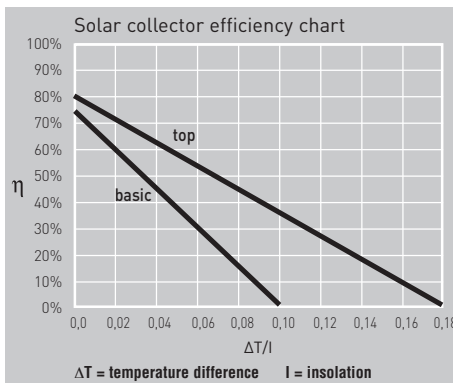


Indicative performance values

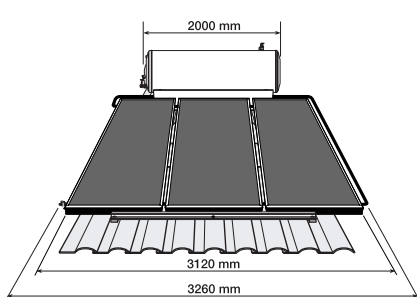
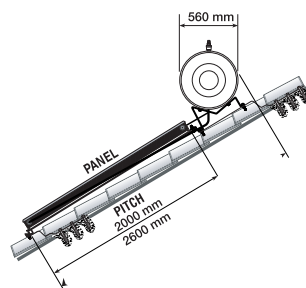
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	8-10	60-40	190-250
Central Italy	10-13	50-40	230-300
Southern Italy	12-15	40-30	270-360

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	15-20	30-20	350-470
Central Italy	17-23	25-20	400-530
Southern Italy	20-26	20-15	460-600

For technical data relating to solar components please see pages 28, 29, 33



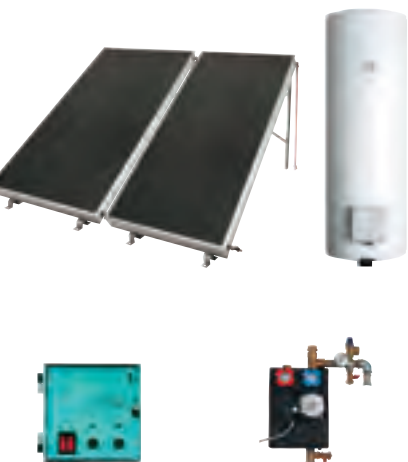
MODEL	300/3 TT CN BASIC	300/3 TT CN TOP
CODE	3104013	3104015



SOLAR KITS



200/2 TR CF1 BASIC 200/2 TR CF1 TOP



BASIC 200 L SINGLE COIL + COLLECTOR SOLAR KIT TOP 200 L SINGLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
3-4 PEOPLE

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS1S 200 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

200 L SINGLE COIL KIT "200/2 TR CF1 BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
1 BS1S 200 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
2 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

200 L SINGLE COIL KIT "200/2 TR CF1 TOP"
consists of:
2 TOP SOLAR COLLECTORS
1 BS1S 200 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
2 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

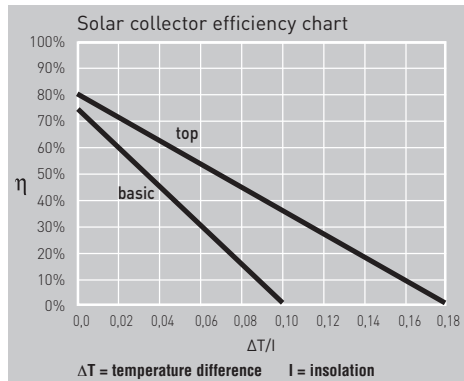
*200 litres
of hot water
2 collectors*

Indicative performance values

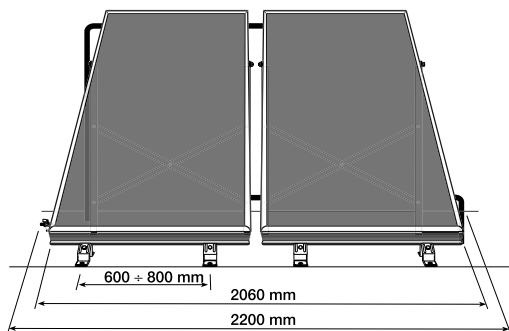
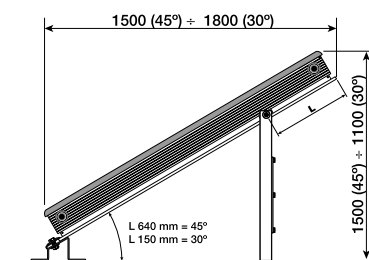
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	80-60	130-170
Central Italy	6-8	70-50	150-200
Southern Italy	8-10	60-40	180-250

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	50-30	240-320
Central Italy	11-15	40-30	270-360
Southern Italy	13-18	35-25	300-400

For technical data relating to solar components and for the installation diagram please see pages 28, 30, 34, 36



MODEL	200/2 TR CF1 BASIC	200/2 TR CF1 TOP
CODE	3104016	3104018



SOLAR KITS



200/2 TT CF1 BASIC 200/2 TT CF1 TOP



BASIC 200 L SINGLE COIL + COLLECTOR SOLAR KIT TOP 200 L SINGLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
3-4 PEOPLE

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS1S 200 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

200 L SINGLE COIL KIT "200/2 TT CF1 BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
1 BS1S 200 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 2 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

200 L SINGLE COIL KIT "200/2 TT CF1 TOP"
consists of:
2 TOP SOLAR COLLECTORS
1 BS1S 200 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 2 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

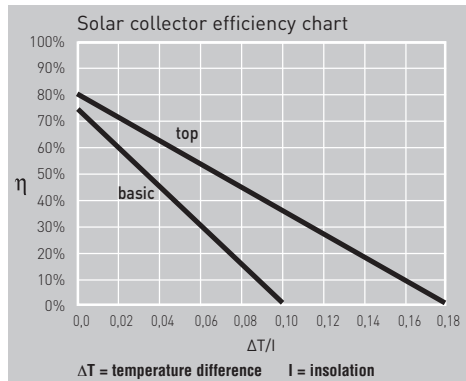
*200 litres
of hot water
2 collectors*

Indicative performance values

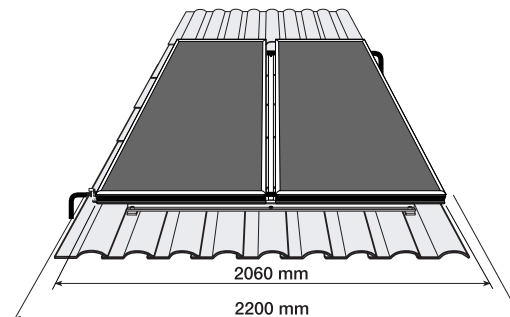
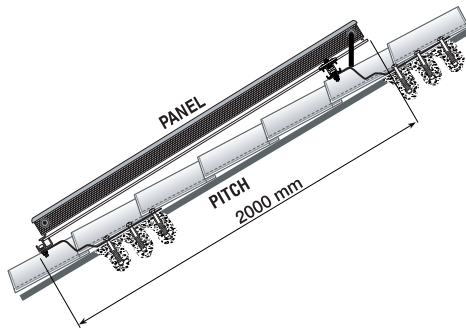
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	80-60	130-170
Central Italy	6-8	70-50	150-200
Southern Italy	8-10	60-40	180-250

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	50-30	240-320
Central Italy	11-15	40-30	270-360
Southern Italy	13-18	35-25	300-400

For technical data relating to solar components and for the installation diagram please see pages 28, 30, 34, 36



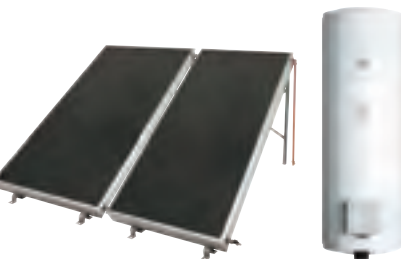
MODEL	200/2 TT CF1 BASIC	200/2 TT CF1 TOP
CODE	3104017	3104019



SOLAR KITS



200/2 TR CF2 BASIC 200/2 TR CF2 TOP



BASIC 200 L DOUBLE COIL + COLLECTOR SOLAR KIT TOP 200 L DOUBLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
3-4 PEOPLE

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS2S 200 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

BASIC 200 L DOUBLE COIL KIT "200/2 TR CF2 BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
1 BS2S 200 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
2 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

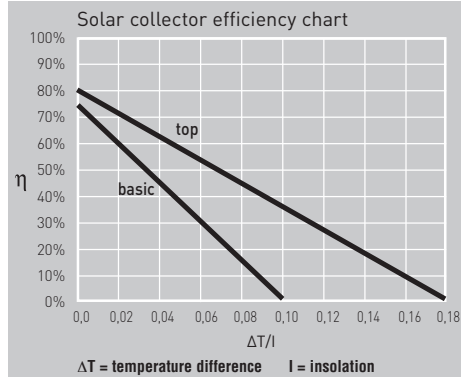
200 L DOUBLE COIL KIT "200/2 TR CF2 TOP"
consists of:
2 TOP SOLAR COLLECTORS
1 BS2S 200 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
2 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

200 litres
of hot water
2 collectors

Indicative performance values

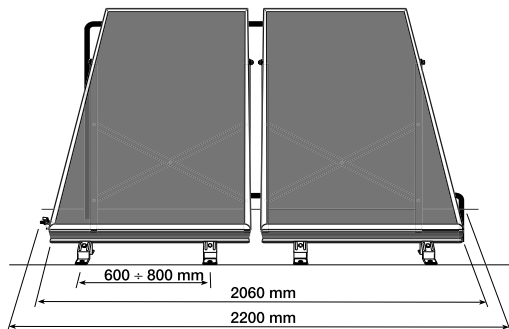
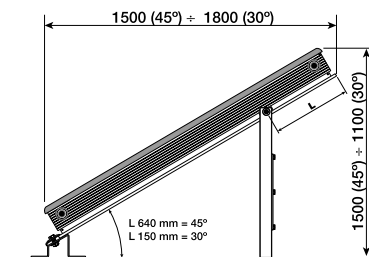
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	80-60	130-170
Central Italy	6-8	70-50	150-200
Southern Italy	8-10	60-40	180-250

	Energia media fornita Uso estivo (kWh/gg)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	50-30	240-320
Central Italy	11-15	40-30	270-360
Southern Italy	13-18	35-25	300-400



MODEL 200/2 TR CF2 BASIC 200/2 TR CF2 TOP

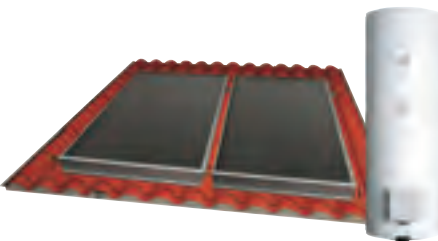
CODE 3104020 3104022



SOLAR KITS



200/2 TT CF2 BASIC 200/2 TT CF2 TOP



BASIC 200 L DOUBLE COIL + COLLECTOR SOLAR KIT TOP 200 L DOUBLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
3-4 PEOPLE

- COLLECTOR APERTURE AREA 3.6 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS2S 200 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

BASIC 200 L DOUBLE COIL KIT "200/2 TT CF2 BASIC"
consists of:
2 BASIC SOLAR COLLECTORS
1 BS2S 200 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 2 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

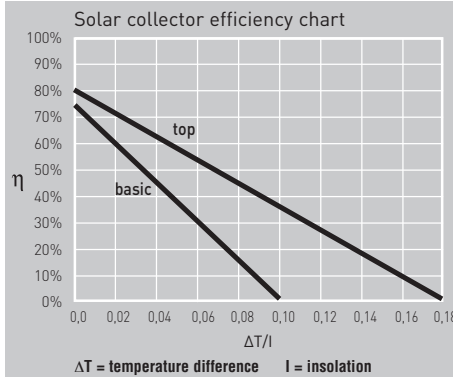
200 L DOUBLE COIL KIT "200/2 TT CF2 TOP"
consists of:
2 TOP SOLAR COLLECTORS
1 BS2S 200 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
1 HYDRAULIC CONNECTION KIT FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 2 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

200 litres
of hot water
2 collectors

Indicative performance values

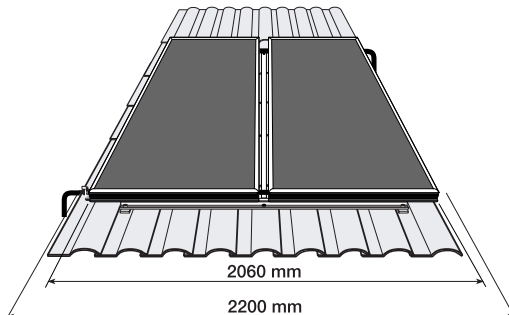
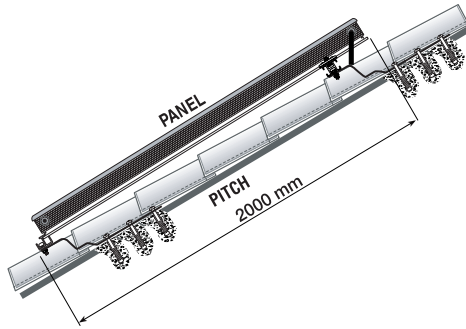
	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	5-7	80-60	130-170
Central Italy	6-8	70-50	150-200
Southern Italy	8-10	60-40	180-250

	Heating time Summer usage (min)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	10-14	50-30	240-320
Central Italy	11-15	40-30	270-360
Southern Italy	13-18	35-25	300-400



MODEL 200/2 TT CF2 BASIC 200/2 TT CF2 TOP

CODE 3104021 3104023



SOLAR KITS



300/3 TR CF1 BASIC 300/3 TR CF1 TOP



BASIC 300 L SINGLE COIL + COLLECTOR SOLAR KIT
TOP 300 L SINGLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
5-6 PEOPLE

300 L SINGLE COIL KIT "300/3 TR CF1 BASIC"
consists of:
3 BASIC SOLAR COLLECTORS
1 BS1S 300 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
3 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

300 L SINGLE COIL KIT "300/3 TR CF1 TOP"
consists of:
3 TOP SOLAR COLLECTORS
1 BS1S 300 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
3 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

- COLLECTOR APERTURE AREA 5.4 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS1S 300 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

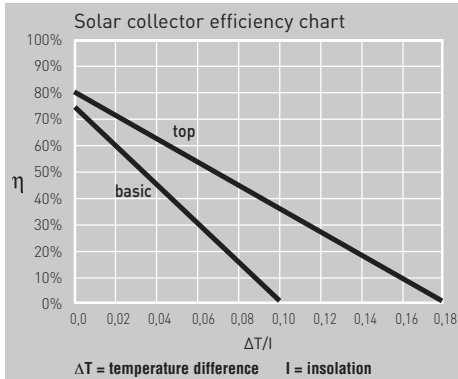
300 litres
of hot water
3 collectors

Indicative performance values

	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	8-10	60-40	190-250
Central Italy	10-13	50-40	230-300
Southern Italy	12-15	40-30	270-360

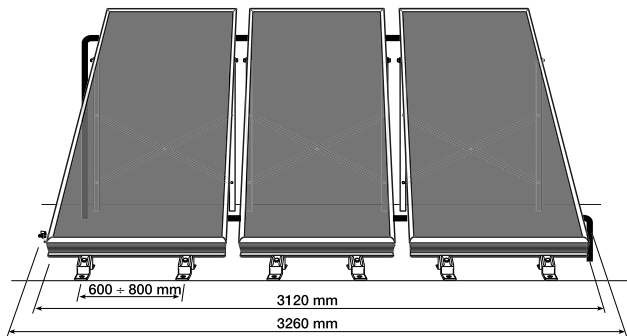
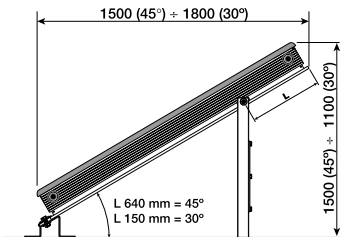
	Energia media fornita Uso estivo (kWh/gg)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	15-20	30-20	350-470
Central Italy	17-23	25-20	400-530
Southern Italy	20-26	20-15	460-600

For technical data relating to solar components and for the installation diagram please see pages 28, 30, 34, 36



MODEL 300/3 TR CF1 BASIC 300/3 TR CF1 TOP

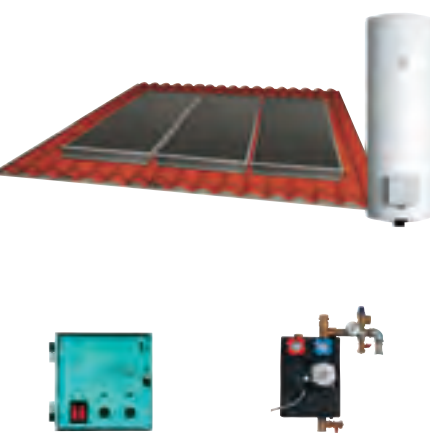
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SOLAR KITS



300/3 TT CF1 BASIC 300/3 TT CF1 TOP



BASIC 300 L SINGLE COIL + COLLECTOR SOLAR KIT
TOP 300 L SINGLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
5-6 PEOPLE

300 L SINGLE COIL KIT "300/3 TT CF1 BASIC"
consists of:
3 BASIC SOLAR COLLECTORS
1 BS1S 300 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 3 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

300 L SINGLE COIL KIT "300/3 TT CF1 TOP"
consists of:
3 TOP SOLAR COLLECTORS
1 BS1S 300 L SOLAR SINGLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 3 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

- COLLECTOR APERTURE AREA 5.4 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS1S 300 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

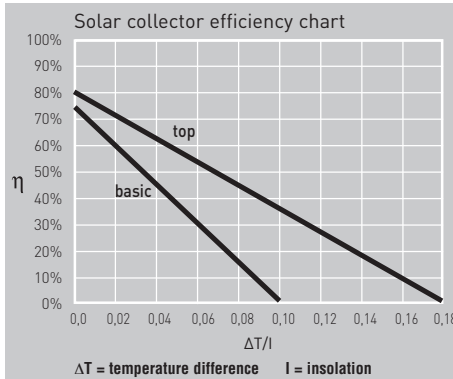
300 litres
of hot water
3 collectors

Indicative performance values

	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	8-10	60-40	190-250
Central Italy	10-13	50-40	230-300
Southern Italy	12-15	40-30	270-360

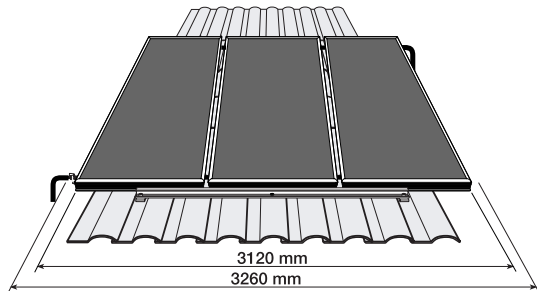
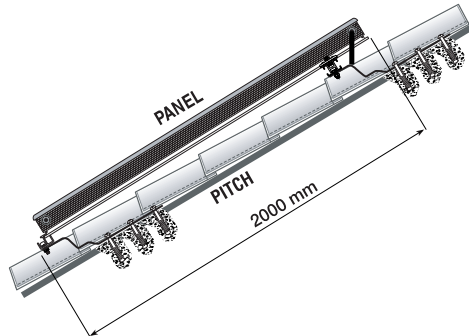
	Energia media fornita Uso estivo (kWh/gg)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	15-20	30-20	350-470
Central Italy	17-23	25-20	400-530
Southern Italy	20-26	20-15	460-600

For technical data relating to solar components and for the installation diagram please see pages 28, 30, 34, 36



MODEL 300/3 TT CF1 BASIC 300/3 TT CF1 TOP

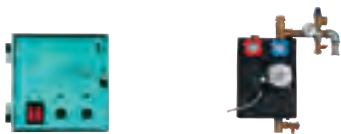
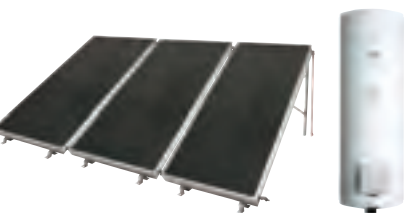
CODE 3104025 3104027



SOLAR KITS



300/3 TR CF2 BASIC 300/3 TR CF2 TOP



BASIC 300 L DOUBLE COIL + COLLECTOR SOLAR KIT TOP 300 L DOUBLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



GROUND
INSTALLATION



SUITABLE FOR
5-6 PEOPLE

- COLLECTOR APERTURE AREA 5.4 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS2S 300 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

300 L DOUBLE COIL KIT "300/3 TR CF2 BASIC"
consists of:
3 BASIC SOLAR COLLECTORS
1 BS2S 300 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
3 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

300 L DOUBLE COIL KIT "300/3 TR CF2 TOP"
consists of:
3 TOP SOLAR COLLECTORS
1 BS2S 300 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
3 GROUND INSTALLATION FRAMES 1 FORCED CIRCULATION PANEL
1 COUPLING KIT FOR FORCED CIRCULATION GROUND INSTALLATION FRAME
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

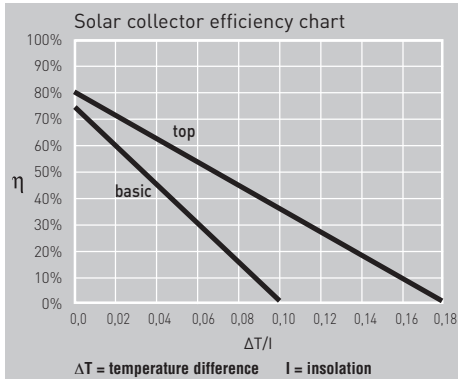
300 litres
of hot water
3 collectors

Indicative performance values

	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	8-10	60-40	190-250
Central Italy	10-13	50-40	230-300
Southern Italy	12-15	40-30	270-360

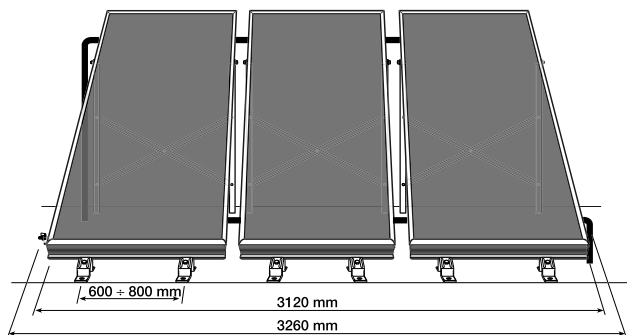
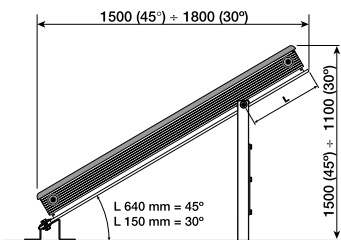
	Energia media fornita Uso estivo (kWh/gg)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	15-20	30-20	350-470
Central Italy	17-23	25-20	400-530
Southern Italy	20-26	20-15	460-600

For technical data relating to solar components and for the installation diagram please see pages 28, 31, 34, 36



MODEL 300/3 TR CF2 BASIC 300/3 TR CF2 TOP

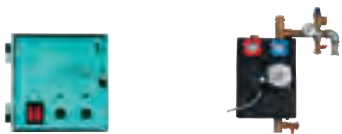
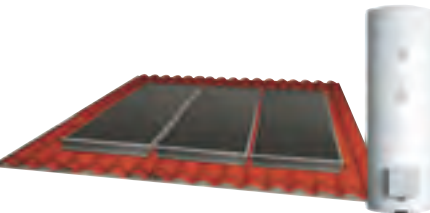
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SOLAR KITS



300/3 TT CF2 BASIC 300/3 TT CF2 TOP



BASIC 300 L DOUBLE COIL + COLLECTOR SOLAR KIT TOP 300 L DOUBLE COIL + COLLECTOR SOLAR KIT



FORCED
CIRCULATION



ROOFTOP
INSTALLATION



SUITABLE FOR
5-6 PEOPLE

- COLLECTOR APERTURE AREA 5.4 M²
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- BS2S 300 L SINGLE COIL INDIRECT CYLINDER IN ENAMELLED STAINLESS STEEL SET FOR THERMOSTAT AND INDIRECT CYLINDER RECIRCULATION
- SOLAR CONTROL UNIT COMPLETE WITH 3 SENSORS FOR CIRCULATION ASSEMBLY ADJUSTMENT
- 3 KW ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST

300 L DOUBLE COIL KIT "300/3 TT CF2 BASIC"
consists of:
3 BASIC SOLAR COLLECTORS
1 BS2S 300 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 3 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

300 L DOUBLE COIL KIT "300/3 TT CF2 TOP"
consists of:
3 TOP SOLAR COLLECTORS
1 BS2S 300 L SOLAR DOUBLE COIL INDIRECT CYLINDER
1 HYDRAULIC CONNECTION KIT 1 FORCED CIRCULATION COLLECTOR
2 HYDRAULIC CONNECTION KITS FOR ADDITIONAL COLLECTOR
1 ROOFTOP INSTALLATION FRAME 3 FORCED CIRCULATION PANELS
1 SOLAR CONTROL UNIT
1 CIRCULATION ASSEMBLY

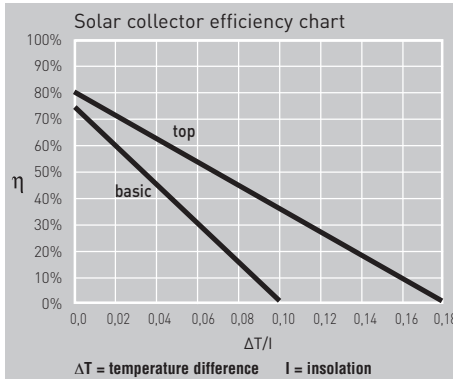
300 litres
of hot water
3 collectors

Indicative performance values

	Heating time Annual usage (min)	Heating time Annual usage (min)	Continuous flow rate Annual usage (l/h)
Northern Italy	8-10	60-40	190-250
Central Italy	10-13	50-40	230-300
Southern Italy	12-15	40-30	270-360

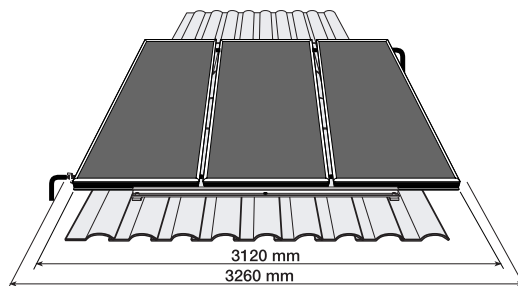
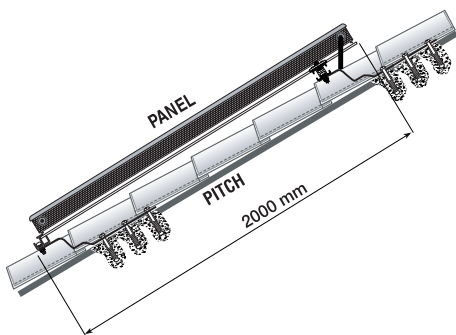
	Energia media fornita Uso estivo (kWh/gg)	Heating time Summer usage (min)	Continuous flow rate Summer usage (l/h)
Northern Italy	15-20	30-20	350-470
Central Italy	17-23	25-20	400-530
Southern Italy	20-26	20-15	460-600

For technical data relating to solar components and for the installation diagram please see pages 28, 31, 34, 36



MODEL 300/3 TT CF2 BASIC 300/3 TT CF2 TOP

CODE 3104029 3104031



COMPONENTS



SOLAR COLLECTOR

BASIC SOLAR COLLECTOR
TOP SOLAR COLLECTOR



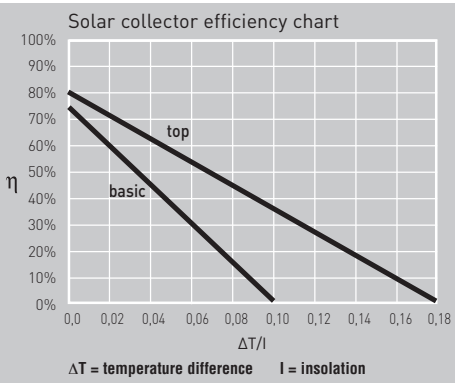
- COLLECTOR APERTURE AREA 1.8 M²
- SPECIAL HIGHLY TRANSPARENT SOLAR GLASS WHICH IS TEMPERED, NON-REFLECTIVE AND PRISMATIC;
- HIGHLY SELECTIVE ABSORBENT COPPER PLATE (TOP MODEL)
- ABSORBENT COPPER PLATE WITH BLACK NICKEL-CHROME COATING (BASIC MODEL)
- ANODISED ALUMINIUM EDGING
- ENEA APPROVAL EN 12975-2:2001

Environmentally friendly

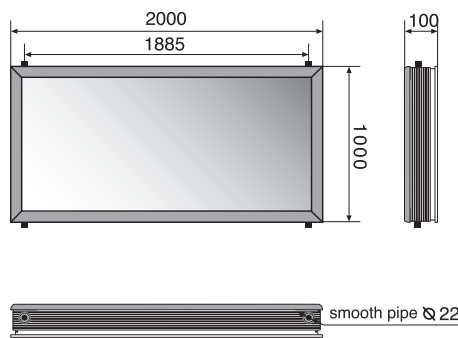


Technical data - Overall dimensions

		BASIC SOLAR COLLECTOR	TOP SOLAR COLLECTOR
Weight	kg	38	38
Operating pressure	bar	6	6
Collector diameter	mm	22	22
Liquid capacity of the collector	l	1,5	1,5
Absorption	%	93	95
Emission	%	31	5



MODEL	BASIC SOLAR COLLECTOR	TOP SOLAR COLLECTOR
CODE	800200	800201

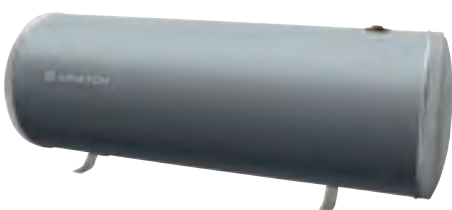


COMPONENTS



CNA1R
CNA2R
CNA3R

SOLAR INDIRECT CYLINDER WITH AIR POCKET



- EXCHANGER WITH AIR POCKET
- MAGNESIUM ANTI-CORROSION ANODE
- ANODISED ALUMINIUM EXTERNAL FRAME
- SAFETY VALVE FOR HOT WATER CIRCUIT
- VALVE WITH BLEED VALVE ON THE COLLECTOR LIQUID CIRCUIT
- 1.5 KW ELECTRICAL INTEGRATION KIT WITH THERMOSTAT AVAILABLE ON REQUEST

Simplicity and functionality

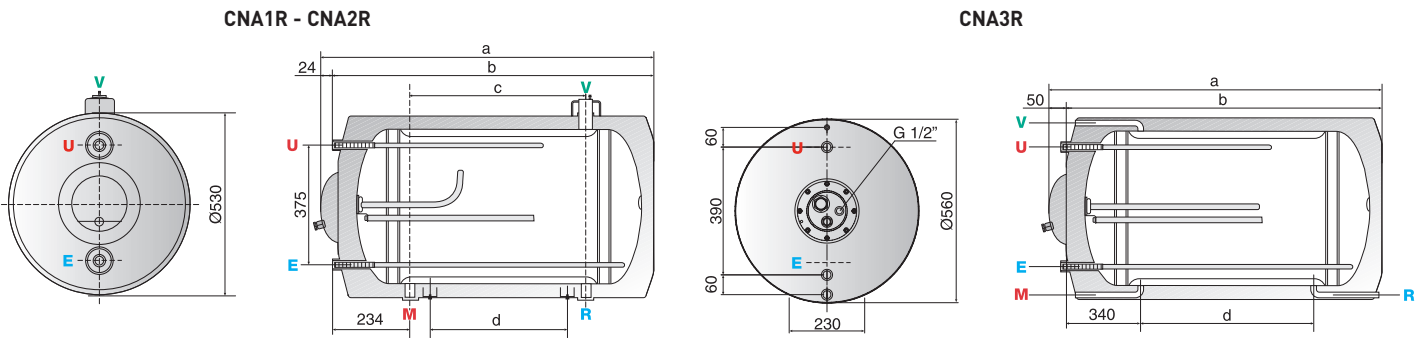


Technical data - Overall dimensions

		CNA1R	CNA2R	CNA3R			CNA1R	CNA2R	CNA3R
Capacity	litres	145	185	280	a mm		1282	1572	2030
Air pocket capacity	litres	17	22	11	b mm		1024	1314	1980
Water production* ($\Delta T=35$ k)	l/h	457	607	905	c mm		790	1080	-
Max absorbed power* ($\Delta T=35$ k)	kW	18,6	24,1	31	d mm		600	890	1300
Water production* ($\Delta T=50$ k)	l/h	241	276	375					
Max absorbed power* ($\Delta T=50$ k)	kW	14,0	16,1	21,8					
Flow rate in 10' * ($\Delta T=35$ k)	litres	218	269	395					
Heat dispersion	kWh/24h	1,87	2,25	3,6					
Maximum operating pressure	bar	8	8	8					
Weight	kg	74	89	135					

With central heating supply = 80°C - *Heating circuit flow rate m³/h = 2

MODEL	CNA1R	CNA2R	CNA3R
CODE	006865	006866	3507004



COMPONENTS



BS1S 150
BS1S 200
BS1S 300
BS1S 400
BS1S 500

FLOOR-STANDING INDIRECT CYLINDER WITH COIL



- BOILER PROTECTION WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT PERFORMED AT 850°C
- SINGLE COIL BENT DOWNWARDS FOR UNIFORM TANK HEATING
- SET FOR THERMOSTAT
- SET FOR RECIRCULATION
- UPPER FLANGE WITH BUILT-IN ANODE AND SHEATH FOR SENSOR (EXCLUDING 150 LITRE MODEL)
- 110 MM FRONT INSPECTION FLANGE
- MAGNESIUM ANODE
- ADJUSTABLE SUPPORTING FEET
- 3 KW (FOR 200 AND 300 LITRE MODELS) OR 6 KW (FOR 400 AND 500 LITRE MODELS) ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST
- RING NUTS FOR ELECTRICAL KIT INSTALLATION (FOR 300/400/500 LITRE MODELS)

storage
capacity
flexibility

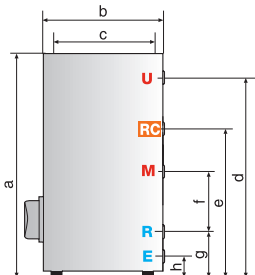
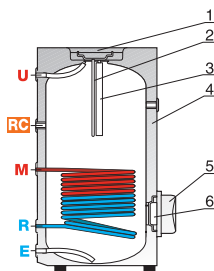


Technical data - Overall dimensions

		BS1S 150	BS1S 200	BS1S 300	BS1S 400	BS1S 500
Capacity	litres	150	200	290	390	480
Coil capacity	litres	6,5	9,5	12,7	12,7	16
Coil exchange surface	m²	1	1,5	2	2	2,5
D.H.W. production* (ΔT=35 K)						
Heating circuit flow rate 1 m³/h	l/h	590	811	892	892	1078
Heating circuit flow rate 3 m³/h	l/h	739	1238	1273	1273	1526
Heating circuit flow rate 5 m³/h	l/h	811	1351	1442	1442	1727
Max absorbed power** (ΔT=35 K)	kW	30,1	50,4	51,8	51,8	62,1
Pressure losses						
Heating circuit flow rate 1 m³/h	mbar	38	34	87	87	100
Heating circuit flow rate 3 m³/h	mbar	126	140	190	190	216
Heating circuit flow rate 5 m³/h	mbar	306	503	392	392	440
Heating time* (ΔT=35 K)						
Heating circuit flow rate 1 m³/h	min	15	15	20	24	27
Heating circuit flow rate 3 m³/h	min	12	10	14	18	18
Heating circuit flow rate 5 m³/h	min	11	9	12	16	16
Heat dispersion	kWh/24h	1,6	2,1	2,5	2,7	2,7
Max. operating pressure	bar	10	10	10	10	10
Net weight	kg	87	101	141	125	160

* With central heating supply = 80°C - ** Heating circuit flow rate 2 m³/h

MODEL	BS1S 150	BS1S 200	BS1S 300	BS1S 400	BS1S 500
CODE	467409	467410	467411	467412	467413



- 1 - Upper flange
 - 2 - Temperature sensor connection
 - 3 - Magnesium anode
 - 4 - Polyurethane insulation with no CFCs or HCFCs
 - 5 - Flange cover cap
 - 6 - Front inspection flange
- RC** Recirculation Ø "3/4" G
M Central heating flow Ø 1" G
R Central heating return Ø 1" G
E D.H.W. inlet Ø 1" G
U D.H.W. outlet Ø 1" G

COMPONENTS



BS2S 200
BS2S 300
BS2S 400
BS2S 500

FLOOR-STANDING INDIRECT CYLINDER WITH DOUBLE COIL



- BOILER PROTECTION WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT PERFORMED AT 850°C
- DOUBLE COIL BENT DOWNWARDS FOR UNIFORM TANK HEATING
- SET FOR THERMOSTAT
- SET FOR RECIRCULATION
- 110 MM UPPER FLANGE WITH BUILT-IN ANODE AND SHEATH FOR SENSOR
- 110 MM FRONT INSPECTION FLANGE
- MAGNESIUM ANODE
- ADJUSTABLE SUPPORTING FEET
- 3 KW (FOR 200 AND 300 LITRE MODELS) OR 6 KW (FOR 400 AND 500 LITRE MODELS) ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST
- RING NUTS FOR ELECTRICAL KIT INSTALLATION (FOR 300/400/500 LITRE MODELS)

ideal
for
solar heated
systems

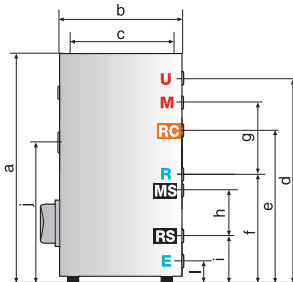
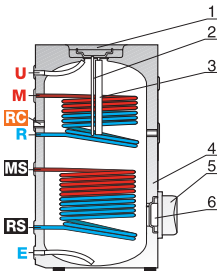


Technical data - Overall dimensions

		BS2S 200	BS2S 300	BS2S 400	BS2S 500
Capacity	litres	190	280	380	470
Conditions		(1)	(1)	(1)	(1)
Lower coil capacity	litres	5,5	12,7	12,7	16
Coil exchange surface	m²	0,85	0,85	0,9	2,5
Water production* (ΔT=35° K)					
Heating circuit flow rate 1 m³/h	l/h	516	892	565	1078
Heating circuit flow rate 3 m³/h	l/h	688	1273	705	1526
Heating circuit flow rate 5 m³/h	l/h	744	1442	749	1727
Max absorbed power** (ΔT=35° K)	kW	28	51,8	28,7	62,1
Pressure losses					
Heating circuit flow rate 1 m³/h	mbar	33	87	33	100
Heating circuit flow rate 3 m³/h	mbar	115	190	115	216
Heating circuit flow rate 5 m³/h	mbar	296	392	296	440
Heating time* (ΔT=35° K)					
Heating circuit flow rate 1 m³/h	min	33	19	30	24
Heating circuit flow rate 3 m³/h	min	24	13	24	18
Heating circuit flow rate 5 m³/h	min	23	12	22	16
Heat dispersion	kWh/24h	2,1	2,7	2,8	2,9
Max. operating pressure	bar	10	10	10	10
Net weight	kg	109	153	141	179

[1] = lower coil with solar circuit power supply [2] = upper coil
* With central heating supply = 80°C - ** Heating circuit flow rate 2 m³/h

MODEL	BS2S 200	BS2S 300	BS2S 400	BS2S 500
CODE	467414	467415	467416	467417



- 1 - Upper flange
 - 2 - Temperature sensor connection
 - 3 - Magnesium anode
 - 4 - Polyurethane insulation with no CFCs or HCFCs
 - 5 - Flange cover cap
 - 6 - Front inspection flange
- RC** Recirculation Ø "3/4" G
M Central heating flow Ø 1" G
R Central heating return Ø 1" G
E D.H.W. inlet Ø 1" G
U D.H.W. outlet Ø 1" G
MS Solar heating system flow Ø 1" G
RS Solar heating system return Ø 1" G

COMPONENTS



BDR 100
BDR 120
BDR 150
BDR 200



MULTI-POSITION INDIRECT CYLINDER WITH AIR POCKET



LONG-LIFE



ENVIRONMENTALLY
FRIENDLY



ANTI-
CORROSION

- BOILER PROTECTION WITH EXCLUSIVE TITANIUM-BASED ENAMEL TREATMENT PERFORMED AT 850°C
- EXCHANGER WITH AIR POCKET STANDARD THERMOSTAT
- SET FOR RECIRCULATION
- 75 MM INSPECTION FLANGE
- MAGNESIUM ANODE
- 1.5 KW (FOR 100/120/150 LITRE MODELS) OR 2.5 KW (FOR 200 LITRE MODELS) ELECTRICAL INTEGRATION KIT AVAILABLE ON REQUEST
- SENSOR ATTACHMENTS FOR CONTROL UNITS
- FLOOR INSTALLATION KIT AVAILABLE ON REQUEST

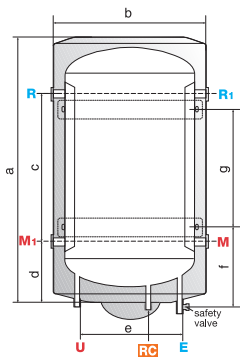
Wall
or
floor
installation

Technical data - Overall dimensions

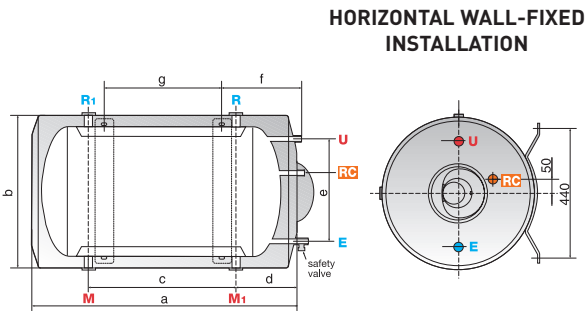
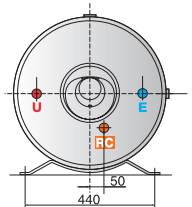
		BDR 100	BDR 120	BDR 150	BDR 200		BDR 100	BDR 120	BDR 150	BDR 200
Capacity	litres	100	120	150	200	a mm	1040	1200	1250	1540
Air pocket capacity	litres	12	14	17	22	b mm	495	495	505	505
Water production* (ΔT=35 k)	l/h	354	445	457	607	c mm	585	745	790	1080
Max absorbed power* (ΔT=35 k)	kW	14,4	18,1	18,6	24,1	d mm	240	240	240	240
Water production* (ΔT=50 k)	l/h	179	311	241	276	e mm	340	340	375	375
Max absorbed power* (ΔT=50 k)	kW	10,4	18,1	14,0	16,1	f mm	285	285	355	380
Flow rate in 10' (ΔT=35 k)	litres	142	163	218	269	g mm	500	660	560	800
Heat dispersion	kWh/24h	1,08	1,17	1,87	2,25					
Boiler maximum operating pressure	bar	8	8	8	8					
Weight	kg	53	58	74	89					

With central heating supply = 80°C - *Heating circuit flow rate m³/h = 2

MODEL	BDR 100	BDR 120	BDR 150	BDR 200
CODE	467301	467302	467303	467304



VERTICAL WALL-FIXED
OR FLOOR-STANDING
INSTALLATION



HORIZONTAL WALL-FIXED
INSTALLATION

- RC Recirculation Ø 3/4" G
- M Central heating flow Ø 1" 1/4 G
- R Central heating return Ø 1" 1/4 G
- E D.H.W. inlet Ø 3/4" G
- U D.H.W. outlet Ø 3/4" G
- M' Alternative system flow
- R' Alternative system return



Solar accessories

	Code
NATURAL CIRCULATION SYSTEMS	
Hydraulic connection kit 150 - 1 natural circulation Connection kit and hydraulic accessories for systems consisting of one collector and one 150 l indirect cylinder	800205
Hydraulic connection kit 200 - 2 natural circulation Connection kit and hydraulic accessories for systems consisting of two collectors and one 200 l indirect cylinder	800206
Hydraulic connection kit 300 - 2 natural circulation Connection kit and hydraulic accessories for systems consisting of two collectors and one 300 l indirect cylinder	800238
Hydraulic connection kit 300 - 3 natural circulation Connection kit and hydraulic accessories for systems consisting of three collectors and one 300 l indirect cylinder	800239
Rooftop installation frame 150 - 1 natural circulation Rooftop fixing frame for systems consisting of one collector and one 150 l indirect cylinder	800226
Rooftop installation frame 200 -2 natural circulation Rooftop fixing frame for systems consisting of two collectors and one 200 l indirect cylinder	800227
Rooftop installation frame 300 -2 natural circulation Rooftop fixing frame for systems consisting of two collectors and one 300 l indirect cylinder	800228
Rooftop installation frame 300 -3 natural circulation Rooftop fixing frame for systems consisting of three collectors and one 300 l indirect cylinder	800241
Ground installation frame 150 - 1 natural circulation Ground fixing frame for systems consisting of one collector and one 150 l indirect cylinder	800221
Ground installation frame 200 - 2 natural circulation Ground fixing frame for systems consisting of two collectors and one 200 l indirect cylinder	800222
Ground installation frame 300 - 2 natural circulation Ground fixing frame for systems consisting of two collectors and one 300 l indirect cylinder	800224
Ground installation frame 300 - 3 natural circulation Ground fixing frame for systems consisting of three collectors and one 300 l indirect cylinder	800225
Thermometer - Digital thermostat Solar circuit temperature control unit equipped with sensor; opportunity of setting the opening/closing of the electricity supply circuit using a 220 V actuator.	800232
Thermometer - Digital Solar circuit temperature control unit equipped with sensor	800233
Antifreeze liquid loading pump Manual pump for loading antifreeze liquid into the solar hydraulic circuit	800235
Additional sensor for the digital thermostat Additional solar circuit temperature monitoring sensor for control unit equipped with sensor	800234
Antifreeze liquid Antifreeze liquid package for solar collectors (5 l)	800215





Solar accessories

	Code
FORCED CIRCULATION SYSTEMS	
Solar control unit Control unit for systems using up to 20 collectors Differential thermostat with adjustment function for controlling the solar circuit Differential thermostat with adjustment function for controlling the integration circuit Set of 3 sensors and corresponding traps to hold the sensors On/off switch Manual pump activation switch	800236
Circulation assembly Three-speed circulation pump Propylene foam insulation System filling and draining valve Wall-fixing bracket kit Expansion vessel attachment bracket with non-return valve Manual built-in deaerator Standard thermometer for system flow and return plus pressure gauge	800237
Hydraulic connection kit for 1 forced circulation collector Connection kit and hydraulic accessories for systems with one forced circulation collector	800210
Hydraulic connection kit for additional collector Connection kit and hydraulic accessories for each additional collector in forced circulation systems	800211
Rooftop installation frame for 1 forced circulation panel Rooftop fixing frame for systems with one forced circulation collector	800229
Rooftop installation frame for 2 forced circulation panels Rooftop fixing frame for systems with two forced circulation collectors	800230
Rooftop installation frame for 3 forced circulation panels Rooftop fixing frame for systems with three forced circulation collectors	800231
Ground installation frame for 1 forced circulation panel Ground fixing frame for systems with one forced circulation collector	800220
Ground installation frame coupling kit for forced circulation system Coupling kit for ground fixing frame used in systems with more than one forced circulation collector	800223
Antifreeze liquid loading pump Manual pump for loading antifreeze liquid into the solar hydraulic circuit	800235
Antifreeze liquid Antifreeze liquid package for solar collectors (5 l)	800215



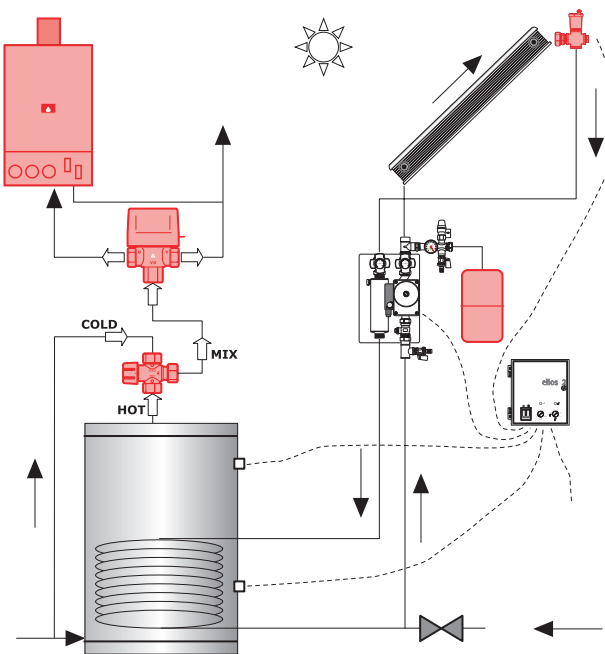
Indirect cylinder accessories

	Code
CNAR AIR POCKET RANGE	
1500 W electrical kit for CNA1R and CNA2R 1500 W single-phase electrical kit for natural circulation indirect cylinders, models CNA1R and CNA2R 150-200 l	107069
1500 W electrical kit for CNA3R 1500 W single-phase electrical kit for natural circulation indirect cylinders, model CNA1R 300 l	800240
BS1S AND BS2S RANGES WITH SINGLE AND DOUBLE COIL	
3000 W electrical kit 3000 W three-phase electrical kit for forced circulation indirect cylinders, models BS1S and BS2S 200/300 l	935118
6000 W electrical kit 6000 W three-phase electrical kit for forced circulation indirect cylinders, models BS1S and BS2S 400/500 l	935119
2500 W electrical kit 2500 W single-phase electrical kit to be installed on the indirect cylinder central attachment (BS2S only)	935394
1500 W electrical kit 1500 W single-phase electrical kit to be installed on the indirect cylinder central attachment (BS2S only)	935393
MULTI-POSITION BDR AIR POCKET RANGE	
1500 kW S/W electrical kit 1500 W single-phase electrical kit with thermostat, heating element with seal, cap with lamp, temperature adjustment knob and S/W switch - for BDR indirect cylinders 80/100/120/150 l	107866
2500 kW S/W electrical kit 2500 W single-phase electrical kit with thermostat, heating element with seal, cap with lamp, temperature adjustment knob and S/W switch - for BDR indirect cylinders 80/100/120/150 l	107867
2500 W electrical kit 2500 W three-phase electrical kit, heating element with seal, cap for BDR 200	107868



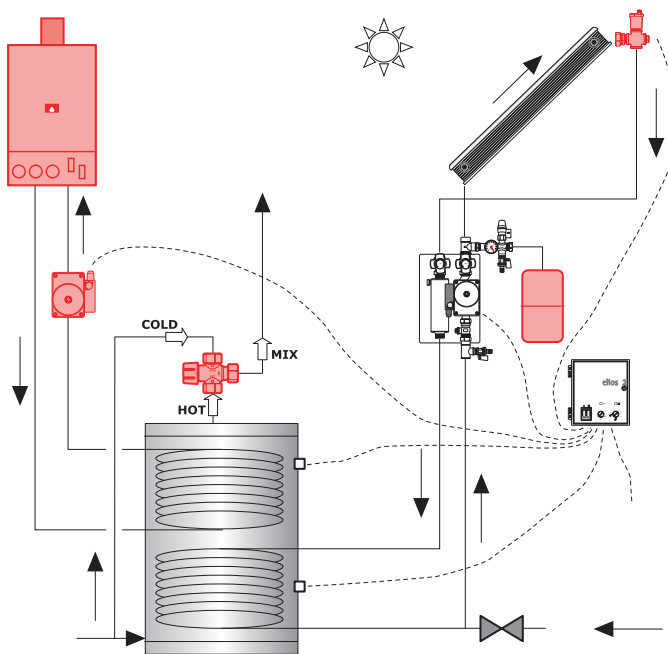


Installation diagram for solar kit with single coil indirect cylinder



 = particulars not included in the kit

Installation diagram for solar kit with double coil indirect cylinder



 = particulars not included in the kit

NOTES

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Quality products
Excellent service



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The Internet site provides operators within the sector with all the information which is linked to the "product catalogue", offering individual details of technical features, exploded views and spare parts lists, updates for operating booklets and instruction manuals. It provides users with telephone numbers and addresses for the relevant Assistance Centres and stockists in their local area



Ariston service
here to meet
customer demands



The capillary network of Ariston Technical Assistance Centres has been developed to cover the entire country, in order to guarantee emergency and routine maintenance operations which demonstrate efficiency and a high degree of professional preparation.

A group of experts also support our Customers in the constant updating process relating to new products and technologies.