

termokol

solar energy systems

GENERAL PRODUCT CATALOG



THE FOUR SEASONS



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Quality Starts With You...

OUR QUALITY POLICY

*** In order for all employees to become more competent and able to use their talents at the highest level within the framework of quality systems to continuously improve the quality level by giving importance to teamwork

*** To establish quality awareness in all employees,

*** Not to be in a trusting cooperation with suppliers and suppliers

*** To serve the purpose of making the name of our company and Turkey more known to the world, azere, existing technical, administrative and mall units are planning to move abroad

*** By producing the most suitable, most accurate and most economical solutions in the fastest way, it will be possible to emerge later to prevent nonconformity,

*** We will not be an exemplary organization that respects the society and the environment we are in, and has determined contributing to the national economy by constantly improving the volume of business as a Quality Policy.

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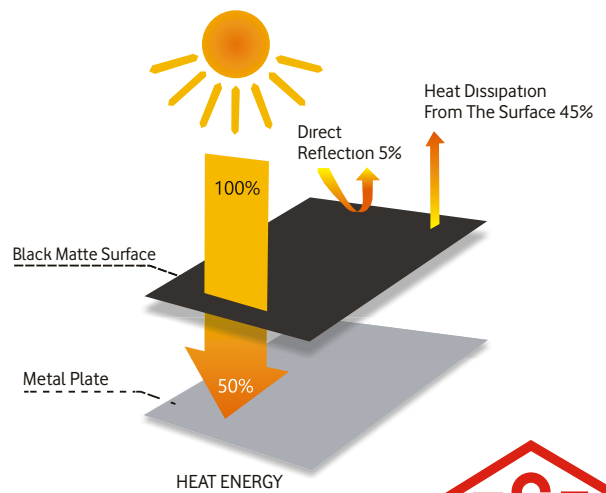
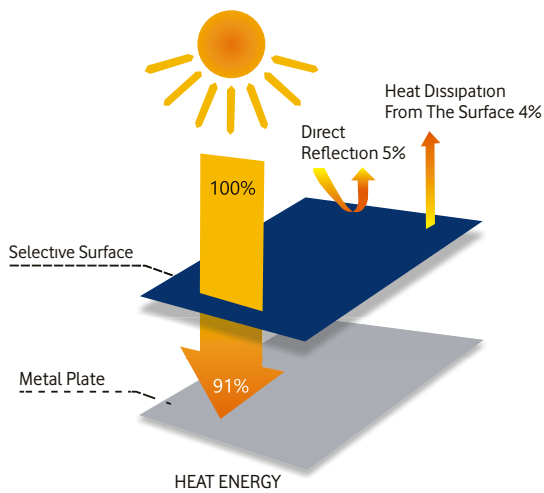
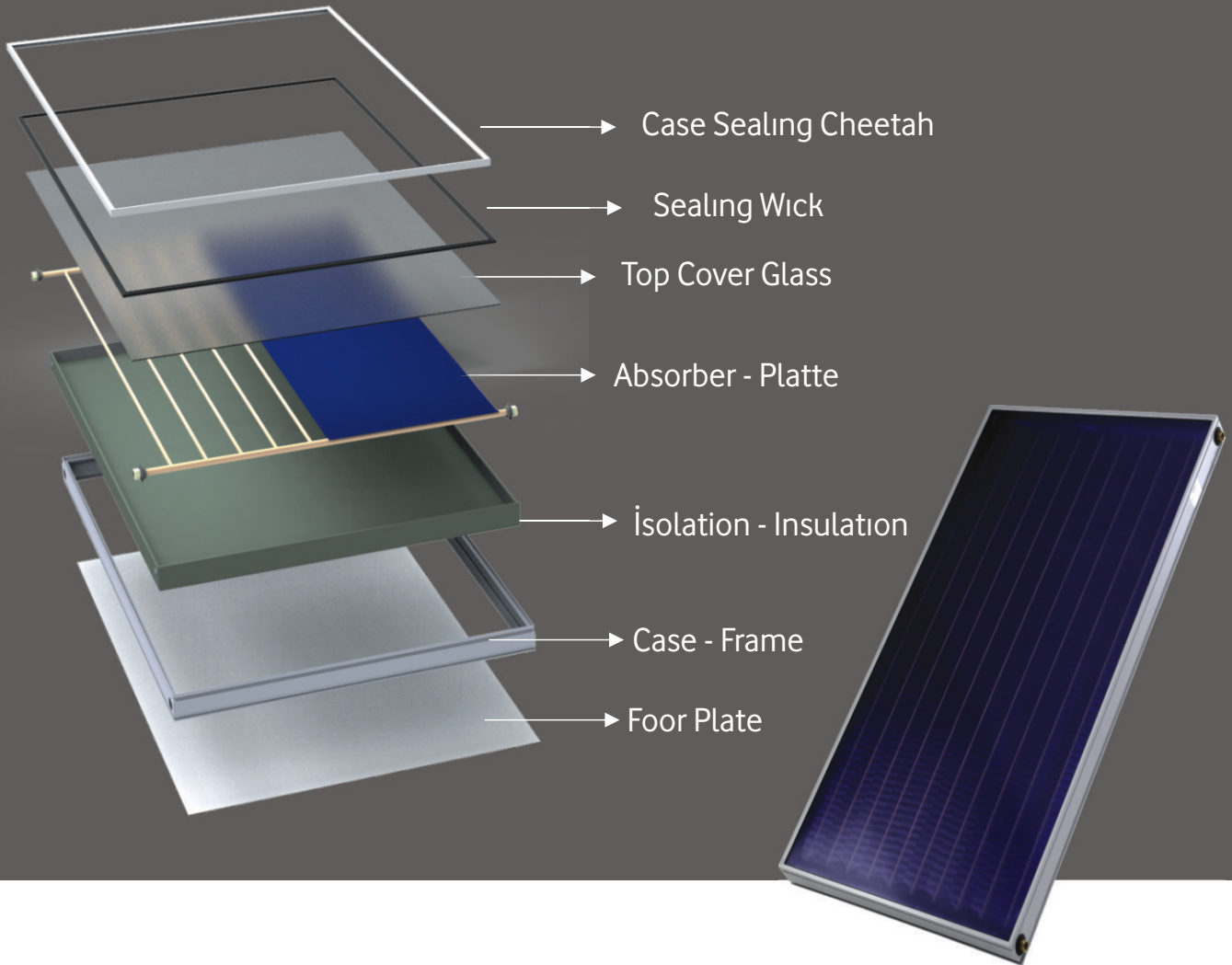
ABOUT US

Thermocol Solar Energy Systems was established in 2016 by bringing together partners with 20 years of experience in solar energy Dec. the company, which entered the process of change after 2018, has made innovative decisions about purchasing, production, marketing and sales strategies and thanks to these decisions, it is currently in the first place in the solar energy systems sector in terms of production diversity and capacity

Solar energy collector (annual capacity: 10.000 pcs) solar energy panel (annual capacity: 10.000 pcs) vacuum tube solar energy systems (annual capacity: 5.000 pcs) chrome hot water tank (annual capacity: 5.000 pcs) chrome cold water tank (annual capacity: 5.000 pcs) enamel and galvanized upright recumbent boilers (annual capacity recumbent boiler: 5.000 pcs, in the upright boiler.000 units) Solar energy stand (annual capacity: 10,000 units) production is carried out. Our most important goal is to provide maximum benefit to the national economy by reflecting our sector experience on product quality.

Our goal is to lead our sector and to provide unconditional customer satisfaction without ever compromising on quality. We also have a large share in the foreign market through visits abroad and we provide continuous training to our employees and contribute to their personal development in order to contribute to the country's economy.

Solar Collector Equipment...





The Thermal Efficiency Difference Between The Selective Surface And The Discolored Surface





TECHNICAL CHARACTERISTICS OF THERMAL SOLAR COLLECTORS

Technical Specifications		Standard Aluminum Solar Collector			
Product Code		K-2033		K-2034	
Absorbent Cross Section		 Round Section		 Oval Section	
Absorbent The Material		Self Aluminum Fins Round Tube Extrusion Technology		Self Finned Aluminum Oval Tube Extrusion Technology	
Size	mm	930 - 1930 - 85			
Span Surface Area	m ²	1,8			
Gross Collector Area	m ²	1,6			
Test Pressure	Bar	9			
Max Working Pressure	Bar	6			
Number Of Carrier Pipes	Piece	12		10	
Material Listopad		Electrostatic Powder Coated Aluminum			
Top Cover Glass Specifications		Flat Glass Or Tempered Glass			
izolation		Glass Wool	Polyurethane	Glass Wool	Polyurethane
Liquid Capacity	lt.	4,2		4,8	
Weight	Kg	30			





Thermomix Series Solar Collector

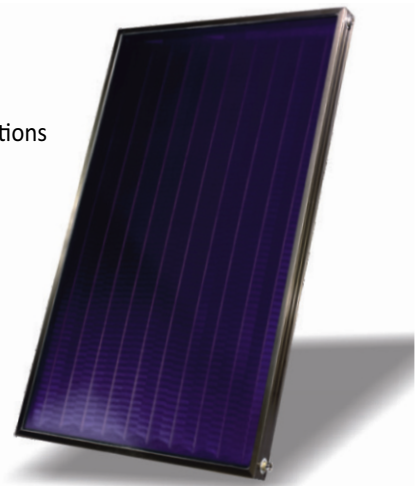
Solar Collectors are the main part of solar water heating systems. In order to meet your Hot Water needs, it is very important that the solar collector you choose also has the appropriate specifications. When choosing a solar collector, it is necessary to make a choice by taking into account criteria such as the climatic conditions of the region, the amount of consumption, the area to be installed.

The surfaces used in Solar Collectors are basically two groups in terms of application. These

- 1- Black painted surfaces
- 2- Selective (selective) surfaces

The ideal black surface is the ideal job absorber. It swallows up all of the work coming at it at all wavelengths, at every angle. However, real objects (surfaces) are not like the ideal black surface, they do not swallow all of the work that comes on them, but they reflect some of it depending on the angle of arrival, they cannot swallow it whole. The ideal black body is also the ideal emitter for radiant radiation.

Absorbent surfaces used in collectors are also required to have a high rate of solar radiation absorption and no irradiance (emissivity) Short-wavelength radiation, that is, almost all solar radiation is absorbed and its surface temperature also increases, since surfaces that emit minimal radiation from its surface to its surroundings are called selective (selective) surfaces. Surfaces that emit a maximum of 30% of the absorbed work are called selective surfaces. The reabsorption rates of the selective surfaces used in Promax Extra solar collectors are 5%.



maximum contact maximum efficiency

Ekstra Series Solar collector has various absorber plates made of Aluminum, Copper, partial finned (fin) copper selective and copper full plate selective material. Absorber plates are the most important part of the solar energy system. The absorber plate allows the radiation from the Sun to be transferred to the heating fluid contained in it as thermal energy. Solar Collector case (circumference) Made of Aluminum material the finished product is produced with electrostatic powder coating, the outer surface of which is resistant to external influences. The upper cover is in the form of tempered glass with prismatic pattern. Complete sealing is ensured by using aluminum glazing plate and glass seal made of EPDM material. It has the feature of being able to be Used Horizontally and Vertically.



Thermomix Technical Characteristics Of Solar Collectors

Technical Specifications		Extra Aluminum Solar Collector		Copper Solar Collector	Copper Selective Solar Collector	Aluminum Selective Solar Collector
		K-2033	K-2034	K-2035	K-2036	K-2037
Product Code		K-2033	K-2034	K-2035	K-2036	K-2037
Absorbent Cross Section		Round Section	Oval Section	Ultrasonic Welding Cross Section	Ultrasonic Welding Cross Section	Laser Welding Cross Section
Absorbent The Material		Self Finned Aluminum Oval Tube Extrusion Technology		Ultrasonic Welding Technology With Copper Tube Fins	Copper Pipe Copper Selective Finned Ultrasonic Welding Technology	Copper Tube Aluminum Full Plate Selective Fin Laser Welding Technology
Size	mm	12 15 -19 10 - 85				
Span Surface Area	m ²	2,16				
Gross Collector Area	m ²	2,31				
Test Pressure	Bar	9		13,5		
Max Working Pressure	Bar	6		9		
Number Of Carrier Pipes	Piece	16	13	10		
Material Listopad		Electrostatic Powder Coated Aluminum				
Top Cover Glass Specifications		Prismatic Patterned Tempered Glass and Flat Glass				
Liquid Capacity	lt.	5,6	7,5	1,49	1,49	1,27
Weight	Kg	41				





PRESSURE TANKS

120 lt in Pressurized Systems. - 150 lt. 170 lt. - 200 lt. - 300 lt. 500 lt.

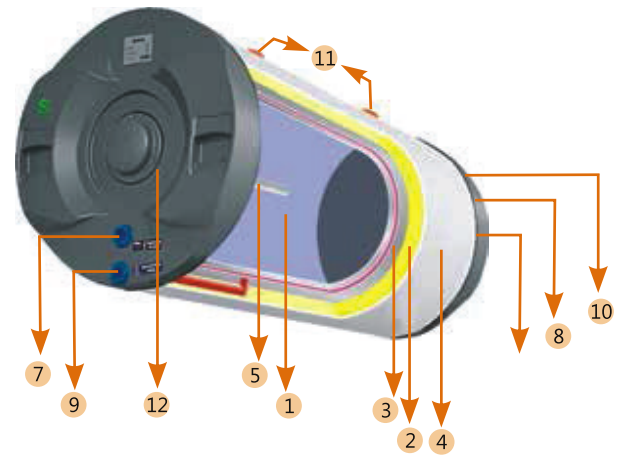
Boiler Inner Surface Coating: Enamel Coating Providing High 100% Hygiene in accordance with DIN 4753 standard

Working Principle: New generation solar energy system with heating fluid insulation

Material: Polyurethane coated sheet over The Utility Water Tank is Max.

Working Pressure: 6 Bar Heating Circuit (Outer Wall) Max. Working

Pressure: 3 Bar Optional: Electric Heater



1	Inner Tank: Made Of Enameled Steel Material.
2	Insulation: 50mm Thick Direct Injected Polyurethane
3	Outer Jacket (heating Wall)
4	Outer Coating: Metal Coated With Electrostatic Powder Coating, Baked At 200°C
5	Magnesium Anode
6	Electric heater inlet
7	Cold water inlet
8	Hot fluid return from the collector
9	Cold fluid going to the collector
10	Using hot water outlet
11	Air purifier and retort connections
12	Side protection covers



Product Model		Diameter	Length
120 E	Boiler	Ø 50mm	1220mm
150 E	Boiler		1520mm
170 E	Boiler		1620mm
200 E	Boiler	Ø 60mm	1220mm
300 E	Boiler	Ø 60mm	1720mm
500 E	Boiler	Ø 75mm	1750mm



Pressurized Solar Energy System (Enamel-Pressurized)



120 Lt.

Pressurized System

Package Elements

1 Piece L

Size According
To Preference

Collector Safety Group
Fasteners Disassembled
Coffee Table



150 Lt.

Pressurized System

Package Elements

1 Piece S

Size According
To Preference

Collector Safety Group
Fasteners Disassembled
Coffee Table



300 Lt.

Pressurized System

Package Elements

1 Piece L

Size According
To Preference

Collector Safety Group
Fasteners Disassembled
Coffee Table



170 Lt.

Pressurized System

Package Elements

1 Piece L

Size According
To Preference

Collector Safety Group
Fasteners Disassembled
Coffee Table



500 Lt.

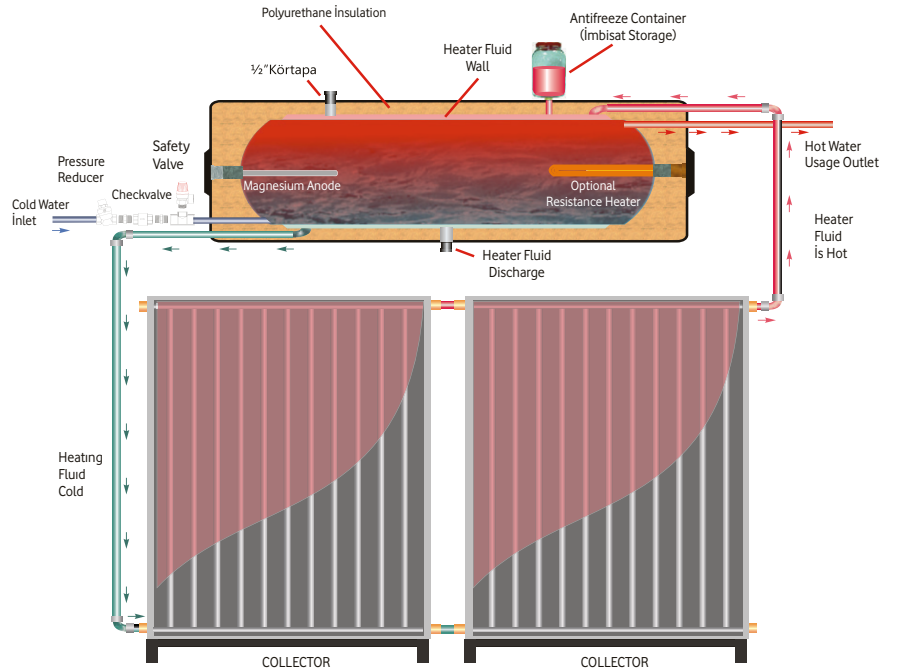
Pressurized System

Package Elements

1 Piece L

Size According
To Preference

Collector Safety Group
Fasteners Disassembled
Coffee Table





Rainbow Solar Energy Systems



Rainbow Systems to Vacuum Systems

It is Produced As an Alternative.

- * They are antifreeze (-30 C') Systems.
- * There Are 2 Solar Collectors in Each System.
- * It Is Easy And Practical To Install
- * Chrome And Painted Outer Case Types Are Available
- * Standard and tamboy cold water models vacuum systemsit has the same characteristics as and has a chrome float.



Rainbow Solar Energy Systems



Cold Water Capacity: 60 lt. 150 lt. - 200 lt.

Hot Water Capacity: 150 lt. - 200 lt.

Warehouse Interior Material: 304 Grade - Chrome/Nickel (Cr-Ni)

Warehouse Exterior Surface Material: 430 Quality - Chrome-Static Painted Sheet

Insulation Material: Polyurethane insulation

CHROME	Hot Water Tank
	Cold Water Tank
	Company
	Collector

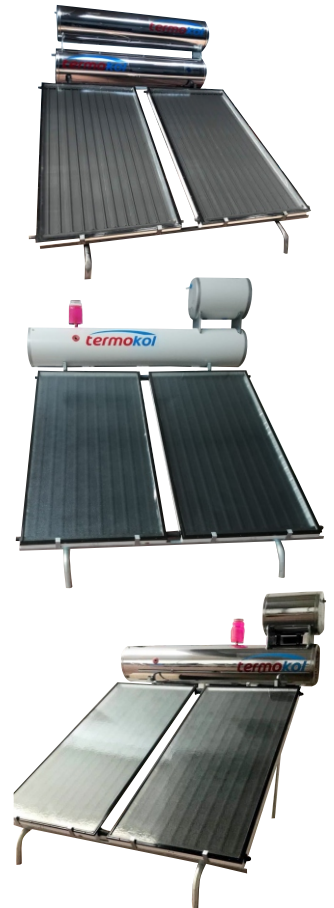
Outer Sheath	2 COLLECTOR SYSTEM EQUIPMENT		
430 Quality Chrome/Nickel (Cr-Ni)	Rated Volume And Characteristics		
	150 lt.		
	Standard	60 lt.	
	Full Size (insulated)	150 lt.	
42x1,5 mm Galvanized Pipe Profile Coating			
Day Collector With 12 Pipes 2 Pcs			

Outer Sheath	2 COLLECTOR SYSTEM EQUIPMENT		
	Rated Volume And Characteristics		
	200 lt.		
	Standard	60 lt.	
	Full Size (insulated)	200 lt.	
42x1,5 mm Galvanized Pipe Profile Coating			
Day Collector With 12 Pipes 2 Pcs			

PAINTED	Hot Water Tank
	Cold Water Tank
	Company
	Collector

Outer Sheath	2 COLLECTOR SYSTEM EQUIPMENT		
Static Powder Coated Case	Rated Volume And Characteristics		
	150 lt.		
	Standard	60 lt.	
	Full Size (insulated)	150 lt.	
42x1,5 mm Galvanized Pipe Profile Coating			
Day Collector With 12 Pipes 2 Pcs			

Outer Sheath	2 COLLECTOR SYSTEM EQUIPMENT		
	Rated Volume And Characteristics		
	200 lt.		
	Standard	60 lt.	
	Full Size (insulated)	200 lt.	
42x1,5 mm Galvanized Pipe Profile Coating			
Day Collector With 12 Pipes 2 Pcs			

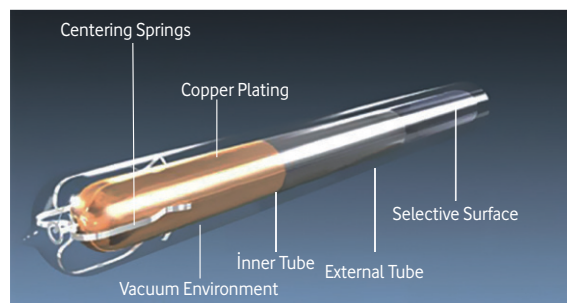




Vacuum Solar Energy System (With Chrome Nickel Case)



The heat obtained from vacuum tubes with selective Absorber surface is transferred directly to the water of use. Thus, maximum performance is ensured in the heating. It has the ability to work at -25 °C. It is a natural circulating and floating system.





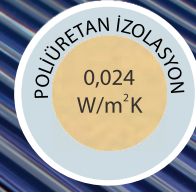
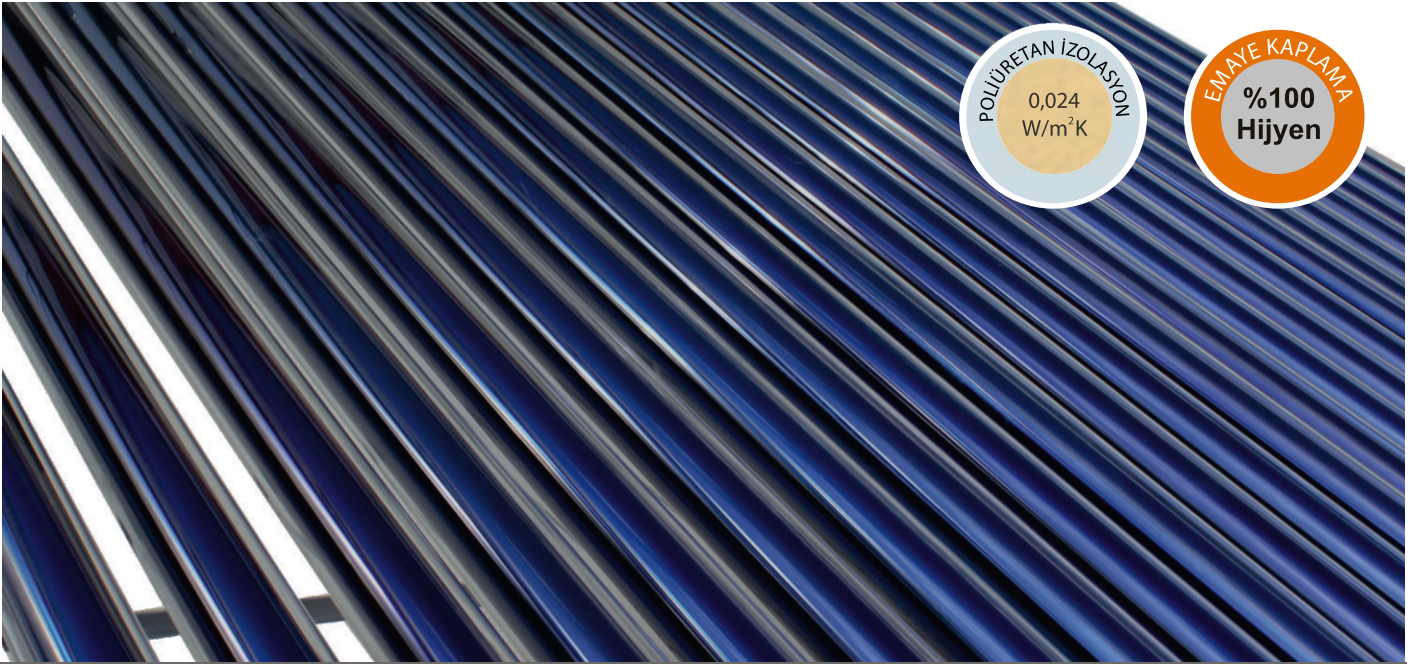
Vacuum Solar Energy System (With Chrome Nickel Case)



Cold Water Capacity: 60 Lt. -125 Lt. 150 Lt. 200 Lt.
Hot Water Capacity: 125 Lt. 150 Lt. 200 Lt. 225 Lt.
Warehouse Interior Material: 304 Grade - Chrome/Nickel (Cr-Ni)
Warehouse Outer Surface Material: 430 Quality - Chrome/Nickel (Cr-Ni)
Insulation Material: Polyurethane insulation Edge Outer
Covers: Korm/ Nickel Sheet Cover There is an Electric heater entrance in the warehouses.

		18 SYSTEM EQUIPMENT		24 SYSTEM EQUIPMENT	
Hot Water Tank	Outer Sheath 430 Quality Chrome/Nickel (Cr-Ni)	Rated Volume And Characteristics		Rated Volume And Characteristics	
Cold Water Tank		125 Lt.		150 Lt.	
Company		Standard	60 Lt.	Standart	60 Lt.
Vacuum Tube		Full Size (Insulated)	125 Lt.	Full Size (Insulated)	150 Lt.
	Full Size (Isosless)	Full Size (Isosless)			
		42x1,5mm Pipe Profile Electrostatic Powder Coating		42x1,5mm Pipe Profile Electrostatic Powder Coating	
		47x1800mm Copper Alloy 18 Pcs		47x1800mm Copper Alloy 24 Pcs	
		42x1,5mm Pipe Profile Electrostatic Powder Coating		42x1,5mm Pipe Profile Electrostatic Powder Coating	
		47x1800mm Copper Alloy 30 Pcs		47x1800mm Copper Alloy 36 Pcs	
		42x1,5mm Pipe Profile Electrostatic Powder Coating		42x1,5mm Pipe Profile Electrostatic Powder Coating	
		47x1800mm Copper Alloy 30 Pcs		47x1800mm Copper Alloy 36 Pcs	

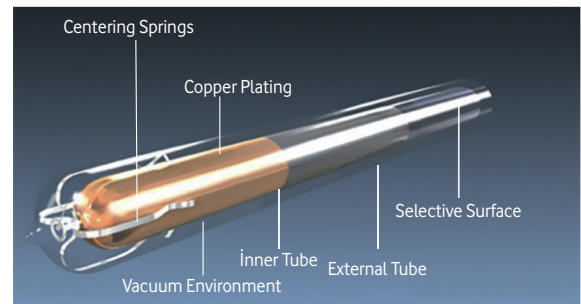




Vacuum Solar Energy System (With Painted Cover)



The heat obtained from vacuum tubes with selective Absorber surface is transferred directly to the water of use. Thus, maximum performance is ensured in the heating. It has the ability to work at -25 °C. It is a natural circulating and floating system.

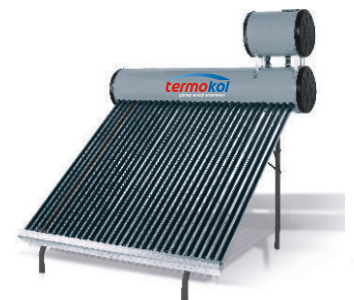
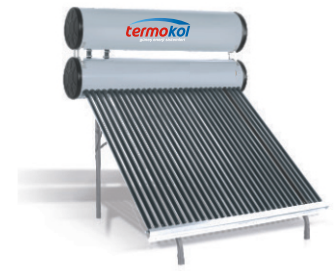




Vacuum Solar Energy System (Painted case)

Cold Water Capacity: 60 Lt. -125 Lt. 150 Lt. 200 Lt.
 Hot Water Capacity: 125 Lt. 150 Lt. 200 Lt. 225 Lt.
 Warehouse Interior Material: 304 Grade - Chrome/Nickel (Cr-Ni)
 Warehouse Outer Surface Material: 430 Quality - Chrome/Nickel (Cr-Ni)
 Insulation Material: Polyurethane insulation Edge Outer
 Covers: Korm/ Nickel Sheet Cover There is an Electric heater entrance in the warehouses.

		18 SYSTEM EQUIPMENT		24 SYSTEM EQUIPMENT	
Hot Water Tank	Outer Sheath 430 Quality Chrome/Nickel (Cr-Ni)	Rated Volume And Characteristics		Rated Volume And Characteristics	
		125 Lt.		150 Lt.	
Cold Water Tank		Standard	60 Lt.	Standart	60 Lt.
		Full Size (Insulated)	125 Lt.	Full Size (Insulated)	150 Lt.
	Full Size (Isosless)	Full Size (Isosless)			
Company		42x1,5mm Pipe Profile Electrostatic Powder Coating		42x1,5mm Pipe Profile Electrostatic Powder Coating	
Vacuum Tube		47x1800mm Copper Alloy 18 Pcs		47x1800mm Copper Alloy 24 Pcs	
		30 SYSTEM EQUIPMENT		36 SYSTEM EQUIPMENT	
Hot Water Tank	Outer Sheath 430 Quality Chrome/Nickel (Cr-Ni)	Rated Volume And Characteristics		Rated Volume And Characteristics	
		200 Lt.		225 Lt.	
Cold Water Tank		Standard	60 Lt.	Standard	60 Lt.
		Full Size (Insulated)	200 Lt.	Full Size (Insulated)	200 Lt.
	Full Size (Isosless)	Full Size (Isosless)			
Company		42x1,5mm Pipe Profile Electrostatic Powder Coating		42x1,5mm Pipe Profile Electrostatic Powder Coating	
Vacuum Tube		47x1800mm Copper Alloy 30 Pcs		47x1800mm Copper Alloy 36 Pcs	



Cappadocia Series Vertical Storage Systems

Cappadocia Serial solar energy system is a natural circulating system. No pump movement mechanism is used in the operation of the system.

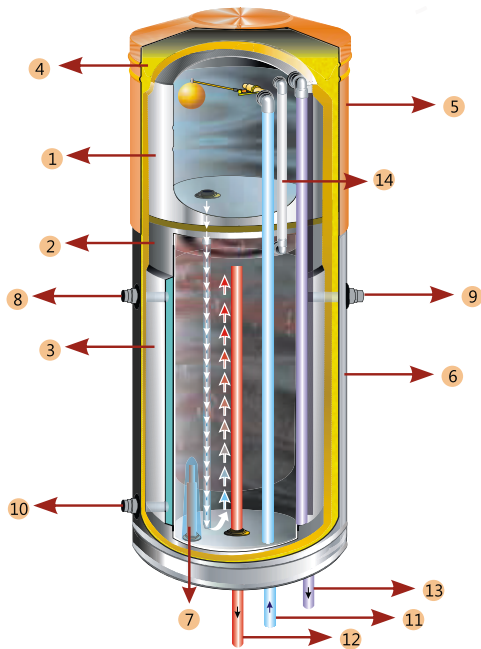
It works in a closed circuit. From the outside, it looks like a single warehouse. The inner body consists of two parts. There is cold water in the upper section and hot water in the lower section. Cold water from the mains enters the upper section first. A buoy controls the entrance of the water. When hot water is used, there is a cold water supply from the upper section to the lower section.



180 lt.
240 lt.
300 lt.

In these systems, the system works with double-walled, wall-to-wall heating method in two separate circuits

(closed circuit). There is a solar collector and a heating fluid on the outer wall of the tank, which heats the domestic water in the inner part of the tank and prevents the system from freezing. It is recommended in regions with a cold climate where frost is frequently observed and where there is no water interruption.



Cappadocia Series Warehouse Interior Structure

1	Cold Water Tank: It is made of 304 Quality Chrome Nickel material.
2	Hot Water Tank: It is made of 304 Quality Chrome Nickel material.
3	Outer Jacket (heating Cidan): Made Of 304 Quality Chrome Nickel Material.
4	Insulation: Polyurethane or Glass Wool
5	Top Outer Coating: Metal coated with electrostatic powder coating, baked at 200°C
6	Bottom Tooth Coating: Aluminum
7	Electric Heater Inlet
8	Imbisat connections
9	Hot fluid return from the collector
10	Cold fluid going to the collector
11	Cold Water Inlet
12	Using Hot Water outlet
13	Evacuation Exit
14	Ventilation



Mediterranean Series Recumbent Storage (Open and Closed) Systems

Akdeniz Series Solar Energy Systems are manufactured for places with water shortages. In areas where frost is observed, the cold water tank should be insulated.



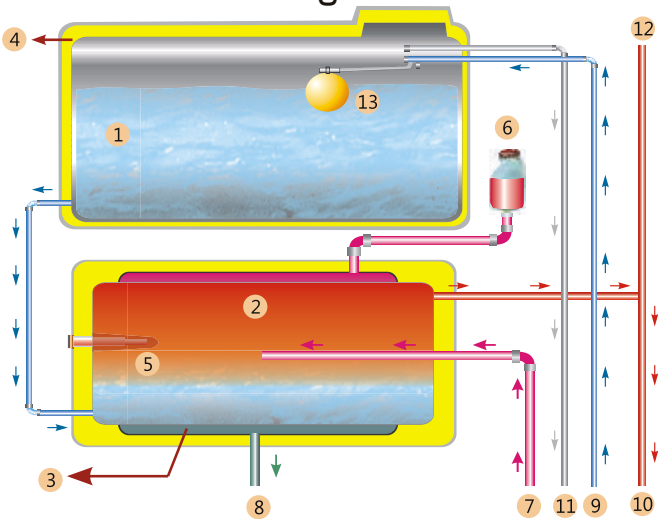
Akdeniz Series Solar Energy Systems are systems with recumbent storage, and there are two separate warehouses lying on top of each other. Of these tanks, the one on the upper side is in the form of a cold water tank, and the one on the

lower side is in the form of a hot water tank. The working principle can be used as a float, mountain circulation, closed or open circuit.

180 lt.+180 lt.

240 lt.+240 lt.

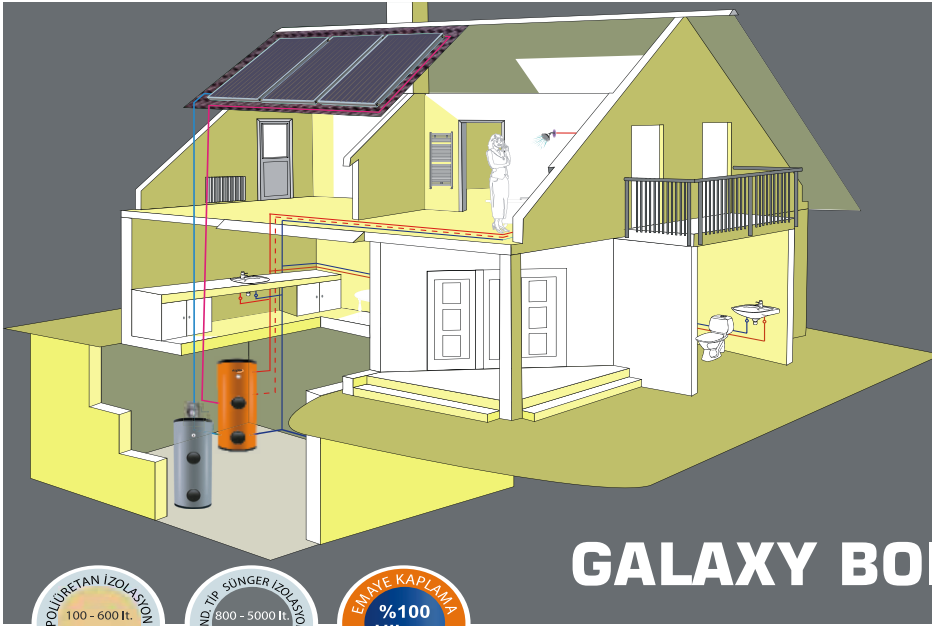
Closed Circuit Installation Diagram



Internal Structure Of Akdeniz Series Warehouse

1	Cold Water Tank: It is made of 304 Quality Chrome Nickel material.
2	Hot Water Tank: It is made of 304 Quality Chrome Nickel material.
3	Outer Jacket (heating Cidan): Made Of 304 Quality Chrome Nickel Material.
4	Insulation: Polyurethane or Glass Wool
5	Electric Heater Inlet
6	Imbisat connections
7	Hot fluid return from the collector
8	Cold fluid going to the collector
9	Cold Water Inlet
10	Using Hot Water outlet
11	Evacuation Exit
12	Ventilation
13	Buoy





POLİURETAN İZOLASYON
100 - 600 lt.
Arast

END TİP SÜNGER İZOLASYON
800 - 5000 lt.
Arast

EMAYE KAPLAMA
%100
Hijyen

GALAXY BOILER

TECHNICAL DIMENSION TABLE OF GALAKSI SINGLE COIL BOILER

MODEL	Unit	L 101	L 161	L 201	L 301	L 501	L 601	L 801	L 1001	L 1501	L 2001	L 2501	L 3001	
Capacity	lt.	100	160	200	300	500	600	800	1000	1500	2000	2500	3000	
Warehouse Diameter	mm	380	480	480	480	640	640	850	850	1050	1200	1320	1320	
Extent	mm	480	580	580	580	750	750	950	950	1150	1300	1450	1450	
Height	mm	1020	970	1120	1620	1560	1850	1540	1940	1780	1920	1880	2170	
Cold Water Boiler Inlet Hot Water Usage Boiler Outlet	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	
Circulation	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	
Thermostat Sensor Input	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	
Heater Fluid Hot Inlet - Serpentine	mm	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	
Heater Fluid Cold Outlet - Serpartin	inç	1 1/4"	1 1/4"	1 1/4"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	
Serpentine Heating Surface Area	inç	1 1/4"	1 1/4"	1 1/4"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	
Mg- Anode Coupling	m ²	0,59	0,67	0,99	1,52	2,33	2,33	3,26	3,53	3,97	4,95	5,92	7,39	
Electric heater Inlet	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	
Isolation	inç	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
Insulation Thickness		High Density - Polyurethane Insulation With Low Heat Conduction Coefficient							Özel Endüstriyel Tip Sünger İzolasyon					
Domestic Water Maximum Operating Pressure	mm	50	50	50	50	50	50	80	80	80	80	80	80	
Bar	Bar	10	10	10	10	10	10	10	10	10	10	10	10	
Gross Weight	Kg	57	70	95	129	204	225	300	390	476	630	843	1150	

TECHNICAL CAPACITY TABLE OF SINGLE SERPENTINE GALAXY BOILER

INLET OF USING WATER 10 °C - 45 °C		L 101	L 161	L 201	L 301	L 501	L 601	L 801	L 1001	L 1501	L 2001	L 2501	L 3001	L 3001
Capacity In Continuous Mode lt/h	90 °C	693	793	1248	1777	2913	2913	4078	4395	6193	6193	7407	9239	9239
	80 °C	563	644	1013	1443	2365	2365	3311	3582	5028	5028	6015	7501	7501
	70 °C	425	486	765	1089	1786	1786	2500	3041	3797	3797	4542	5664	5664
INLET OF USING WATER 10 °C - 60 °C		L 101	L 161	L 201	L 301	L 501	L 601	L 801	L 1001	L 1501	L 2001	L 2501	L 3001	L 3001
Capacity In Continuous Mode lt/h	90 °C	388	443	698	994	1630	1630	2282	2468	3465	3465	4144	5169	5169
	80 °C	280	321	505	719	1179	1179	1657	1785	2506	2506	2997	3738	3738
	70 °C	167	191	300	427	700	700	981	1061	1489	1489	1781	2221	2221
INLET OF USING WATER 10 °C - 45 °C FOR THE SOLAR SYSTEM		L 101	L 161	L 201	L 301	L 501	L 601	L 801	L 1001	L 1501	L 2001	L 2501	L 3001	L 3001
Capacity In Continuous Mode lt/h	65 °C	387	442	696	991	1624	1624	2273	2459	3452	3452	4129	5150	5150
INLET OF USING WATER 10 °C - 60 °C SOLAR SİSTEM İ ÇİN		L 101	L 161	L 201	L 301	L 501	L 601	L 801	L 1001	L 1501	L 2001	L 2501	L 3001	L 3001
Capacity In Continuous Mode lt/h	65 °C	143	163	257	365	599	599	838	907	1273	1273	1523	1899	1899
PRESSURE VALUES		L 101	L 161	L 201	L 301	L 501	L 601	L 801	L 1001	L 1501	L 2001	L 2501	L 3001	L 3001
The Flow Rate Of The Heater Fluid In The Continuous Mode Is	m ³ /h	0.7	0.8	1.25	1.8	3	3	4.1	4.4	6.2	6.2	7.4	9.2	9.2
Serpentine Pressure Loss	mmSS	102	152	80	1403	757	757	1751	2199	4736	4736	7632	13882	13882

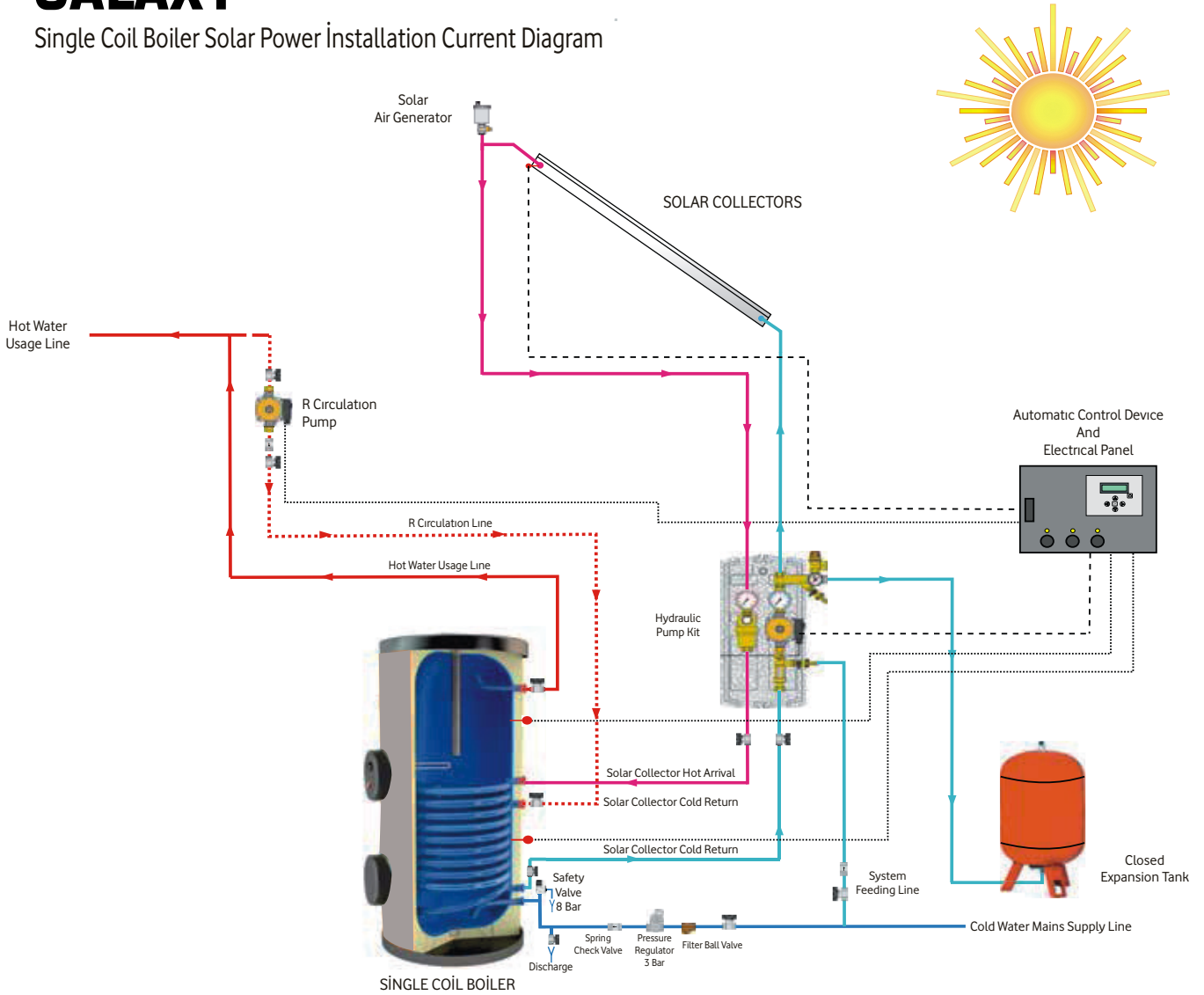
Note: In Order To Produce Hot Water Quantities Corresponding To The Temperatures Specified Above For Boilers Of Different Capacities, The Heating Fluid Must Be Supplied To The Boilers At The Flow Rate Indicated At The Bottom Of Each Table.



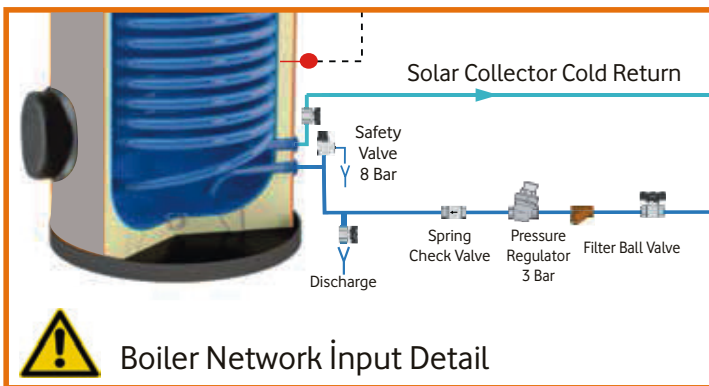
the correct installation in the dimensions is very important

GALAXY

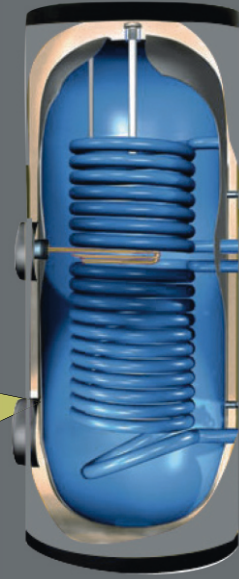
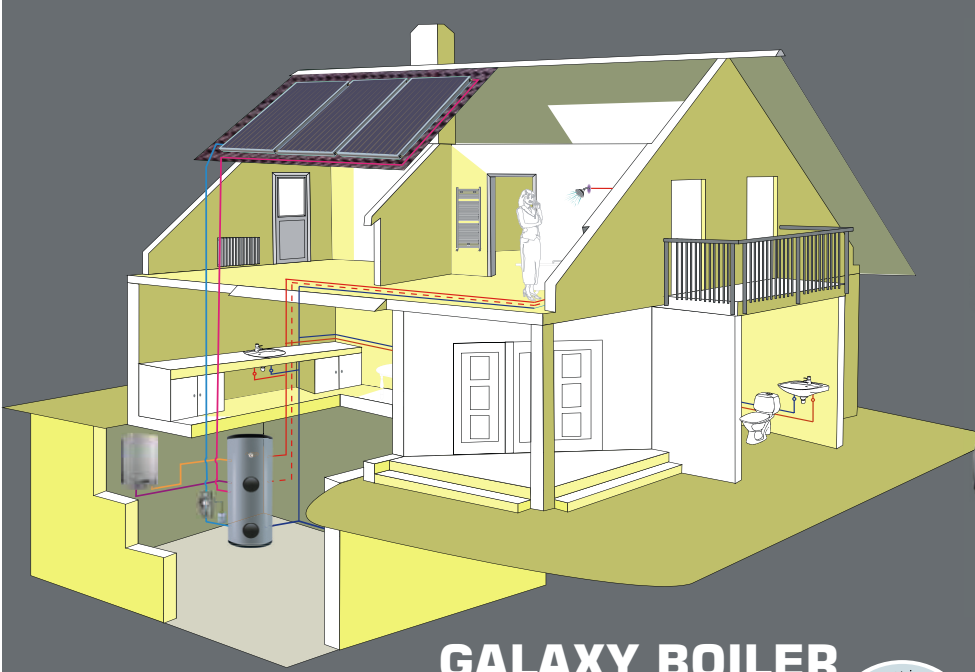
Single Coil Boiler Solar Power Installation Current Diagram



Note: In The Installation Diagram Given Above, The Electric Heater Located In The Boiler Is Installed Optionally.



Boiler Network Input Detail



GALAXY BOILER

POLİURETAN İZOLASYON
100 - 600 lt.
Arası

END. TIP SÜNGER İZOLASYON
800 - 5000 lt.
Arası

EMİYE KAPLAMA
%100
Hijyen

TECHNICAL MEASUREMENT TABLE OF THE GALAKSI DOUBLE COIL BOILER

MODEL	Unit	L 202	L 302	L 502	L 602	L 802	L 1002	L 1502	L 2002	L 2502	L 3002
Capacity	lt.	200	300	500	600	800	1000	1500	2000	2500	3000
Warehouse Diameter	mm	480	480	640	640	850	850	1050	1200	1320	1320
Extent	mm	580	580	750	750	950	950	1150	1300	1450	1450
Height	mm	1120	1620	1560	1850	1540	1940	1780	1920	1880	2170
Cold Water Boiler Introduction	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Hot Water Usage Boiler Outlet	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Circulation	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermostat Sensor Input	mm	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9	Ø9
Heater Fluid Hot Inlet - Serpentine	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Heater Fluid Cold Outlet - Serpartin	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Serpentine Heating Surface Area	m ²	0,99	1,52	2,33	2,33	3,26	3,53	3,97	4,95	5,92	7,39
Heater Fluid Hot Inlet - Upper Coil	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Heater Fluid Cold Outlet - Upper Serpentine	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
The Heating Surface Area Of The Upper Erpantine	m ²	0,78	1,03	1,41	1,41	1,65	1,80	2,67	2,73	3,00	3,46
Mg- Anode Coupling	inç	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Electric heater Inlet	inç	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Isolation		Polüretan İzolasyon					Özel Endüstriyel Tip Sünger İzolasyon				
Insulation Thickness	mm	50	50	50	50	80	80	80	80	80	80
Domestic Water Maximum Operating Pressure	Bar	10	10	10	10	10	10	10	10	10	10
Gross Weight	Kg	110	145	266	295	326	432	511	673	895	1223

Galaksi Series Double Serpentine Boilers are devices used to transfer the heat obtained in solar collectors to the utility water with the help of a lower serpentine. In cases where the solar energy is not sufficient, the heat obtained from the boiler or boiler is transferred to the utility water with the help of the upper serpentine. Thus, the boiler works in a bivalent way. As the third energy source, an electric heater can be installed optionally.

Thermokol Galaksi Series Boilers have an aesthetic and innovative boiler design and are produced in accordance with internationally recognized CE standards.

Thanks to its special design, the heat energy obtained in the serpentine shows a homogeneous distribution into the boiler.

The inner surface coating is coated with enamel, which is corrosion resistant, provides 100% hygiene in accordance with DIN 4753 standard.

The Maximum Working Pressure of the Boilers is 10 Bar.

Electric Heater Mg/Anode Indicator and Thermometer can be attached to the boilers optionally

TECHNICAL CAPACITY TABLE OF THE DOUBLE SERPENTINE GALAXY BOILER

Üst Serpantin için

KULLANILMA SUYU GİRİŞİ 10 °C - 45 °C KALORİFER İÇİN	L 202	L 302	L 502	L 602	L 802	L 1002	L 1502	L 2002	L 2502	L 3002	L	
The Quality Of Continuous Planting (l/h)	90 °C	974	1201	1756	1756	2064	2256	2279	2279	3116	3553	3
	80 °C	791	975	1426	1426	1676	1831	1850	1850	2530	2885	2
	70 °C	597	736	1077	1077	1266	1383	1402	1402	1916	2185	2

KULLANILMA SUYU GİRİŞİ 10 °C - 60 °C KALORİFER İÇİN	L 202	L 302	L 502	L 602	L 802	L 1002	L 1502	L 2002	L 2502	L 3002	L	
The Quality Of Continuous Planting (l/h)	90 °C	545	672	983	983	1155	1262	1831	1831	2546	2905	2
	80 °C	394	486	711	711	835	913	1320	1320	1820	2060	2
	70 °C	234	289	422	422	496	540	787	787	1095	1248	1

UPPER SERPENTINE PRESSURE VALUES	L 202	L 302	L 502	L 602	L 802	L 1002	L 1502	L 2002	L 2502	L 3002	L	
The Flow Rate Of The Heater Fluid In The Continuous Mode Is	m ³ /h	1,01	2,48	1,83	1,83	2,15	2,35	3,55	3,55	3,92	4,51	4
Serpentine Pressure Loss	mmSS	38	433	153	153	227	291	845	845	1000	1427	1

Alt Serpantin için

KULLANILMA SUYU GİRİŞİ 10 °C - 45 °C SOLAR SİSTEM İÇİN	L 202	L 302	L 502	L 602	L 802	L 1002	L 1502	L 2002	L 2502	L 3002	L	
The Quality Of Continuous Planting (l/h)	65 °C	696	994	1670	1670	2273	2456	3452	3452	4129	5130	5

KULLANILMA SUYU GİRİŞİ 10 °C - 60 °C SOLAR SİSTEM İÇİN	L 202	L 302	L 502	L 602	L 802	L 1002	L 1502	L 2002	L 2502	L 3002	L	
The Quality Of Continuous Planting (l/h)	65 °C	257	367	616	616	838	907	1273	1273	1523	1899	1

LOWER SERPENTINE PRESSURE VALUES	L 202	L 302	L 502	L 602	L 802	L 1002	L 1502	L 2002	L 2502	L 3002	L	
The Flow Rate Of The Heater Fluid In The Continuous Mode Is	m ³ /h	0,7	1	1,7	1,7	2,3	2,5	6,2	6,2	7,4	9,2	9
Serpentine Pressure Loss	mmSS	25	113	235	235	544	676	4736	4736	7632	13882	11

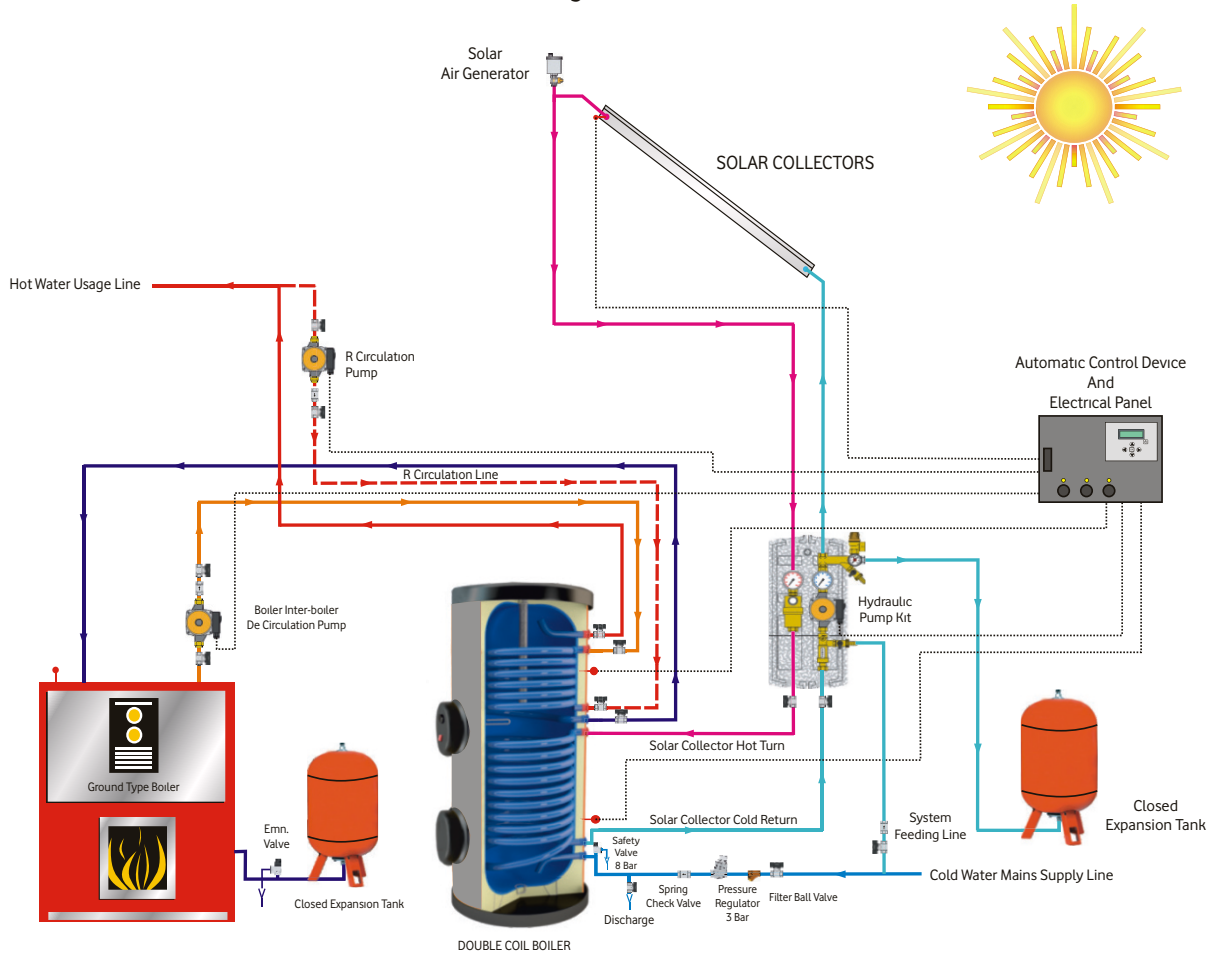
Not: Yukarıda değişik kapasitelerdeki boilerler için belirtilmiş sıcaklıklara denk gelen sıcak su miktarlarının üretilebilmesi için, her tablonun alt kısmında belirtilen debide ısıtıcı aşkından boylere gelmesi gerekmektedir.



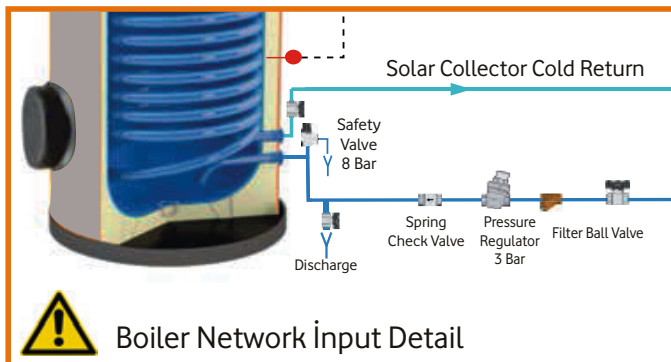
the correct installation in the dimensions is very important

GALAXY

Double Coil Boiler Solar Power Installation Current Diagram

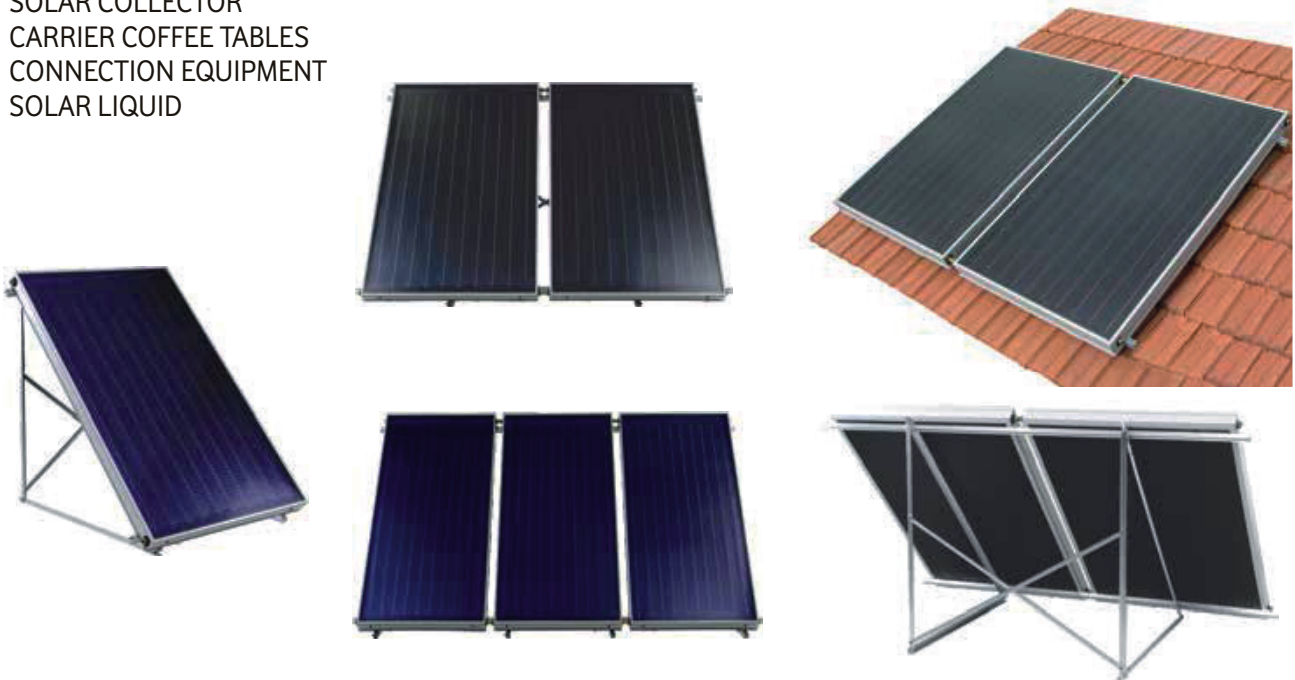


Note: In The Installation Diagram Given Above, The Electric Heater Located In The Boiler Is Installed Optionally.



Accessories And Equipment

SOLAR COLLECTOR
CARRIER COFFEE TABLES
CONNECTION EQUIPMENT
SOLAR LIQUID



Connection Equipment



Product Name and Product Description

3/4" Corner Connection Record
3/4" Nipple Record
3/4" Brass Blind Automatic Air Purifier (Imported)
Imported Safety Valve
Safety Valve Domestic
Pressure Regulator 1/2"
Domestic Imported Pressure Regulator 1/2"
Imported Pressure Regulator 1/2"
3/4 Check Valve

Solar Liquid (Red Antifreeze)



Solar Energy Liqui
dorganic Red
-37°C In 50% Mixture

Solar Energy Liqui
Red -37°C
In 50% Mixture - 20°C

Capacity

Antifreeze 3 lt.

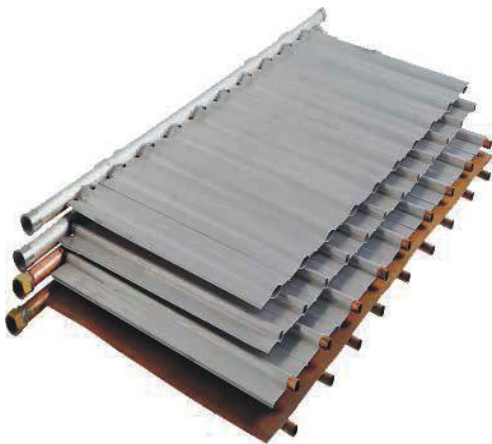
Antifreeze 15 kg.

Accessories And Equipment

Absorber - Panels
Solar Control Panels



Absorber Panels



Product Name And Description

12-Tube Self-Finned Round Panel
10-Tube Self-Finned Oval Panel
16 Tubular Self-Finned Round Alm. Dashboard
13-Tube Self-Winged Oval Alm. Dashboard
10-Tube - Ultrasonically Welded Copper Panel
8-Tube - Ultrasonically Welded Copper Panel
10-Tube - Panel with Ultrasonic Welded Selective Face
8-Tube - Panel with Ultrasonic Welded Selective Face

Solar Control Panels And Equipment



Product Name

Solar Control Paneli (Single)
Solar Control Paneli (Double)



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