



SOLIMPEKS
SOLIMPEKS SOLAR CORP.





SOLIMPEKS Enerji Paz. Ltd. Şti.
İZMİR / TURKEY



SOLIMPEKS Solar SL.
SEVILLE / SPAIN



SOLIMPEKS Solar GMBH
MUNICH/GERMANY

HEADQUARTERS KONYA / TURKEY





● COMPANY

Solimpeks' beginnings as a solar manufacturer date back to 1977. R&D and quality-oriented company members accelerated the growth in a short time and carried the competition all over the world in the renewable energy field. Now the company has a presence as the world's leading manufacturer of high-quality solar energy products in almost every corner under the sun. Solimpeks employs over 300 members in its locations in Turkey, Germany and Spain.



CERTIFICATES



CERTIFICATES



The "Solarkeymark" denotation, which is issued by the ESTIF and has, throughout Europe, become the most widely accepted certificate for solar thermal products, has been made obligatory for all goods entering Germany since January 2007 and the unique certificate to get refund from EU countries.



The Federal Office of Economics and Export Control (BAFA) is a superior federal authority subordinated to the Federal Ministry of Economics and Technology (BMWi) in Germany. A central task of BAFA in the foreign trade sector is export control. In the energy sector BAFA implements measures to promote a better use of renewable energies, the saving of energy, for the maintenance and extension of the power-heat-link up and for German coal mining, and participates in crisis-contingency measures in the mineral oil sector.



The German "TÜV" (Technischer Überwachungs Verein) certificate.



SRCC provides authoritative performance ratings, certifications and standards for renewable energy products, with the intention of protecting and providing guidance to consumers, incentive providers, government, and the industry.



IEC (International Electrotechnical Commission) prepares International Standards for systems of photovoltaic conversion of solar energy into electrical energy and for all the elements in the entire photovoltaic energy system.



The "ISFH" (Institut für Solarenergieforschung) certificate issued by the Leibniz University Solar Energy Research Institute.



The "ITW" (Institut für Thermodynamik und Wärmetechnik) certification issued by the Thermodynamics and Heating Techniques Institute at Stuttgart University.



The SEAI (Sustainable Energy Agency of Ireland)



The "CE" (Conformité Européenne) approval certifying health and safety in Europe.



The Turkish Standards Compliance Certificate:
This certification specifies that the authorized manufacturer's products comply with Turkish Standards.



The "INTA" (Instituto Nacional De Técnica Aeroespacial) award issued by the Spain's International Quality Institute,



Occupational health and safety management system.



The National Renewable Energy Centre is a technology center specialised in applied research, and the development and promotion of renewable energy. It is highly rated and has acknowledged national and international prestige.



The MCS certificates microgeneration technologies used to produce electricity and heat from renewable sources in the UK.



Worldwide accredited association that promotes the development of Italy through the culture of quality.



Eurofins Scientific is an international life sciences company which provides a unique range of analytical testing services to clients across multiple industries



Fraunhofer is Europe's largest application-oriented research organization based in Munich, GERMANY.



ISO 14001 Environmental Management System (EMS) provides a continuous cycle of planning, implementing, reviewing, and improving the processes and actions that are performed to meet business and environmental goals.

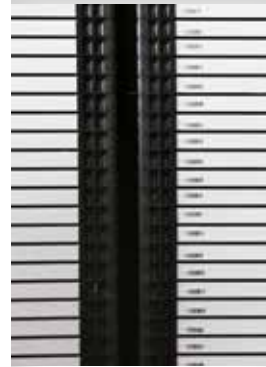


ISO 10002, Quality management - Customer Satisfaction - Guidelines for complaints handling in organizations, synergizes the best thinking of international experts from two domains: quality management and consumer issues.

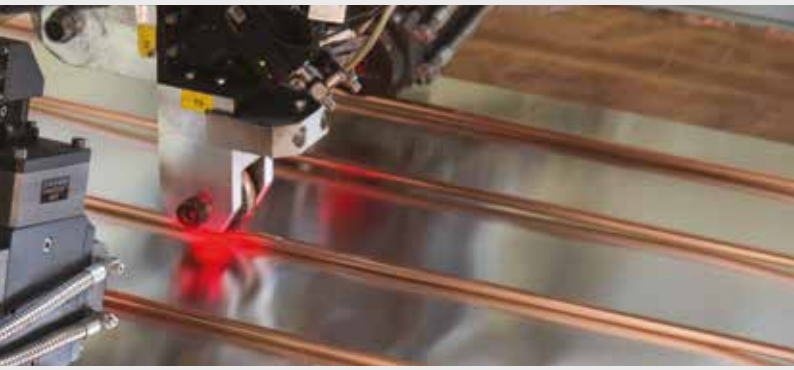


ISO 9001:2000 specifies requirements for a quality management system where an organization, needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements.

PRODUCTION



Solimpeks products are based on defined technology platforms that are produced at a coordinated industrialisation rate. From robotised production systems with a high level of automation to custom-made, project-specific products: all our products are manufactured in line with industry quality standards. At Solimpeks outdoor test bench, the solar products are subject to extreme climate conditions and endurance tests. More than enough tests of the overall system's compound of collector are strictly applied at the end.



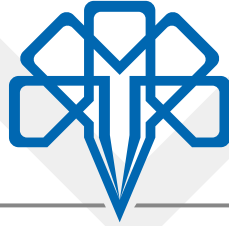
QUALITY

Quality assurance is a top priority at Solimpeks as only the best products bring long-term success to our customers. Solimpeks has been certified in accordance with ISO 9001. To make sure that only products of the highest quality leave our plant, quality assurance begins with semi-finished materials and ends with packaged products. During production, each solar product passes through a multi-stage quality assurance programme with strict monitoring and quality control. These same hold true for our production processes and technologies.

R&D



Solar power is as ancient as the world we live in, so under the sun, nothing is new. However, converting the sunlight into more useful energy forms is a constant research and development subject from the first man to today. Solimpeks understands and knows very well the importance of R&D to convert the solar power into heat and electricity power efficiently and at low cost, especially during the climate change era.



SOLIMPEKS
— A C A D E M Y —



At Solimpeks we offer a variety of educational opportunities and resources for engineers, designers, contractors, technicians, installers and students. We have developed a wealth of print, video and software resources that provide in-depth information and training on a number of topics from basic solar design and operation, to detailed technical papers.

CONTENT

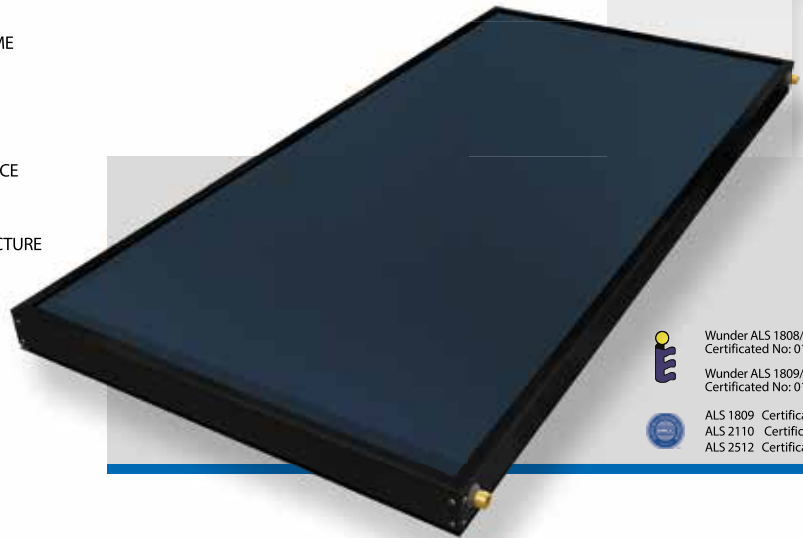
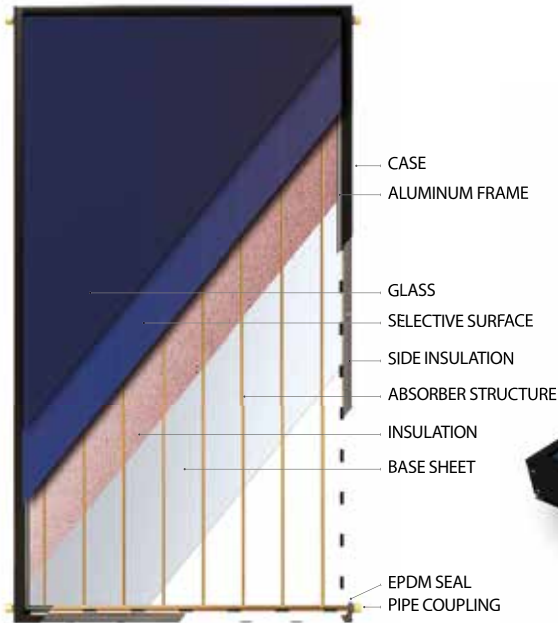
ABOUT US	03	COMPANY
	05	CERTIFICATES
	06	PRODUCTION
	07	QUALITY
	08	R&D
	09	SOLIMPEKS ACADEMY
HOT WATER	12	SOLAR THERMAL COLLECTORS WUNDER ALS
	13	WUNDER ANSG
	14	WUNDER ALS MEANDER
	15	WUNDER CLS MEANDER
	16	WUNDER ALS HORIZONTAL
	17	WUNDER CLS HORIZONTAL
	18	WUNDER CLSF
	19	WUNDER CNSG
	20	WUNDER ANP
	21	WUNDER CNP
	22	THERMOSIPHON SYSTEMS TSM
	23	TSM ECO
	24	SOLAR TANKS SOLIKOMBI
	25	SOLITANK
	26	SOLIBUFFER
	27	TSM
	28	SOLAR HOSES SOLIFLEX
	29	SOLAR THERMAL MOUNTING KITS MOUNTING KITS
	30	SOLAR THERMAL ACCESSORIES ACCESSORIES
ELECTRICITY	32	PV MODULES POLY CRYSTALLINE MODULE
	33	MONO CRYSTALLINE MODULE
	34	PV MOUNTING KITS
	35	PV MOUNTING PARTS
HYBRID	37	PV-T PANELS VOLTHER POWERVOLT
	38	VOLTHER POWERTHERM

HOT WATER



WUNDERALS

Solar Keymark certified
Almeco-Tinox highly selective aluminum
Rock wool insulation
Copper pipe
Low iron tempered glass
Laser welding
10 years warranty



Wunder ALS 1808/2108/2510
Certificated No: 011-752248 F

Wunder ALS 1809/2110/2512
Certificated No: 011-751941 F



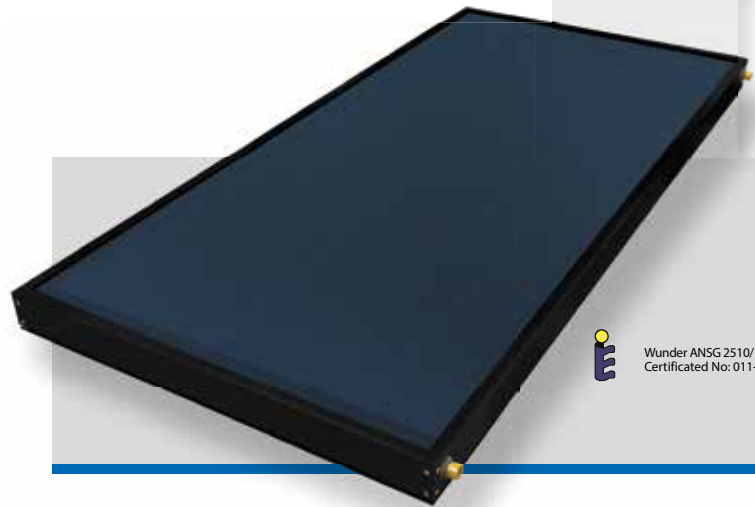
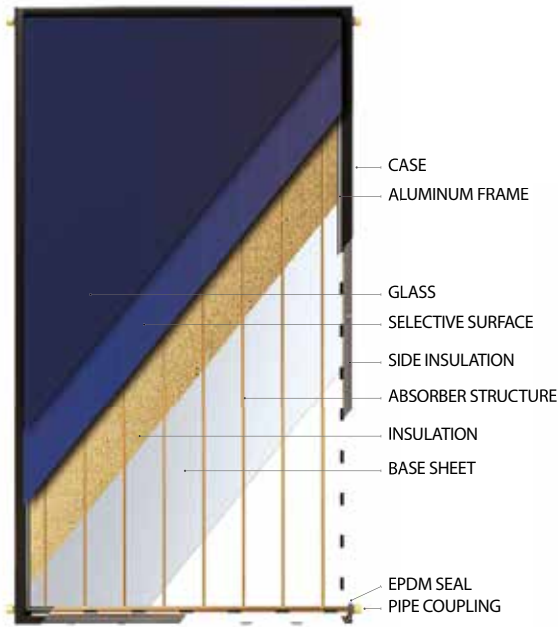
ALS 1809 Certificated No: 10001863
ALS 2110 Certificated No: 10001864
ALS 2512 Certificated No: 10001865

TECHNICAL SPECIFICATIONS

		Wunder ALS 2510 / 2512	Wunder ALS 2108 / 2110	Wunder ALS 1808 / 1809
	PRODUCT CODE	MA-0039 / MA- 0041	MA- 0032 / MA- 0034	MA- 0028 / MA- 0030
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90	1927x927x90
	CASING	ElectrostaticPaintedAluminumCase	ElectrostaticPaintedAluminumCase	ElectrostaticPaintedAluminumCase
	WEIGHT(kg)	44	37,2	34
	GROSS AREA (m ²)	2,42	2,07	1,79
	APERTURE AREA (m ²)	2,24	1,92	1,62
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89	1,59
	ABSORBER MATERIAL	Almeco-Tinox-HighlySelectiveAluminum	Almeco-Tinox-HighlySelectiveAluminum	Almeco-Tinox-HighlySelectiveAluminum
	ABSORPTANCE / EMITTANCE	0,95 / 0,04	0,95 / 0,04	0,95 / 0,04
COPPER TUBES	WELDING METHOD	Laser Welding	Laser Welding	Laser Welding
	HEAT CARRIER VOLUME (lt)	1,27	1,07	1
	DIAMETER OF ABSORBERTUBE/HEADER TUBE (mm)	8 / 18	8 / 18	8 / 18
GLASS	NUMBER OF TUBE	10 / 12	9 / 10	8 / 9
	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4	4
INSULATION	INSULATION MATERIAL	Rock Wool	Rock Wool	Rock Wool
	DENSITY OF WOOL (kg/m ³)/THICKNESS OF WOOL (mm)	50 / 40	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	194,5/203	194,5/203	194,5/203
	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6	8,6
	NOMINAL FLOW RATE (lt/h)	120	105	100
	BASE SHEETING	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER ANSG

Solar Keymark certified
Almeco-Tinox highly selective aluminum
Copper pipe
Glass wool insulation
Normal iron tempered glass
Laser welding
10 years warranty



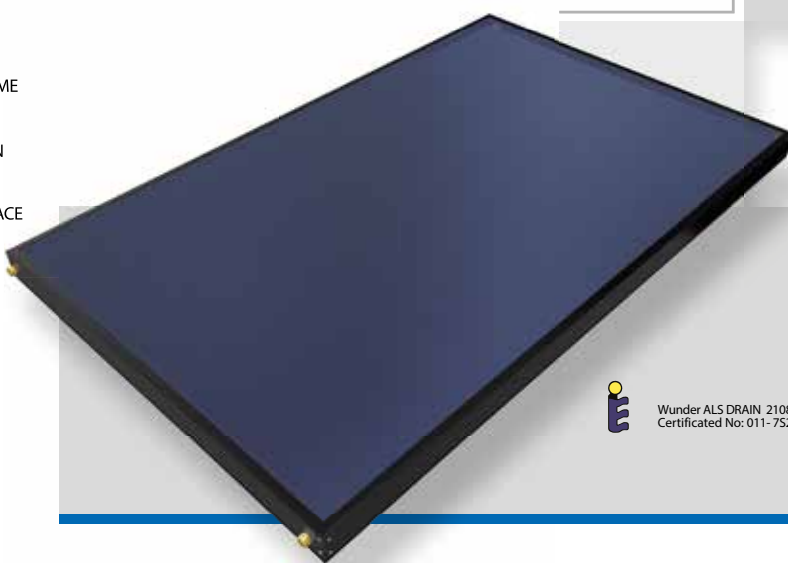
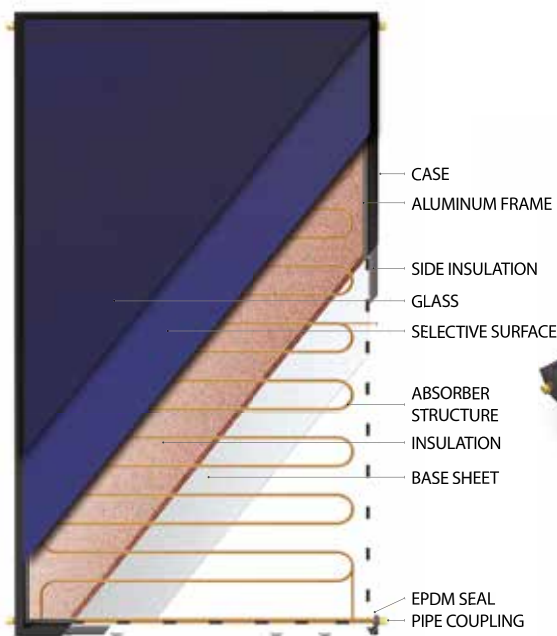
 Wunder ANSG 2510/ 2108
Certificated No: 011-752322 F

TECHNICAL SPECIFICATIONS

		Wunder ANSG 2510	Wunder ANSG 2108	Wunder ANSG 1808
	PRODUCT CODE	MA- 0053	MA- 0049	MA- 0045
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90	1927x927x90
	CASING	ElectrostaticPaintedAluminumCase	ElectrostaticPaintedAluminumCase	ElectrostaticPaintedAluminumCase
	WEIGHT(kg)	44	37,2	34
	GROSS AREA (m ²)	2,42	2,07	1,79
	APERTURE AREA (m ²)	2,24	1,92	1,62
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89	1,59
	ABSORBER MATERIAL	Almeco-Tinox-HighlySelectiveAluminum	Almeco-Tinox-HighlySelectiveAluminum	Almeco-Tinox-HighlySelectiveAluminum
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Laser Welding	Laser Welding	Laser Welding
	HEAT CARRIER VOLUME (lt)	1,27	1,07	1
COPPER TUBES	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	8 / 18	8 / 18	8 / 18
	NUMBER OF TUBE	10	9	8
GLASS	GLASS MATERIAL	Normal Iron Tempered Glass	Normal Iron Tempered Glass	Normal Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4	4
INSULATION	INSULATION MATERIAL	Glass Wool	Glass Wool	Glass Wool
	DENSITY OF WOOL (kg/m ³) / THICKNESS OF WOOL (mm)	14 / 50	14 / 50	14 / 50
	STAGNATION TEMPERATURE (C)	190	190	190
MAXIMUM RATING	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6	8,6
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BASE SHEETING	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER ALS MEANDER

Solar Keymark certified
Almeco-Tinox highly selective aluminum
Rock wool insulation
Copper pipe
Laser welding
Meander system
10 years warranty



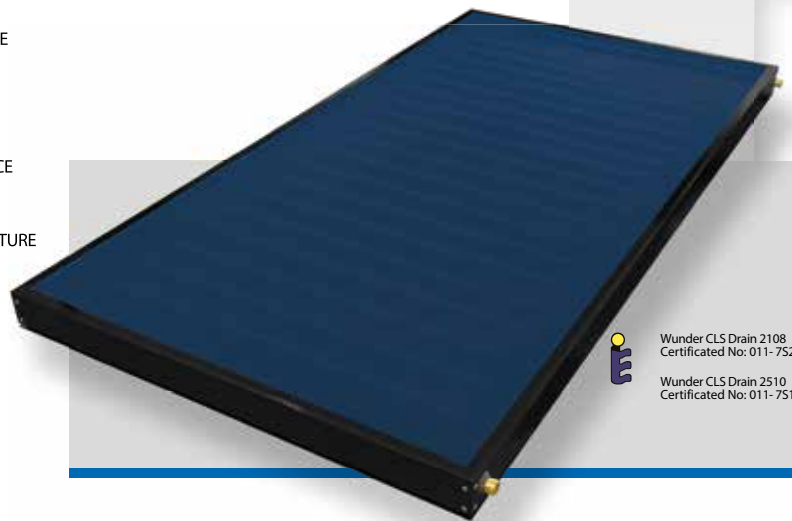
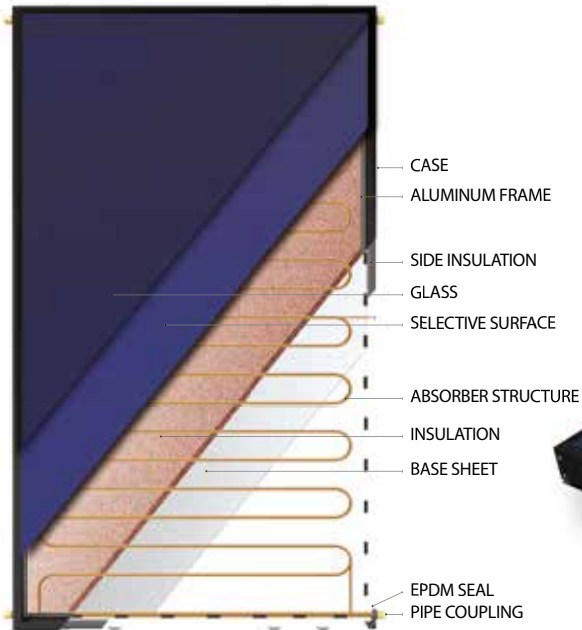
 Wunder ALS DRAIN 2108/ 2510
Certificated No: 011- 752021 F

TECHNICAL SPECIFICATIONS

		Wunder ALS 2510 Drain	Wunder ALS 2108 Drain
PRODUCT CODE		MA- 0044	MA- 0038
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90
	CASING	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
	WEIGHT(kg)	44	37,2
	GROSS AREA (m ²)	2,42	2,07
	APERTURE AREA (m ²)	2,24	1,92
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89
	ABSORBER MATERIAL	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Laser Welding	Laser Welding
	HEAT CARRIER VOLUME (lt)	1,27	1,07
COPPER TUBES	DIAMETER OF ABSORBERTUBE / HEADERTUBE (mm)	10 / 18	10 / 18
	NUMBER OF TUBE	1	1
GLASS	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4
INSULATION	INSULATION MATERIAL	Rock Wool	Rock Wool
	DENSITYOFWOOL(kg/m ³)/THICKNESSOFWOOL (mm)	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	192	192
	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6
	NOMINAL FLOW RATE (lt/ h)	120	105
	BASE SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER CLS MEANDER

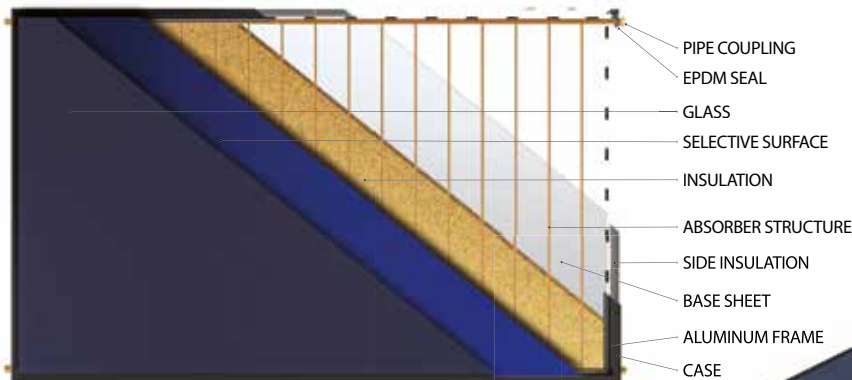
Solar Keymark certified
Almeco-Tinox highly selective copper
Rock wool insulation
Copper pipe
Ultrasonic welding
Low iron tempered glass
Meander system
10 years warranty



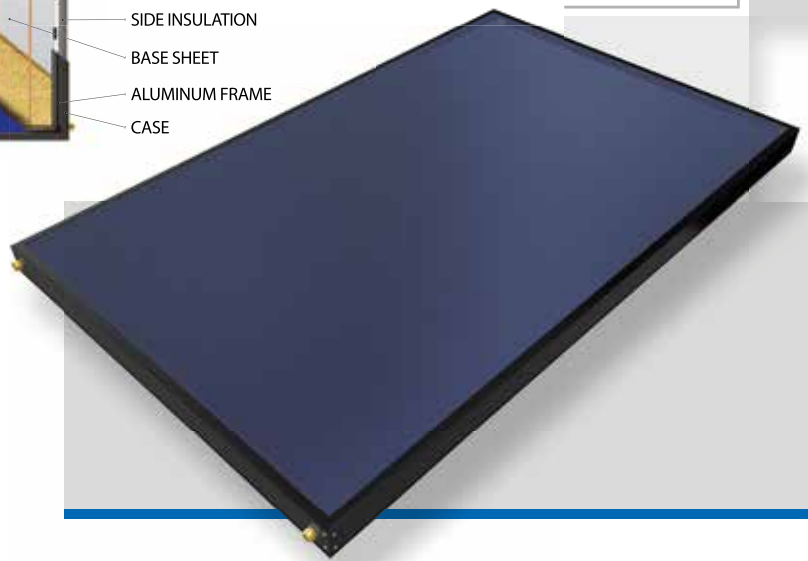
TECHNICAL SPECIFICATIONS

		Wunder CLS 2510 Drain	Wunder CLS 2108 Drain
	PRODUCT CODE	MA- 0399	MA- 0139
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90
	CASING	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
	WEIGHT(kg)	44	37,2
	GROSS AREA (m ²)	2,42	2,07
	APERTURE AREA (m ²)	2,24	1,92
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89
	ABSORBER MATERIAL	Almeco-Tinox Highly Selective Copper	Almeco-Tinox Highly Selective Copper
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Ultrasonic Welding	Ultrasonic Welding
	HEAT CARRIER VOLUME (lt)	1,27	1,07
COPPER TUBES	DIAMETER OF ABSORBERTUBE/HEADERTUBE (mm)	10 / 18	10 / 18
	NUMBER OF TUBE	1	1
GLASS	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4
INSULATION	INSULATION MATERIAL	Rock Wool	Rock Wool
	DENSITY OF WOOL (kg/m ³) / THICKNESS OF WOOL (mm)	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	211	211
	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6
	NOMINAL FLOW RATE (lt / h)	120	105
	BASE SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER ALS HORIZONTAL



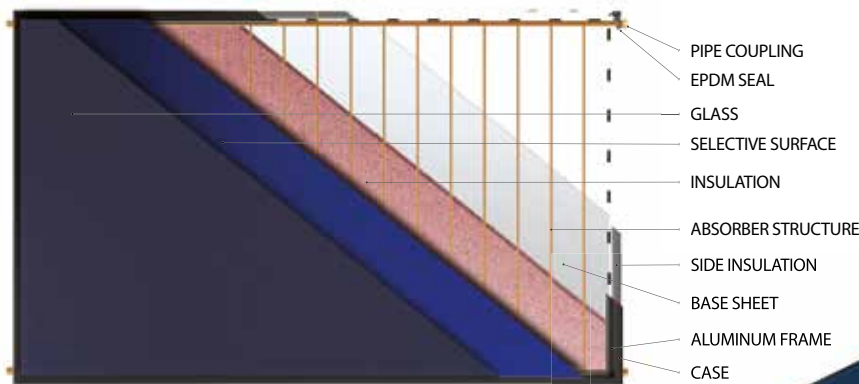
Solar Keymark certified
Almeco-Tinox highly selective aluminum
Rock wool insulation
Copper pipe
Low iron tempered glass
Laser welding
Horizontal system
10 years warranty



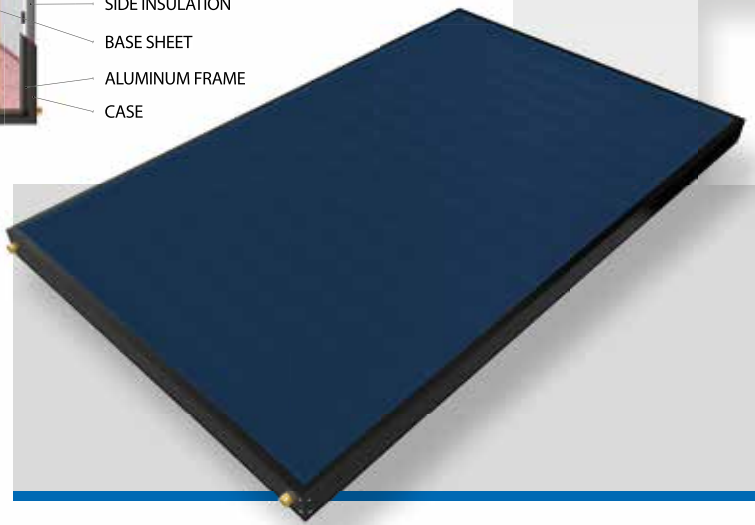
TECHNICAL SPECIFICATIONS

		Wunder ALS 2517 Horizontal	Wunder ALS 2117 Horizontal
PRODUCT CODE		MA- 0043	MA- 0036
TECHNICAL DATA	DIMENSIONS (mm)	1218x1988x90	1041x1988x90
	CASING	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
	WEIGHT(kg)	44	37,2
	GROSS AREA (m ²)	2,42	2,07
	APERTURE AREA (m ²)	2,24	1,92
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89
	ABSORBER MATERIAL	Almeco-Tinox Hhighly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Laser Welding	Laser Welding
COPPER TUBES	HEAT CARRIER VOLUME (lt)	1,88	1,6
	DIAMETER OF ABSORBER TUBE / HEAD TUBE (mm)	8 / 18	8 / 18
	NUMBER OF TUBE	17	17
GLASS	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4
INSULATION	INSULATION MATERIAL	Rock Wool	Rock Wool
	DENSITY OF WOOL (kg/m ³) / THICKNESS OF WOOL (mm)	50 / 40	50 / 40
	STAGNATION TEMPERATURE (°C)	211	211
MAXIMUM RATING	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6
	NOMINAL FLOW RATE (lt / h)	120	105
	BASE SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER CLS HORIZONTAL



Solar Keymark certified
Almeco-Tinox highly selective copper
Rock wool insulation
Copper pipe
Ultrasonic welding
Low iron tempered glass
Meander system
10 years warranty

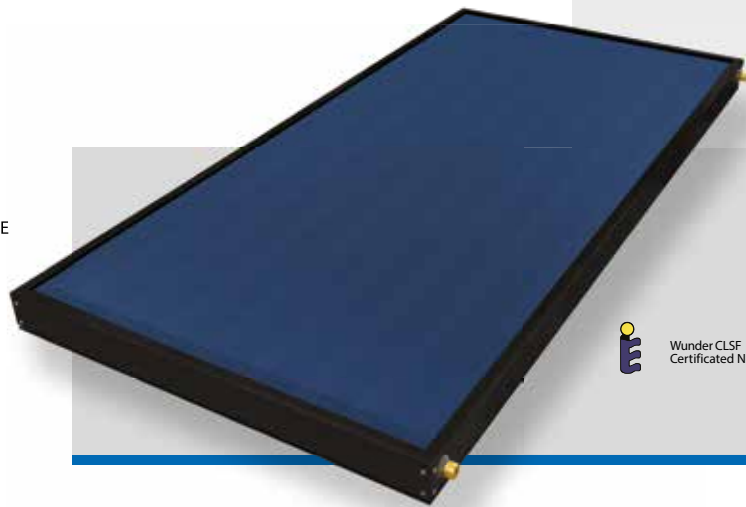
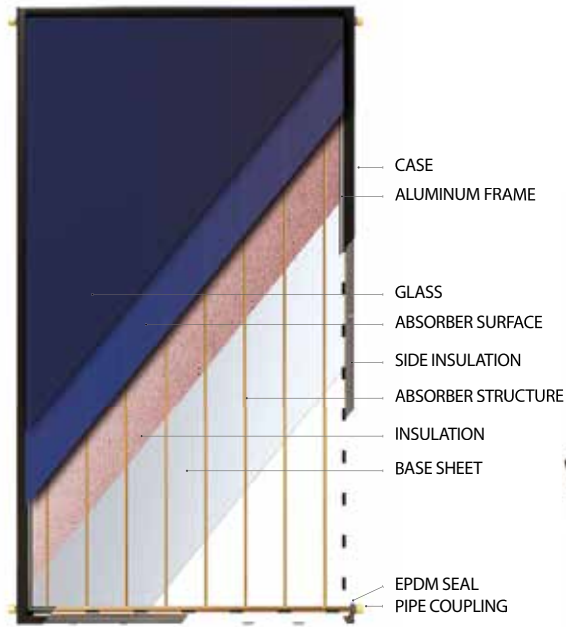


TECHNICAL SPECIFICATIONS

		Wunder CLS 2510 Horizontal	Wunder CLS 2108 Horizontal
PRODUCT CODE		MA- 0105	MA- 0096
TECHNICAL DATA	DIMENSIONS (mm)	1218x1988x90	1041x1988x90
	CASING	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
	WEIGHT(kg)	44	37,2
	GROSS AREA (m ²)	2,42	2,07
	APERTURE AREA (m ²)	2,24	1,92
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89
	ABSORBER MATERIAL	Almeco-Tinox Highly Selective Copper	Almeco-Tinox Highly Selective Copper
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Ultrasonic Welding	Ultrasonic Welding
	HEAT CARRIER VOLUME (lt)	1,88	1,6
COPPER TUBES	DIAMETER OF ABSORBER TUBE / HEADERTUBE (mm)	8 / 18	8 / 18
	NUMBER OF TUBE	17	17
GLASS	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4
INSULATION	INSULATION MATERIAL	Rock Wool	Rock Wool
	DENSITYOFWOOL(kg/m ³)/THICKNESSOFWOOL(mm)	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	232	232
	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6
	NOMINAL FLOW RATE (lt/ h)	120	105
	BASE SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
MOUNTING TYPE		Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER CLSF

Solar Keymark certified
Almeco-Tinox highly selective copper
Rock wool insulation
Copper pipe
Low iron tempered glass
Ultrasonic welding
10 years warranty



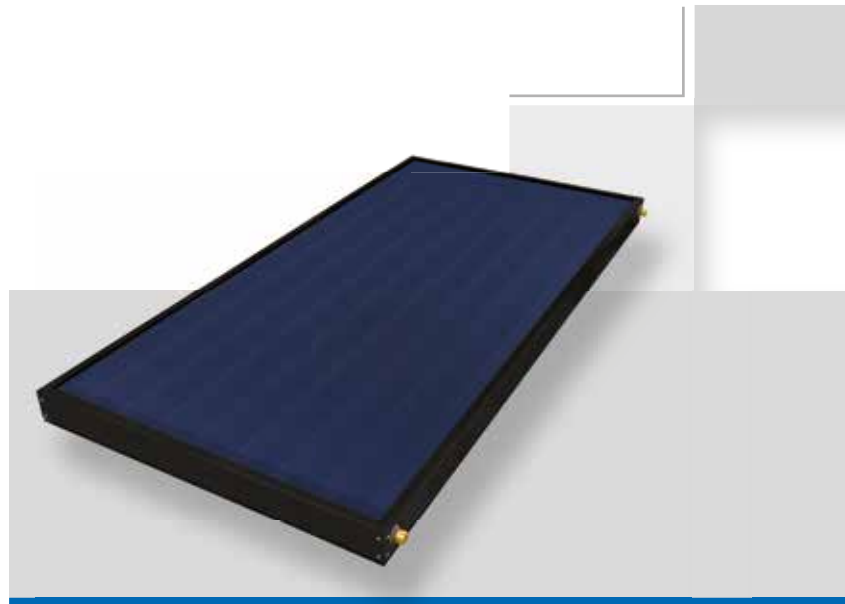
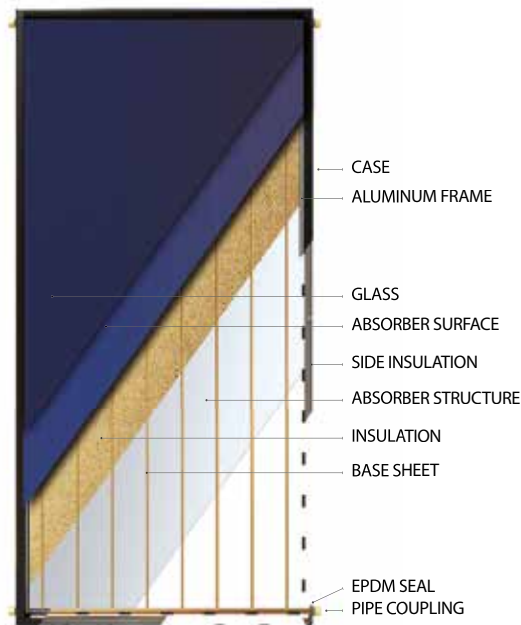
 Wunder CLSF
Certificated No: 011- 75936 F

TECHNICAL SPECIFICATIONS

		Wunder CLSF 2510	Wunder CLSF 2108	Wunder CLSF 1808
	PRODUCT CODE	MA- 0099	MA- 0091	MA- 0077
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90	1927x927x90
	CASING	ElectrostaticPaintedAluminumCase	Electrostatic Painted Aluminum Case	ElectrostaticPaintedAluminumCase
	WEIGHT(kg)	44	37,2	34
	GROSS AREA (m ²)	2,42	2,07	1,79
	APERTURE AREA (m ²)	2,24	1,92	1,62
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89	1,59
	ABSORBER MATERIAL	Almeco-TinoxHighlySelectiveCopper	Almeco-TinoxHighlySelectiveCopper	Almeco-TinoxHighlySelectiveCopper
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Ultrasonic Welding	Ultrasonic Welding	Ultrasonic Welding
	HEAT CARRIER VOLUME (lt)	1,27	1,07	1
COPPER TUBES	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	8 / 18	8 / 18	8 / 18
	NUMBER OF TUBE	10	9	8
GLASS	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4	4
INSULATION	INSULATION MATERIAL	Rock Wool	Rock Wool	Rock Wool
	DENSITY OF WOOL (kg/ m ³) / THICKNESS OF WOOL (mm)	50 / 40	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	211	211	211
	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6	8,6
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BASE SHEETING	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER CNSG

Solar Keymark certified
Almeco- Tinox highly selective copper
Copper pipe
Glass wool insulation
Normal iron tempered glass
Ultrasonic welding
10 years warranty

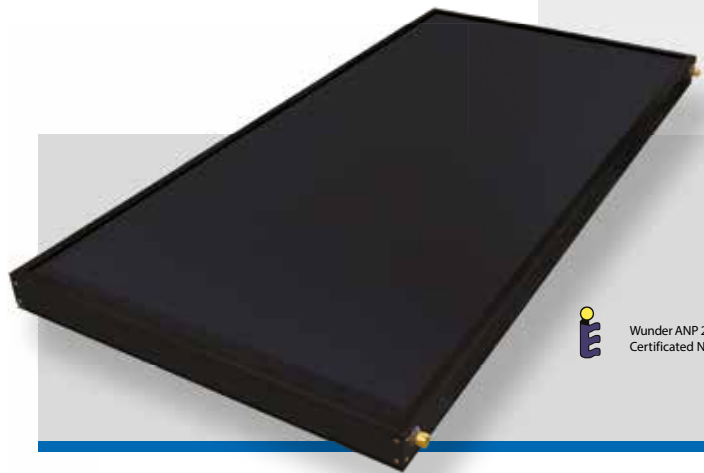
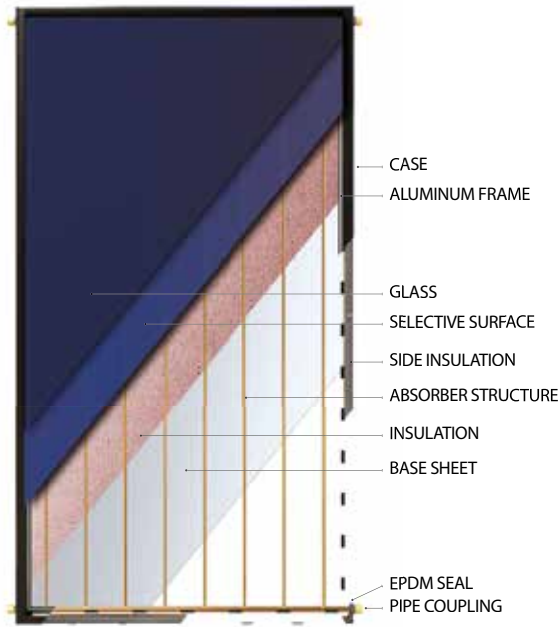


TECHNICAL SPECIFICATIONS

		Wunder CNSG 2510	Wunder CNSG 2108	Wunder CNSG 1808
	PRODUCT CODE	MA- 0137	MA- 0135	MA- 0133
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90	1927x927x90
	CASING	ElectrostaticPaintedAluminumCase	Electrostatic Painted Aluminum Case	ElectrostaticPaintedAluminumCase
	WEIGHT(kg)	44	37,2	34
	GROSS AREA (m ²)	2,42	2,07	1,79
	APERTURE AREA (m ²)	2,24	1,92	1,62
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89	1,59
	ABSORBER MATERIAL	Almeco-TinoxHighlySelectiveCopper	Almeco-TinoxHighlySelectiveCopper	Almeco-TinoxHighlySelectiveCopper
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Ultrasonic Welding	Ultrasonic Welding	Ultrasonic Welding
COPPER TUBES	HEAT CARRIER VOLUME (lt)	1,27	1,07	1
	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	8 / 18	8 / 18	8 / 18
	NUMBER OF TUBE	10	9	8
	GLASS MATERIAL	Normal Iron Tempered Glass	Normal Iron Tempered Glass	Normal Iron Tempered Glass
GLASS	THICKNESS OF GLASS (mm)	4	4	4
	INSULATION MATERIAL	Glass Wool	Glass Wool	Glass Wool
INSULATION	DENSITY OF WOOL (kg/ m ³) / THICKNESS OF WOOL (mm)	14 / 50	14 / 50	14 / 50
	STAGNATION TEMPERATURE (°C)	211	211	211
MAXIMUM RATING	MAXIMUM OPERATION PRESSURE (bar)	10	10	10
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BASE SHEETING	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER ANP

Solar Keymark certified
Black painted aluminum
Copper pipe
Glass wool insulation
Normal iron tempered glass
Laser welding
10 years warranty



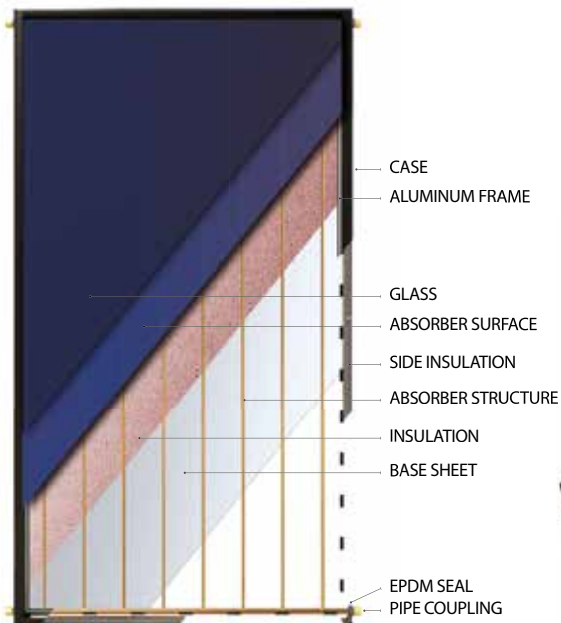
Wunder ANP 2108
Certificated No: 011-752313 F

TECHNICAL SPECIFICATIONS

		Wunder ANP 2510	Wunder ANP 2108	Wunder ANP 1808
	PRODUCT CODE	MA- 0023	MA- 0020	MA- 0015
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90	1927x927x90
	CASING	ElectrostaticPaintedAluminumCase	ElectrostaticPaintedAluminumCase	ElectrostaticPaintedAluminumCase
	WEIGHT(kg)	44	37,2	34
	GROSS AREA (m²)	2,42	2,07	1,79
	APERTURE AREA (m²)	2,24	1,92	1,62
ABSORBER	ABSORBER AREA (m²)	2,23	1,89	1,59
	ABSORBER MATERIAL	Black Aluminum	Black Aluminum	Black Aluminum
	ABSORPTANCE / EMITTANCE	0,74 / 0,26	0,74 / 0,26	0,74 / 0,26
	WELDING METHOD	Laser Welding	Laser Welding	Laser Welding
	HEAT CARRIER VOLUME (lt)	1,27	1,07	1
COPPER TUBES	DIAMETEROFABSORBERTUBE/HEADERTUBE (mm)	8 / 18	8 / 18	8 / 18
	NUMBER OF TUBE	10	9	8
GLASS	GLASS MATERIAL	Normal Iron Tempered Glass	Normal Iron Tempered Glass	Normal Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4	4
INSULATION	INSULATION MATERIAL	Glass Wool	Glass Wool	Glass Wool
	DENSITY OF WOOL (kg/m³) / THICKNESS OF WOOL (mm)	14 / 50	14 / 50	14 / 50
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	153,6	153,6	153,6
	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6	8,6
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BASE SHEETING	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet	Embossed-FinishedAluminumSheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

WUNDER CNP

Solar Keymark certified
Black painted aluminum
Copper pipe
Glass wool insulation
Normal iron tempered glass
Ultrasonic welding
10 years warranty



 Wunder CNP
Certificated No: 011-75480 F

TECHNICAL SPECIFICATIONS

		Wunder CNP 2510	Wunder CNP 2108	Wunder CNP 1808
	PRODUCT CODE	MA- 0066	MA- 0062	MA- 0059
TECHNICAL DATA	DIMENSIONS (mm)	1988x1218x90	1988x1041x90	1927x927x90
	CASING	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
	WEIGHT(kg)	44	37,2	34
	GROSS AREA (m ²)	2,42	2,07	1,79
	APERTURE AREA (m ²)	2,24	1,92	1,62
ABSORBER	ABSORBER AREA (m ²)	2,23	1,89	1,59
	ABSORBER MATERIAL	Black Copper	Black Copper	Black Copper
	ABSORPTANCE / EMITTANCE	0,94 / 0,26	0,94 / 0,26	0,94 / 0,26
	WELDING METHOD	Ultrasonic Welding	Ultrasonic Welding	Ultrasonic Welding
	HEAT CARRIER VOLUME (lt)	1,27	1,07	1
COPPER TUBES	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	8 / 18	8 / 18	8 / 18
	NUMBER OF TUBE	10	9	8
	GLASS MATERIAL	Normal Iron Tempered Glass	Normal Iron Tempered Glass	Normal Iron Tempered Glass
GLASS	THICKNESS OF GLASS (mm)	4	4	4
	INSULATION MATERIAL	Glass Wool	Glass Wool	Glass Wool
INSULATION	DENSITY OF WOOL (kg/ m ³) / THICKNESS OF WOOL (mm)	14 / 50	14 / 50	14 / 50
	STAGNATION TEMPERATURE (°C)	135	135	135
MAXIMUM RATING	MAXIMUM OPERATION PRESSURE (bar)	8,6	8,6	8,6
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BASE SHEETING	Embossed-Finished Aluminum Sheet	Embossed-Finished Aluminum Sheet	Embossed-Finished Aluminum Sheet
	MOUNTING TYPE	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof	Inroof- Onroof- Flat Roof

TSM

Solar Keymark certified
No need magnesium anode and maintenance free
Unpressurized tank, pressurized water
Hidden tank behind panels
5 year warranty



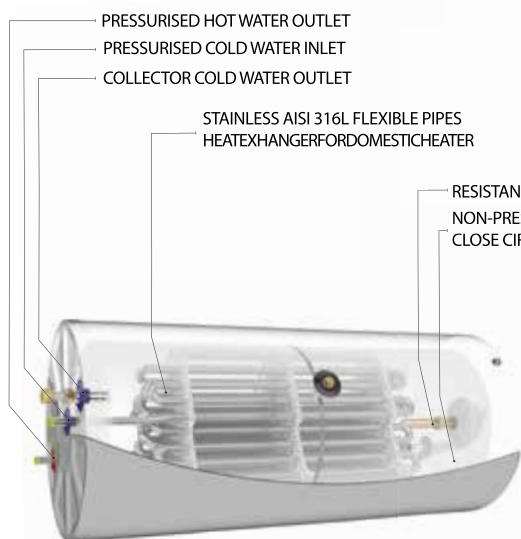
 Certified No: 116 BN / 0

TECHNICAL SPECIFICATIONS

	TSM 120	TSM 150	TSM 200	TSM 300
Product Code	ST-0031	ST-0013	ST- 0016	ST- 0018
Capacity (lt/day)	120	150	200	300
Tank Working Pressure (bar)	0-3	0-3	0-3	0-3
Heat Exchanger Working Pressure (bar)	2-5	2-5	2- 5	2- 5
Maximum Temperature (°C)	95	95	95	95
Insulation	50mm/40kg/m ³ /Polyurethan Insulation (CFC Free)	50mm/40kg/m ³ /Polyurethan Insulation (CFC Free)	50mm/40kg/m ³ /Polyurethan Insulation (CFC Free)	50 mm/ 40 kg / m ³ / Polyurethan Insulation (CFC Free)
Heat Exchanger	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel
BoilerFinalDimensions(Length/ Diameter) (mm)	1000 / 540	1115 / 540	1200 / 540	1725 / 540
Outer Cylinder Materials	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPainted ST 37 Steel
Outer Sheet	PaintedGalvanizedSteelSheet	PaintedGalvanizedSteelSheet	PaintedGalvanizedSteelSheet	PaintedGalvanizedSteelSheet
Boiler Net Weight (kg)	45	45	65	82
	Wunder ALS 1808	Wunder ALS 2108	Wunder ALS 2510	Wunder ALS 2108* (2 pcs)
DIMENSIONS (mm)	1927x927x90	1988x1041x90	1988x1218x90	1988x1041x90
WEIGHT(kg)	34	37,2	44	37,2
GROSS AREA (m ²)	1,79	2,07	2,42	2,07
APERTURE AREA (m ²)	1,62	1,92	2,24	1,92
ABSORBER AREA (m ²)	1,59	1,89	2,23	1,89
ABSORBER MATERIAL	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum	Almeco-TinoxHighlySelective Aluminum
ABSORPTANCE/EMITTANCE	0,95 / 0,04	0,95 / 0,04	0,95 / 0,04	0,95 / 0,04
WELDING METHOD	Laser Welding	Laser Welding	Laser Welding	Laser Welding
GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass
INSULATION MATERIAL	Rock Wool	Rock Wool	Rock Wool	Rock Wool
BASE SHEETING	Embossed-FinishedAluminum Sheet	Embossed-FinishedAluminum Sheet	Embossed-FinishedAluminum Sheet	Embossed-FinishedAluminum Sheet

TSM ECO

Solar Keymark certified
No need magnesium anode and maintenance free
Unpressurized tank, pressurized water
5 year warranty



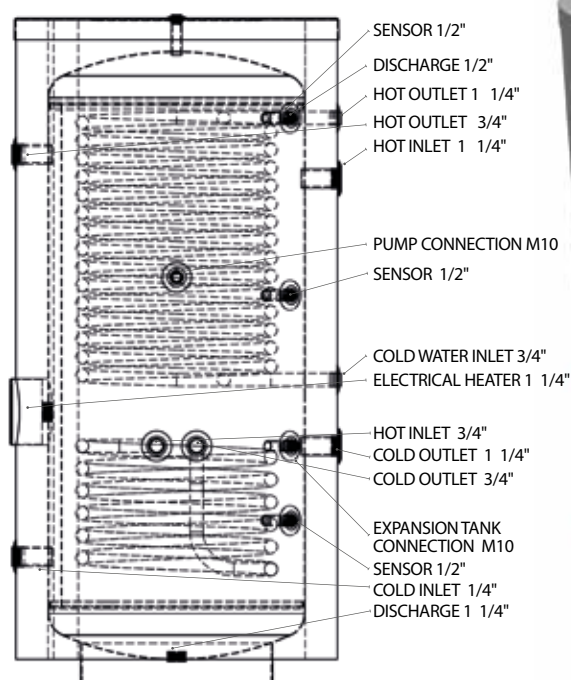
Certified No: 116 BN / 0

TECHNICAL SPECIFICATIONS

	TSM ECO 120	TSM ECO 150	TSM ECO 200	TSM ECO 300
Product Code	ST-0032	ST- 0009	ST- 0011	ST- 0012
Capacity (lt/day)	120	150	200	300
Tank Working Pressure (bar)	0-3	0-3	0-3	0-3
HeatExchangerWorkingPressure (bar)	2-5	2- 5	2- 5	2- 5
Maximum Temperature (°C)	95	95	95	95
Insulation	50mm/40kg/m ³ /Polyurethan Insulation (CFC Free)	50mm/40kg/m ³ /Polyurethan Insulation (CFC Free)	50mm/40kg/m ³ /Polyurethan Insulation (CFC Free)	50mm/40kg/m ³ /Polyurethan Insulation (CFC Free)
Heat Exchanger	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel
BoilerFinalDimensions(Length/ Diameter)	1000 / 540	1115 / 540	1200 / 540	1725/ 540
Outer Cylinder Materials	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPaintedST 37 Steel
Outer Sheet	PaintedGalvanizedSteelSheet	PaintedGalvanizedSteelSheet	PaintedGalvanizedSteelSheet	PaintedGalvanizedSteelSheet
Boiler Net Weight (kg)	45 Wunder ANP 1808	45 Wunder ANP 2108	65 Wunder ANP 2510	82 Wunder ANP 2108* (2 pcs)
DIMENSIONS (mm)	1927x927x90	1988x1041x90	1988x1218x90	1988x1041x90
WEIGHT(kg)	34	37,2	44	37,2
GROSS AREA (m ²)	1,79	2,07	2,42	2,07
APERTURE AREA (m ²)	1,62	1,92	2,24	1,92
ABSORBER AREA (m ²)	1,59	1,89	2,23	1,89
ABSORBER MATERIAL	Black Aluminum	Black Aluminum	Black Aluminum	Black Aluminum
ABSORPTANCE / EMITTANCE	0,74 / 0,26	0,74 / 0,26	0,74 / 0,26	0,74 / 0,26
WELDING METHOD	Laser Welding	Laser Welding	Laser Welding	Laser Welding
GLASS MATERIAL	Normal Iron Tempered Glass	Normal Iron Tempered Glass	Normal Iron Tempered Glass	Normal Iron Tempered Glass
INSULATION MATERIAL	Glass Wool	Glass Wool	Glass Wool	Glass Wool
BASE SHEETING	Embossed-FinishedAluminum Sheet	Embossed-FinishedAluminum Sheet	Embossed-FinishedAluminum Sheet	Embossed-FinishedAluminum Sheet

SOLIKOMBI

Hygienic usage water with stainless heat exchanger
 Due to flexible heat exchanger, limeless usage
 No anode bar
 Pressurised usage water
 Unpressurised tank
 Lightweight, aesthetic appearance, long life and maintenance-free
 Applicable to heat pump and hybrid systems
 Optional electrical heater
 Minimum heat loss with polyurethane isolation
 Easy montage due to small size
 Applicable to solar energy systems
 5 year warranty



TECHNICAL SPECIFICATIONS

	SOLIKOMBI 300	SOLIKOMBI 500	SOLIKOMBI 800	SOLIKOMBI 1000
Product Code	MA- 0367	MA- 0494	MA- 0608	MA- 0495
Height(mm)	1770	1653	1733	2033
Diameter(mm)	542	750/807	1017	1017
Net Weight(kg)	85	100	175	190
Volume/ cubage(lt)	245	454	800	970
Insulate	50 mm /40 kg/m ³	50mm/40kg/m ³ -80mm/18kg/m ³	80 mm /14 kg/m ³	80 mm /14 kg/m ³
Insulating Material	Polyurethane	18 Density Foam Rubber / Polyurethane	18 Density Foam Rubber	18 Density Foam Rubber
Outer Cylinder Materials	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel / Leakerette Jacket	Leakerette Jacket	Leakerette Jacket
Materials of Serpentina	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel
Number of Serpentina	2	2	2	2
1. Serpentina Area (m ²)	3,83	4,81	7,23	8,76
2. Serpentina Area (m ²)	1,75	1,75	2,19	2,62

SOLITANK

Hygienic usage water with stainless steel heat exchanger
Due to flexible heat exchanger, limeless usage

No anode bar

Pressurised usage water

Unpressurised tank

Lightweight, aesthetic appearance, long life and maintenance-free

Applicable to heat pump and hybrid systems

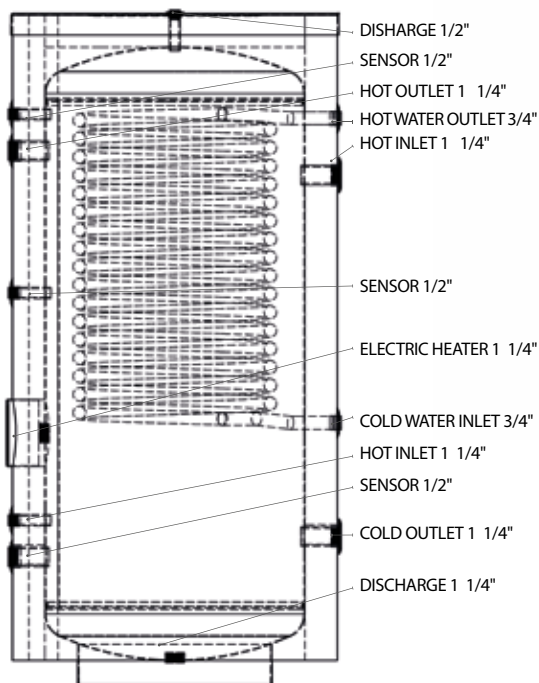
Optional electrical heater

Minimum heat loss with polyurethane isolation

Easy montage due to small size

Applicable to solar energy systems

5 year warranty

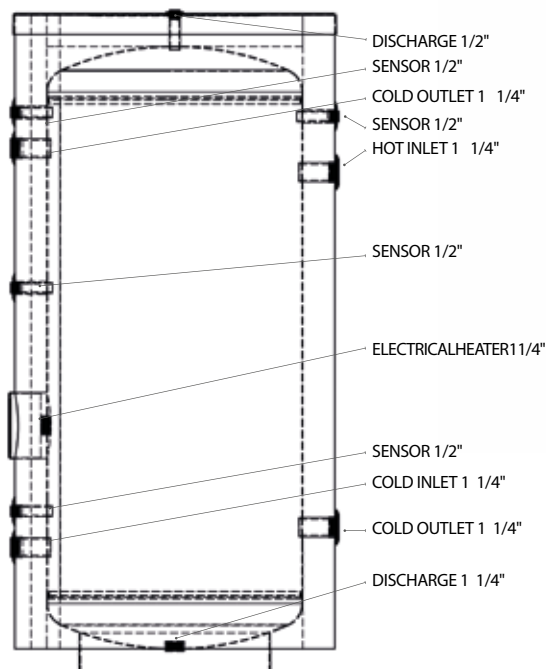


TECHNICAL SPECIFICATIONS

	SOLITANK 200	SOLITANK 300	SOLITANK 500	SOLITANK 1000
Product Code	MA-0001	MA-0002	MA- 0492	Ma- 0493
Height(mm)	1245	1770	1653	2033
Diameter(mm)	542	542	750/807	1017
Net Weight(kg)	75	85	100	190
Volume/ cubage(lt)	170	245	454	970
Insulate	50 mm /40 kg/m ³	50 mm /40 kg/m ³	50mm/40kg/m ³ 80mm/18kg/m ³	80 mm /18 kg/m ³
Insulating Material	Polyurethane	Polyurethane	Polyurethane/18DensityFoam Rubber	18 Density Foam Rubber
Outer Cylinder Materials	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPaintedST 37 Steel	ElectrostaticPowderPaintedST 37 Steel / Leaherette Jacket	Leaherette Jacket
Materials of Serpantina	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel
Number of Serpantina	1	1	1	1
1. Serpantina Area (m ²)	3,83	3,83	5,48	8,76

SOLIBUFFER

Minimum heat loss with polyurethane isolation
 Easy installation
 Applicable to heat pump systems
 Lightweight, aesthetic appearance, long life and maintenance-free
 Optional electrical heater
 Easy montage due to small size
 5 year warranty

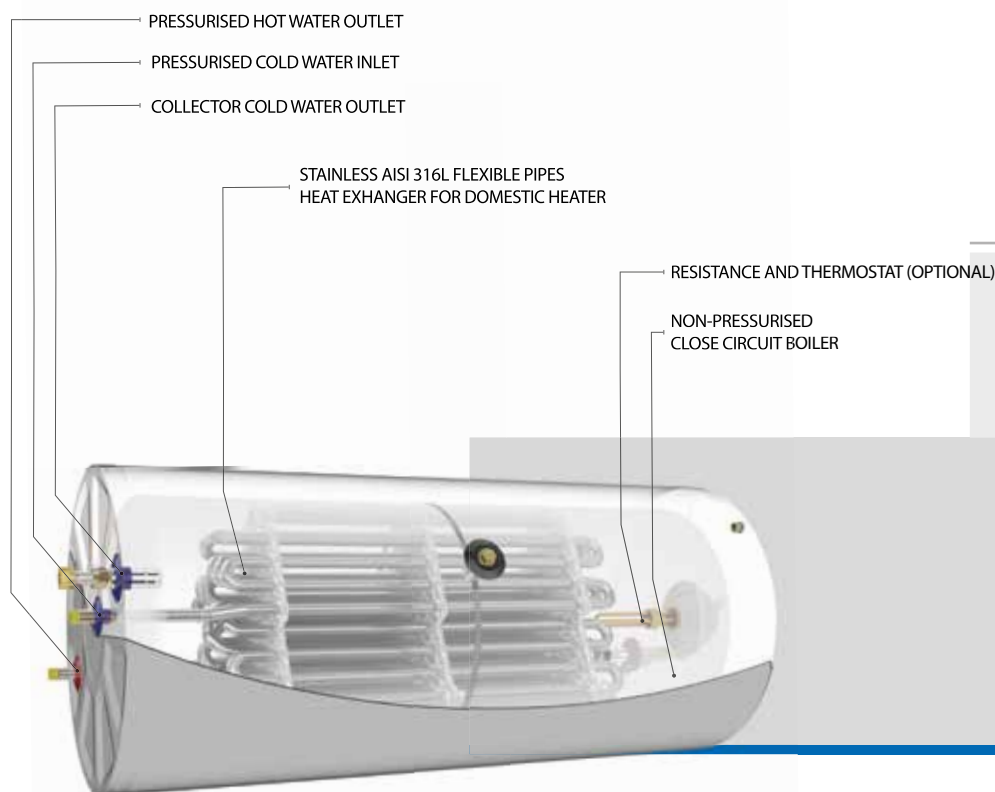


TECHNICAL SPECIFICATIONS

	BUFFER 100	BUFFER 200	BUFFER 300	BUFFER 500	BUFFER 1000
Product Code	MA-0004	MA-0003	MA-0360	MA- 0490	MA- 0491
Height(mm)	795	1245	1770	1653	2033
Diameter(mm)	542	542	542	750/807	1017
Net Weight(kg)	50	60	70	90	180
Volume/ cubage(lt)	132	170	245	454	970
Insulate	50 mm /40 kg/m ³	50 mm /40 kg/m ³	50 mm /40 kg/m ³	50mm/40kg/m ³ 80mm/18kg/m ³	80 mm /18 kg/m ³
Insulating Material	Polyurethane	Polyurethane	Polyurethane	Polyurethane / 18 Density Foam Rubber	18 Density Foam Rubber
Outer Cylinder Materials	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST37 Steel/Leaherette Jacket	Leaherette Jacket

TSM

No need magnesium anode and maintenance free
Unpressurized tank, pressurized water
5 year warranty



TECHNICAL SPECIFICATIONS

	TSM 120	TSM 150	TSM 200	TSM 300	TSM 400
Product Code	MA- 0005	MA- 0597	MA- 0006	MA- 0007	MA- 0008
Capacity (lt/day)	120	150	200	300	400
Tank Working Pressure (bar)	0-3	0-3	0-3	0-3	0-3
Heat Exchanger Working Pressure (bar)	2- 5	2- 5	2- 5	2- 5	2- 5
Maximum Temperature (C)	95	95	95	95	95
Insulation	50 mm/ 40 kg/ m ³ / Polyurethane Insulation(CFCFree)	50 mm/ 40 kg/ m ³ / Polyurethane Insulation (CFC Free)	50 mm/ 40 kg/ m ³ / Polyurethane Insulation(CFCFree)	50 mm/ 40 kg/ m ³ / Polyurethane Insulation(CFCFree)	50 mm/ 40 kg/ m ³ / Polyurethane Insulation(CFCFree)
Thermal Loses (W/K)	2	2	2,5	2	2
Heat Exchanger	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel
Inner Cylinder Dimensions (mm)	900x480	900x480	900x480	1340x480	1340x480
BoilerInnerDimensions(Length/Diameter) (mm/mm)	900 / 446	1015 / 446	1150 / 446	1675 / 446	2115 / 446
BoilerFinalDimensions(Length/Diameter) (mm/mm)	1000 / 540	1115 / 540	1200 / 540	1725 / 540	2215 / 540
Outer Cylinder Materials	ElectrostaticPowder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	ElectrostaticPowder Painted ST 37 Steel	ElectrostaticPowder Painted ST 37 Steel	ElectrostaticPowder Painted ST 37 Steel
Outer Cylinder Thickness (mm)	0,5	0,5	0,5	0,5	0,5
Extra Heater (optional)	2000 W Resistance	2000 W Resistance	2000 W Resistance	2000 W Resistance	2000 W Resistance
Boiler Net Weight (kg)	45	45	65	82	92
Boiler Full Weight (kg)	177	195	235	327	412

SOLIFLEX

SoliFlex AISI 316L Stainless Steel Flexible
Metal Hose
Structure for effort ties installation
High pressure and temperature resistance
Long working life
Designed for limited installation area
Fittings for easy installation



TECHNICAL SPECIFICATIONS

DN	CORRUGATION TYPE	Ø DIAMETER(mm)		DIMENSIONS (mm)			TOLERANCE (±mm)	WALL THICKNESS (mm)	NOMINAL PRESSURE (bar)	INTERNAL VOLUME (l)	SURFACE AREA (m²/m)
		Ø Internal	Ø External	h	t	n					
12	Standard	12,6	16,5	4,12	2,41	1,71	0,2	0,18	18	0,168	0,072
16	Standard	16,5	21,85	3,6	1,8	1,8	0,2	0,18	11	0,268	0,126
20	Standard	20,5	26,2	4,82	2,51	2,31	0,3	0,18	14	0,437	0,138
25	Standard	25,5	31,8	3,3	1,8	1,5	0,3	0,2	10	0,624	0,155
32	Standard	34,6	41,1	4,82	3,11	1,72	0,4	0,2	2,5	1,125	0,228
40	Standard	40,7	49,6	6,6	3,82	2,82	0,4	0,25	2,5	1,963	0,272
50	Standard	50,5	60,3	6,6	3,82	2,62	0,4	0,25	2	2,4	0,355
Outer Cover											
Special Polyamide											
Insulation											
Elastomeric UV Resistance EPDM Rubber											
TS EN 14304											
Insulation Thickness		t	mm	13						TS EN 13467	
Thermal Conductivity		°C	-20	0	20	40	60	80	TS EN 12667		
		λ	W/m.K	0,034	0,036	0,038	0,04	0,043	0,045	EN ISO 8497	
Fluid Temperature		°C		-50° C - 105° C							
Length Per Coil		mm		10m- 15m- 20m- 30m							
Fluid Capacity		l		0,268							
Bending Radius		Excellent									
Flammability		B1 CLASS0 CLASS1									
		DIN 4102 BS 476 Pt6 BS 476 Pt7									
Ozone Resistance		Good									
Weather Resistance		Good									
Oil Resistance		Good									
Corrosion		Conforms									
		DIN 1988/7									
Steam Diffusion resistance		7000									
		EN 13469									

MOUNTING KITS

FLAT ROFF



PITCHED ROFF



ROOF INTEGRATION



MA-0173	2510 Single
MA- 0176	2510 Double
MA-0185	2510 Triple
MA- 0174	2108 Single
MA-0177	2108 Double
MA-0175	1808 Single
MA-0178	1808 Double
MA- 0182	PVT Single
MA- 0183	PVT Double

MA- 0218	2510 Single
MA- 0221	2510 Double
MA- 0219	2108 Single
MA- 0222	2108 Double
MA- 0220	1808 Single
MA- 0223	1808 Double
MA- 0232	PVT Single
MA- 0443	PVT Double

TI- 0229	2510 Single
TI- 0230	2510 Double
TI- 0231	2510 Triple
TI- 0232	2510 Extra
TI- 0233	2108 Single
TI- 0234	2108 Double
TI- 0235	2108 Triple
TI- 0236	2108 Extra
TI- 0237	1808 Single

TI- 0238	1808 Double
TI- 0239	1808 Triple
TI- 0240	1808 Extra
TI- 0245	PowerVolt Single
TI- 0246	PowerVolt Double
TI- 0247	PowerVolt Triple
TI- 0592	PowerVolt Sestet
TI- 0248	PowerVolt Ekstra

SPARE PARTS



Tank Holder



Roof Hook Painted



RoofHookStainlessSteel



RoofHookGalvanizedSteel



Aluminum Profile



AluminumProfilewithHolder



M8 Aluminum Clamps



Aluminum Profile Connector

ACCESSORIES



Pump Station
TI-0131 and TI-0129



Solar Controller
TI-0209 and TI-0210



Expansion Vessel
TI-0531



Air Purger
HA-1498



End Cap
HA-0345



Flexible Connection
YA-0215

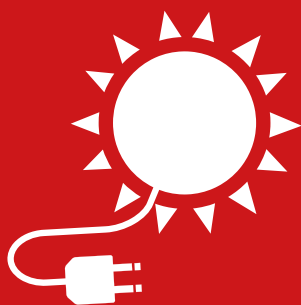


Electrical Heater
Thermostat
TI-0079 and TI-0080



Sensor Set
TI-0315

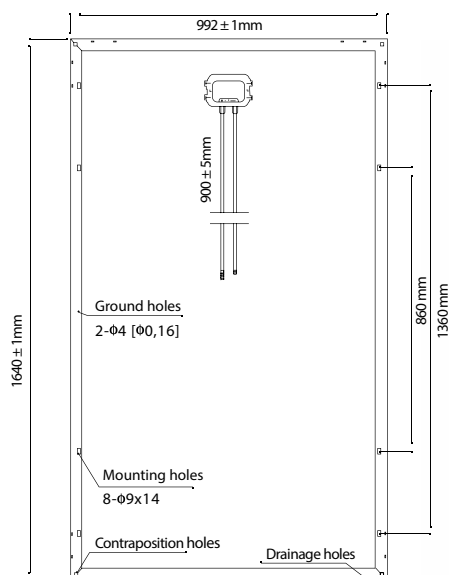
ELECTRICITY



PV SOL60P-260W

Polycrystalline

Excellent performance under weak light conditions
 Guarantee from 0 to +6W as power tolerance, customers can obtain 5,8% power more than conventional output
 100% EL test before and after lamination, and finished products EL test, providing higher quality assurance
 10 year %91 and 25 year %80 warranty



TECHNICAL SPECIFICATIONS

MECHANICAL CHARACTERISTICS

Cable Type Cross- sectional area and Length	$\phi = 4 \text{ mm}^2$, $L = 900 \pm 5 \text{ mm}$
Type of Connector	Compatible Type MC4
Dimension AxBxC	1640 x 992 x 45mm
Weight	18.3kg (40.3lb)
Number of Draining Holes in Frame	16
Glass	High Transmission, Low Iron Tempered 3,2mm
Encapsulation	EVA
Back Side	White Tedlar
Junction Box (protection degree)	IP 67
Frame	Clear Anodized Aluminum Alloy Type 6063T5 Frame

QUALIFICATION TEST PARAMETERS

Dielectric Insulation Voltage	6000V DC max
Operating Temperature	-40°C to +85 °C
Max Load	5400 Pa
Hailstone Impact	25mm at 23m/s

PACKAGING CONFIGURATION

Packaging Configuration	22 pcs/ box and 2 pcs/ box	
Quantity of Big Box / Pallet	1 box / Pallet	1 boxes / Pallet
Quantity of Small Box/ Pallet	-	10 box / Pallet
Loading Capacity	616 pcs / 40' HQ	240 pcs/ 20' GP

TYPICAL ELECTRICAL CHARACTERISTICS

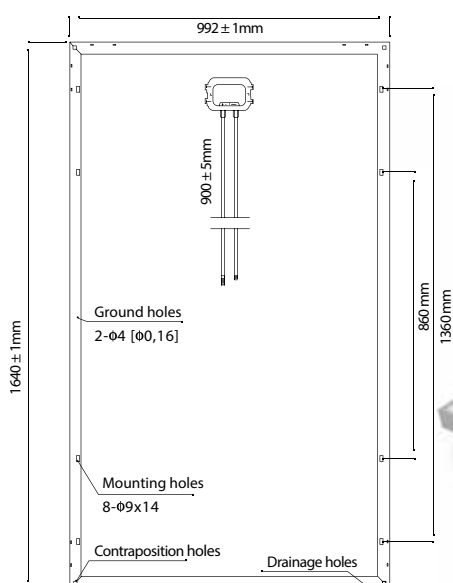
Product Code	MA- 0532				
Solar Cell	Poly-Crystalline 156X156mm 60pcs(6x10)3busbars				
Max-Power	250Wp	255Wp	260Wp	265Wp	270Wp
Power Tolerance	0 + 6W				
Voltage at Pmax (Vmp)	30,9V	31,1V	31,3V	31,5V	31,7V
Current at Pmax (Imp)	8,09A	8,2A	8,31A	8,41A	8,52A
Open- Circuit Voltage (Voc)	37,7V	37,9V	38,2V	38,4V	38,7V
Short- Circuit Current (Isc)	8,76A	8,87A	8,99A	9,10A	9,22A
Max- System Voltage (VDC)	1000V (IEC), 600V (UL)				
Module Efficiency	%15,40	15,70%	16,00%	16,3%	16,6%
No. of Bypass Diodes (pcs)	3				
Max. Series Fuse (A)	12A				
Temperature Coefficient of Pmax	-0,45%/°C				
Temperature Coefficient of Voc	-0,34%/°C				
Temperature Coefficient of Isc	0,05%/°C				
Nominal Operating Cell Temperature	45± 2° C				

* STC Conditions (1000W / m²; 1,5 AM and 25 °C Cell Temperature)

PV SOL60S - 270W

Monocrystalline

Excellent performance under weak light conditions
 Guarantee from 0 to +6W as power tolerance, customers can obtain 5,8% power more than conventional output
 100% EL test before and after lamination, and finished products EL test, providing higher quality assurance
 10 year %91 and 25 year %80 warranty



TECHNICAL SPECIFICATIONS

MECHANICAL CHARACTERISTICS

Cable Type Cross- sectional area and Length	$\varnothing = 4\text{mm}^2$, $L = 900 \pm 5\text{mm}$
Type of Connector	Compatible Type MC4
Dimension AxBxC	1640 x 992 x 45mm
Weight	18,3 kg (40.3 lb)
Number of Draining Holes in Frame	16
Glass	High Transmission, Low Iron Tempered 3,2mm
Encapsulation	EVA
Back Side	White Tedlar
Junction Box (protection degree)	IP 67
Frame	Clear Anodized Aluminum Alloy Type 6063T5 Frame

QUALIFICATION TEST PARAMETERS

Dielectric Insulation Voltage	6000V DC max
Operating Temperature	-40°C to $+85^\circ\text{C}$
Max Load	5400 Pa
Hailstone Impact	25mm at 23m/s

PACKAGING CONFIGURATION

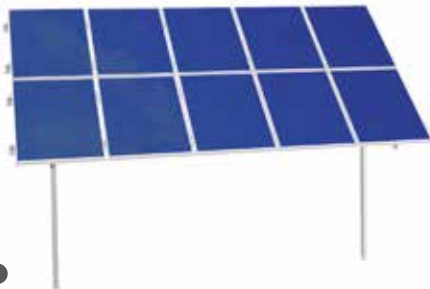
Packaging Configuration	22 pcs/ box and 2 pcs/ box
Quantity of Big Box / Pallet	1 box / Pallet 1 boxes / Pallet
Quantity of Small Box / Pallet	- 10 box / Pallet
Loading Capacity	616 pcs / 40' HQ 240 pcs/ 20' GP

TYPICAL ELECTRICAL CHARACTERISTICS

Product Code	MA- 0603				
Solar Cell	Mono-Crystalline 156X156mm 60pcs(6x10) 3busbars				
Max-Power	260Wp	265Wp	270Wp	275Wp	280Wp
Power Tolerance	0 + 6W				
Voltage at Pmax (Vmp)	31,0V	31,2V	31,4V	31,6V	31,8V
Current at Pmax (Imp)	8,39A	8,49A	8,60A	8,70A	8,81A
Open- Circuit Voltage (Voc)	37,8V	38,1V	38,3V	38,5V	38,8V
Short- Circuit Current (Isc)	9,08A	9,19A	9,31A	9,42A	9,53A
Max- System Voltage (VDC)	1000V (IEC), 600V (UL)				
Module Efficiency	16,0%	16,3%	16,6%	16,9%	17,2%
No. of Bypass Diodes (pcs)	3				
Max. Series Fuse (A)	12A				
Temperature Coefficient of Pmax	$-0,45\%/^\circ\text{C}$				
Temperature Coefficient of Voc	$-0,34\%/^\circ\text{C}$				
Temperature Coefficient of Isc	$0,05\%/^\circ\text{C}$				
Nominal Operating Cell Temperature	$45 \pm 2^\circ\text{C}$				

* STC Conditions (1000W / m²; 1,5 AM and 25 °C Cell Temperature)

PV MOUNTING KITS



STAND ALONE SYSTEMS
Land Type Single Stand System



STAND ALONE SYSTEMS
Land Type Double Stand System



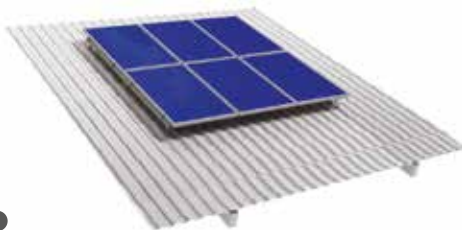
OPEN AREA ALUMINIUM CONCRETE SYSTEMS
Concrete Foundation Aluminium System



OPEN AREA ALUMINIUM CONCRETE SYSTEMS
Concrete Foundation Aluminium System



TRIANGLE LEG SYSTEMS
Adjustable Triangle Leg Systems



ROOFTOP SYSTEMS
Pitched Roof Systems



PV MOUNTING PARTS



Side Clamp

60 mm / 80 mm
M8 Allen Screw DIN 912



Side Clamp

60 mm / 80 mm
M8 Allen Screw DIN 912



Mid Clamp

60 mm / 80 mm
M8 Allen Screw DIN 912



Mid Clamp Profil

60 mm / 80 mm
M8 Allen Screw DIN 912



Thin Film Panel Side Clamp

75 mm EPDM SEALII
READY TO USA AS ASSAMBLD



Thin Film Panel Mid Clamp

75 mm EPDM SEALII
READY TO USA AS ASSAMBLD



Roof Hook

EN-AW 6063 T66 F25
Adjustable horizontal



Roof Hook

Stainless Steel
Standard



Roof Hook

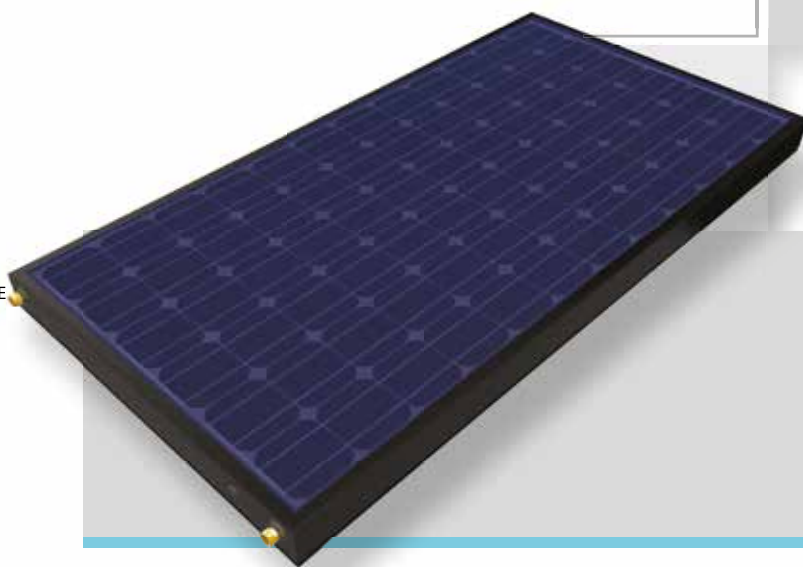
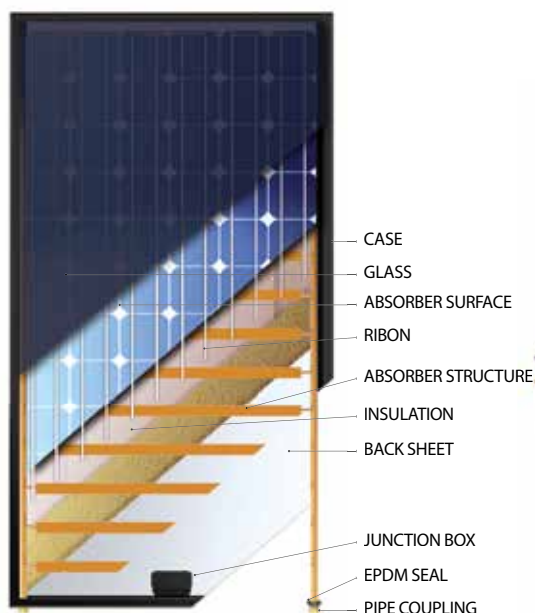
Roof Hook / L Soint
Adjustable vertical

HYBRID



VOL THER POWERVOLT

Electricity and usable thermal hot water at the same time from one panel
 Extra electricity production of at least 25% per year with cooled PV cells
 More electricity with PowerVolt



TECHNICAL SPECIFICATIONS

Product Code

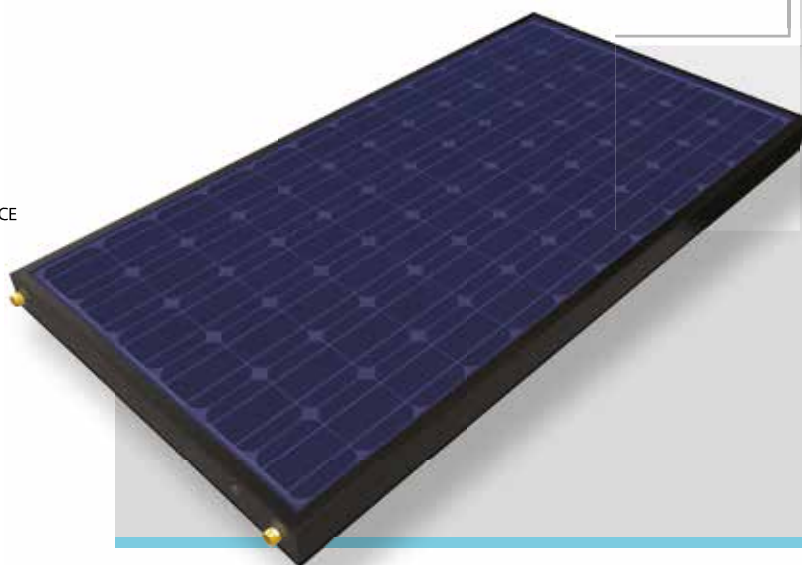
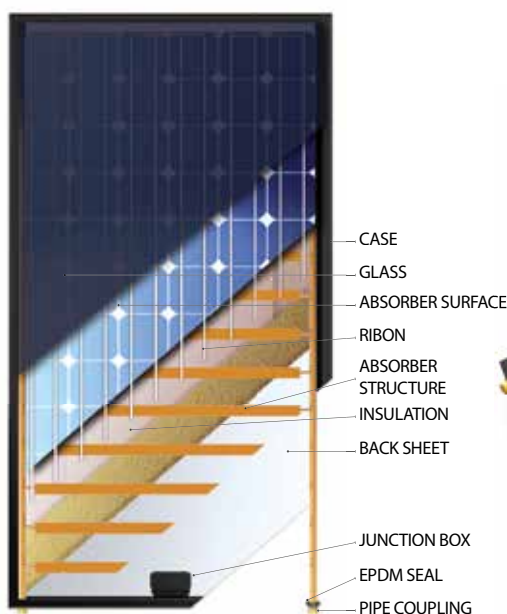
PowerVolt

MA-0013

Dimensions (mm)	828x 1601 x 90
Gross Area (m ²)	1,37
Aperture Area (m ²)	1,36
Absorber Area (m ²)	1,3
Weight (kg)	24,4
Liquid Content	1,21
Absorber Panel	Mono-Crystalline
Number of Cells	72
Cell Dimensions (mm)	125x 125
WP (W) Nominal Power	190
Imp (A) Nominal Current	5,2
Isc (V) Short Circuit Current	5,6
Vmp (V) Nominal Current	36,4
Voc (V) Open Circuit Voltage	45,2
Heat Exchanger	Copper
Internal Piping	Copper
Test Pressure (bar)	13
Maximum Operating Pressure (bar)	6
Cover Glass	PV Glass
Sealing	EPDM & Silicone
Maximum Temperature	<110C
Base Sheeting	Embossed- Finished Aluminum
Rear Side	Aluminum
Product Warranty	10 Years
Productivity Guaranty	%90<10 years, %80<20 years

POWER THERM

Electricity and usable thermal hot water at the same time from one panel
 Extra electricity production of at least 25% per year with cooled PV cells
 More hot water with PowerTherm



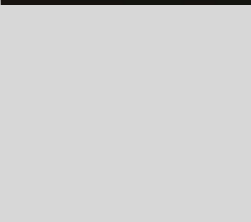
TECHNICAL SPECIFICATIONS

PowerTherm (PV-T Glazed)

Product Code

MA- 0014

Dimensions (mm)	870x 1640x 105
Gross Area (m ²)	1,427
Aperture Area (m ²)	1,42
Absorber Area (m ²)	1,4
Weight (kg)	34,4
Liquid Content	1,21
Absorber Panel	Mono-Crystalline
Number of Cells	72
Cell Dimensions (mm)	125x 125
WP (W) Nominal Power	170
Imp (A) Nominal Current	4,67
Isc (V) Short Circuit Current	5
Vmp (V) Nominal Current	36,4
Voc (V) Open Circuit Voltage	45,2
Heat Exchanger	Copper
Internal Piping	Copper
Test Pressure (bar)	13
Maximum Operating Pressure (bar)	6
Cover Glass	Extra Low Iron Tempered Glass
Sealing	EPDM & Silicone
Maximum Temperature	<110C
Base Sheeting	Embossed- Finished Aluminum
Rear Side	Aluminum
Product Warranty	10 Years
Productivity Guaranty	%90<10 years, %80<20 years



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7 CONTINENTS 77 COUNTRIES 7 CONTINENTS 77 COUNTRIES 7 CONTINENTS 77 COUNTRIES

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