
7 CONTINENTS 77 COUNTRIES
SOLIMPEKS
EN
solimpeks.com

SOLIMPEKS Enerji Paz. Ltd. Şti.
IZMIR / TURKEY

SOLIMPEKS Solar SL.
SEVILLE / SPAIN

Solimpeks Solarenergie GmbH
HANNOVER / GERMANY

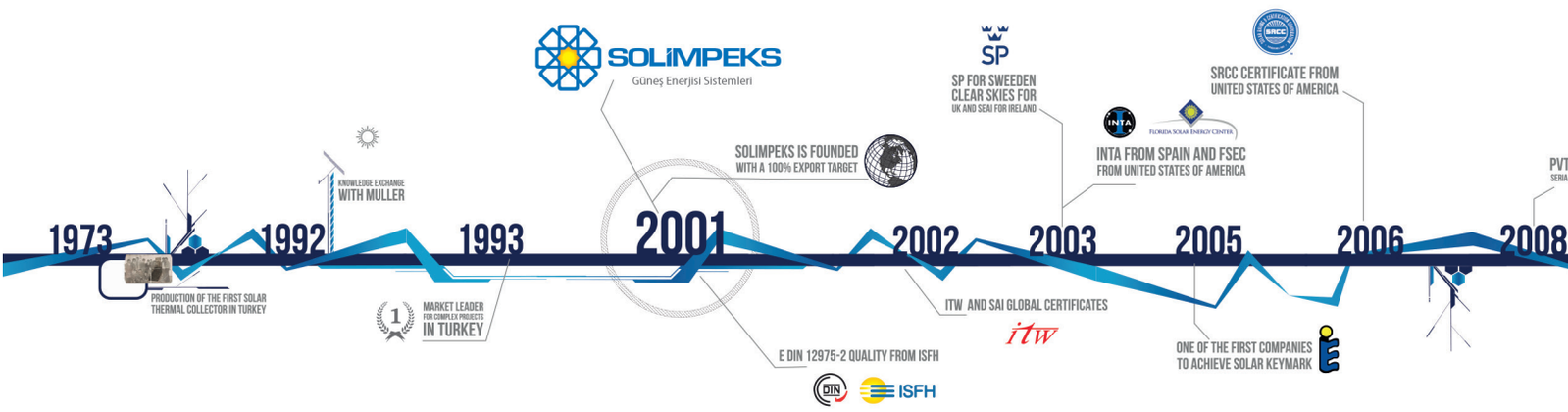
HEADQUARTERS KONYA / TURKEY

COMPANY

COMPANY

The origins of Solimpeks solar manufacturing date back to 1977. Through R&D and a strong focus on quality, company growth was accelerated and allowed Solimpeks to drive solar exports to successfully compete in markets all over the world. As a consequence of this expansion Solimpeks now has a reputation as a world leading manufacturer of high-quality solar energy products almost everywhere under the sun. Solimpeks employs over 300 staff in its locations across Turkey, Germany and Spain.

MILESTONES



CERTIFICATES

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

Bundesamt für Wirtschaft und Ausfuhrkontrolle

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-linkup 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 Commision) 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" (Institute fur Solarenergieforschung) certificate issued by the Leibniz University Solar Energy Research Institute.

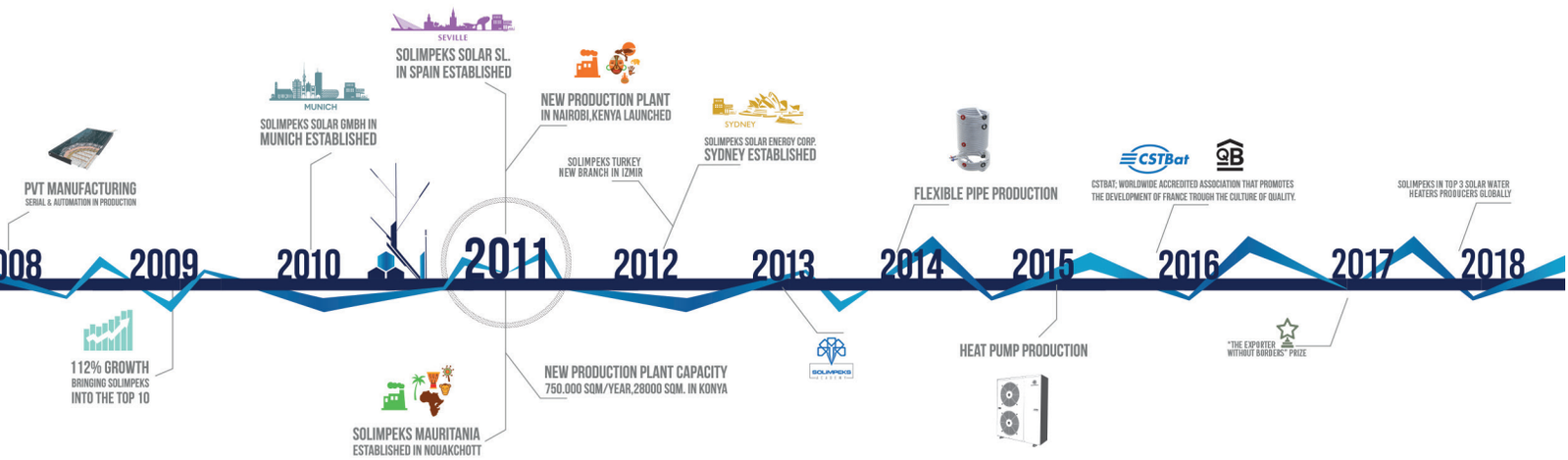
CSTBat; Worldwide accredited association that promotes the development of France trough the culture of quality.

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.

ISO 27001 Information Security Management System certificates; ISO 27001 Information security management system is established by an accredited certification organization to pass through 2 stages of supervision and to prove its continuity.



HYB; states that manufacturing facilities comply to Turkish Standarts.

The Turkish Standards Compliance Certificate:
This certification states 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 specialising in applied research, and the development and promotion of renewable energy. It is highly rated and has acknowleged 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.

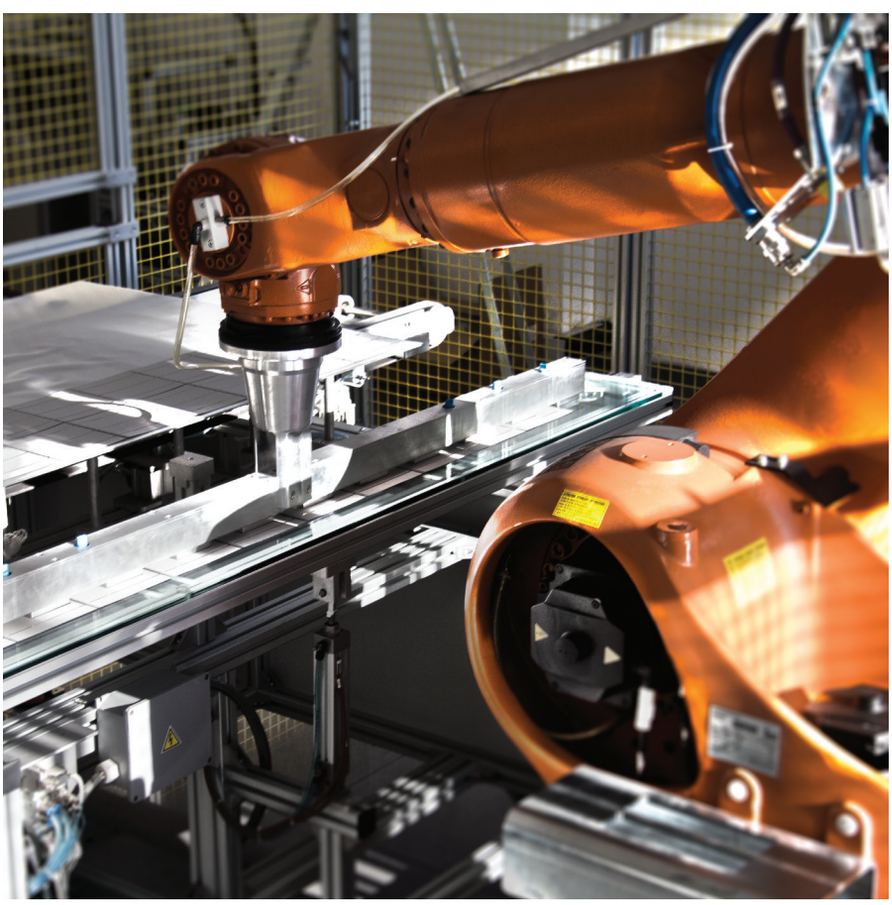
Eurofins Scientific is an international life sciences company which provides a unique range of analytical testing services to clients across multiple industries

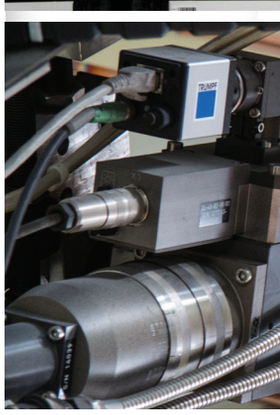
Fraunhofer is Europe's largest application-oriented research organization based in Munich,GERMANY.

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.

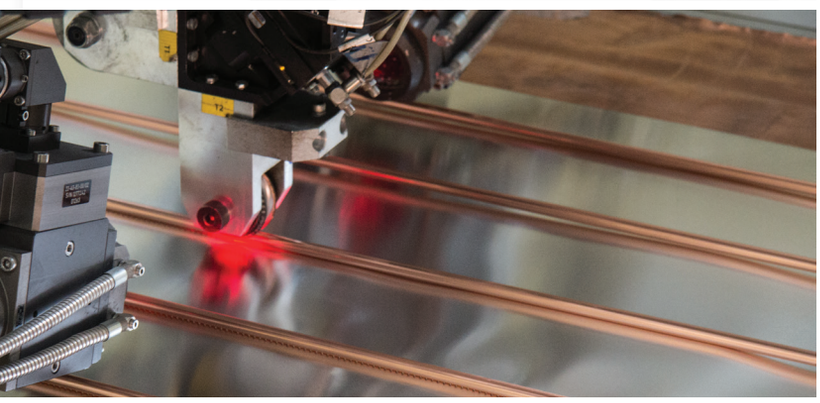
ISO 9001:2015 specifies requirements for a quality management system where an organization, needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements.

PRODUCTION





Solimpeks products are manufactured using the latest proven industry methods in order to ensure quality and the lowest failure rates. From robotic production lines with a high level of automation to custom-made product-specific machinery; all our products are manufactured in line with industry standards for quality. At the Solimpeks outdoor testing site, the solar products are subjected to extreme climatic and endurance tests. All of our manufactured products are subjected to above the standard requirements for testing, to ensure the products are of the highest quality before leaving our factory.



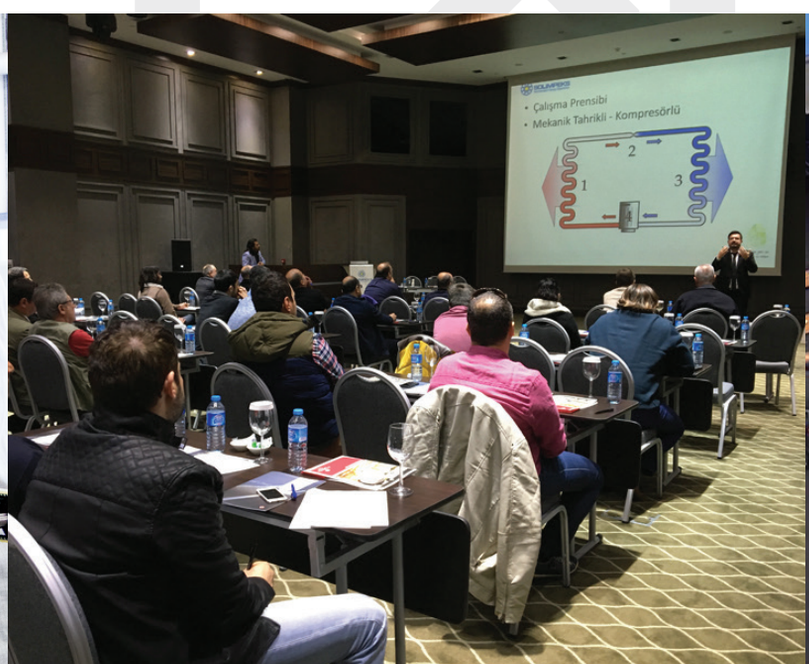
Quality assurance is our main priority at Solimpeks, only the best products bring long-term success for our customers. Solimpeks are certified in accordance with ISO 9001 and ISO 12001. To make sure that only products of the highest quality leave our plant, testing quality begins with semi-finished materials and follows through to packaged products. During production, each product range passes through our multi-stage quality assurance programme of strict monitoring and quality control. The same holds true for our production processes and technologies.

QUALITY

R&D

Solar power is as ancient as the world we live in, so under the sun nothing is new. However, converting sunlight into more useful forms of energy is a constant research and development process, even today. Solimpeks knows very well the importance of R&D for converting solar power into heat and electricity efficiently. We also understand this process must consider the economics and so we are always looking for ways to engineer more cost effective and efficient products.

SOLİMPEKS
ACADEMY



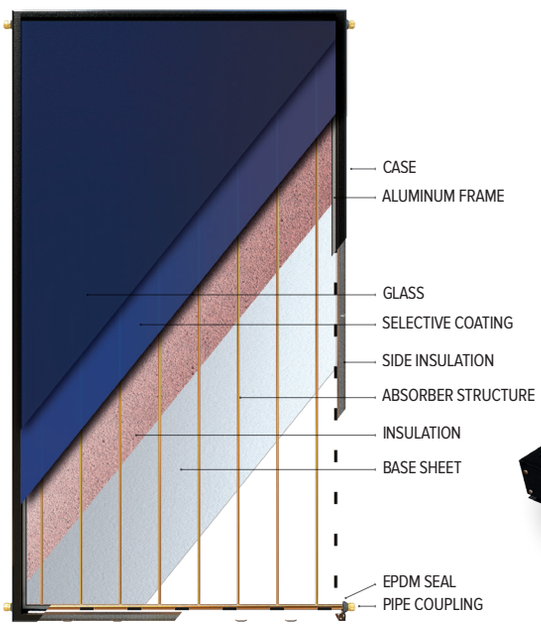
At Solimpeks we offer a variety of educational opportunities and resources for engineers, designers, contractors, technicians, installers and students. We have developed a wealth of print, video and software resources that provide in-depth information and training on a numerous topics from basic solar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

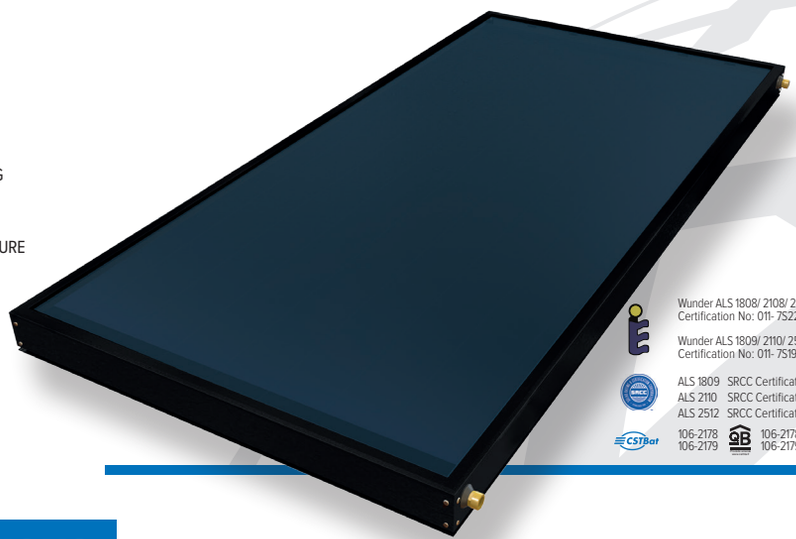
CONTENT

PRODUCTS

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

WUNDER ALS





Wunder ALS 1808/ 2108/ 2510
Certification No: 011- 7S2248 F

Wunder ALS 1809/ 2110/ 2512
Certification No: 011- 7S1941 F

ALS 1809 SRCC Certification No: 10001863
ALS 2110 SRCC Certification No: 10001864
ALS 2512 SRCC Certification No: 10001865

106-2178 106-2179 106-2178 106-2179

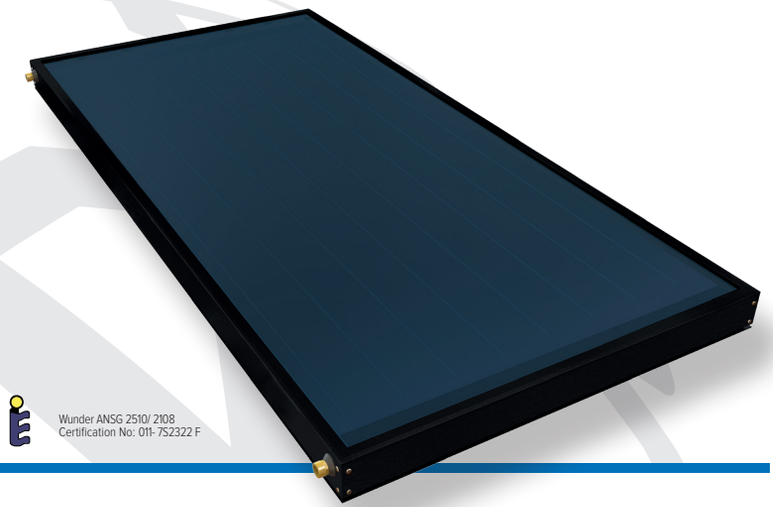
TECHNICAL SPECIFICATIONS

		Wunder ALS 3010	Wunder ALS 2710	Wunder ALS 2510 / 2512	Wunder ALS 2108 / 2110	Wunder ALS 1808 / 1809
	PRODUCT CODE	MA-0408	MA-1712	MA-0039 / MA- 0041	MA- 0032 / MA- 0034	MA- 0028 / MA- 0030
TECHNICAL DATA	DIMENSIONS (mm)	2436x1218x90	2220x1218x90	1988x1218x90	1988x1041x90	1927x927x90
	CASING	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
	WEIGHT (kg)	54	48	44	37,2	34
	GROSS AREA (m^2)	2,97	2,70	2,42	2,07	1,79
	APERTURE AREA (m^2)	2,76	2,53	2,24	1,92	1,62
	ABSORBER AREA (m^2)	2,76	2,53	2,23	1,89	1,59
ABSORBER	ABSORBER MATERIAL	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum
	ABSORPTANCE / EMITTANCE	95 / 4	95 / 4	0,95 / 0,04	0,95 / 0,04	0,95 / 0,04
	WELDING METHOD	Laser Welding	Laser Welding	Laser Welding	Laser Welding	Laser Welding
COPPER TUBES	HEAT CARRIER VOLUME (lt)	1,57	1,4	1,27	1,07	1
	DIAMETER OF ABSORBER TUBE/ HEADER TUBE (mm)	8 / 18	8 / 18	8 / 18	8 / 18	8 / 18
	NUMBER OF TUBES	12	12	10 / 12	9 / 10	8 / 9
GLASS	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4	4	4	4
INSULATION	INSULATION MATERIAL	Rock Wool	Rock Wool	Rock Wool	Rock Wool	Rock Wool
	DENSITY (kg/ m^3) / THICKNESS (mm)	50 / 40	50 / 40	50 / 40	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	203	203	194,5 / 203	194,5 / 203	194,5 / 203
	MAXIMUM OPERATION PRESSURE (bar)	10	10	10	10	10
	NOMINAL FLOW RATE (lt/ h)	145	130	120	105	100
	BACK SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof

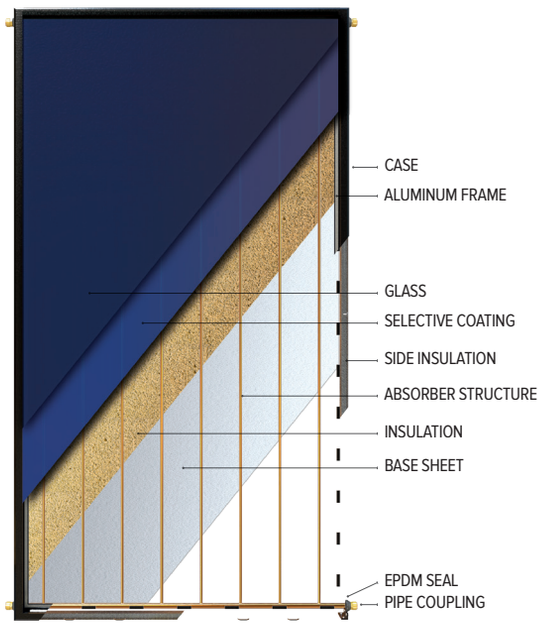
SOLİMPEKS

WUNDER ANSG

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



Wunder ANSG 2510/ 2108
Certification No: 011- 7S2322 F

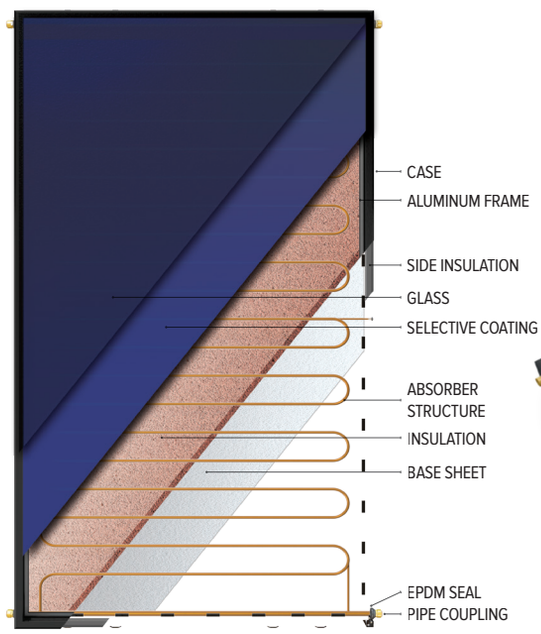


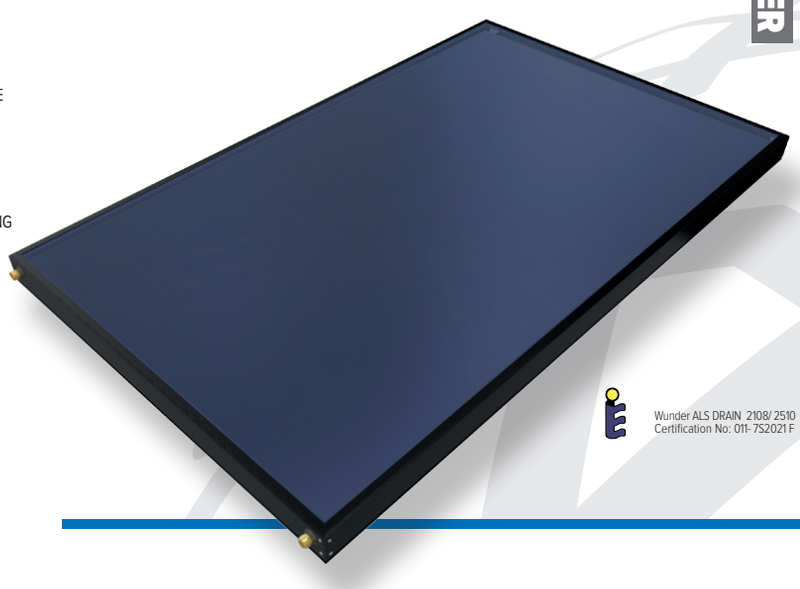
TECHNICAL SPECIFICATIONS

		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	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 AREA (m^2)	2,23	1,89	1,59
ABSORBER	ABSORBER MATERIAL	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum
	ABSORPTANCE / EMITTANCE	0,95 / 0,03	0,95 / 0,03	0,95 / 0,03
	WELDING METHOD	Laser Welding	Laser Welding	Laser 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 TUBES	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 (kg/ m^3) / THICKNESS (mm)	14 / 50	14 / 50	14 / 50
MAXIMUM RATING	STAGNATION TEMPERATURE (C)	190	190	190
	MAXIMUM OPERATION PRESSURE (bar)	10	10	10
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BACK SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof

WUNDER ALS MEANDER

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





Wunder ALS DRAIN 2108/ 2510
Certification No: 011- 7S2021 F

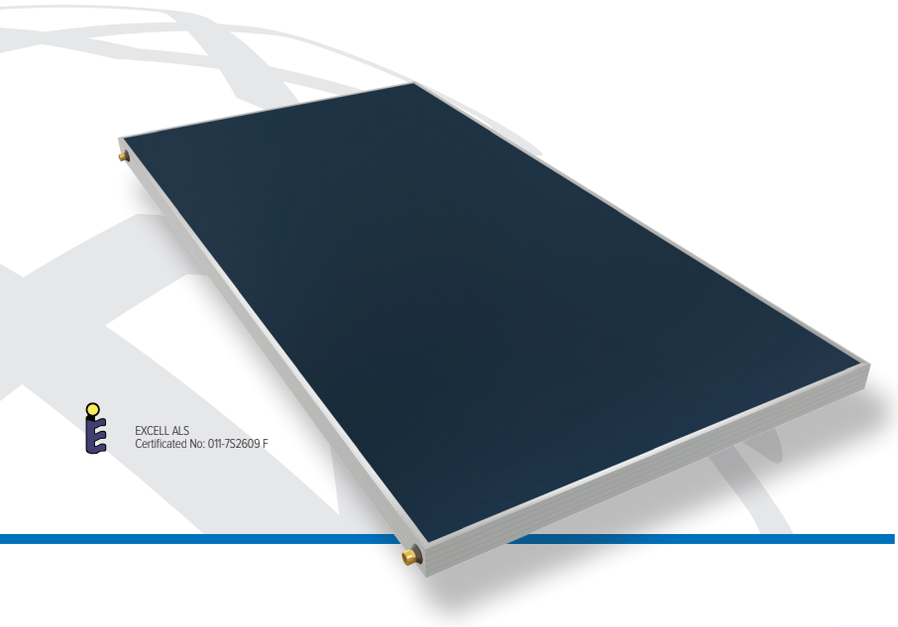
TECHNICAL SPECIFICATIONS

		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 AREA (m^2)	2,23	1,89
ABSORBER	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
COPPER TUBES	HEAT CARRIER VOLUME (lt)	1,27	1,07
	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	10 / 18	10 / 18
	NUMBER OF TUBES	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 (kg/ m^3) / THICKNESS (mm)	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	192	192
	MAXIMUM OPERATION PRESSURE (bar)	10	10
	NOMINAL FLOW RATE (lt/ h)	120	105
	BACK SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof

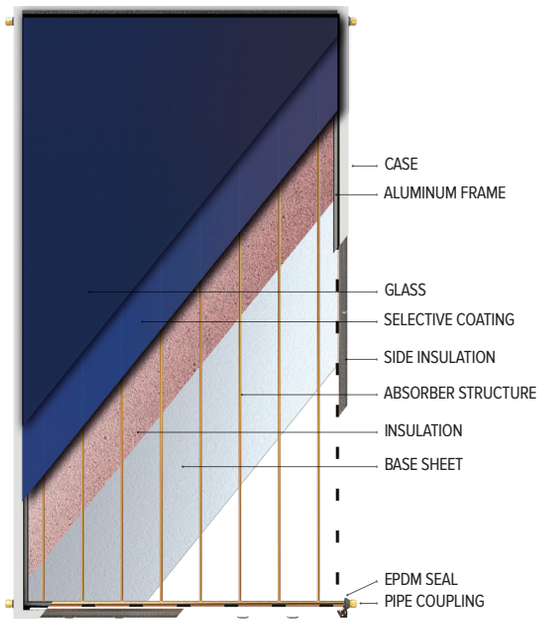
SOLİMPEKS

EXCELL ALS

- Solar Keymark certified
- Slim Design
- Low Heat Loss
- High performance
- Compatible with PV Mounting Systems
- Standard PV Dimensions Suitable for Hybrid Installations



EXCELL ALS
Certificated No: 011-7S2609 F

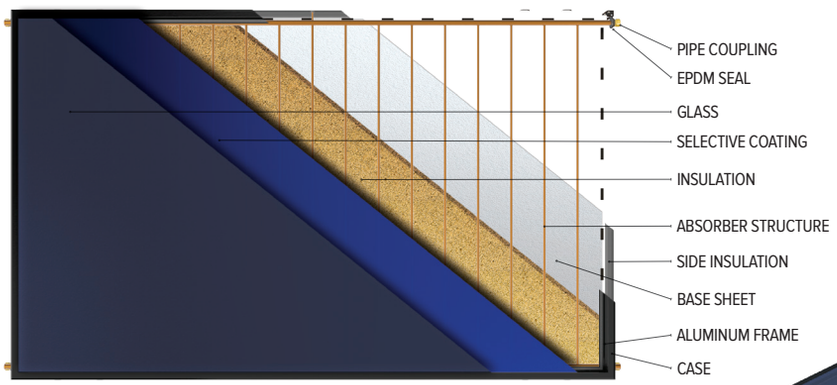


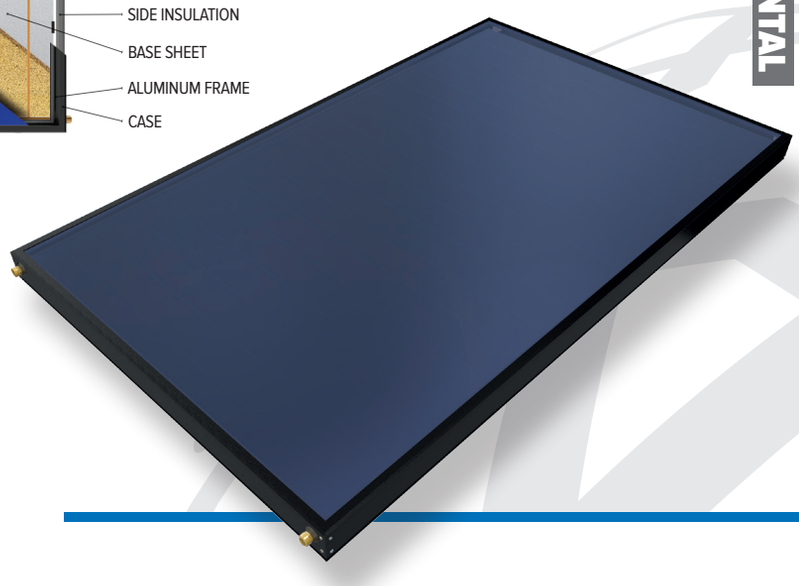
TECHNICAL SPECIFICATIONS

	PRODUCT CODE	MA-0643
		EXCELL ALS
TECHNICAL DATA	DIMENSIONS (mm)	999x1963x60
	CASING	Electrostatic Painted Aluminium Case
	WEIGHT (kg)	28,5
	GROSS AREA (m^2)	1,96
	APERTURE AREA (m^2)	1,85
	ABSORBER AREA (m^2)	1,86
ABSORBER	ABSORBER MATERIAL	Almeco-Tinox Highly Selective Aluminum
	ABSORPTANCE / EMITTANCE	0,95 / 0,04
	WELDING METHOD	Laser Welding
COPPER TUBES	HEAT CARRIER VOLUME (lt)	1,17
	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	8 / 18
	NUMBER OF TUBES	10
GLASS	GLASS MATERIAL	Low Iron Tempered Glass AR Coated
	THICKNESS OF GLASS (mm)	3,2
INSULATION	INSULATION MATERIAL	Glass Wool
	DENSITY (kg/ m^3) / THICKNESS (mm)	14/15
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	194,5 / 203
	MAXIMUM OPERATION PRESSURE (bar)	10
	NOMINAL FLOW RATE (lt/ h)	105
	BACK SHEETING	Embossed Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof

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

WUNDER ALS HORIZONTAL





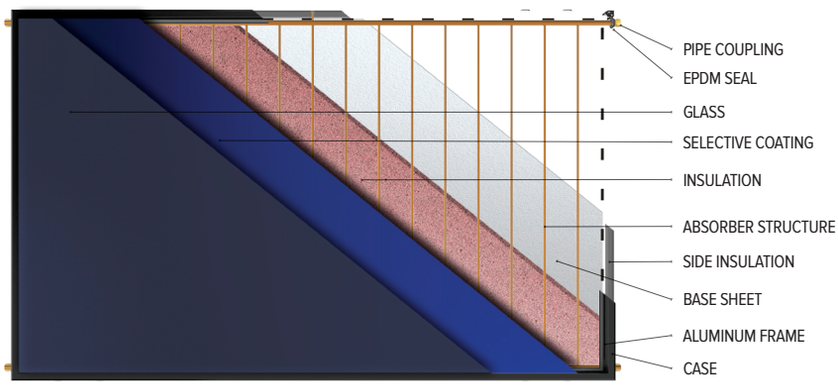
TECHNICAL SPECIFICATIONS

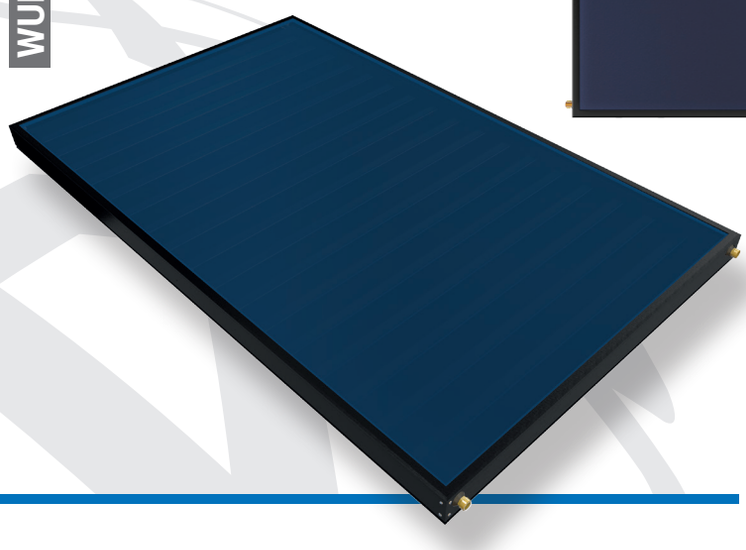
		Wunder ALS 2512 Horizontal	Wunder ALS 2110 Horizontal
	PRODUCT CODE	MA- 0043	MA- 0036
TECHNICAL DATA	DIMENSIONS (mm)	1218x1988x90	1041x1988x90
	CASING	Electrostatic Painted Aluminum Case	Electrostatic Painted Aluminum Case
	WEIGHT (kg)	44	37,2
	GROSS AREA (m^2)	2,42	2,07
	APERTURE AREA (m^2)	2,24	1,92
	ABSORBER AREA (m^2)	2,23	1,89
ABSORBER	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
COPPER TUBES	HEAT CARRIER VOLUME (lt)	1,88	1,6
	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	8 / 18	8 / 18
	NUMBER OF TUBES	17	17
GLASS	GLASS MATERIAL	Low Iron Tempered Glass	Low Iron Tempered Glass
	THICKNESS OF GLASS (mm)	4	4
INSULATION	INSULATION MATERIAL	Rock Wool / Glass Wool	Rock Wool / Glass Wool
	DENSITY (kg/ m^3) / THICKNESS (mm)	50 / 40	50 / 40
	STAGNATION TEMPERATURE (°C)	211	211
MAXIMUM RATING	MAXIMUM OPERATION PRESSURE (bar)	10	10
	NOMINAL FLOW RATE (lt/ h)	120	105
	BACK SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof

SOLİMPEKS

WUNDER CLS HORIZONTAL

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



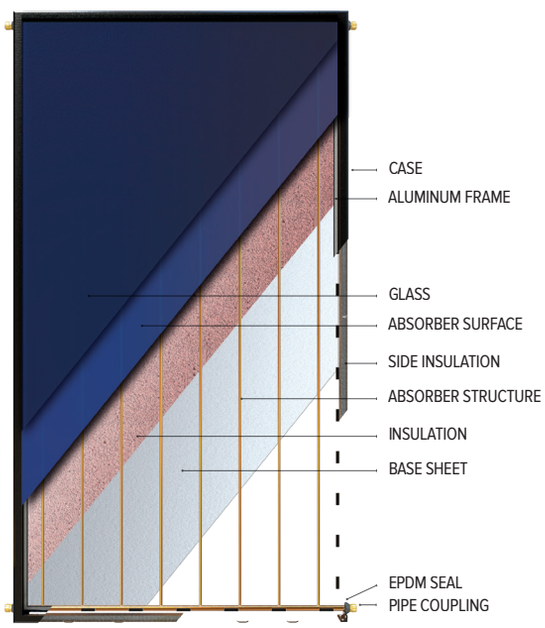


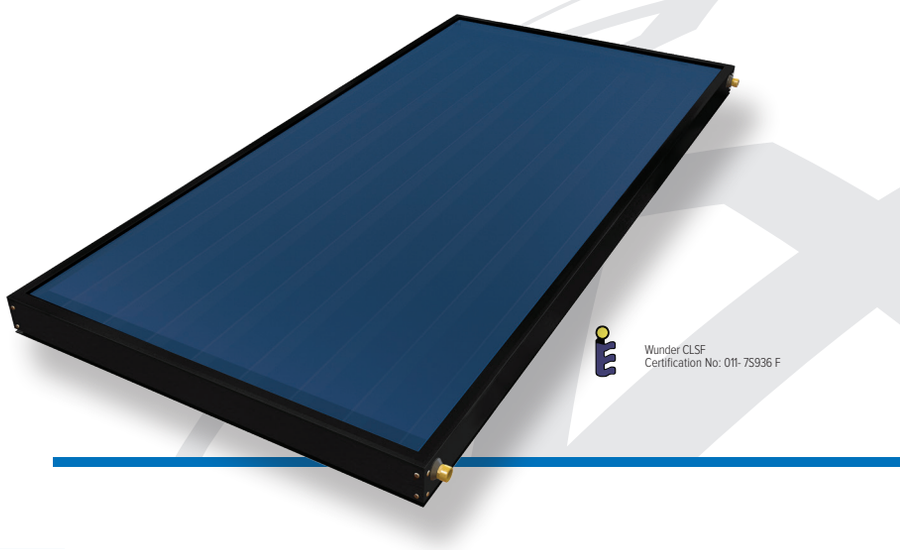
TECHNICAL SPECIFICATIONS

		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 AREA (m^2)	2,23	1,89
ABSORBER	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
COPPER TUBES	HEAT CARRIER VOLUME (lt)	1,88	1,6
	DIAMETER OF ABSORBER TUBE / HEADER TUBE (mm)	8 / 18	8 / 18
	NUMBER OF TUBES	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 (kg/ m^3) / THICKNESS (mm)	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	232	232
	MAXIMUM OPERATION PRESSURE (bar)	10	10
	NOMINAL FLOW RATE (lt/ h)	120	105
	BACK SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof	In roof - On roof - 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





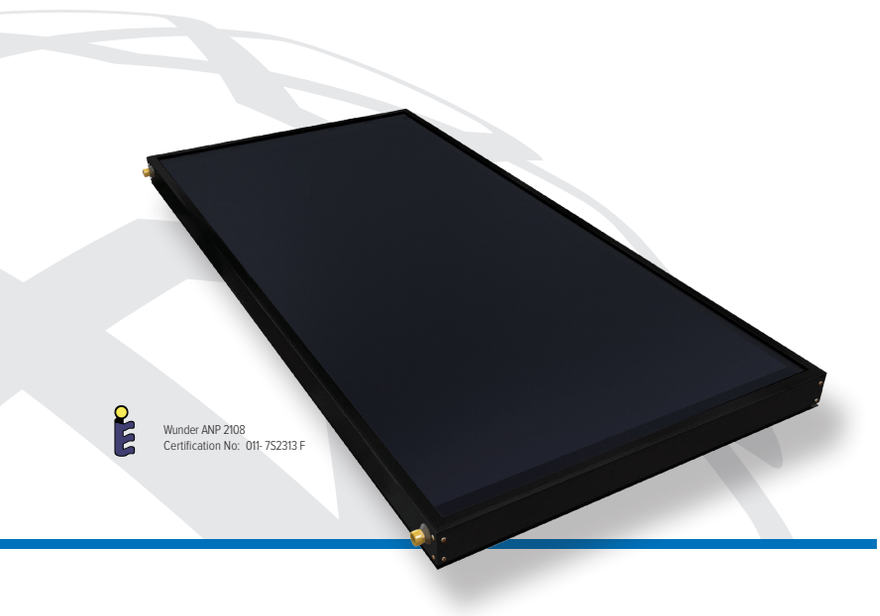
TECHNICAL SPECIFICATIONS

		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	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 AREA (m^2)	2,23	1,89	1,59
ABSORBER	ABSORBER MATERIAL	Almeco-Tinox Highly Selective Copper	Almeco-Tinox Highly Selective Copper	Almeco-Tinox Highly Selective Copper
	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 TUBES	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 (kg/ m^3) / THICKNESS (mm)	50 / 40	50 / 40	50 / 40
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	211	211	211
	MAXIMUM OPERATION PRESSURE (bar)	10	10	10
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BACK SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof

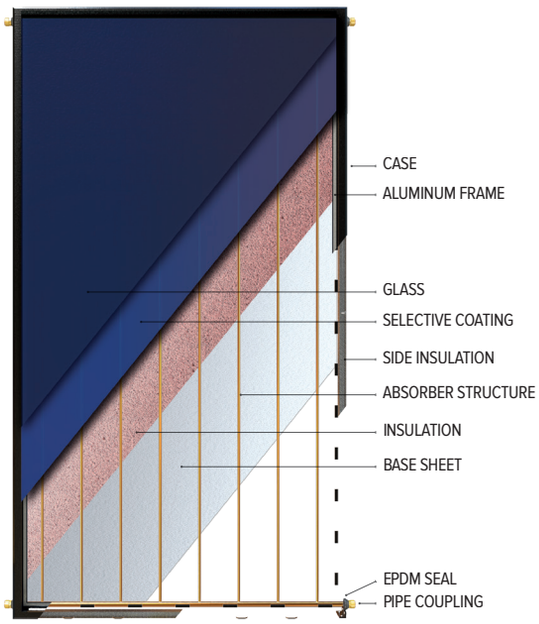
SOLİMPEKS

WUNDER ANP

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



Wunder ANP 2108
Certification No: 011- 7S2313 F

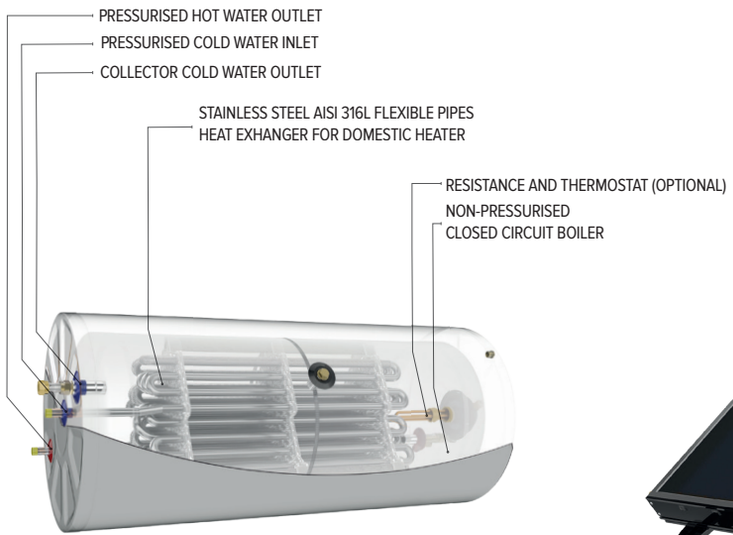


TECHNICAL SPECIFICATIONS

		Wunder ANP 2510	Wunder ANP 2108	Wunder ANP 1808
	PRODUCT CODE	MA- 0023	MA- 0019	MA- 0015
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 AREA (m^2)	2,23	1,89	1,59
ABSORBER	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
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 TUBES	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 (kg/ m^3) / THICKNESS (mm)	14 / 50	14 / 50	14 / 50
MAXIMUM RATING	STAGNATION TEMPERATURE (°C)	153,6	153,6	153,6
	MAXIMUM OPERATION PRESSURE (bar)	10	10	10
	NOMINAL FLOW RATE (lt/ h)	120	105	100
	BACK SHEETING	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet
	MOUNTING TYPE	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof	In roof - On roof - Flat Roof

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

TSM



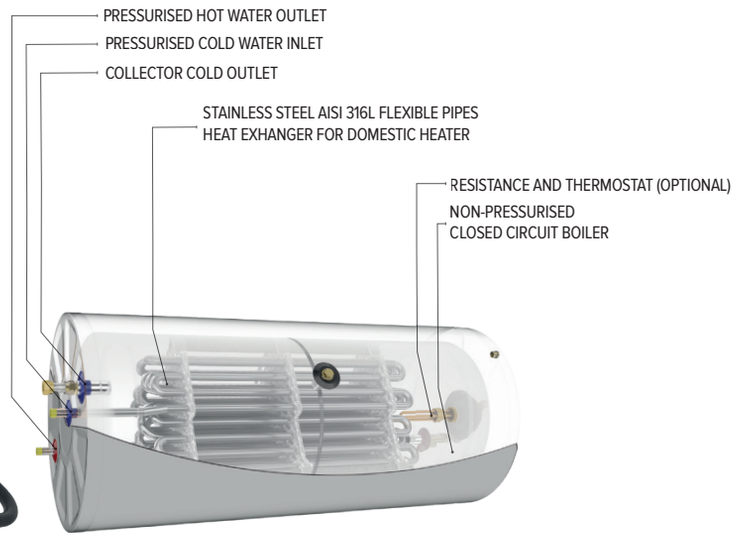
Certification No: 116 BN / 0

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	50 mm/ 40 kg/m^3/ Polyurethane Insulation (CFC Free)	50 mm/ 40 kg/m^3/ Polyurethane Insulation (CFC Free)	50 mm/ 40 kg / m^3/ Polyurethane Insulation (CFC Free)	50 mm/ 40 kg / m^3/ Polyurethane 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
Boiler Final Dimensions (Length/ Diameter) (mm)	1000 / 540	1115 / 540	1200 / 540	1725 / 540
Outer Cylinder Materials	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel
Outer Sheet	Painted Galvanized Steel Sheet	Painted Galvanized Steel Sheet	Painted Galvanized Steel Sheet	Painted Galvanized Steel Sheet
Boiler Net Weight (kg)	45	45	65	82
	Wunder ALS 1808 / 1809	Wunder ALS 2108 / 2110	Wunder ALS 2510 / 2512	Wunder ALS 2108 / 2110* (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 Aluminium	Almeco-Tinox Highly Selective Aluminium	Almeco-Tinox Highly Selective Aluminium	Almeco-Tinox Highly Selective Aluminium
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- Finished Aluminium Sheet	Embossed- Finished Aluminium Sheet	Embossed- Finished Aluminium Sheet	Embossed- Finished Aluminium Sheet

TSM ECO

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



TECHNICAL SPECIFICATIONS

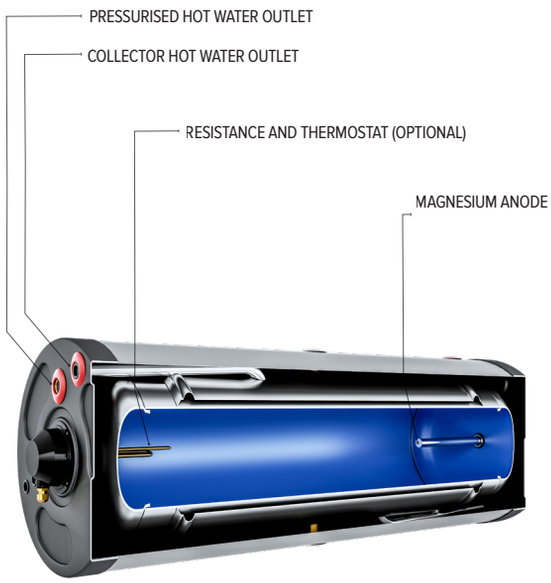
	TSM ECO 120	TSM ECO 150	TSM ECO 200	TSM ECO 300
Product Code	ST-0032	ST- 0052	ST- 0011	ST- 0012
Capacity (lt/day)	120	150	200	300
Tank Working Pressure (bar)	0-3	0-3	0-3	0-3
Heat Exchanger Working Pressure (bar)	2-5	2- 5	2- 5	2- 5
Maximum Temperature (°C)	95	95	95	95
Insulation	50 mm/ 40 kg/m^3/ Polyurethan Insulation (CFC Free)	50 mm/ 40 kg / m^3/ Polyurethan Insulation (CFC Free)	50 mm/ 40 kg / 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
Boiler Final Dimensions (Length/ Diameter)	1000 / 540	1115 / 540	1200 / 540	1725 / 540
Outer Cylinder Materials	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel
Outer Sheet	Painted Galvanized Steel Sheet	Painted Galvanized Steel Sheet	Painted Galvanized Steel Sheet	Painted Galvanized Steel Sheet
Boiler Net Weight (kg)	45	45	65	82
	Wunder ANP 1808	Wunder ANP 2108	Wunder ANP 2510	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- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet	Embossed- Finished Aluminum Sheet

SOLİMPEKS

ENAMEL COATED DOUBLE JACKET

5 year warranty
Solar Keymark certified
Titanium Coated Aluminum Surface
Double Jacket Heat Exchanger
High Tech Industrial Enameling
Longlife Sacrificial Anode

TSE



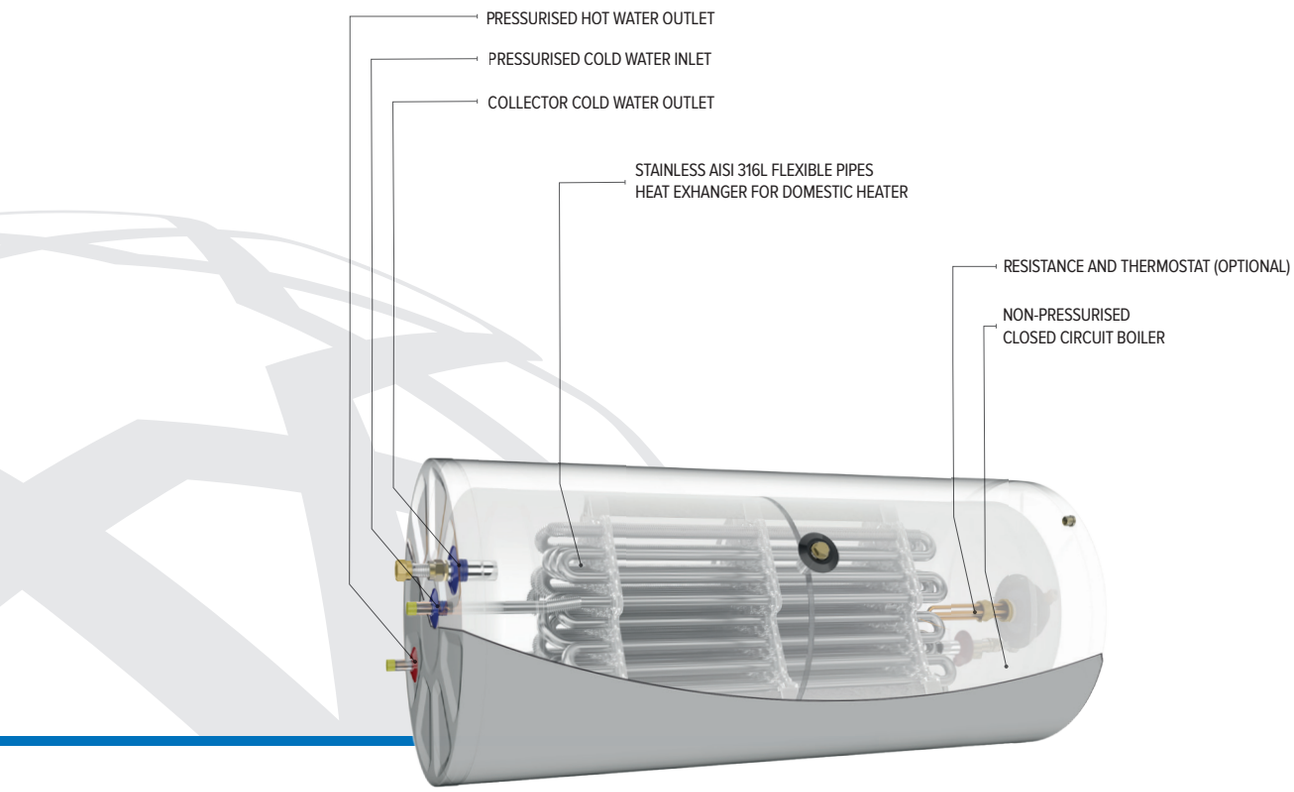
TECHNICAL SPECIFICATIONS

	TSE 150	TSE 200	TSE 300
Product Code	MA- 1660	MA- 1661	MA- 1662
Capacity (lt/day)	150	200	300
Maximum Tank Operating Pressure (bar)	10	10	10
Maximum Jacket Operating Pressure (bar)	1	1	1
Maximum Temperature (°C)	95	95	95
Insulation	50mm/42 kg /m3	50mm/42 kg /m3	50mm/42 kg /m3
Tank Body Thickness (mm)	2,5	2,5	2,5
Jacket Thickness (mm)	2	2	2
Inner Cylinder Dimensions (mm)	710/480	910/480	1480/480
Boiler Inner Dimensions (Length / Diameter)(mm/mm)	1080/485	1420/585	1850/585
	ANSG 2108	ANSG 2510	ANSG 2108 (2 pcs)
Dimensions (mm)	1988x1041x90	1988x1218x90	1988x1041x90
Weight (kg)	37,2	44	37,2
Gross Area (m2)	2,07	2,42	2,07
Aperture Area (m2)	1,92	2,24	1,92
Absorber Area (m2)	1,89	2,23	1,89
Absorber Material	Almeco – Tinox Highly Selective Aluminum	Almeco – Tinox Highly Selective Aluminum	Almeco – Tinox Highly Selective Aluminum
Absorptance \ Emittance	0,95 / 0,04	0,95 / 0,04	0,95 / 0,04
Welding Method	Laser welding	Laser welding	Laser welding
Glass Material	Normal Iron Tempered Glass	Normal Iron Tempered Glass	Normal Iron Tempered Glass
Insulation Material	Glass Wool	Glass Wool	Glass Wool
Base Sheeting	Embossed-Finished Aluminum Sheet	Embossed-Finished Aluminum Sheet	Embossed-Finished Aluminum Sheet

SOLAR TANKS

TSM

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

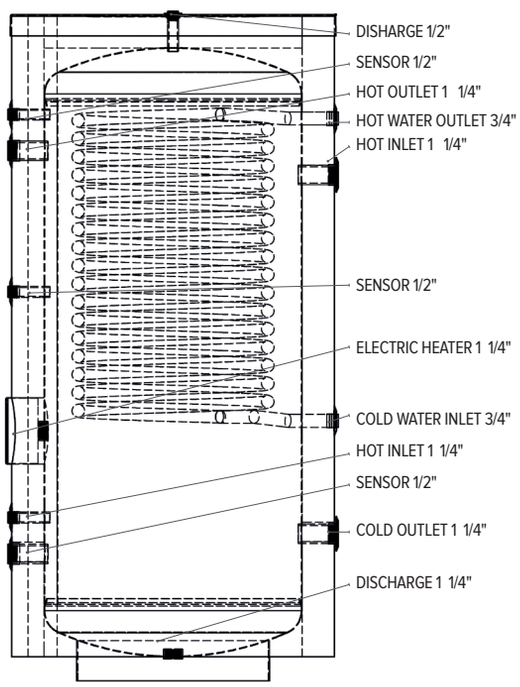


TECHNICAL SPECIFICATIONS

	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 (CFC Free)	50 mm/ 40 kg/m^3/ Polyurethane Insulation (CFC Free)	50 mm/ 40 kg/m^3/ Polyurethane Insulation (CFC Free)	50 mm/ 40 kg/m^3/ Polyurethane Insulation (CFC Free)	50 mm/ 40 kg/m^3/ Polyurethane Insulation (CFC Free)
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
Cylinder Inner Dimensions (Length / Diameter) (mm/mm)	900 / 446	1015 / 446	1150 / 446	1675 / 446	2115 / 446
Cylinder Final Dimensions (Length/ Diameter) (mm/mm)	1000 / 540	1115 / 540	1200 / 540	1725 / 540	2215 / 540
Outer Cylinder Materials	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder 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

SOLIKOMBI

Hygenic water with stainless steel heat exchanger
Less Lime-scale due to flexible heat exchanger
No sacrifical anode bar
Pressurized potable water
Unpressurized tank
Lightweight, aesthetic, long life and maintenance-free
Compatible with heat pump and hybrid energy system
Optional immersion heater
Minimum heat loss - polyurethane insulation
Easy installation due to compact design
Compatible with solar energy systems
5 year warranty

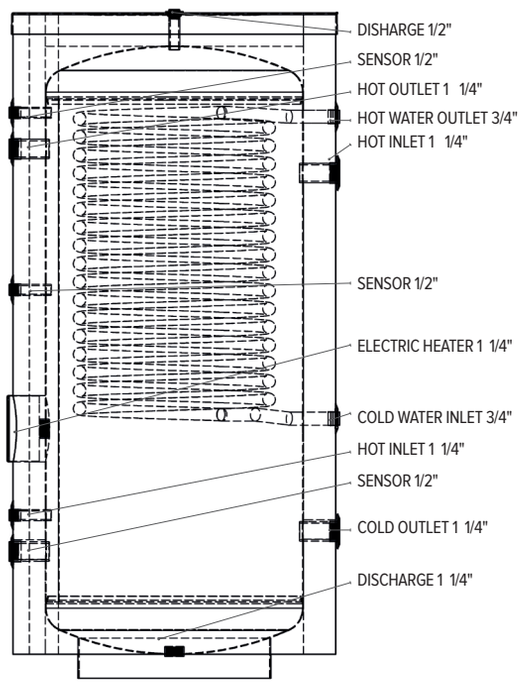


TECHNICAL SPECIFICATIONS

	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 (lt)	245	454	800	970
Insulation	50 mm /40 kg/m^3	50 mm /40 kg/m^3 - 80 mm /18 kg/m^3	80 mm /14 kg/m^3	80 mm /14 kg/m^3
Insulating Material	Polyurethane (CFC Free)	18 Density Foam Rubber / Polyurethane (CFC Free)	18 Density Foam Rubber	18 Density Foam Rubber
Outer Cylinder Materials	Electrostatic Powder Painted ST 37 Steel	Electrostatic Powder Painted ST 37 Steel / Leatherette Jacket	Leatherette Jacket	Leatherette Jacket
Materials of Coil	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel
Number of Coils	2	2	2	2
1. Coil Area (m^2)	3,83	4,81	7,23	8,76
2. Coil Area (m^2)	1,75	1,75	2,19	2,62

SOLITANK

Hygenic water with stainless steel heat exchanger
Less Lime-scale due to flexible heat exchanger
No sacrifical anode bar
Pressurized potable water
Unpressurized tank
Lightweight, aesthetic, long life and maintenance-free
Compatible with heat pump and hybrid energy system
Optional immersion heater
Minimum heat loss - polyurethane insulation
Easy installation due to compact design
Compatible to solar energy systems
5 year warranty

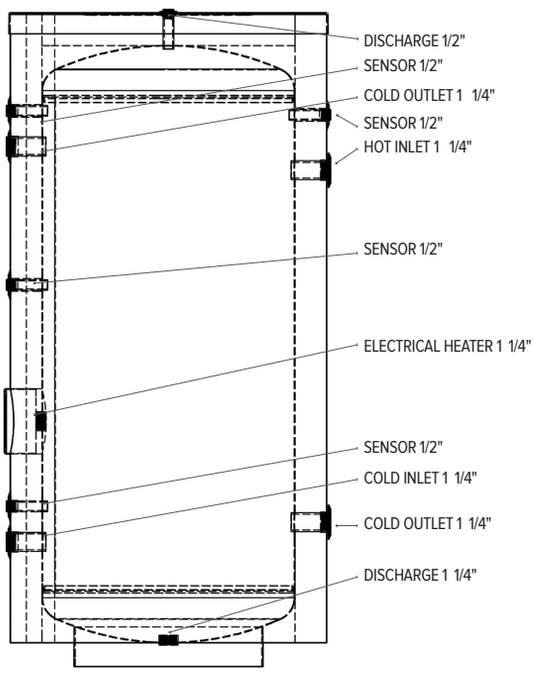


TECHNICAL SPECIFICATIONS

	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 (lt)	170	245	454	970
Insulation	50 mm /40 kg/m^3	50 mm /40 kg/m^3	50 mm /40 kg/m^3 80 mm /18 kg/m^3	80 mm /18 kg/m^3
Insulating Material	Polyurethane (CFC Free)	Polyurethane (CFC Free)	Polyurethane / 18 Density Foam Rubber (CFC Free)	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 / Leatherette Jacket	Leatherette Jacket
Materials of Coil	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel	AISI 316 L Stainless Steel
Number of Coils	1	1	1	1
1. Coil Area (m^2)	3,83	3,83	5,48	8,76

SOLIBUFFER

Minimum heat loss - polyurethane insulation
Compatible with heat pump systems
Lightweight, aesthetic, long life and maintenance-free
Optional immersion heater
Easy installation due to compact design
5 year warranty

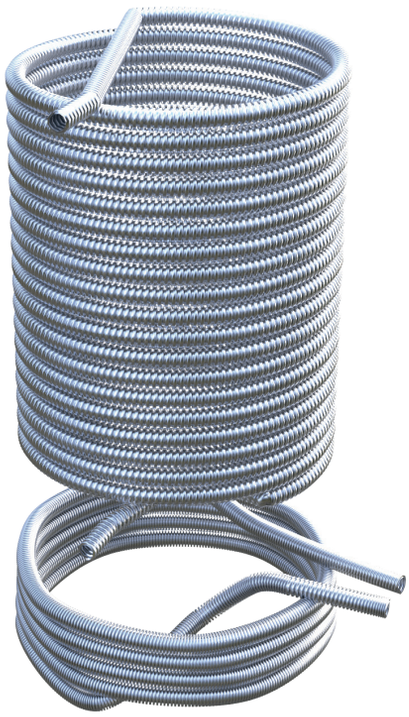


TECHNICAL SPECIFICATIONS

	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 (lt)	132	170	245	454	970
Insulation	50 mm /40 kg/m^3	50 mm /40 kg/m^3	50 mm /40 kg/m^3	50 mm /40 kg/m^3 - 80 mm /18 kg/m^3	80 mm /18 kg/m^3
Insulating Material	Polyurethane (CFC Free)	Polyurethane (CFC Free)	Polyurethane (CFC Free)	Polyurethane / 18 Density Foam Rubber (CFC Free)	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 ST 37 Steel /Leatherette Jacket	Leatherette Jacket

SOLIFLEX-UVR

SoliFlex AISI 316L Stainless Steel Flexible Hose
Designed for effortless installation
High pressure and temperature resistance
UV resistant outer surface
Long working life
Designed for small installation areas
Low cost installation
Easy installation fittings

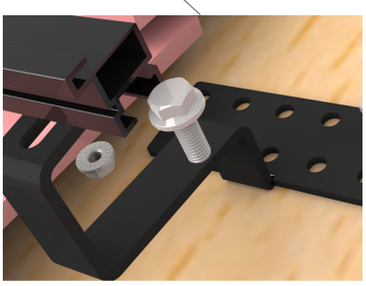


TECHNICAL SPECIFICATIONS

DN	CORRUGATION TYPE	Ø DIAMETER(mm)		DIMENSIONS (mm)			TOLERANCE (±mm)	WALL THICKNESS (mm)	NOMINAL PRESSURE (bar)	INTERNAL VOLUME (l)	SURFACE AREA (m^2/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
	ƛ	W/m.K	0,034	0,036	0,038	0,04	0,043	0,045	EN ISO 8497
Fluid Temperature	°C	-50° C to 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	

PITCHED ROOF



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

FLAT ROOF

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

SPARE PARTS

Tank Holder
YA- 0321

Roof Hook Painted
HA- 0527

Roof Hoof Stainless Steel
HA- 0520

Roof Hook Galvanized Steel
YA- 0482

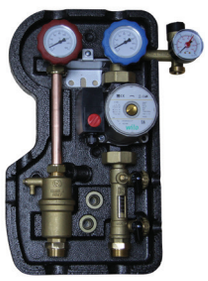
Aluminum Profile
HA- 0544

Aluminum Profile with Holder
Ha- 0546

M8 Aluminum Clamps
YA- 0431

Aluminum Profile Connector
YA- 0225

ACCESSORIES

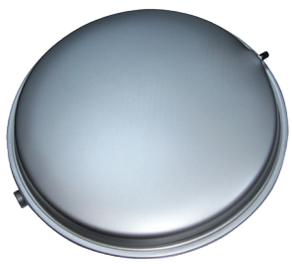


Pump Station

TI-0131 et TI-0129

Solar Controller

TI-0209 et TI-0210

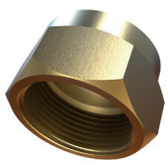


Expansion Vessel

TI-0531

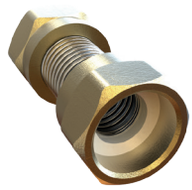
Air Purger

HA-1498



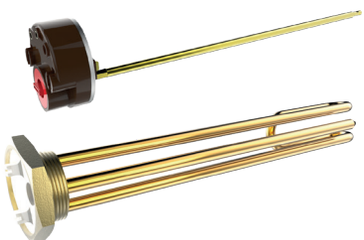
End Cap

HA-0345



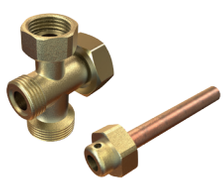
Flexible Connection

YA-0215



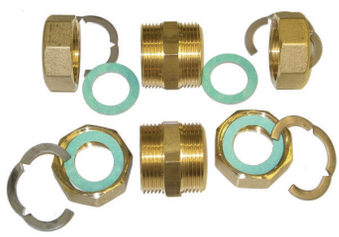
Electrical Heater
Thermostat

TI-0079 et TI-0080



Sensor Set

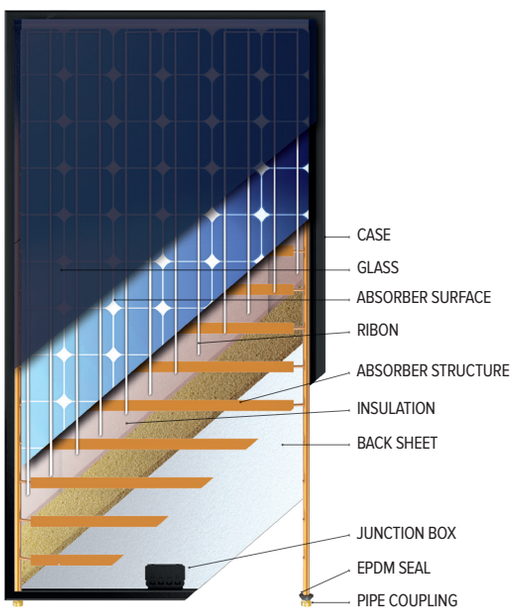
TI-0315

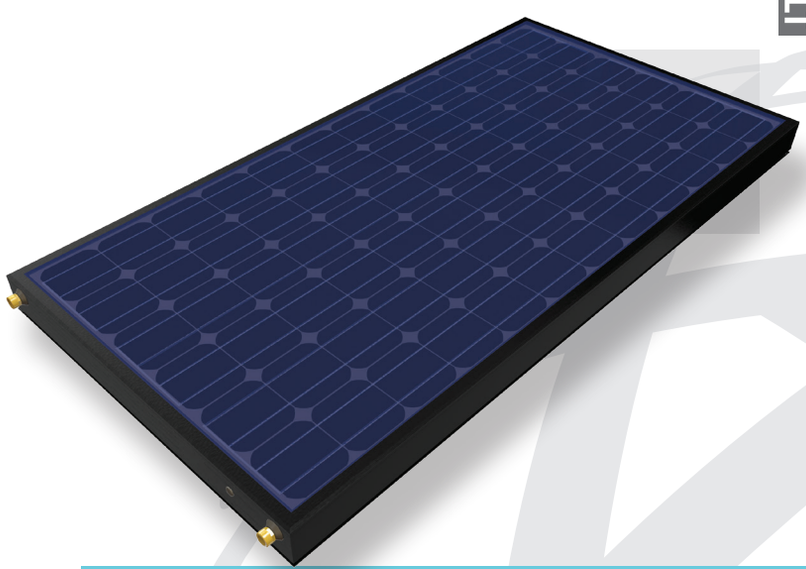


End Fittings Pack

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

VOLTHER POWERVOLT





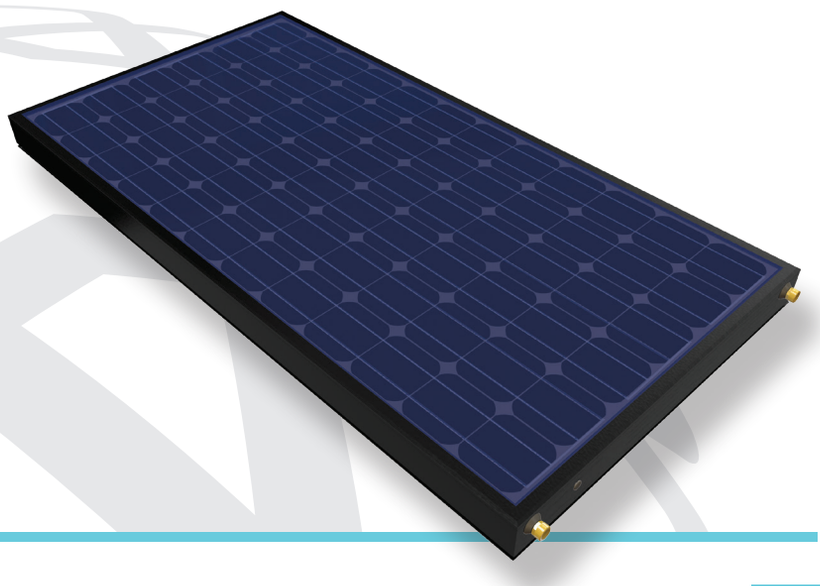
TECHNICAL SPECIFICATIONS

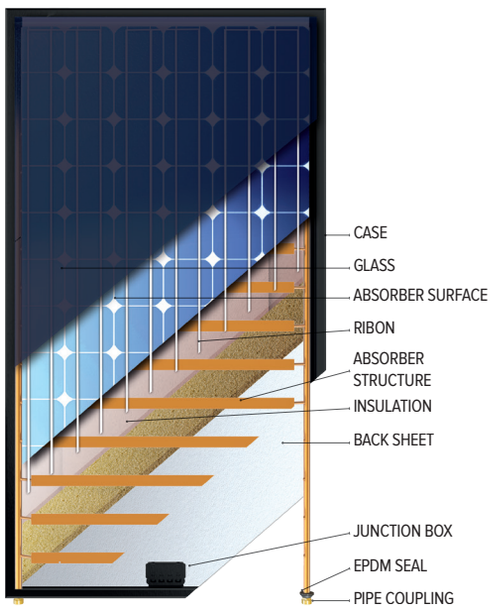
	PowerVolt
Product Code	MA- 0013
Dimensions (mm)	828x1601x90
Gross Area (m^2)	1,326
Aperture Area (m^2)	1,194
Absorber Area (m^2)	1,194
Weight (kg)	24,4
Liquid Content	1,125
Absorber Panel	Mono-Crystalline
Number of Cells	72
Cell Dimensions (mm)	125 x 125
WP (W) Nominal Power	200
Imp (A) Nominal Current	5,28
Isc (V) Short Circuit Current	5,66
Vmp (V) Nominal Current	37,89
Voc (V) Open Circuit Voltage	45,26
Heat Exchanger	Copper
Internal Piping	Copper
Test Pressure (bar)	13
Maximum Operating Pressure (bar)	6
Cover Glass	PV Glass
Sealing	EPDM & Silicone
Maximum Temperature	101°C
Base Sheeting	Embossed - Finished Aluminum
Rear Side	Aluminum
Product Warranty	10 Years
Productivity Guaranty	%90<10 years, %80<20 years

	PowerVolt
Product Code	MA- 0013
Temperature coefficint of Isc	0.06%/°C
Temperature coefficint of Voc	-0.34%/°C
Temperature coefficint of Pmax	-0.45%/°C
Power Tol erance	±3%
Module electrical effiency	15.08%
η_0 (Zero Lo ss Collector Efficiency)	0.475
a_1 (first order heat loss)	8.37
a_2 (second order heat loss)	0.586
MC4 connector (brand / model)	JMTHY / PV-JM601
WP (W) The rmal Power	630
Recommended flow rate (L/Hr)	65
Country of manufacture	Turkey
Manufacturer	Solimpeks Solar Energy Corp.

POWERTHERM

Electricity and usable thermal hot water at the same time from one panel
Extra electricity production of up to 20% per year with cooled PV cells
More hot water with PowerTherm





TECHNICAL SPECIFICATIONS

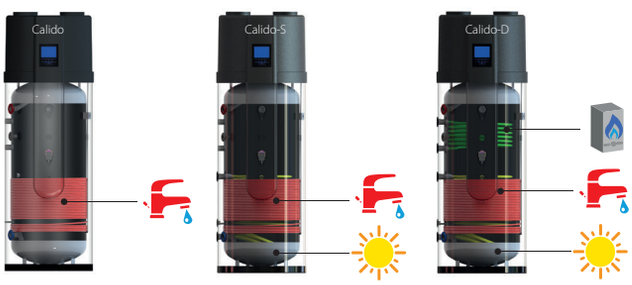
	PowerTherm (PV- T Glazed)
Product Code	MA- 0014
Dimensions (mm)	870x 1640 x 105
Gross Area (m^2)	1,427
Aperture Area (m^2)	1,427
Absorber Area (m^2)	1,27
Weight (kg)	34,4
Liquid Content	1,16
Absorber Panel	Mono-Crystalline
Number of Cells	72
Cell Dimensions (mm)	125 x 125
WP (W) Nominal Power	180
Imp (A) Nominal Current	5,12 A
Isc (V) Short Circuit Current	5,55 A
Vmp (V) Nominal Current	35,15 V
Voc (V) Open Circuit Voltage	43,39
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	134°C
Base Sheeting	Embossed - Finished Aluminum
Rear Side	Aluminum
Product Warranty	10 Years
Productivity Guaranty	%90<10 years, %80<20 years

	PowerTherm (PV- T Glazed)
Product Code	MA- 0014
Temperature coefficint of Isc	0.06%/°C
Temperature coefficint of Voc	-0.34%/°C
Temperature coefficint of Pmax	-0.45%/°C
Power Tol erance	±3%
Module electrical effiency	12.90%
(Zero Lo ss Collector Efficiency)	0.486
η_0(first order heat loss)	4.028
a_2(second order heat loss)	0.067
MC4 connector (brand / model)	JMTHY / PV-JM601
WP (W) The rmal Power	680
Recommended flow rate (L/Hr)	65
Country of manufacture	Turkey
Manufacturer	Solimpeks Solar Energy Corp.

CALIDO

Steel tank with double layer vitrification.
Anti-corrosion magnesium stick for assuring the durability of the tank
Condenser wrapped externally to the boiler, free from fouling and gas water contamination.
High thickness polyurethane foam (PU) thermal insulation.
Outer shell made of grey colour RAL 9006 plastic material.
Acoustically isolated top part plastic cover.
Highly efficient compressor with the R134a refrigerant.
High and low gas pressure protections.
Electrical heater available in the unit as a back-up (with integrated thermo cut out with protection set at 90°C), assuring constant hot water even in extreme cold winters.
ON-OFF contact for starting the unit from an external switch.
Weekly disinfection cycle.
Possibility of manage hot sanitary water re-circulation or solar water integration (presence of a dedicated temperature probe, flow switch input and command for an external pump).
Electronic expansion valve for precise control
The pipeline intake/discharge of the air can be reduced from 177 to 160 mm by a reduction / diaphragm (not provided) inserted into the end of the pipeline.

TECHNICAL SPECIFICATIONS



VERSIONS

CALIDO
Standard version, heat pump and the electric heater.

CALIDO-S
With auxiliary coil for use in combi nation with solar panels.

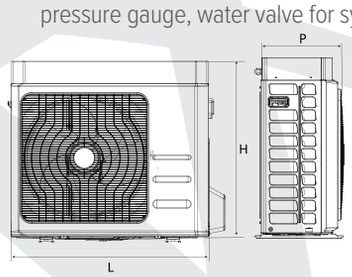
CALIDO-D
With double auxiliary coil in order to have at the same time three energy sources.

Calido		200	200-S	200-D	300	300-S	300-D
Power supply	V/Ph	220-240/1/50 Hz					
Water tank Volume	l	228	220	217	286	278	273
Capacity	Watt	1870 (+1200*)					
Power input	Watt	503 (+1200*)					
Absorbed current	A	2,23 (+5,2*)					
COP	W/W	3,72					
Energy efficiency		A					
Max. water temp	°C	75*					
Duct diameter	mm	177					
Auxiliary heater	kW	1,2					
Net Weight	kg	98	113	121	106,5	121,5	129,5
Solar exchanger surface	m^2	-	1,2	1,2	-	1,2	1,2
Auxiliary exchanger surf	m^2	-	-	0,5	-	-	0,8
IP protection class		IPX1					
Sound pressure	dB(A)	26					

INVERTER MONOBLOCK HEAT PUMP

i-HWAK

Customized control system with microcontroller regulation, overheating control logic with electronic expansion valve.
DC inverter compressors: twin-rotary Dc Inverte.
Ventilation: DC inverter with axial fan
Source exchanger: optimized circuit with finned coil, copper pipes and hydrophilic aluminum fins.
Users exchanger. A brazed stainless steel plate AISI 316 with reduced pressure drop on the water side.
Refrigerant circuit: The circuit is made with copper pipes and includes: condensing control, electronic expansion valve, reversing valve, high/low pressure switch, separator and liquid receiver, valves for maintenance and control, double-inlet pressure, high and low pressure transducers.
Integral hydraulic system: pump with high efficiency brushless circulator, expansion tank, flow switch, air valve, pressure relief valve (6 bar), pressure gauge, water valve for system charge/discharge.



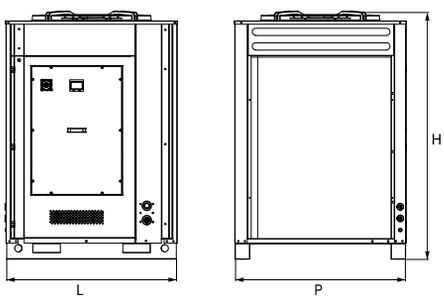
Dimensioni - Dimensions		06	08	10
L	mm	925	925	1047
P	mm	380	380	465
H	mm	785	785	913

TECHNICAL SPECIFICATIONS

i-HWAK/V4		06	08	10	12	14 14T	16 16T
Cooling capacity	kW	3,65~6,87 - 7,56*	4,65~8,52 - 9,12*	5,4~10 -11,35*	5,4~11,9 - 13,1*	6,7~13,8 - 15,2*	8,70~15,69 - 16,30*
Power input	kW	1,69	2,18	2,26	2,65	2,93	3,20
E.E.R.	W/W	4,06	3,91	4,43	4,49	4,72	4,90
Cooling capacity	kW	2,3~5,07 - 5,58*	2,95~6,12 - 6,73*	3,27~7,56 -8,83*	3,27~8,49 - 9,6*	5,3~11,46 - 12,05*	6,30~14,64 - 16,00*
Power input	kW	1,74	2,11	2,43	2,74	3,70	4,52
E.E.R.	W/W	2,91	2,90	3,11	3,10	3,10	3,24
SEER	W/W	3,59	3,61	4,63	4,73	4,51	4,77
Heating capacity	kW	2,78~6,57 - 7,23*	3,54~8,01 - 8,81*	4,69~10 -10,8*	4,69~12,1 - 12,7*	5,5~13,76 - 15,1*	7,10~15,21 - 15,90*
Power input	kW	1,47	1,85	2,26	2,89	3,2	3,45
C.O.P	W/W	4,47	4,33	4,43	4,19	4,3	4,41
Heating capacity	kW	2,24~6,15 - 6,76*	2,85~7,92 - 8,71*	3,9~9,51 - 10,3*	3,9~11,3 - 12,1*	5,3~13,55 - 14,9*	6,50~15,17 - 15,80*
Power input	kW	1,83	2,40	2,74	3,32	4,04	4,38
C.O.P.	W/W	3,36	3,31	3,47	3,41	3,35	3,46
SCOP	W/W	3,84	3,83	4,24	4,31	4,01	4,07
Energy efficiency		A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A++
Compressor type			Twin Rotary Dc Inverter				
Fans	n° x kW	1 x 0,15	1 x 0,15	1 x 0,15	1 x 0,15	2 x 0,15	2 x 0,15
Power supply	V~,Ph,Hz				230V/1/50Hz		
Outdoor temp.	°C				-20 / +46		
Max Running current	A	14,4	21,2	22,4	26,9	32,8	33
Sound power	dB(A)	62,0	62,5	63,0	63,5	65,5	66,0
Sound pressure	dB(A)	34	34,5	35	35,5	37,5	38
Pump power	kW	0,045	0,045	0,06	0,075	0,14	0,14
Water flow	m^3/h	1,13	1,38	1,72	2,08	2,37	2,62
Pump head	kPa	44,6	34,5	39,4	34,2	63,4	52,9
Water connections	inch	1"M	1"M	1"M	1"M	1"M	1"M
Min. volume of water	l	31	37	46	51	69	88
Net weight	kg	63,4	63,4	95,5	95,5	115,5	126,3
Operation weight	kg	67	67,5	97	97	119	130

i-HP

The series i-HP reaches high values of SEER and SCOP thanks to DC inverter scroll compressors, the EC fan exchangers and high efficiency. DC Inverter compressor can save till 25% of power input.
The installation inside the unit of high efficiency DC inverter scroll compressors optimized for working under heavy conditions as a heat pump and to use of an economizer, allows to obtain a high level of comfort in low-energy consumes rooms even during the coldest season (until a temperature of -25°).
The injectiont echnology involves injecting the refrigerant, in the vapour status, in the middle of the compression process to implement significantly the capacity and efficiency of the compressor improve the performances of this system compared to all conventional gas compression technologies.
With this kind of unit it is possible to produce hot water up to 60°C even with very low outside temperatures. The heat pumps are particularly suitable to be combined with radiating panels heating systems or for applications where a top efficiency heating mode is needed.



Dimensioni - Dimensions		0125	0135	0250F	0250	0260	0270
L	mm	1198	1198	1198	1198	1198	1198
P	mm	1198	1198	1198	1198	1198	1198
H	mm	1673	1673	1745	1745	1745	1745
H (SSL)	mm	1906	1906	1906	1906	1906	1906
Peso versione standard Standard version weight	kg	355	382	428	428	454	465

Dimensioni - Dimensions		0125	0235	0250
L	mm	1198	1198	1198
P	mm	1198	1198	1198
H	mm	1673	1673	1745
H (SSL)	mm	1906	1906	1906
Peso versione LT LT version weight	kg	371	440	448

VERSIONS

i-HP
reversible inverter heat pump

i-HP LT
reversible inverter heat pump with steam injection

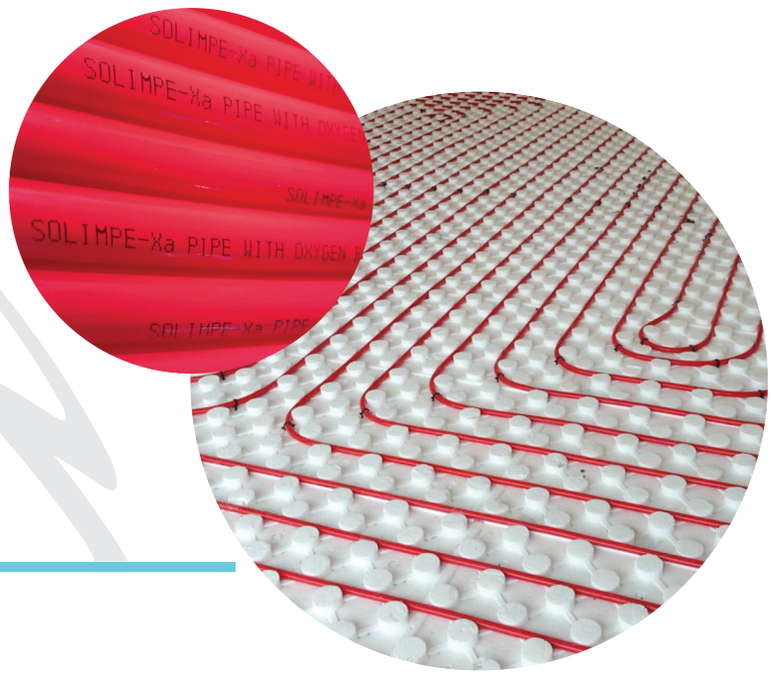
TECHNICAL SPECIFICATIONS

								i-HP LT Con iniezione di vapore		
i-HP		0125	0135	0250F	0250	0260	0270	0125	0235	0250
Cooling capacity	kW	30,65 (33,5*)	36,37 (39,3*)	49,32 (51,8*)	49,32 (51,8*)	57,14 (60,6*)	70,76 (72,2*)	30,67	36,37	47,56
Power input	kW	6,62	8,91	12,06	12,06	17,07	18,62	7,34	8,91	12,52
E.E.R.	W/W	4,63	4,08	4,09	4,09	4,06	3,80	4,18	4,08	3,83
Cooling capacity	kW	21,15 (23,1*)	27,04 (29,1*)	36,36 (38,3*)	36,36 (38,3*)	42,97 (45,6*)	53,40 (55,0*)	22,50	26,90	37,6
Power input	kW	6,35	8,96	12,45	12,45	13,75	17,25	7,26	9,1	12,83
E.E.R.	W/W	3,33	3,02	2,92	2,92	3,12	3,10	3,10	2,96	2,93
SEER	W/W	3,98	4,00	3,95	4,03	4,16	4,05	3,93	4,04	3,91
ESEER	W/W	5,34	5,32	4,98	5,04	6,07	5,37	5,28	5,47	5,30
Heating capacity	kW	24,57 (27,1*)	32,65 (35,3*)	48,25 (51,2*)	48,25 (51,2*)	52,04 (55,1*)	65,20 (66,5*)	25,80	32,50	49,26
Power input	kW	5,47	7,89	11,42	11,42	12,64	16,1	6,17	7,98	12,93
C.O.P	W/W	4,49	4,14	4,22	4,22	4,12	4,05	4,18	4,07	3,81
Heating capacity	kW	22,05 (24,4*)	32,33 (35,1*)	41,07 (43,5*)	41,07 (43,5*)	49,33 (52,3*)	60,45 (62,25*)	25,65	32,50	47,29
Power input	kW	6,33	9,80	12,07	12,07	15,15	18,90	7,27	9,97	14,40
C.O.P.	W/W	3,49	3,30	3,40	3,40	3,26	3,20	3,53	3,26	3,28
SCOP	W/W	3,83	3,82	3,82	3,82	4,00	3,82	4,02	4,03	3,82
Energy efficiency			A+ A++							
Compressor type		Dc Inverter	Dc Inverter	Dc Inverter +On-Off	2 Dc Inverter	2 Dc Inverter	2 Dc Inverter	DC Inverter	2 Dc Inverter	2 Dc Inverter
Sound pressure	dB(A)	42,1	45,6	48,5	48,5	50,3	50,9	42,1	45,6	48,5
Sound pressure	dB(A)	40,3	43,8	46,5	46,5	48,5	49,1	40,3	43,8	46,5
Sound pressure	dB(A)	39,4	42,9	45,6	45,6	47,6	48,3	39,4	42,9	45,6
Outdoor temp	°C		-15/+46			-15/+46			-25/+46	

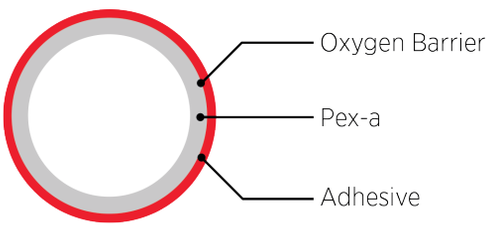
SOLİMPEX-A

Pex-a Evoh
Crosslinked polyethylene pipes Pex-a. Oxygen barrier EVOH in 3 layers.
Maximum flexibility.
Polyethylene resistant to High Temperatures. Pi pes for systems pressure 6 bar.

Quality Certified,
Europan Ouality Certification Institutions.
AENOR (Spain)
SKZ (Germany)
CSTB (France)
IIP (Italy)
GOST (Russia)



TECHNICAL SPECIFICATIONS



Pex-A Oxygen Barrier Evoh Range

Ext. diam.	Wall Thickness (mm)
8 mm	1,1
10 mm	1,2
12 mm	1,1-2,0
16 mm	1,8-2,0
17 mm	2,0
18 mm	2,0
20 mm	1,9-2,0
25 mm	2,3

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