



TERMICOL

Solar Thermal Manufacturers

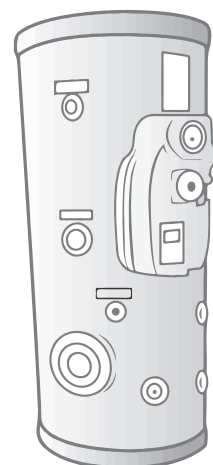
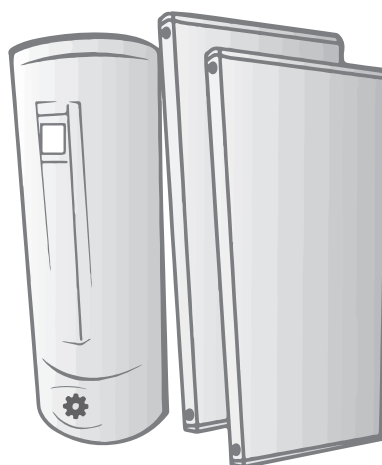
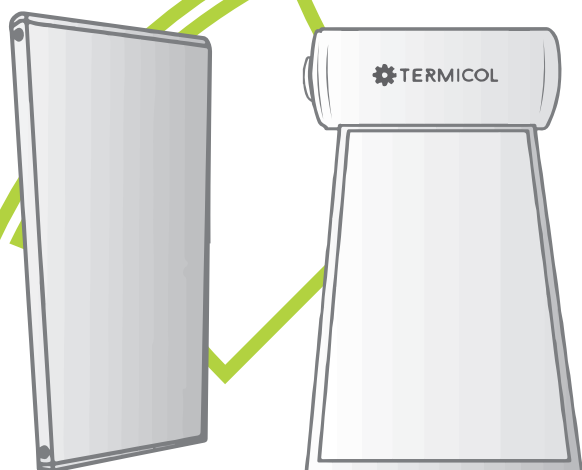
Catalogue



 **2020**

JANUARY

(prices included)



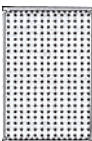
New productive process

New range of collectors and solar kits

TERMICOL

Solar Thermal Manufacturers



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PRESENTATION

After almost twenty years as specialists in solar thermal collectors manufacturing, present in more than 30 countries, we launch our new catalogue of products with essential releases.

A new range of collectors and kits

- Silver, Gold and Platinum Families
- For all types of applications and climatic zones
- More efficient and competitive
- New designs
- Up to 15 years warranty for collectors
- New support structures



A new production process

- Laser welding
- Robotized
- Fully automated



Our customer service

- Technical advice and project support
- Rapid delivery in main products
- After-sales service

Solar thermal energy advantages

- The lowest energy consumption
- The lowest possible emissions
- Never-ending source of energy
- Easy and quick installation
- Maximum durability and minimum maintenance



Termicol solar collectors: COMPONENTS

Absorber:

Harp-Type absorber:

- Silver, Gold & Platinum Family Collectors
- Reduced loss of dynamic load
- Optimal for Thermosyphon

Common characteristics:

- 01 18 mm copper tubes
- 02 8 mm copper tubes
- 03 Ultra selective 0,4 mm aluminium full sheet
- 04 Laser welding

Meander-Type absorber:

- Gold-M Family Collectors
- Suitable for low flow installations
- Optimal for drain back



Frames:

Box-type

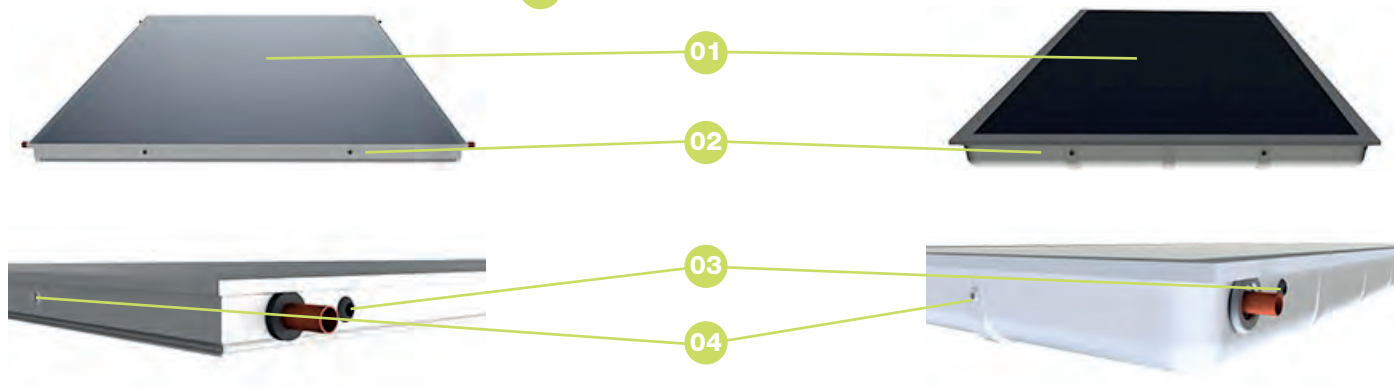
- Silver Family Collectors
- Gold and Gold Meander
- Aluminum profiles
- Embossed aluminum background
- Heat-sealed in structural silicone without springs

In all our collectors

- 01 Tempered solar glass 3.2 mm with maximum transmissibility
- 02 Aluminum frame
- 03 Waterproof aerator
- 04 Hidden fasteners

Monobloc

- Platinum Family Collectors
- Inlaid aluminum monopod case
- Closing with reeds
- Minimizes energy losses



- Glass wool insulation
- Connection fittings (optional)

Collectors: SILVER Family



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ENERGÍAS RENOVABLES

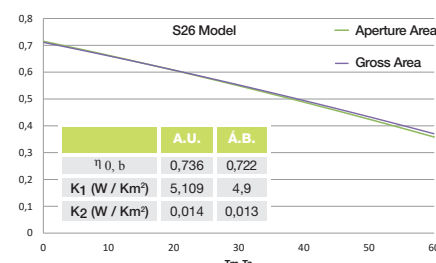
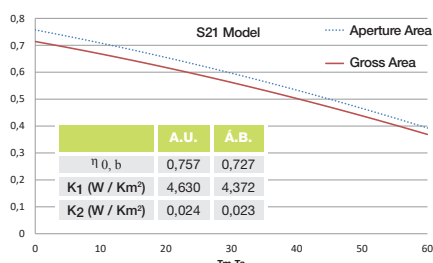
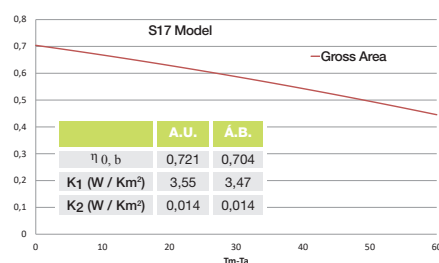
Characteristics:

- Harp-type absorber
- Ultra-thin frame
- Very low weight



Technical Data

	Verticals			Horizontals	
Models	S17	S21	S26	S21H	S26H
Length (mm)	2.039	2.039	2.039	1.239	1.239
Width (mm)	839	1.039	1.239	2.039	2.039
Thickness (mm)	49	49	49	49	49
Gross area (m ²)	1,71	2,15	2,55	2,15	2,55
Aperture area (m ²)	1,67	2,03	2,44	2,03	2,44
Empty weight (kg)	23	29	34	29	34
Capacity (L)	0,9	1,1	1,4	1,5	1,7
Peak power (Wp)		1504	1787	1504	1787
Frame	Aluminum				
Cover material	Tempered solar glass 3,2 mm				
Insulation	15 mm glass wool high density				



Models and Prices

Model	Description	Configuration	Reference	RP €
S17	Ultrasensitive collector	Vertical	311AS17V	397
S21			311AS21V	430
S26			311AS26V	503
S21H		Horizontal	311AS21H	485
S26H			311AS26H	540

Collectors: GOLD MEANDER Family



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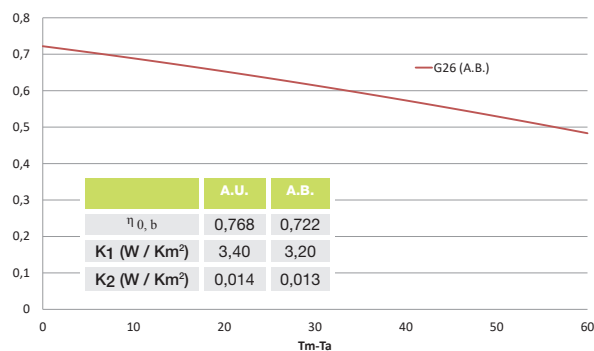
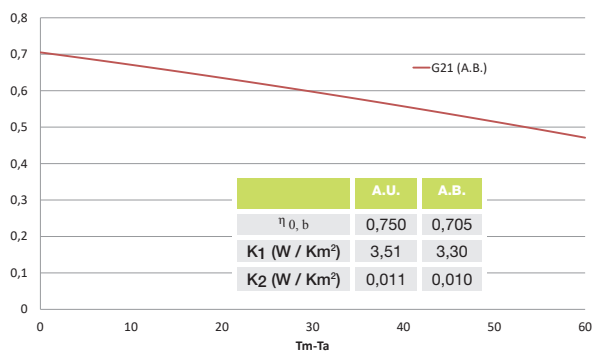
Characteristics:

- Meander type absorber
- 40 mm insulation
- Aluminum case housing



Technical Data

Models	Verticals		Horizontals	
	G21	G26	G21H	G26H
Length (mm)	2.039	2.039	1.039	1.239
Width (mm)	1.039	1.239	2.039	2.039
Thickness (mm)	81	81	81	81
Gross area (m ²)	2,15	2,54	2,15	2,54
Aperture area (m ²)	2,02	2,44	2,02	2,44
Empty weight (kg)	30	35	30	36
Capacity (litros)	1,15	1,38	1,52	1,66
Frame	Aluminum			
Cover material	Tempered solar glass 3,2 mm			
Insulation	40 mm Glass wool			



Models and Prices

Model	Description	Configuration	Reference	RP €
G21	Ultrasselective collector	Vertical	311AG21V	489
G26			311AG26V	550
G21H		Horizontal	311AG21H	550
G26H			311AG26H	612

Collectors: GOLD Family



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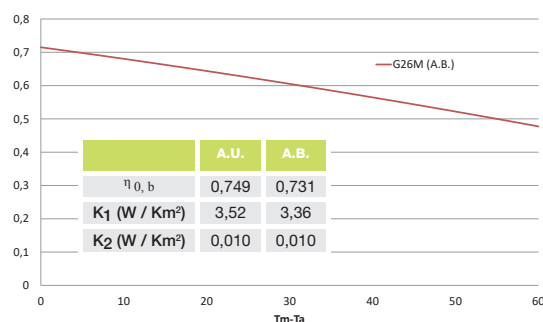
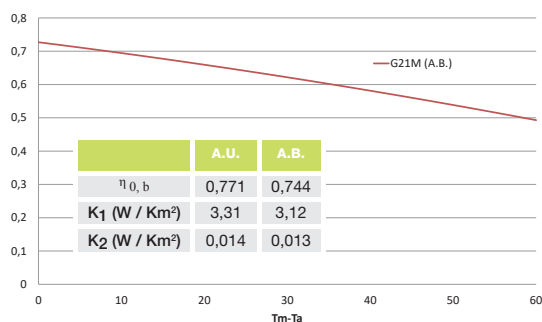
Characteristics:

- Harp-type absorber
- 40 mm insulation
- Aluminum case housing
- A perfect fit for low flow kits and Drainbacks



Technical Data

Models	G21M	G26M
Length (mm)	2.039	2.039
Width (mm)	1.039	1.239
Thickness (mm)	81	81
Gross area (m ²)	2,15	2,56
Aperture area (m ²)	2,02	2,44
Empty weight (kg)	30	36
Capacity (litros)	1,34	1,58
Peak power (Wp)	1.560	1.828
Frame	Aluminum	
Cover material	Tempered solar glass 3,2 mm	
Insulation	40 mm Glass wool	



Models and Prices

Model	Description	Configuration	Reference	RP €
G21M	Ultrasensitive collector	Vertical	311AG21VM	590
G26M			311AG26VM	645

Collectors: PLATINUM Family



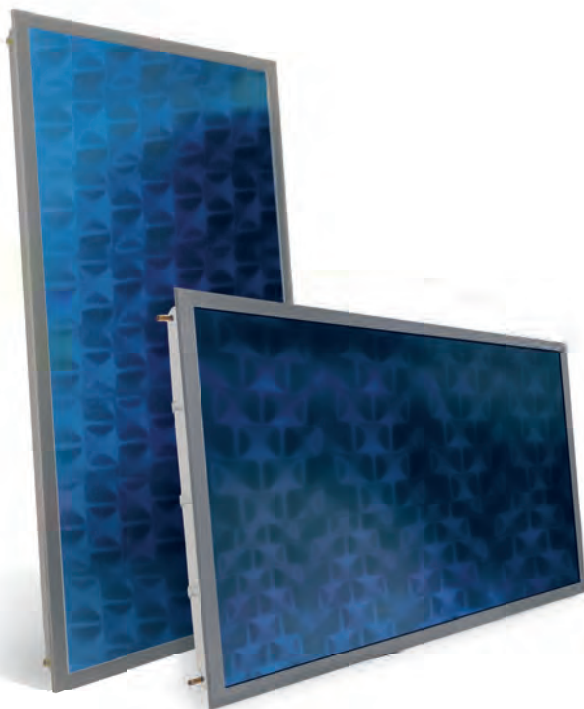
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Characteristics:

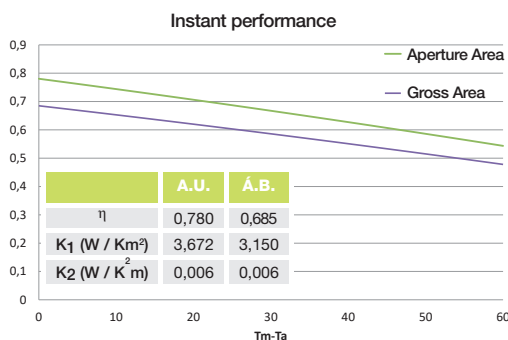
New

- Harp-type absorber
- Aluminum monobloc casing
- Closing with springs
- 50mm Insulation
- Maximum performance



Technical Data

	Verticals	Horizontals
Models	P21	P21H
Length (mm)	2100	1095
Width (mm)	1095	2100
Thickness (mm)	100	100
Gross area (m ²)	2,29	2,29
Aperture area (m ²)	2,01	2,01
Empty weight (kg)	38	38
Capacity (liters)	1,2	1,5
Peak power (Wp)	1569	1569
Frame	Aluminum	
Cover material	Tempered solar glass 3,2 mm	
Insulation	50 mm glass wool	



Models and Prices

Model	Description	Configuration	Reference	RP €
P21	Ultrasselective collector	Vertical	311AP21V	583
P21H		Horizontal	311AP21H	637

CONNECTION Fittings

Connection fittings

- Connection fittings for collectors

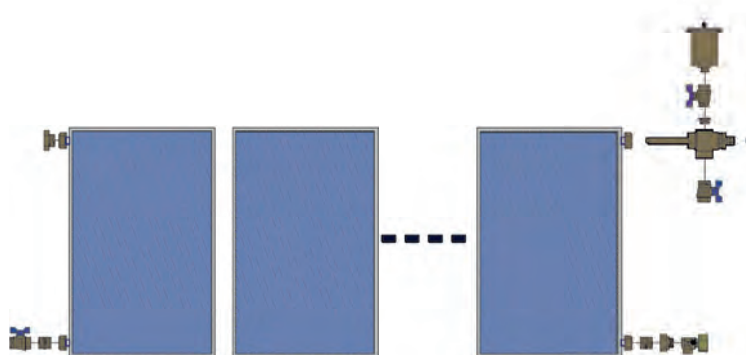
Number of fittings per array						
Number of Collectors	2	3	4	5	6	n
Required Fittings	2	4	6	8	10	2n-2



Model	Description	Reference	RP €
Connector	Connection fittings for collectors	709TC1818	5,5

Collector array connection (Batcapt)

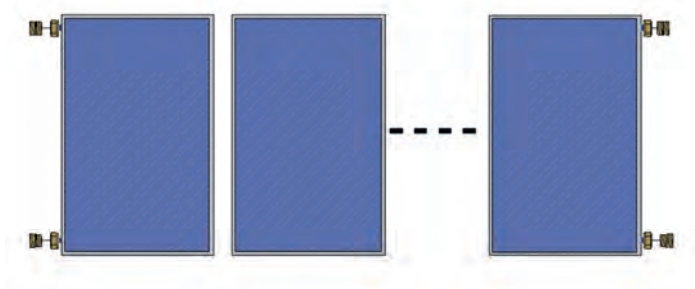
- Connection components required for the installation of collector array
- Contains the purge, safety and closure systems necessary for proper assembly of the installation



Model	Description	Reference	RP €
Batcapt	Collector array connection	215BATCAP0	125

Adaptation fittings (Racorbat)

- Fittings for adaptation to the hydraulic circuit



Model	Description	Reference	RP €
Racorbat	Adaptation fittings	215RACBAT0	26

Collectors: FIXING accessories

Perforated band

- Galvanized steel
- Simple installation
- Avoids slides
- Adaptable to all roof tiles types



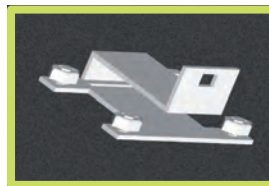
Adjustable anchorage

- Galvanized steel
- Versatile fixtures
- Adaptable to all roof tiles types



Roof hook

- Galvanized steel
- Versatile fixtures
- Robust
- Avoids drilling the roof tile



Collectors: TERMICOL Advantages

Resistance and durability

- Rigid, robust and shock resistant
- Highly resistant tempered solar glass
- Full sheet harp-type or meander laser absorber
- Frame sealed in structural silicone
- Retractable packaging with reinforced corners
- Lateral air ducts against condensation

Versatility and aesthetics

- Harp-type or meander absorber
- Aluminum frame or inlaid monobloc casing
- In two sizes of vertical position as well as in horizontal
- A more aesthetic exterior finish in 100% aluminum

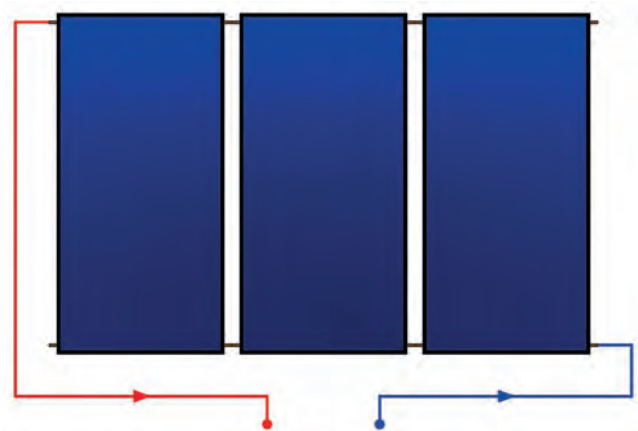
Easy installation

- Compression fittings with brass rings (optional)
- Lateral frame channels that facilitates its integration
- New supports

Collectors: ARRAY configurations

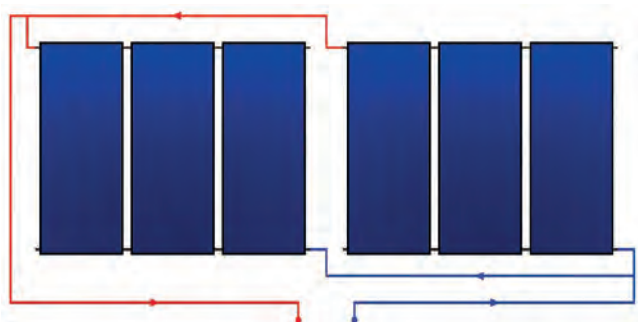
Collectors can be connected in different ways. This makes it possible to achieve different thermal behaviour to suit the application for which energy is being supplied.

Array or Row



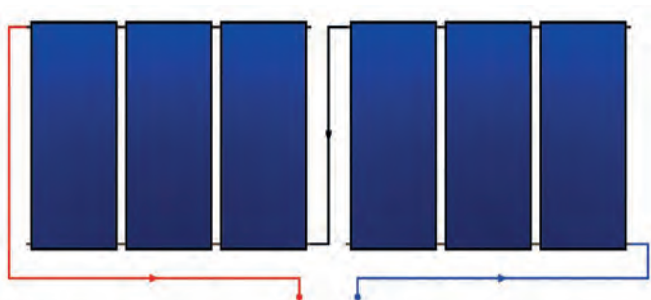
A connection system that reduces the amount of pipework that feeds each area of the collection field. It is limited to a maximum number of elements to prevent loss of performance in the final collectors and pressure due to expansion in their collecting pipes.

Parallel



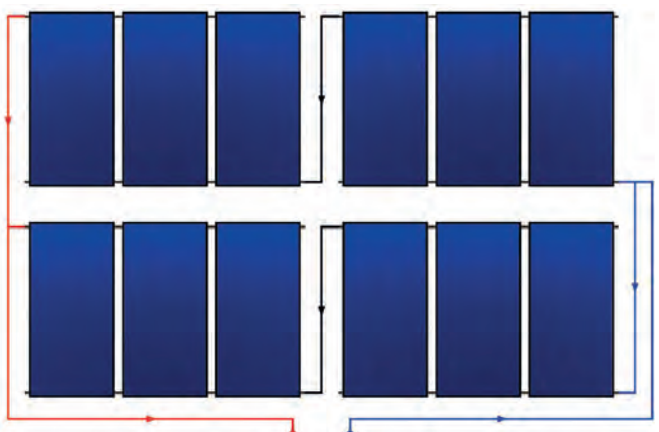
A connection system that reduces the amount of pipework that feeds each area of the collection field. It is limited to a maximum number of elements to prevent loss of performance in the final collectors and pressure due to expansion in their collecting pipes.

Series



When a collector or collector array is connected in series to another collector or collector array, a higher outlet temperature is produced, thereby reducing total flow rates. Not all the collectors however work with the same performance.

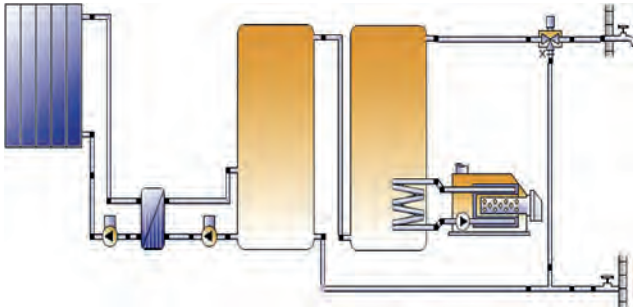
Series - Parallel



Mixed connection is suitable for large installations, enabling a reduction in total flow rate while partially making performance uniform in different areas of the installation.

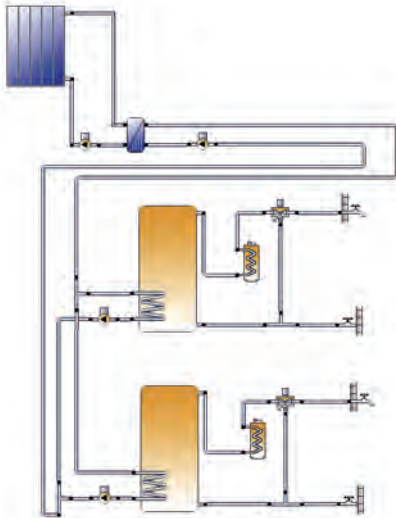
Configurations: SOLAR SYSTEMS

Centralized storage system



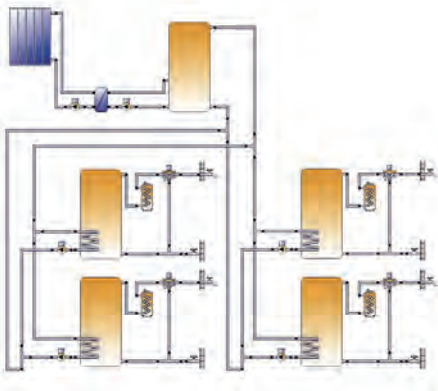
A suitable system for collective consumption of hot water in hotels, hospitals, sports centres, etc. The centralization of production improves system efficiency and reduces overall energy consumption.

Distributed storage system



A recommended system for residential buildings with its main advantage lying in the individualization of storage, keeping the solar generation system centralized. To control individual consumption, it is necessary to install an energy meter at the entrance of each dwelling. There are two types: with external heat exchanger to separate the heating circuit from the distribution circuit and without heat exchanger, which is only recommended in small buildings.

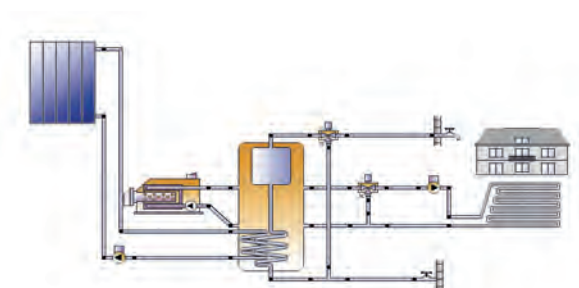
Distributed storage and intermediate buffer storage tank system



Installation recommended for residential buildings in which space is scarce in dwellings. The installation of a buffer storage tank partially centralizes storage, enabling the size of the individual tank to be reduced.

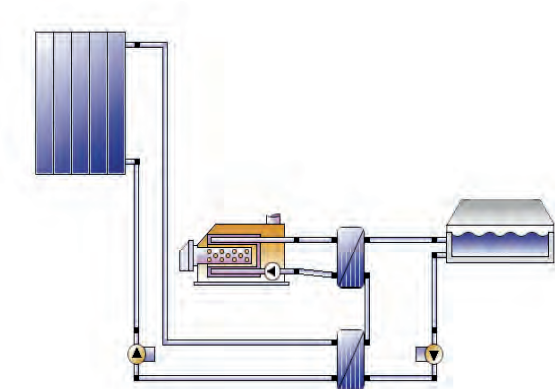
Configurations: SOLAR SYSTEMS

A centralized system for combined DHW and radiators



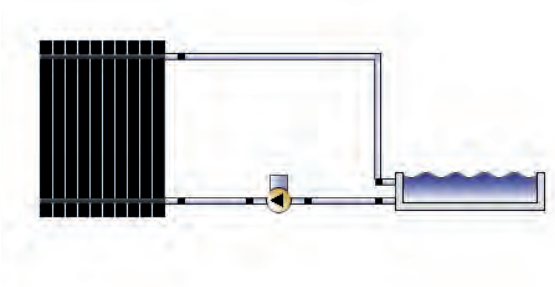
Solar thermal systems with collectors are suitable for providing low temperature heating. The use of a combined storage tank can produce DHW and heat simultaneously, thereby saving on space and reducing the investment.

A solar thermal system for indoor swimming pools



The low thermal temperature required by indoor swimming pools makes solar thermal systems with glazed collectors suitable for heating swimming pools. When required to be used throughout the year, the yields obtained are very high as collection is carried out at low average temperatures.

A solar thermal system for outdoor swimming pools



This system enables the swimming season to be extended by two or three months either side of summer. Unglazed plastic collectors are suitable for this type of pool, enabling spring and autumn temperatures to approach those of the summer months.

Support structures: GALVANIZED STEEL

Flat Roof

- Hot- dip galvanized steel
- Durable and economical
- Identified bars for a rapid easy installation



Families Silver, Gold and Gold Meander

Position	Collector	Units	Reference	RP €
VERTICAL	S21 G21 G21M	1	451V11	157
		2	451V12	180
		3	451V13	280
		4	451V14	368
		5	451V15	455
		6	451V16	521
HORIZONTAL	S21H G21H	1	451H11	127
		2	451H12	226
		3	451H13	325
VERTICAL	S26 G26 G26M	1	451V21	157
		2	451V22	189
		3	451V23	289
		4	451V24	381
		5	451V25	460
		6	451V26	543
HORIZONTAL	S26H G26H	1	451H21	132
		2	451H22	230
		3	451H23	334



Connection between modular arrays

Family Platinum

Position	Collector	Units	Reference	RP €
VERTICAL	P21	1	451VP1	169
		2	451VP2	204
		3	451VP3	316
		4	451VP4	416
		5	451VP5	515
		6	451VP6	593
HORIZONTAL	P21H	1	451HP1	139
		2	451HP2	250
		3	451HP3	361



Steel L profiles

Support structures: GALVANIZED STEEL

Sloped Roof

- Hot- dip galvanized steel
- Durable and economical
- Clamping profiles with different roof grip options



Families Silver, Gold and Gold Meander

Position	Collector	Units	Reference	RP €
VERTICAL	S21 G21 G21M	1	452V11	136
		2	452V12	153
		3	452V13	214
		4	452V14	307
		5	452V15	368
		6	452V16	429
HORIZONTAL	S21H G21H	1	452H11	111
		2	452H12	193
		3	452H13	275
VERTICAL	S26 G26 G26M	1	452V21	136
		2	452V22	157
		3	452V23	219
		4	452V24	320
		5	452V25	381
		6	452V26	442
HORIZONTAL	S26H G26H	1	452H21	114
		2	452H22	197
		3	452H23	285

Family Platinum

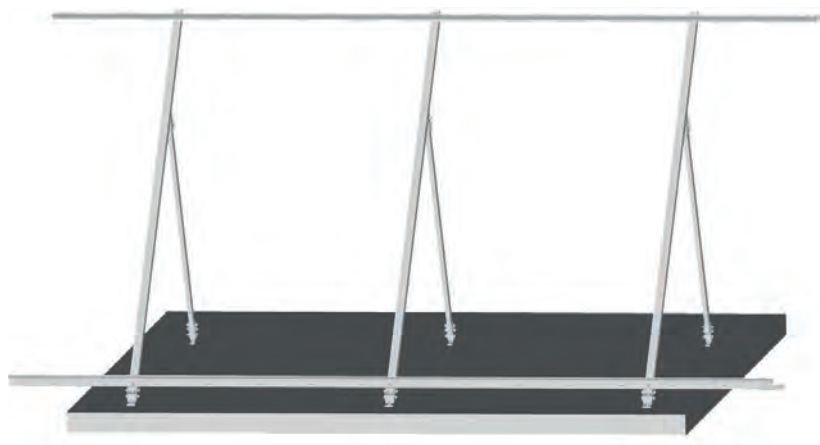
Position	Collector	Units	Reference	RP €
VERTICAL	P21	1	452VP1	148
		2	452VP2	177
		3	452VP3	250
		4	452VP4	355
		5	452VP5	428
		6	452VP6	501
HORIZONTAL	P21H	1	452HP1	123
		2	452HP2	217
		3	452HP3	311

Note: All galvanized support for tiled roof will be supplied with the perforated tape.

Support structures: ALUMINUM

Flat Roof

- Extruded aluminum highly resistant to corrosion
- Suitable for areas with marine environments
- Preassembled clamping profiles adaptable to different angles
- Strong and lightweight
- Easy installation



Families Silver, Gold and Gold Meander

Position	Collector	Units	Reference	RP €
VERTICAL	S21 G21 G21M	1	461V11	234
		2	461V12	273
		3	461V13	407
		4	461V14	540
		5	461V15	680
		6	461V16	808
HORIZONTAL	S21H G21H	1	461H11	227
		2	461H12	381
		3	461H13	540
VERTICAL	S26 G26 G26M	1	461V21	234
		2	461V22	284
		3	461V23	423
		4	461V24	568
		5	461V25	707
		6	461V26	847
HORIZONTAL	S26H G26H	1	461H21	233
		2	461H22	392
		3	461H23	557



Connection of profiles



Front support

Family Platinum

Position	Collector	Units	Reference	RP €
VERTICAL	P21	1	461VP1	266
		2	461VP2	317
		3	461VP3	463
		4	461VP4	608
		5	461VP5	760
		6	461VP6	900
HORIZONTAL	P21H	1	461HP1	285
		2	461HP2	456
		3	461HP3	633

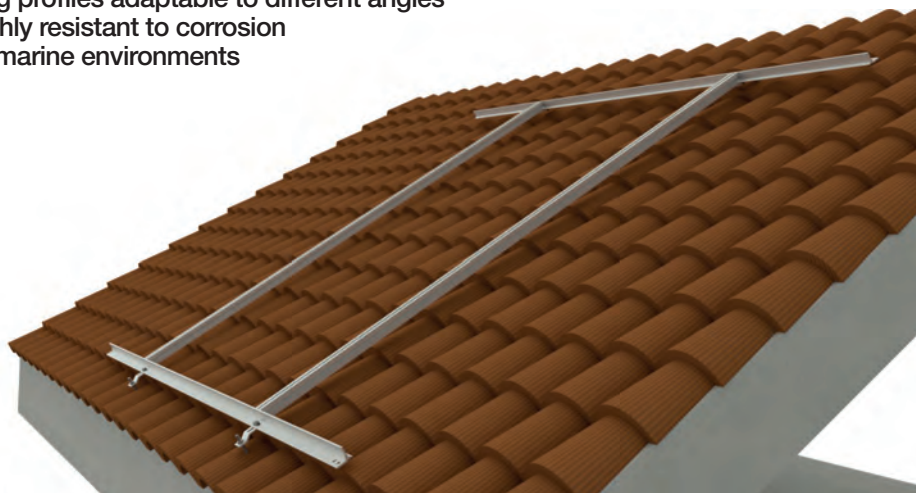


Connection between modular arrays

Support structures: ALUMINUM

Sloped Roof

- Preassembled clamping profiles adaptable to different angles
- Extruded aluminum highly resistant to corrosion
- Suitable for areas with marine environments
- Strong and lightweight
- Easy installation



Families Silver, Gold and Gold Meander

Position	Collector	Units	Without Anchor		Adjustable Anchor		Roof Hook	
			Reference	RP €	Reference	RP €	Reference	RP €
VERTICAL	S21 G21 G21M	1	462NV11	134	462OV11	209	462SV11	281
		2	462NV12	167	462OV12	250	462SV12	316
		3	462NV13	242	462OV13	356	462SV13	456
		4	462NV14	331	462OV14	496	462SV14	627
		5	462NV15	406	462OV15	596	462SV15	767
		6	462NV16	459	462OV16	673	462SV16	877
HORIZONTAL	S21H G21H	1	462NH11	138	462OH11	214	462SH11	287
		2	462NH12	241	462OH12	368	462SH12	524
		3	462NH13	361	462OH13	519	462SH13	679
VERTICAL	S26 G26 G26M	1	462NV21	134	462OV21	209	462SV21	281
		2	462NV22	184	462OV22	265	462SV22	333
		3	462NV23	267	462OV23	382	462SV23	492
		4	462NV24	363	462OV24	526	462SV24	663
		5	462NV25	454	462OV25	637	462SV25	828
		6	462NV26	504	462OV26	717	462SV26	952
HORIZONTAL	S26H G26H	1	462NH21	143	462OH21	223	462SH21	287
		2	462NH22	251	462OH22	371	462SH22	524
		3	462NH23	361	462OH23	523	462SH23	679

Family Platinum

Position	Collector	Units	Reference	RP €	Reference	RP €	Reference	RP €
VERTICAL	P21	1	462NVP1	173	462OVP1	245	462SVP1	307
		2	462NVP2	229	462OVP2	296	462SVP2	361
		3	462NVP3	339	462OVP3	439	462SVP3	528
		4	462NVP4	464	462OVP4	604	462SVP4	726
		5	462NVP5	579	462OVP5	746	462SVP5	899
		6	462NVP6	694	462OVP6	872	462SVP6	1.067
HORIZONTAL	P21H	1	462NHP1	168	462OHP1	240	462SHP1	301
		2	462NHP2	300	462OHP2	411	462SHP2	623
		3	462NHP3	437	462OHP3	587	462SHP3	726

Thermosyphon Systems: A SILVER Family



CENER
ADItch

CENTRO NACIONAL DE
ENERGÍAS RENOVABLES



Characteristics

- Silver collectors
- High tank
- Suitable for areas of high radiation
- Optimum performance-price ratio
- 5 Years warranty*

Components

- 1 or 2 Collectors
- 1 Storage tank
- 1 High tank support
- 1 Accessories set
- 1 Set of connection branches



150 liters unit (1/2 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
S150AX	S17 x1	1,67	1,71	511A1501S17	1.220
S150A	S21 x1	2,03	2,14	511A1501S21	1.252

200 liters units (3/4 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
S200AX	S21 x1	2,03	2,14	511A2001S21	1.377
S200A	S26 x1	2,44	2,55	511A2001S26	1.486

300 liters unit (5/6 users)

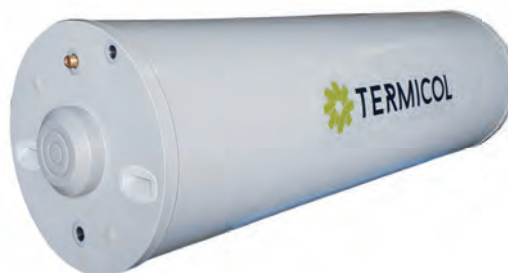
Model	Collector	Net Area	Gross Area	Reference	RP €
S300AX	S17 x2	3,34	3,42	511A3002S17	1.908
S300A	S21 x2	4,06	4,28	511A3002S21	1.969

Thermosyphon Systems: A SILVER Family



Tanks

- Double-jacket
- Double enameled
- Side handles
- 50 mm. of injected rigid polyurethane insulation
- Complete exterior in lacquered steel (body and side covers)
- All lateral connections
- Fast assembly and easy maintenance of electric kit
- Easy and fast maintenance of the magnesium anode



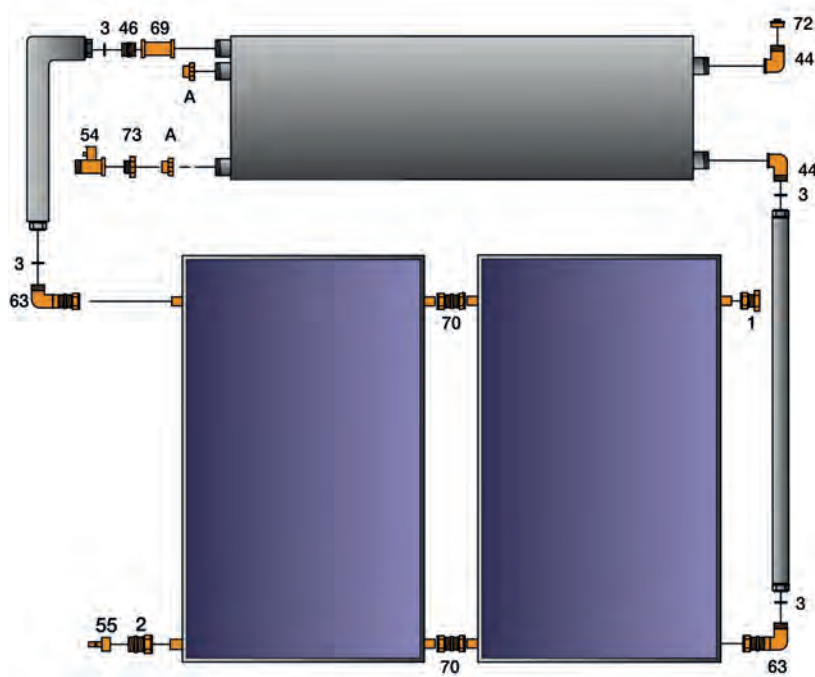
Supports

- Galvanized steel
- CE certified ¹
- Suitable for flat or sloped roofs



Connection scheme ²

- Few connecting elements
- Easy and fast installation



Ref.	Description	Units
1	Compression cap plug 18	1
2	Compression fitting 18 - 1/2"	1
3	Card board joint	4
44	Elbow 3/4" M-F	3
46	Plat nipple 3/4"	1
54	Safety and now-return kit 1/2"	1
55	Safety valve 2.5 bar 1/2"	1
63	Flat compression elbow 18 - 3/4"	2
69	Sleeve 3/4"	1
70	Compression fitting 18 mm	2
72	Plug 3/4"	1
73	Reducer 3/4"-1/2"	1
A	Dielectric sleeve 3/4"	2

¹ To be checked

² The elements may vary due to manufacturing requirements, see technical manual

Thermosyphon Systems: B SILVER Family



CENER
ADItch

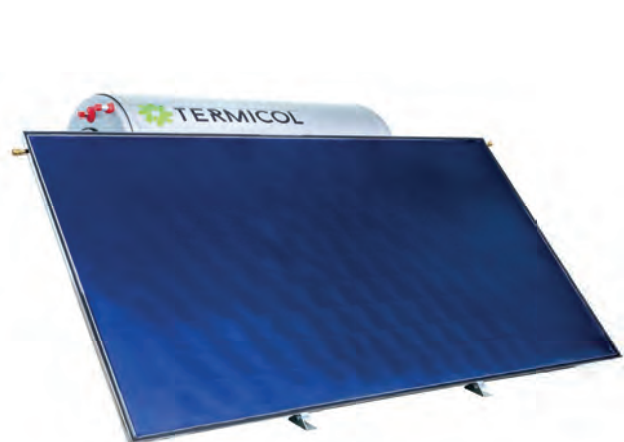
CENTRO NACIONAL DE
ENERGÍAS RENOVABLES

Characteristics

- Low tank: Better aesthetics by hiding the accumulator
- Silver collectors
- Suitable for areas of high radiation
- Optimum performance-price ratio
- 5 Years warranty*

Components

- 1 or 2 Collectors
- 1 Storage tank
- 1 Support low tank
- 1 Accessories set
- 1 Set of connection branches



150 liters unit (1/2 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
S150BX	S17 x1	1,67	1,71	511B1501S17	1.220
S150B	S21 x1	2.03	2.14	511B1501S21	1.252

200 liters units (3/4 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
S200BX	S21 x1	2,03	2,14	511B2001S21	1.377
S200B	S26 x1	2,44	2,55	511B2001S26	1.486

Position	Model	Collector	Net Area	Gross Area	Reference	RP €
HORIZONTAL	S200BH	S26H x1	2,44	2,55	511B2001S26H	1.488

300 liters unit (5/6 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
S300BX	S17 x2	3,34	3,42	511B3002S17	1.908
S300B	S21 x2	4,06	4,28	511B3002S21	1.969

Thermosyphon Systems: B SILVER Family



Tanks

- Double-jacket
- Double enameled
- Side handles
- 50 mm. of injected rigid polyurethane insulation
- Complete exterior in lacquered steel (body and side covers)
- All lateral connections
- Fast assembly and easy maintenance of electric kit
- Easy and fast maintenance of the magnesium anode



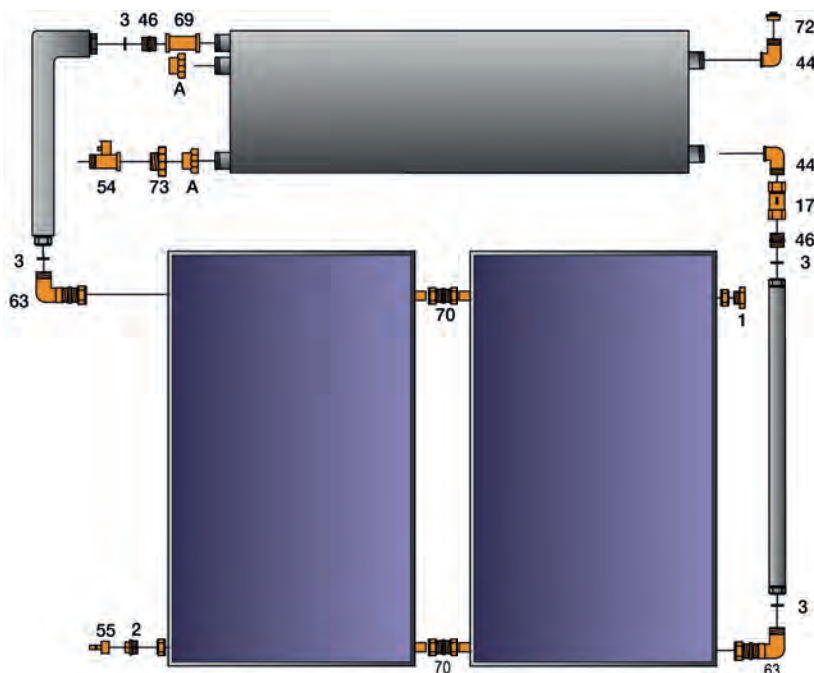
Supports

- Galvanized steel
- CE certified ¹
- Suitable for flat or sloped roofs



Connection scheme ²

- Few connecting elements
- Easy and fast installation



Ref.	Description	Units
1	Compression cap plug 18	1
2	Compression fitting 18 - 1/2"	1
3	Card board joint	4
17	Anti-thermosiphon valve	1
44	Elbow 3/4" M-F	3
46	Plat nipple 3/4"	2
54	Safety and now-return hit 1/2	1
55	Safety valve 2.5 bar 1/2"	1
63	Flat compression elbow 18 - 3/4"	2
69	Sleeve 3/4"	1
70	Compression fitting 18 mm	2
72	Plug 3/4"	1
73	Reducer 3/4"-1/2"	1
A	Dielectric sleeve	2

¹ To be checked

² The elements may vary due to manufacturing requirements, see technical manual

Thermosyphon Systems: A GOLD Family



Characteristics

- Gold collectors
- High tank
- 5 Years warranty*

Components

- 1 or 2 Collectors
- 1 Storage tank
- 1 High tank support
- 1 Accessories set
- 1 Set of connection branches



150 liters units (1/2 usuarios)

Model	Collector	Net Area	Gross Area	Reference	RP €
G150A	G21 x1	2,02 m ²	2,15 m ²	511A1501G21	1.311

200 liters units (3/4 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
G200AX	G21 x1	2,02 m ²	2,15 m ²	511A2001G21	1.436
G200A	G26 x1	2,44 m ²	2,54 m ²	511A2001G26	1.533

300 liters unit (5/6 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
G300A	G21 x2	4,04 m ²	4,30 m ²	511A3002G21	2.087

Thermosyphon Systems: A GOLD Family



Tanks

- Double-jacket
- Double enameled
- Side handles
- 50 mm. of injected rigid polyurethane insulation
- Complete exterior in lacquered steel (body and side covers)
- All lateral connections
- Fast assembly and easy maintenance of electric kit
- Easy and fast maintenance of the magnesium anode



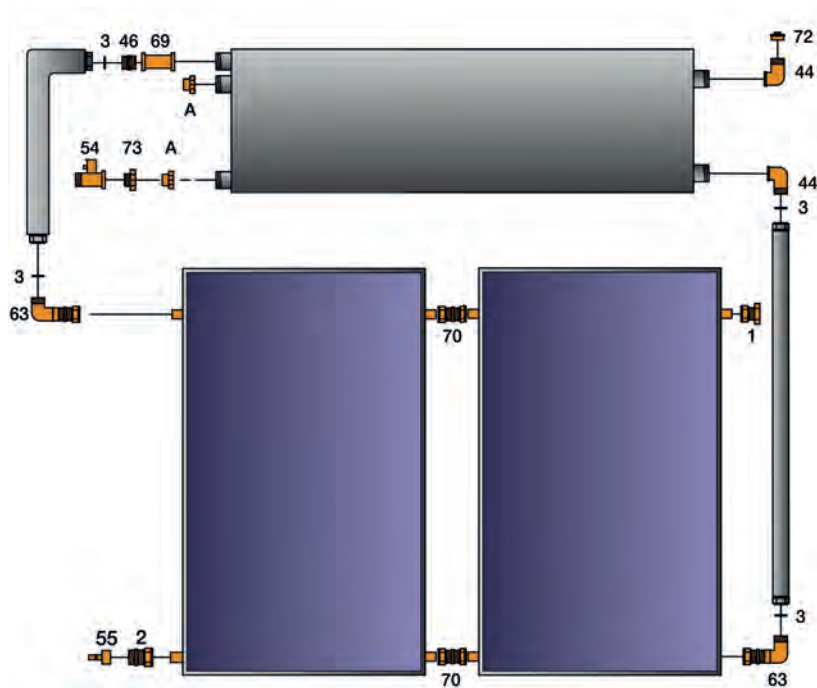
Supports

- Galvanized steel
- CE certified ¹
- Suitable for flat or sloped roofs



Connection scheme ²

- Few connecting elements
- Easy and fast installation



Ref.	Description	Units
1	Compression cap plug 18	1
2	Compression fitting 18 - 1/2"	1
3	Card board joint	4
44	Elbow 3/4" M-F	3
46	Plat nipple 3/4"	2
54	Safety and now-return hit 1/2"	1
55	Safety valve 2.5 bar 1/2"	1
63	Flat compression elbow 18 - 3/4"	2
69	Sleeve 3/4"	1
70	Compression fitting 18 mm	2
72	Plug 3/4"	1
73	Reducer 3/4"-1/2"	1
A	Dielectric sleeve	2

¹ To be checked

² The elements may vary due to manufacturing requirements, see technical manual

Thermosyphon Systems: B GOLD Family

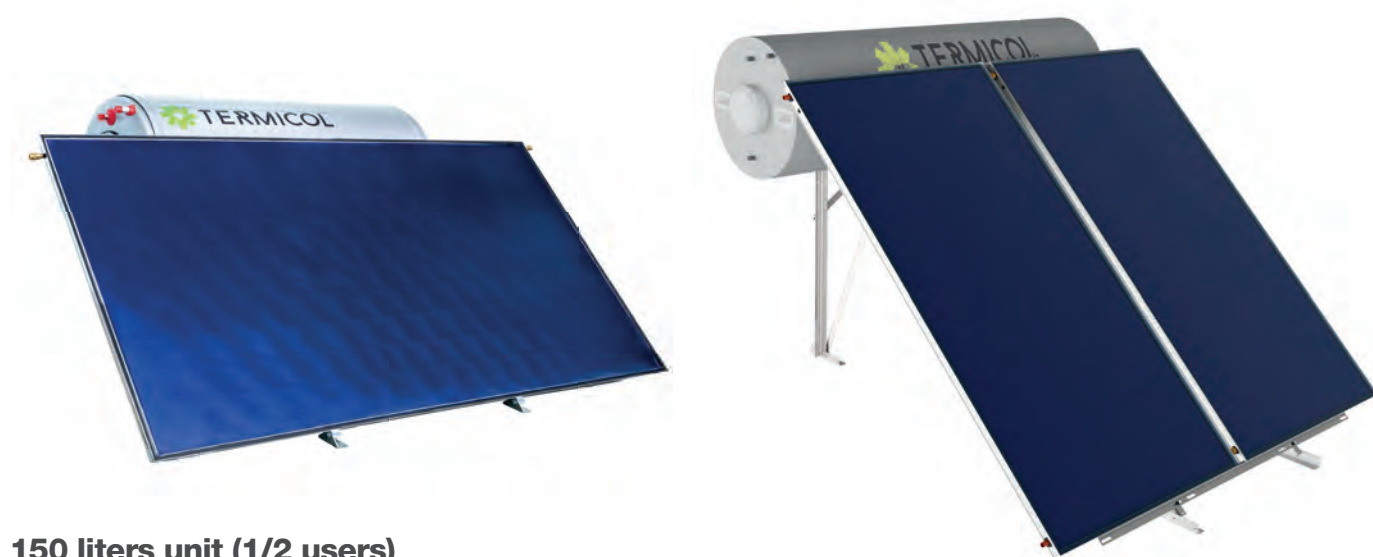


Characteristics

- Low tank: Better aesthetics by hiding the accumulator
- Gold collectors
- 5 Years warranty*

Components

- 1 or 2 Collectors
- 1 Storage tank
- 1 Support low tank
- 1 Accessories set
- 1 Set of connection branches



150 liters unit (1/2 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
G150B	G21 x1	2,02 m ²	2,15 m ²	511B1501G21	1.311

200 liters units (3/4 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
G200BX	G21 x1	2,02 m ²	2,15 m ²	511B2001G21	1.436
G200B	G26 x1	2,44 m ²	2,54 m ²	511B2001G26	1.533

Position	Model	Collector	Net Area	Gross Area	Reference	RP €
HORIZONTAL	G200BH	G26H x1	2,44 m ²	2,54 m ²	511B2001G26H	1.560

300 liters unit (5/6 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
G300B	G21 x2	4,04 m ²	4,30 m ²	511B3002G21	2.087

Thermosyphon Systems: B GOLD Family



Tanks

- Double-jacket
- Double enameled
- Side handles
- 50 mm. of injected rigid polyurethane insulation
- Complete exterior in lacquered steel (body and side covers)
- All lateral connections
- Fast assembly and easy maintenance of electric kit
- Easy and fast maintenance of the magnesium anode



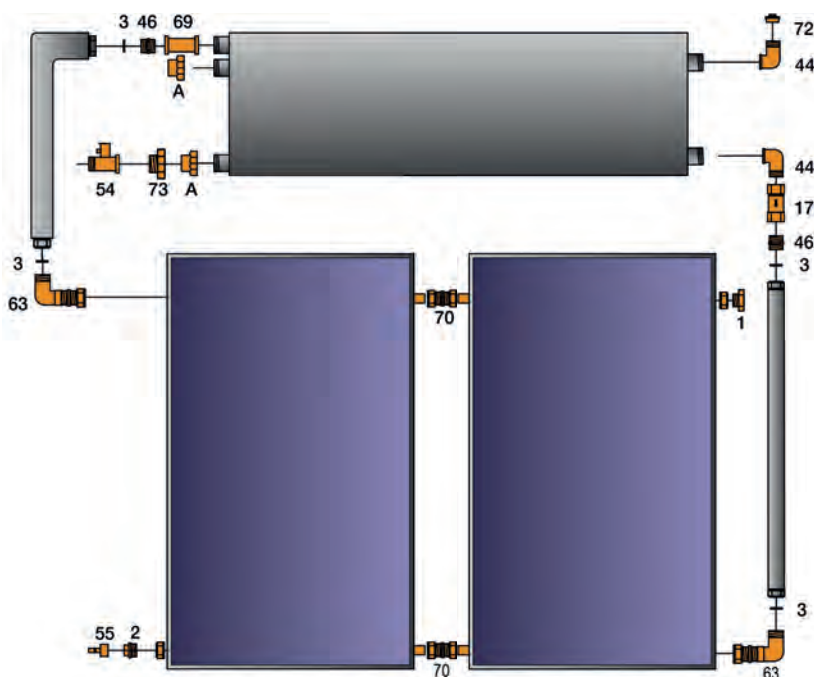
Supports

- Galvanized steel
- CE certified ¹
- Suitable for flat or sloped roofs



Connection scheme ²

- Few connecting elements
- Easy and fast installation



Ref.	Description	Units
1	Compression cap plug 18	1
2	Compression fitting 18 - 1/2"	1
3	Card board joint	4
17	Anti-thermosiphon valve	1
44	Elbow 3/4" M-F	3
46	Plat nipple 3/4"	2
54	Safety and now-return hit 1/2	1
55	Safety valve 2.5 bar 1/2"	1
63	Flat compression elbow 18 - 3/4"	2
69	Sleeve 3/4"	1
70	Compression fitting 18 mm	2
72	Plug 3/4"	1
73	Reducer 3/4" - 1/2"	1
A	Dielectric sleeve	2

¹ To be checked

² The elements may vary due to manufacturing requirements, see technical manual

Thermosyphon Systems: PLATINUM Family



CENER
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ENERGÍAS RENOVABLES

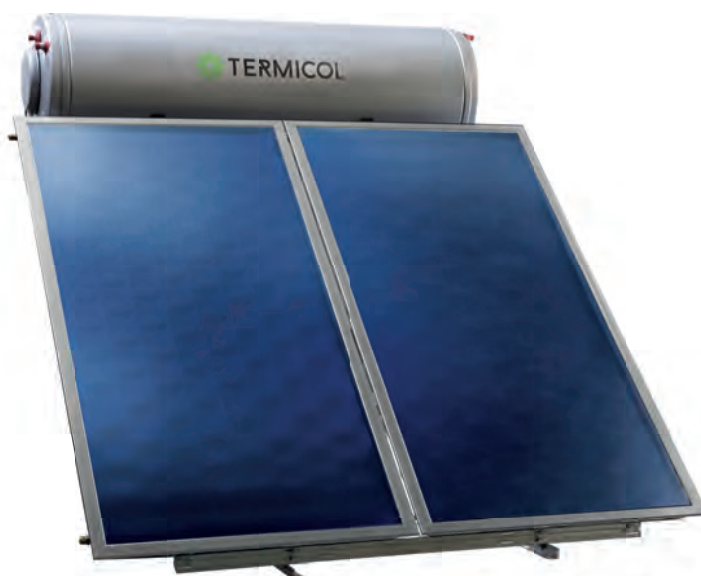
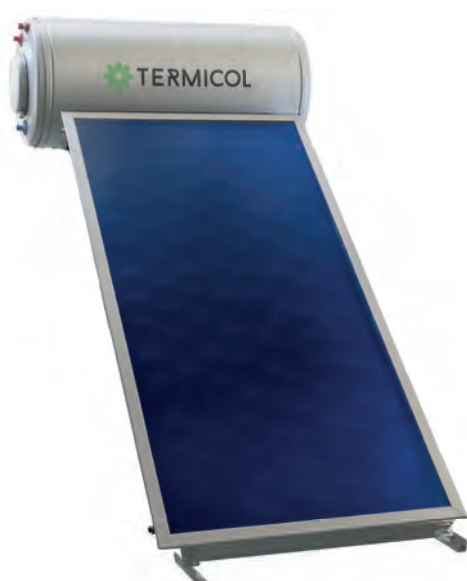


Characteristics

- Platinum collectors
- High tank
- 5 Years warranty*

Components

- 1 or 2 Collectors
- 1 Storage tank
- 1 High tank support
- 1 Accessories set
- 1 Set of connection branches



150 liters unit (1/2 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
P150A	P21	2,02	2,29	511A1501P21	1.463

200 liters unit (3/4 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
P200A	P21	2,02	2,29	511A2001P21	1.634

300 liters units (5/6 users)

Model	Collector	Net Area	Gross Area	Reference	RP €
P300AX	P21	2,02	2,29	511A3001P21	1.861
P300A	P21 x2	4,04	4,58	511A3002P21	2.305

Thermosyphon Systems: PLATINUM Family



Tanks

- Double-jacket
- Double enameled
- Side handles
- 50 mm. of injected rigid polyurethane insulation
- Complete exterior in lacquered steel (body and side covers)
- All lateral connections
- Fast assembly and easy maintenance of electric kit
- Easy and fast maintenance of the magnesium anode



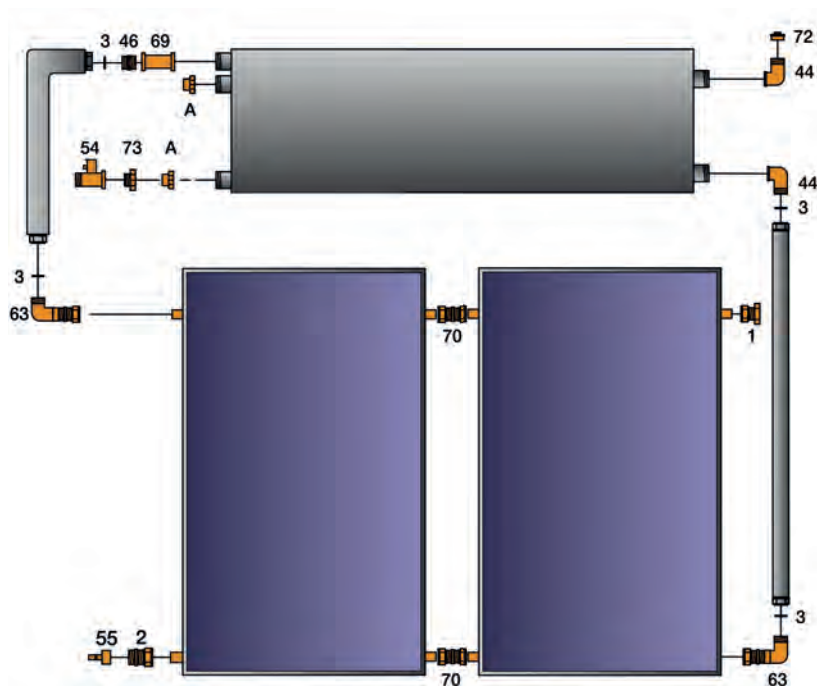
Supports

- Zinc-plated steel
- Inverted omega form profiles
- Pre-assembled
- CE certified ¹
- Suitable for flat or sloped roofs



Connection scheme ²

- Few connecting elements
- Easy and fast installation



Ref.	Description	Units
1	Compression cap plug 18	1
2	Flat nipples 18 - 1/2"	1
3	Card board joint	4
73	Reducer 3/4"-1/2"	1
44	Elbow 3/4" M-H	3
46	Plat nipple 3/4"	1
54	Safety set and now-return 1/2"	1
55	Safety valve 2.5 bar 1/2"	1
63	Flat compression elbow 18 - 3/4"	2
69	Sleeve 3/4"	1
70	Compression nipple 18 mm	2
72	Plug 3/4"	1
A	Dielectric sleeve 3/4"	2

¹ To be checked

² The elements may vary due to manufacturing requirements, see technical manual

Thermosyphon Systems: ACCESSORIES

Double-jacket enameled horizontal storage tanks



Modelo	Capacity (liters)	Exterior protection	Reference	RP €
ATN150I	150	Galvanized and lacquered steel	601K0150	826
ATN200I	200		601K0200	957
ATN300I	300		601K0300	1.148

Thermostatic mixer valve

According to	UNI EN 1111
Temperature range	30-55°C
Max. operating pressure	10 bar
Max. inlet temperature	100 °C
Flow at 3 bar	38 l/min
Minimum flow	10 l/min



Description	Ref.	RP €
Body 1"	708TMZ100CT	70
Body 1" with non-return fittings 3/4"	708TMZ034CAT	81

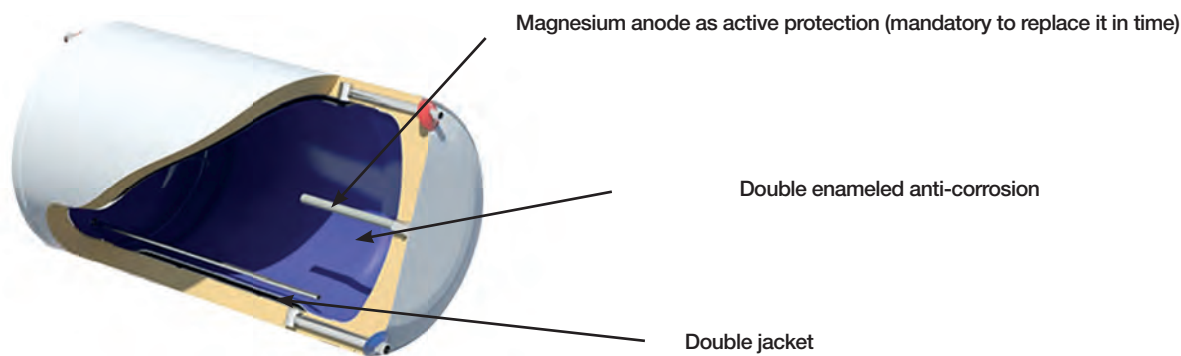
Other accessories

Description	Ref.	RP €
Controller 1 probe	703C6CTC01	180
Single phasic 2 kW electrical kit	711KT2000M	50
Single phasic 3 kW electrical kit	711KT3000M	55
Magnesium anode 1 1/4" D33-220mm 150/200 Liters	714KAM114L22	20
Magnesium anode 1 1/4" D33-310mm 300 Liters	714KAM114L31	25
2 L Antifreeze concentrate	707CGF0002	16
5 L Antifreeze concentrate	707CGF0005	39
10 L Antifreeze concentrate	707CGF0010	77

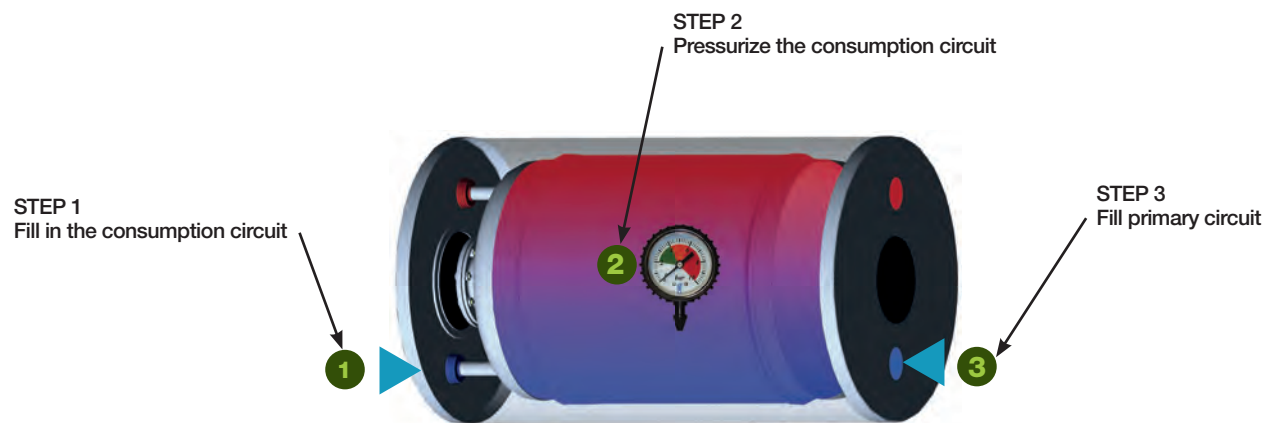


Thermosyphon Systems: MAINTENANCE

Internal protection



Start up



Maintenance

Periodic checks and planned maintenance must be performed on the installed equipment to ensure service life

Glasses	Every 6 months	Visual inspection condensation and dirt
Joints	Every 6 months	Visual inspection cracks, deformation
Fittings	Every 6 months	Visual inspection leaks appearance
Structure	Every 6 months	Visual inspection degradation, signs of corrosion and tightening of screws
Tank	Every 6 months	Visual inspection presence of sludge inside
Anode	Every 6 months	Visual inspection wearing check

Forced Systems / Drainback

New

Characteristics

- Suitable for both forced and Drainback systems
- Systems large surface coil or double coil
- Floor or wall mounting

Components

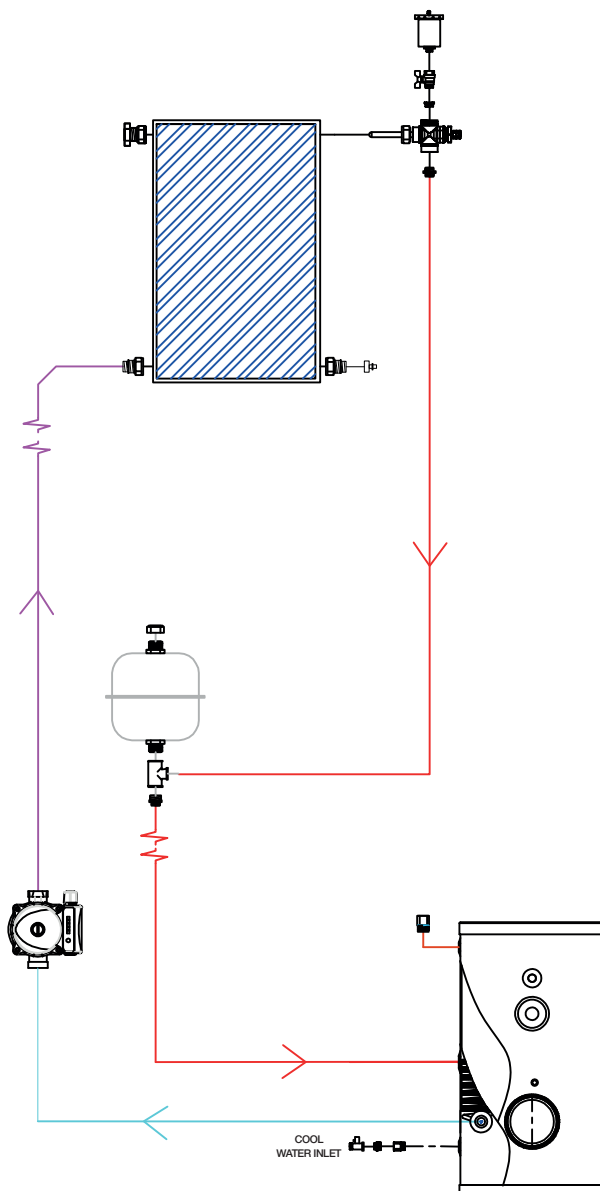
- TERMICOL solar collectors
- Support frame in steel or aluminum
- Storage tank
- Valves and connection accessories
- Pumping and regulation system

Hydraulic circuit Characteristics

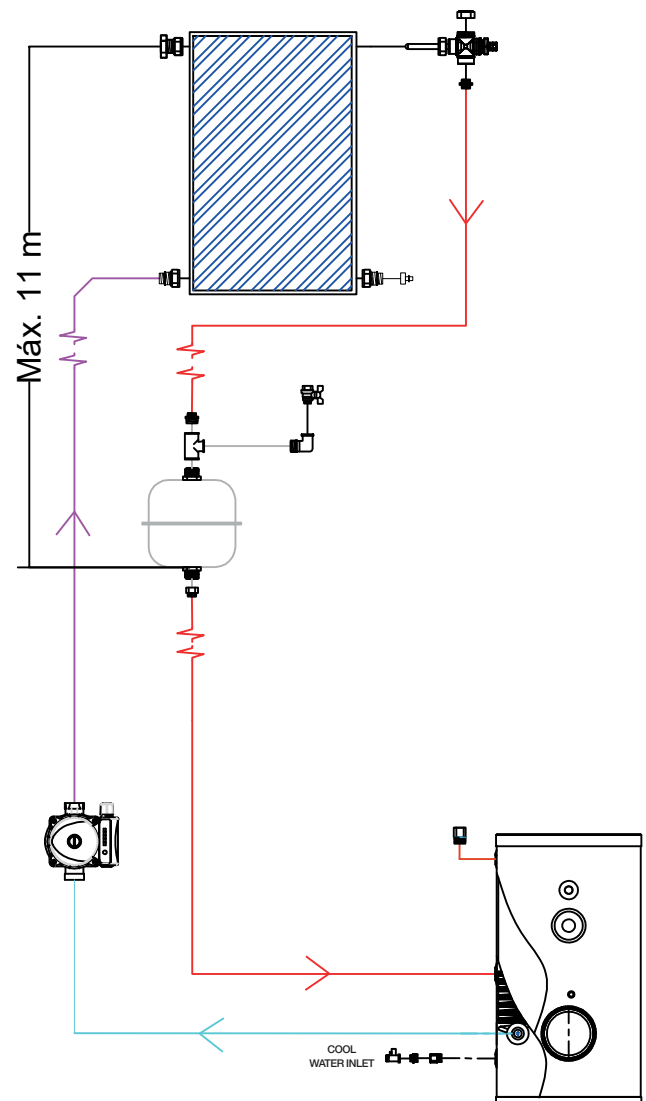
Height from the bottom of the tank to the top of the collector: 3 - 12 m
Total pipe max: 25 m



**FORCED system
installation scheme**



**DRAINBACK system
installation scheme**



Forced Systems / Drainback

Single coil floor mounted system

Liters	Collector	Ref. Flat Roof	Ref. Tiled Roof	RP €
150	S21	582DK1511S21VGP	582DK1511S21VGI	1.998
150	S21H	582DK1511S21HGP	582DK1511S21HGI	2.015
150	G21	582DK1511G21VGP	582DK1511G21VGI	2.031
150	G21H	582DK1511G21HGP	582DK1511G21HGI	2.049
150	G21M	582DK1511G21MVGP	582DK1511G21MVGI	2.116
200	S21	582DK2011S21VGP	582DK2011S21VGI	2.104
200	S26	582DK2011S26VGP	582DK2011S26VGI	2.163
200	S26H	582DK2011S26HGP	582DK2011S26HGI	2.181
200	G21	582DK2011G21VGP	582DK2011G21VGI	2.137
200	G26	582DK2011G26VGP	582DK2011G26VGI	2.191
200	G21M	582DK2011G21MVGP	582DK2011G21MVGI	2.222
200	G26M	582DK2011G26MVGP	582DK2011G26MVGI	2.276
300	2*S21	582DK3012S21VGP	582DK3012S21VGI	2.721
300	2*G21	582DK3012G21VGP	582DK3012G21VGI	2.787
300	2*G21M	582DK3012G21MVGP	582DK3012G21MVGI	2.957
500	3*S21	582DK5013S21VGP	582DK5013S21VGI	3.643
500	3*G21	582DK5013G21VGP	582DK5013G21VGI	3.741
500	4*S21	582DK5014S21VGP	582DK5014S21VGI	4.106
500	4*G21	582DK5014G21VGP	582DK5014G21VGI	4.237
800	4*S26	582DK8014S26VGP	582DK8014S26VGI	5.444
800	4*G26	582DK8014G26VGP	582DK8014G26VGI	5.559
800	5*S26	582DK8015S26VGP	582DK8015S26VGI	6.082
800	5*G26	582DK8015G26VGP	582DK8015G26VGI	6.226
1000	5*S26	582DK9015S26VGP	582DK9015S26VGI	6.840
1000	5*G26	582DK9015G26VGP	582DK9015G26VGI	6.983
1000	6*S26	582DK9016S26VGP	582DK9016S26VGI	7.380
1000	6*G26	582DK9016G26VGP	582DK9016G26VGI	7.553

Single coil wall mounted system

Liters	Collector	Ref. Flat Roof	Ref. Tiled Roof	RP €
120	S21	582DM1211S21VGP	582DM1211S21VGI	1.632
150	S21	582DM1511S21VGP	582DM1511S21VGI	1.748
200	S21	582DM2011S21VGP	582DM2011S21VGI	1.857
200	S26	582DM2011S26VGP	582DM2011S26VGI	1.916

Double coil system

Liters	Collector	Ref. Flat Roof	Ref. Tiled Roof	RP €
200	S21	582DK2021S21VGP	582DK2021S21VGI	2.161
200	S26	582DK2021S26VGP	582DK2021S26VGI	2.220
200	S26H	582DK2021S26HGP	582DK2021S26HGI	2.238
200	G21	582DK2021G21VGP	582DK2021G21VGI	2.194
200	G26	582DK2021G26VGP	582DK2021G26VGI	2.248
200	G21M	582DK2021G21MVGP	582DK2021G21MVGI	2.279
200	G26M	582DK2021G26MVGP	582DK2021G26MVGI	2.333
300	2*S21	582DK3022S21VGP	582DK3022S21VGI	2.856
300	2*G21	582DK3022G21VGP	582DK3022G21VGI	2.921
300	2*G21M	582DK3022G21MVGP	582DK3022G21MVGI	3.092
500	3*S21	582DK5023S21VGP	582DK5023S21VGI	3.809
500	3*G21	582DK5023G21VGP	582DK5023G21VGI	3.907
500	4*S21	582DK5024S21VGP	582DK5024S21VGI	4.273
500	4*G21	582DK5024G21VGP	582DK5024G21VGI	4.404
800	4*S26	582DK8024S26VGP	582DK8024S26VGI	5.660
800	4*G26	582DK8024G26VGP	582DK8024G26VGI	5.775
800	5*S26	582DK8025S26VGP	582DK8025S26VGI	6.299
800	5*G26	582DK8025G26VGP	582DK8025G26VGI	6.442
1000	5*S26	582DK9025S26VGP	582DK9025S26VGI	6.990
1000	5*G26	582DK9025G26VGP	582DK9025G26VGI	7.133
1000	6*S26	582DK9026S26VGP	582DK9026S26VGI	7.530
1000	6*G26	582DK9026G26VGP	582DK9026G26VGI	7.702

Forced Systems Pumping Unit

Characteristics

- Pumping unit with the tank (not installed)
- From 150 to 1.000 liters
- Single or double coil
- With all its components, ready to install

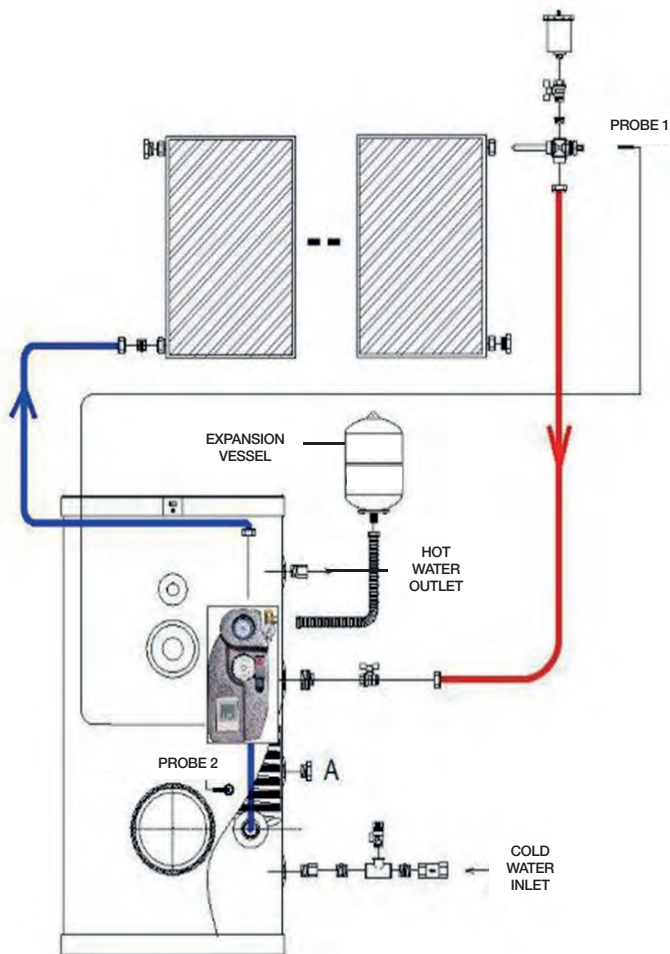


Components

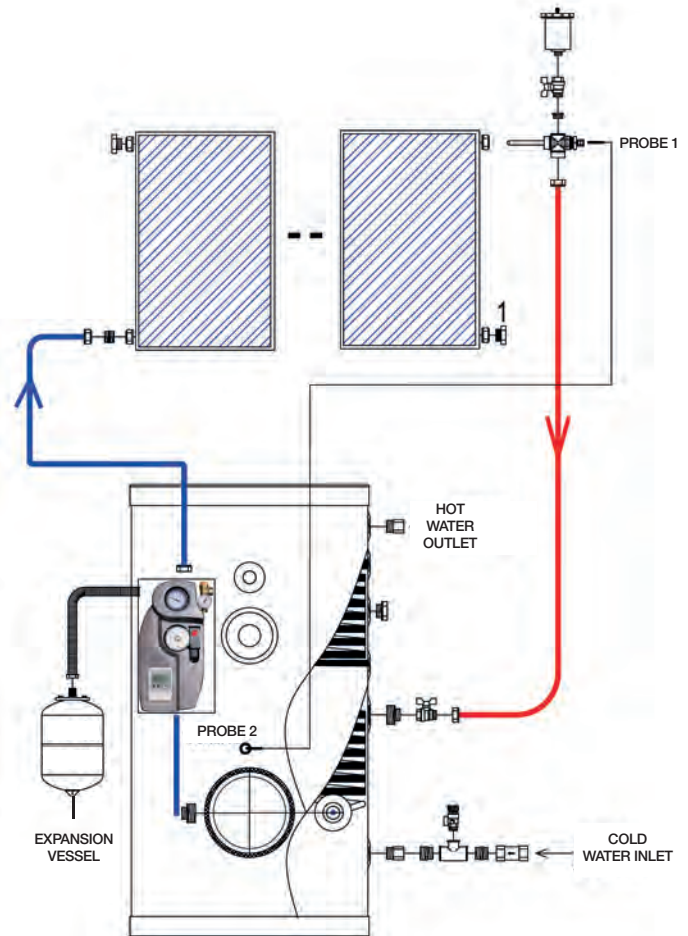
- TERMICOL solar collectors
- Support frame in steel (consult for aluminum)
- Single or double tanks coil
- Expansion Vessel
- Valves and connection accessories
- Pumping and regulation system
- Antifreeze fluid
- Magnesium anode tester



**SINGLE COIL SYSTEM
Installation Diagram**



**DOUBLE COIL SYSTEM
Installation Diagram**



Forced Systems Pumping Unit

Single coil systems

Liters	Collector	Ref. Flat Roof	Ref. Tiled Roof	RP €
150	S21	561F1511S21VGP	561F1511S21VGI	2.353
150	G21	561F1511G21VGP	561F1511G21VGI	2.385
200	S21	561F2011S21VGP	561F2011S21VGI	2.458
200	G21	561F2011G21VGP	561F2011G21VGI	2.491
200	S26	561F2011S26VGP	561F2011S26VGI	2.518
200	G26	561F2011G26VGP	561F2011G26VGI	2.546
300	2*S21	561F3012S21VGP	561F3012S21VGI	3.098
300	2*G21	561F3012G21VGP	561F3012G21VGI	3.163
500	3*S21	561F5013S21VGP	561F5013S21VGI	4.124
500	3*G21	551F5013G21VGP	551F5013G21VGI	4.224
500	4*S21	561F5014S21VGP	561F5014S21VGI	4.609
500	4*G21	551F5014G21VGP	551F5014G21VGI	4.742
800	4*S26	561F8014S26VGP	561F8014S26VGI	5.832
800	4*G26	561F8014G26VGP	561F8014G26VGI	5.947
800	5*S26	561F8015S26VGP	561F8015S26VGI	6.480
800	5*G26	561F8015G26VGP	561F8015G26VGI	6.624
1000	5*S26	561F9015S26VGP	561F9015S26VGI	7.217
1000	5*G26	561F9015G26VGP	561F9015G26VGI	7.360
1000	6*S26	561F9016S26VGP	561F9016S26VGI	7.767
1000	6*G26	561F9016G26VGP	561F9016G26VGI	7.940

Double coil systems

Liters	Collector	Ref. Flat Roof	Ref. Tiled Roof	RP €
200	S21	561F2021S21VGP	561F2021S21VGI	2.515
200	G21	561F2021G21VGP	561F2021G21VGI	2.548
200	S26	561F2021S26VGP	561F2021S26VGI	2.575
200	G26	561F2021G26VGP	561F2021G26VGI	2.603
300	2*S21	561F3022S21VGP	561F3022S21VGI	3.232
300	2*G21	561F3022G21VGP	561F3022G21VGI	3.297
500	3*S21	561F5023S21VGP	561F5023S21VGI	4.295
500	3*G21	551F5023G21VGP	551F5023G21VGI	4.395
500	4*S21	561F5024S21VGP	561F5024S21VGI	4.779
500	4*G21	551F5024G21VGP	551F5024G21VGI	4.913
800	4*S26	561F8024S26VGP	561F8024S26VGI	6.048
800	4*G26	561F8024G26VGP	561F8024G26VGI	6.163
800	5*S26	561F8025S26VGP	561F8025S26VGI	6.696
800	5*G26	561F8025G26VGP	561F8025G26VGI	6.840
1000	5*S26	561F9025S26VGP	561F9025S26VGI	7.367
1000	5*G26	561F9025G26VGP	561F9025G26VGI	7.510
1000	6*S26	561F9026S26VGP	561F9026S26VGI	7.917
1000	6*G26	561F9026G26VGP	561F9026G26VGI	8.089

Storage Tanks: DHW DIRECT ENAMELED



- Vertical direct storage tanks for DHW, carbon steel
- Internally enameled
- 5-year warranty



Characteristics	150	200	300	500	750	1000	1500	2000	2500	3000	4000	5000
*Diameter (mm)	580	580	700	750	900	1000	1120	1260	1460	1460	1660	1660
*Height (mm)	1110	1310	1175	1800	2085	2020	2300	2230	2112	2490	2535	3035
Weight (kg)	72	79	97	153	223	235	330	470	560	620	762	882
Insulation Thickness (mm)	50	50	50	50	80	80	80	80	80	80	80	80
P _{max} (bar) / T _{max} (°C)	10 / 95											

*Dimensions insulation included

Models and prices

Model	Capacity (liters)	Inspection Flange	External protection	Reference	RP €
ATK 150 D	150	100 mm	Rigid polyurethane and leatherette	602K0150	784
ATK 200 D	200			602K0200	849
ATK 300 D	300			602K0300	1.009
ATK 500 D	500			602K0500	1.401
ATK 750 D	750			602K0800	2.073
ATK 1000 D	1000	400 mm	Flexible polyurethane and leatherette	602K1000	2.891
ATK 1500 D	1500			602K1500	3.874
ATK 2000 D	2000			602K2000	4.705
ATK 2500 D	2500			602K2500	5.305
ATK 3000 D	3000			602K3000	5.897
ATK 4000 D	4000			602K4000	7.661
ATK 5000 D	5000			602K5000	9.127

Accessories

Description	Reference	RP €
Electronic anode (750 L - 1500 L)	714AE1500	196
Electronic anode (2000 L - 5000 L)	714AE5000	258
Magnesium anode (hasta 300 L)*	714KAM114L22	44
Silicone gasket (<= 800 L)	714KJSBP	25
Silicone gasket (> 800 L)	714KJSBG	96

* Consult other capabilities



Electronic anodes

Storage Tanks: DHW DIRECT ENAMELED



- Vertical tanks with a fixed coil for DHW
- Enameled interior treatment
- With or without pumping unit
- 5 years warranty



Without a pumping unit
ATK-S 15 0-3.000 L



With a pumping unit
ATK-ESI 150-1.000 L

Characteristics	ATK 150	ATB 150	ATK 200	ATB 200	ATK 300	ATB 300	ATK 500	ATK 750	ATK 1000	ATK 1500	ATK 2000	ATK 2500	ATK 3000
Coil surface (m ²)	1,17	1	1,46	1,4	1,60	1,6	2,46	2,98	2,98	3,86	4,65	7,20	7,20
Weight (kg)	91	90	109	1,20	123	160	194	261	283	380	594	717	840
*Diameter (mm)	590	560	590	560	590	645	740	900	1.000	1120	1260	1445	1450
*Height (mm)	1145	1315	1345	1530	1900	1770	1820	2100	2030	2300	2250	2100	2550
Insulation Thickness (mm)	50	100	50	100	50	100	50	80	80	80	80	80	80
P _{max} (bar) / T _{max} (°C)	10 / 95												

*Insulation included.

Without pumping unit

Model	Capacity (liters)	Inspection Flange	External protection	Reference	RP €
ATK 150 S	150	100 mm	Rigid polyurethane and leatherette	602K0151	867
ATK 200 S	200			602K0201	974
ATK 300 S	300			602K0301	1.098
ATK 500 S	500			602K0501	1.538
ATK 750 S	750			602K0801	2.422
ATK 1000 S	1000	400 mm	Flexible polyurethane and leatherette	602K1001	3.289
ATK 1500 S	1500			602K1501	4.268
ATK 2000 S	2000			602K2001	5.278
ATK 2500 S	2500			602K2501	6.283
ATK 3000 S	3000			602K3001	6.927

Integrated pumping unit

Model	Capacity (liters)	Inspection Flange	External protection	Reference	RP €
ATK 150 ESI	150	100 mm	Rigid polyurethane and leatherette	602K0151E	1.637
ATK 200 ESI	200			602K0201E	1.765
ATK 300 ESI	300			602K0301E	1.914
ATK 500 ESI	500			602K0501E	2.303
ATK 750 ESI	750			602K0801E	3.220
ATK 1000 ESI	1000	400 mm	Flexible polyurethane and leatherette	602K1001E	3.949

Storage Tanks: DHW DOUBLE COIL ENAMELED



- Vertical storage tanks with double fixed coil for DHW, carbon steel
- Enameled interior treatment
- 5-year warranty
- Bottom coil in enameled steel with large exchange surface



Without a pumping unit
ATK-S2 150-3.000 L

With a pumping unit
ATK-ESI2 150-1.000 L

Characteristics	ATK 200	ATB 200	ATK 300	ATB 300	ATK 500	ATK 750	ATK 1000	ATK 1500	ATK 2000	ATK 2500	ATK 3000
Exchange surface Sinf (m ²)	1,02	1,4	1,30	1,6	2,46	2,98	2,98	3,86	4,65	7,20	7,20
Exchange surface Ssup (m ²)	0,73	0,4	0,99	0,9	1,46	1,63	1,80	1,86	2,26	3,50	3,50
Weight (kg)	112	130	132	170	223	290	318	417	640	717	925
Diameter (mm)	590	560	590	640	740	900	1000	1120	1260	1460	1460
Height (mm)	1345	1530	1900	1770	1820	2100	2030	2300	2230	2200	2540
P _{max} (bar) / T _{max} (°C)	10 / 95										

Without pumping unit

Model	Capacity (liters)	Inspection Flange	External protection	Reference	RP €
ATK 200 S2	200	100 mm	Rigid polyurethane and leatherette	602K0202	1.033
ATK 300 S2	300			602K0302	1.233
ATK 500 S2	500			602K0502	1.663
ATK 750 S2	750			602K0802	2.666
ATK 1000 S2	1000	400 mm	Flexible polyurethane and leatherette	602K1002	3.451
ATK 1500 S2	1500			602K1502	4.538
ATK 2000 S2	2000			602K2002	5.509
ATK 2500 S2	2500			602K2502	6.759
ATK 3000 S2	3000			602K3002	7.532

Integrated pumping unit

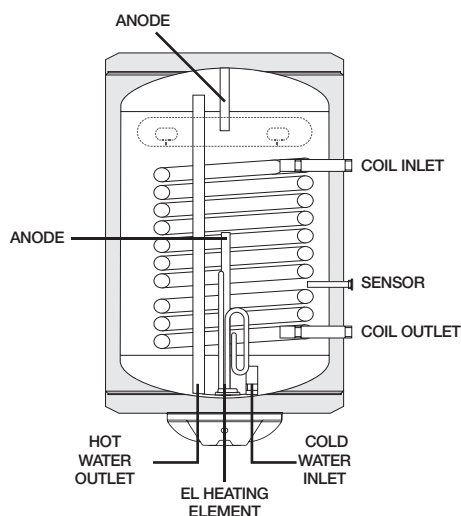
Model	Capacity (liters)	Inspection Flange	External protection	Reference	RP €
ATK 200 ESI2	200	100 mm	Rigid polyurethane and leatherette	602K0202E	1.825
ATK 300 ESI2	300			602K0302E	2.401
ATK 500 ESI2	500			602K0502E	2.487
ATK 750 ESI2	750			602K0802E	3.561
ATK 1000 ESI2	1000	400 mm	Flexible polyurethane and leatherette	602K1002E	4.230

Storage Tanks: WALL-MOUNTED DHW ENAMELED TANKS

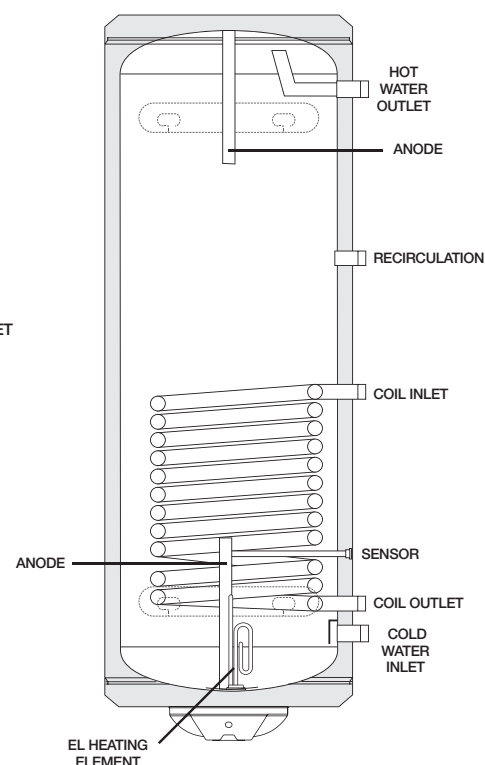


- Wall-mounted tanks with a fixed coil of large heat exchange surface
- Enameled interior treatment
- 5-year warranty

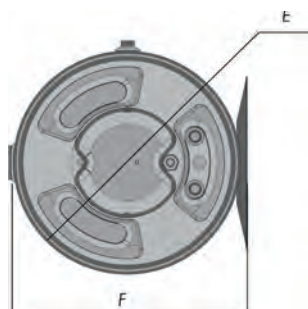
ATS 80-150 V



ATS 200 V



Characteristics	80	100	120	150	200
Exchange surface (m²)	0,50	0,70	0,70	0,90	0,90
Weight (kg)	36,4	43,6	49	70	82,4
P _{max} (bar) / T _{max} (°C)	8 bar / 95°C				
Optional electrical back-up (kW)	2	2	2	2	2



Capacity (liters)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
80	800	240	380	180	440	450
100	960	240	540	180	440	450
120	1120	240	700	180	440	450
150	1085	240	630	200	520	520
200	1355	240	900	230	520	520

Models and prices

Model	Capacity (liters)	External protection	Reference	RP €	Model élec. Kit	Reference	RP €
ATS 80 V	80	White lacquered steel	602MS0081	300	ATS 80 VE	602MSE081	350
ATS 100 V	100		602MS0101	340	ATS 100 VE	602MSE101	395
ATS 120 V	120		602MS0121	435	ATS 120 VE	602MSE121	495
ATS 150 V	150		602MS0151	550	ATS 150 VE	602MSE151	595
ATS 200 V	200		602MS0201	655	ATS 200 VE	602MSE201	715

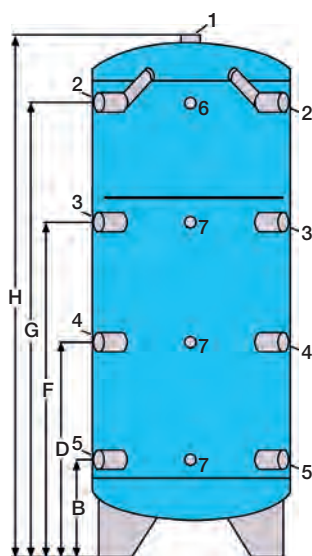
Storage Tanks: BUFFER



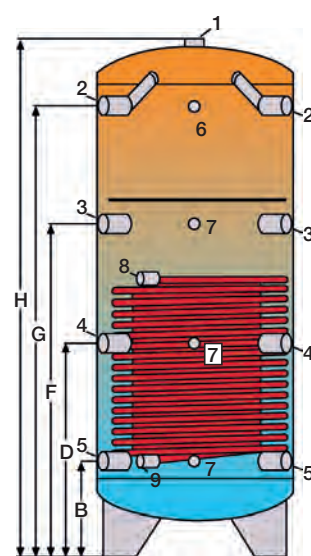
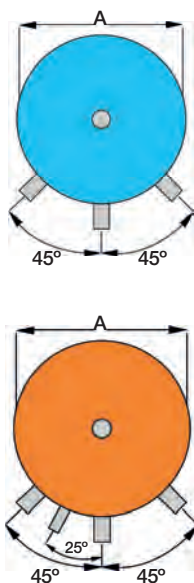
- Vertical buffer storage tanks, carbon steel specifically for heating systems
- Carbon steel coils with large exchange surface
- 5-year warranty



Characteristics	100	150	200	300	500	750	1000	1500	2000	2500	3000	4000	5000
Exchange surface (m ²)	0,38	0,48	0,64	1,8	1,8	3,1	3,1	4,5	5,5	6,5	6,5	7,5	8,5
Weight of direct buffer tank (kg)	50	60	75	77	103	129	150	196	301	310	316	414	481
Weight of indirect buffer tank (kg)				96	123	158	178	240	346	354	392	491	557
Max. working pressure (bar)	6												
Max. temperature (°C)	95												



Direct



Indirect

Capacity (liters)	A	B	D	E	F	G	H
300	500	235	605	835	975	1345	1565
500	650	330	710	710	1090	1470	1695
750	790	340	720	720	1095	1470	1725
1000	790	340	800	800	1260	1720	1975
1500	1000	390	850	850	1310	1770	2090
2000	1100	390	950	950	1510	2070	2405
2500	1250	395	855	855	1315	1775	2145
3000	1250	390	1020	1020	1650	2280	2645
4000	1500	470	1030	1030	1590	2150	2575
5000	1600	465	1100	1100	1730	2355	2795

N°	Description	ATB 300...5000
1	Ventilation	1"1/4
2	Boiler impulsion	1"1/2
3	Heating impulsion	1"1/2
4	Heating return at 50°	1"1/2
5	Heating return at 30°	1"1/2
6	Thermometer	1/2"
7	Probe	1/2"
8	Solar energy impulsion	1"
9	Solar energy return	1"

Storage Tanks: BUFFER

Direct Buffer storage tanks

Model	Capacity (liters)	External protection	Indoors		Outdoors	
			Reference	RP €	Reference	RP €
ATB 100 IND	100	Flexible polyurethane with detachable PVC cover	603B0100	512	603B0100EX	532
ATB 150 IND	150		603B0150	588	603B0150EX	612
ATB 200 IND	200		603B0200	673	603B0200EX	700
ATB 300 IND	300		603B0300	789	603B0300EX	821
ATB 500 IND	500		603B0500	1,017	603B0500EX	1,058
ATB 750 IND	750		603B0750	1,276	603B0750EX	1,327
ATB 1000 IND	1000		603B1000	1,461	603B1000EX	1,519
ATB 1500 IND	1500		603B1500	2,127	603B1500EX	2,212
ATB 2000 IND	2000		603B2000	2,723	603B2000EX	2,832
ATB 2500 IND	2500		603B2500	3,089	603B2500EX	3,398
ATB 3000 IND	3000		603B3000	4,070	603B3000EX	4,477
ATB 4000 IND	4000		603B4000	5,346	603B4000EX	5,881
ATB 5000 IND	5000		603B5000	6,530	603B5000EX	7,183

Buffer storage tanks with fixed Coil

Model	Capacity (liters)	External protection	Indoors		Outdoors	
			Reference	RP €	Reference	RP €
ATB 150 INS	150	Flexible polyurethane with detachable PVC cover	603B0151	778	603B0151EX	809
ATB 200 INS	200		603B0201	970	603B0201EX	1,009
ATB 300 INS	300		603B0301	987	603B0301EX	1,026
ATB 500 INS	500		603B0501	1,233	603B0501EX	1,282
ATB 750 INS	750		603B0751	1,572	603B0751EX	1,635
ATB 1000 INS	1000		603B1001	1,850	603B1001EX	1,924
ATB 1500 INS	1500		603B1501	2,497	603B1501EX	2,597
ATB 2000 INS	2000		603B2001	3,167	603B2001EX	3,294
ATB 2500 INS	2500		603B2501	3,533	603B2501EX	3,886
ATB 3000 INS	3000		603B3001	4,532	603B3001EX	4,985
ATB 4000 INS	4000		603B4001	6,123	603B4001EX	6,735
ATB 5000 INS	5000		603B5001	6,919	603B5001EX	7,611

Outdoor supplement

Tanks <= 2.000 L: R.P. + 4%

Tanks >= 2.500 L: R.P. + 10%

Aerothermal buffer tank

Model	Capacity (liters)	Reference	RP €
ATS 30 IND	30	603S0030	265
ATS 50 IND	50	603S0050	305
ATS 80 IND	80	603S0080	435
ATS 100 IND	100	603S0100	540



Storage Tanks: DHW STAINLESS STEEL



Vertical storage tanks, AISI 316L stainless steel, 5-year warranty.
AISI 316L stainless steel coils with large exchange surface



Characteristics	100	150	200	300	500	750	1000	1500	2000	2500	3000	4000	5000
Exchange surface	0,38	0,48	0,64	1,32	1,68	2,72	3,48	4,05	4,86	5,67	6,48	7,3	8,11
Diameter (mm)	480	580	580	580	800	800	930	1140	1300	1400	1 500	1600	1750
Height (mm)	1010	980	1280	1780	1710	1920	2000	2055	2100	2155	2230	2890	2935
Weight (kg)	50	60	75	115	135	180	200	245	300	375	450	600	725
Max. working pressure (bar)	8												
Max. temperature (°C)	90												

* Insulation included.

Direct stainless steel storage tanks

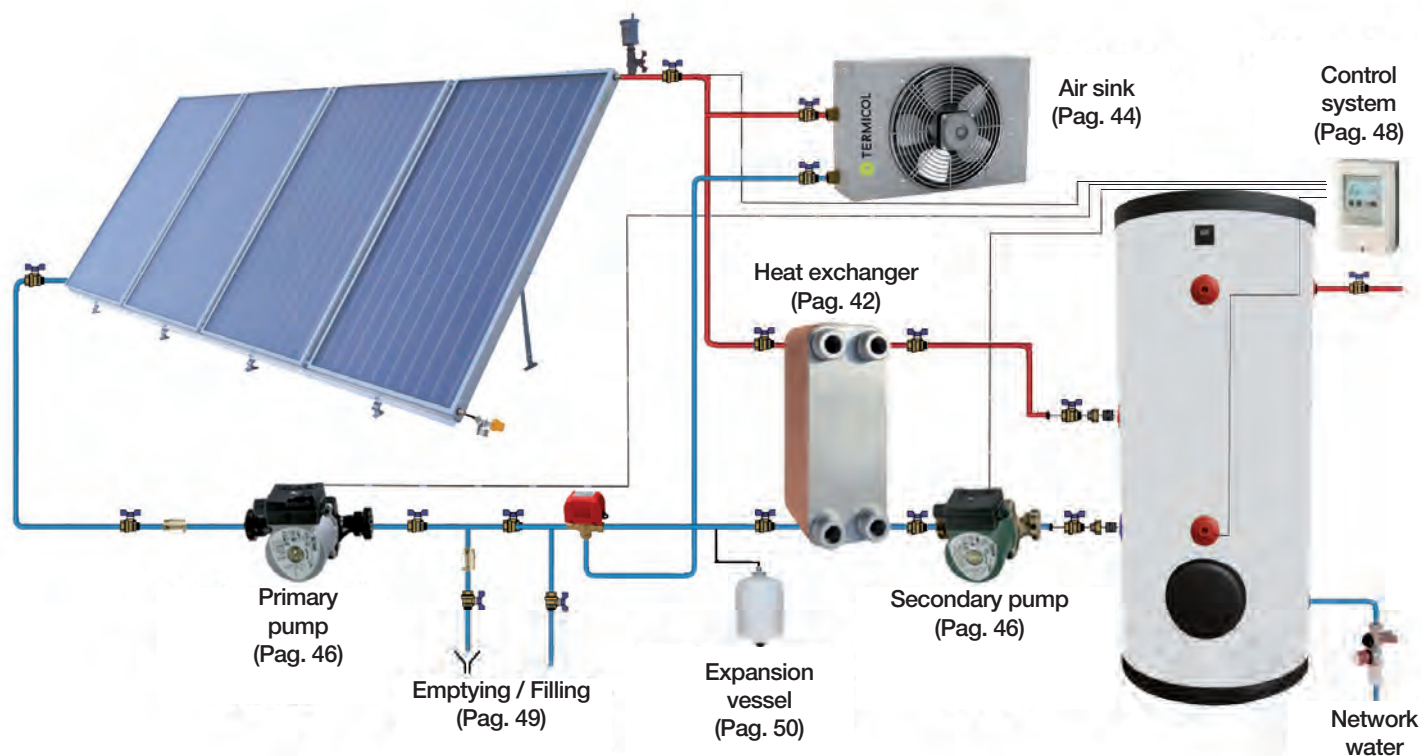
Model	Capacity (liters)	External protection	Reference	RP €
ATV 100 IXD	100	Flexible polyurethane with detachable PVC cover	604V0100	980
ATV 150 IXD	150		604V0150	1.169
ATV 200 IXD	200		604V0200	1.320
ATV 300 IXD	300		604V0300	2.003
ATV 500 IXD	500		604V0500	3.844
ATV 750 IXD	750		604V0800	4.603
ATV 1000 IXD	1000		604V1000	5.977
ATV 1500 IXD	1500		604V1500	8.853
ATV 2000 IXD	2000		604V2000	11.024
ATV 2500 IXD	2500		604V2500	12.921
ATV 3000 IXD	3000		604V3000	15.323
ATV 4000 IXD	4000		604V4000	18.215
ATV 5000 IXD	5000		604V5000	22.009

Stainless steel storage tanks with a fixed coil

Model	Capacity (liters)	External protection	Reference	RP €
ATV 100 IXS	100	Flexible polyurethane with detachable PVC cover	604V0101	1.093
ATV 150 IXS	150		604V0151	1.472
ATV 200 IXS	200		604V0201	1.586
ATV 300 IXS	300		604V0301	2.193
ATV 500 IXS	500		604V0501	4.413
ATV 750 IXS	750		604V0801	5.172
ATV 1000 IXS	1000		604V1001	6.736
ATV 1500 IXS	1500		604V1501	9.802
ATV 2000 IXS	2000		604V2001	11.403
ATV 2500 IXS	2500		604V2501	13.395
ATV 3000 IXS	3000		604V3001	16.462
ATV 4000 IXS	4000		604V4001	21.061
ATV 5000 IXS	5000		604V5001	25.235

Accessories: GENERAL SCHEME

Overall scheme of solar energy accessories

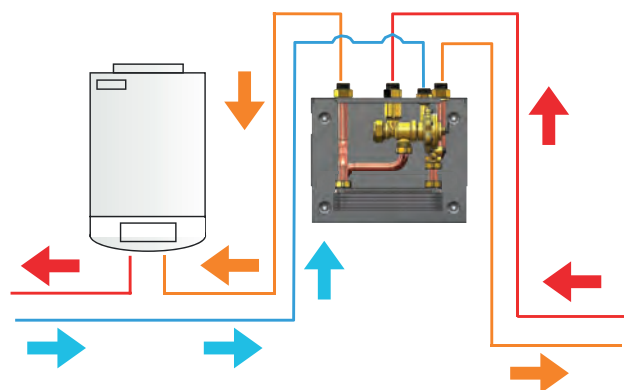


Accessories: EXCHANGERS

Heat transfer kits

Power (kW)	Description	Reference	RP €
35	Kit with cover box	702KIACSOR	604
35	Kit without cover box	702KIACSORSA	546

*Please consult for other models in development.



DHW plate heat exchange



Design conditions:

- Primary circuit liquid temperature = 60°C
- Secondary circuit liquid outlet temperature = 50°C
- Primary circuit fluid = propylenglicol 30 %
- Secondary circuit working liquid = water

Collectors area (m²)	Power	Inlets	Reference	RP €
28,8	6 - 15 kW	3/4"	702PTACS012	182
48	16 - 24 kW	3/4"	702PTACS020	246
84	25 - 42 kW	1"	702PTACS035	316
120	43 - 60 kW	1"	702PTACS050	370
144	61 - 72 kW	1"	702PTACS060	638
168	73 - 84 kW	1"	702PTACS070	713
216	85 - 108 kW	1"	702PTACS090	787
240	109 - 120 kW	1 1/4"	702PTACS100	911

Insulations



Insulations up to	Reference	RP €
48 m² collectors	702PTAIS020	263
84 m² collectors	702PTAIS035	314
144 m² collectors	702PTAIS060	327
216 m² collectors	702PTAIS090	327
240 m² collectors	702PTAIS120	412

Shell-and-tube heat exchangers for swimming pool heating

- Solar installation power conditions: Input primary circuit T = 50°C
- Boiler installation power conditions: Input primary circuit T = 90°C
- Maximum flow in tube 15 m³/h



25 kW



45 kW



85 kW



105 kW

Stainless steel heat exchangers for non saline water pools

Collectors area (m2)	Solar installation power / Boiler installation power	Reference	RP €
2 - 12	1 - 6 kW / 25 kW	702CT025I05	514
12 - 35	7 - 18 kW / 45 kW	702CT045I15	600
35 - 71	19 - 36 kW / 85 kW	702CT085I30	876
71 - 82	37 - 42 kW / 105 kW	702CT105I35	1.396

Titanium heat exchangers for saline water pools

Collectors area (m2)	Solar installation power / Boiler installation power	Reference	RP €
2 - 12	1 - 6 kW / 25 kW	702CT025T05	849
12 - 35	7 - 18 kW / 45 kW	702CT045T15	973
35 - 71	19 - 36 kW / 85 kW	702CT085T30	1.536
71 - 82	37 - 42 kW / 105 kW	702CT105T35	2.072

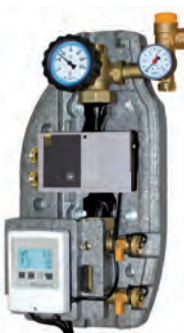
Accessories: PUMPING UNIT



1 way without controller

- Circulating pump
- 1 Flow regulator (2 - 12 l/min || 8 - 38 l/min)
- 1 Thermometer (impulsion)
- 1 Safety valve (6 bar)
- 1 Pressure gauge
- 1 Filling valve and 1 emptying valve
- 1 Pressure gauge
- Thermal insulation

Description	Net area m ²	H _{max} (m. c. a)	Pump	Inlets	Reference	RP €
Pumping unit 1W - without controller	< 25 m ²	6,8	Wilo ST 25/6 iPWM	¾" M	704B12L1V070	380
Pumping unit 1W - without controller	< 50 m ²	8,5	Wilo ST 25/8 iPWM	1" M	704B38L1V075	530



1 way with controller

- Circulating pump
- 1 Flow regulator (2 - 12 l/min || 8 - 38 l/min)
- 1 Thermometer (impulsion)
- 1 Safety valve (6 bar)
- 1 Non-return valve
- 1 Filling valve and 1 emptying valve
- 1 Pressure gauge
- Thermal insulation
- Controller STDC

Description	Net area m ²	H _{max} (m. c. a)	Pump	Inlets	Reference	RP €
Pumping unit 1W - with controller STDC	< 25 m ²	6,8	Wilo ST 25/6 iPWM	¾" M	704B12L1V170	606
Pumping unit 1W - with controller STDC	< 50 m ²	8,5	Wilo ST 25/8 iPWM	1" M	704B38L1V175	767



2 ways with controller

- Circulating pump
- 1 Flow regulator (2 - 12 l/min || 8 - 38 l/min)
- 2 Thermometers (impulsion and return)
- 1 Safety valve (6 bar)
- 1 Non-return valve
- 1 Filling valve and 1 emptying valve
- 1 Pressure gauge
- Thermal insulation
- Controller MTDC

Description	Net area m ²	H _{max} (m. c. a)	Pump	Inlets	Reference	RP €
Pumping unit 2W - with controller MTDC	< 25 m ²	6,8	Wilo ST 25/6 iPWM	¾" M	704B12L2V170	897
Pumping unit 2W - without controller	< 50 m ²	8,5	Wilo ST 25/8 iPWM	1" M	704B38L2V075	603
Pumping unit 2W - with controller MTDC	< 50 m ²	8,5	Wilo ST 25/8 iPWM	1" M	704B38L2V175	948



2 ways drainback

- Circulating pump
- 1 Flow regulator (2 - 12 l/min || 8 - 38 l/min)
- 2 Thermometers (impulsion and return)
- 1 Safety valve (6 bar)
- Without non-return valve
- 1 Filling valve and 1 emptying valve
- Thermal insulation
- Controller MTDC

Description	Net area m ²	H _{max} (m. c. a)	Pump	Inlets	Reference	RP €
Pumping unit 2W - with controller MTDC	< 25 m ²	6,8	Wilo ST 25/7,5 iPWM	1" M	704D12L2V175	901
Pumping unit 2W - with controller MTDC	< 25 m ²	6,8	Wilo ST 15/13 iPWM	1" M	704D12L2V113	958

Accessories: HEAT SINKS

Dynamic heat sinks



Models

Heat sinks



Number of Collector	Collectors Models	Description	Reference	RP €
1 - 4 1 - 5	S26, G26 S21, G21, P21	8 kW	705DI008M	541
5 - 9 6 - 12	S26, G26 S21, G21, P21	18 kW	705DI018M	606
10 - 13 13 - 16	S26, G26 S21, G21, P21	24 kW	705DI024M	723
14 - 21 17 - 26	S26, G26 S21, G21, P21	40 kW	705DI040M	1.108
22 - 27 27 - 34	S26, G26 S21, G21, P21	52 kW	705DI052M	1.227
28 - 32 35 - 40	S26, G26 S21, G21, P21	61 kW	705DI061M	1.483
33 - 40 41 - 50	S26, G26 S21, G21, P21	76 kW	705DI076M	1.634
41 - 50 51 - 70	S26, G26 S21, G21, P21	106 kW *	705DI106T	2.603
51 - 80 71 - 100	S26, G26 S21, G21, P21	152 kW *	705DI152T	3.031
81 - 100 101 - 125	S26, G26 S21, G21, P21	190 kW *	705DI190T	3.321
101 - 125 126 - 160	S26, G26 S21, G21, P21	243 kW *	705DI243T	5.519
126 - 155 161 - 200	S26, G26 S21, G21, P21	304 kW *	705DI304T	5.703

*Heat sinks of 106 kW, 152 kW and 190 kW are triple phase, the rest are single phase

Design conditions

- Intake liquid temperature = 90°C

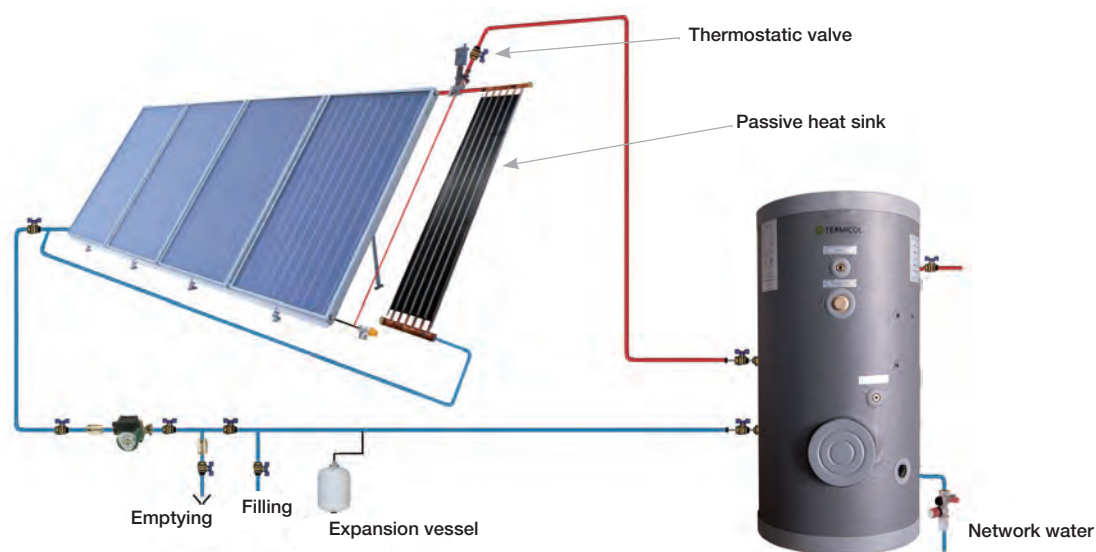
- Intake air temperature = 35°C

- Working liquid propylenglicol 30%

***Contact technical department for models of a higher power

Accessories: HEAT SINKS

Static heat sinks



Models



Thermostatic valve T 90°C



Passive heat sink

For collector arrays

Number of Collector	Collectors Models	Description	Reference	RP €
2	S21, G21, P21	2500 W	705ECF025	798
2	S26, G26	3500 W	705ECF035	922
3	S21, G21, P21	4500 W	705ECF045	1.056
4	S26, G26	5500 W	705ECF055	1.169
5	S21, G21, P21	7000 W	705ECF070	1.591
6	S26, G26	8000 W	705ECF080	1.715
8	S26, G26	11000 W	705ECF110	2.086

Description	Reference	RP €
Connection for collectors array (statics heat sinks)	215BATCAP2	180

* Design conditions for heat sinks placed in horizontal position; wind speed 0 m/s; $\Delta t = 70 \text{ }^{\circ}\text{C}$; ramp 5%.



Thermostatic valve T 70 °C



Passive heat sink

For Thermosiphon kits

Number of Collector	Collectors Models	Description	Reference	RP €
2	S21, T20, P21, T25, S26	1750 W	705ECT175	541

Description	Reference	RP €
Connection for Thermosiphon kits (static heat sinks)	215BATCAP3	60

Accessories: CIRCULATION PUMPS

For primary circuits: Simple pumps

Reference		701BP015R ¹	701BP020R ¹	701BP030R ¹	701BP040R ¹	701BP050R ¹	701BP080B ²	701BP100B ²
RP €		289	450	713	805	937	1.498	1.785
N° Collectors	Q(m³/h)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)
5	0,48	5,7						
10	0,96	4,8	6					
15	1,44	4	5,6					
20	1,92	3,1	4,7	6,2				
25	2,40	2,4	4	6,1	8			
30	2,88		3,2	5,8	7,7	9,6		
40	3,84			4,8	6,6	8,4	11,9	
50	4,80			4	5,5	7,1	11,1	
60	5,76				4,5	6	10,3	12
70	6,72					4,8	9,7	11,7
80	7,68						9,1	11,3
90	8,64						8,5	10,8
100	9,60						7,8	10,1

¹ Include their connection joints

² Include flanges



For primary circuits: Double pumps

Reference		701BPD020B ²	701BPD030B ²	701BPD040B ²	701BPD050B ²	701BPD080B ²	701BPD100B ²
RP €		2.556	2.776	3.193	3.996	4.833	5.534
N° Collectors	Q(m³/h)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)
20	1,92	6,5					
30	2,88	6	7,7				
40	3,84	5	7	8			
50	4,80	4,5	6,5	7,5	9,5		
60	5,76	4	6	7	8,5	12,5	
70	6,72		5,5	6,5	8	11,5	15
80	7,68			6	7,5	10,5	14
90	8,64				7	10	13,5
100	9,60					9	13

² Include flanges



For secondary circuits: Simple pumps

Reference		701BS005R ¹	701BS015R ¹	701BS030R ¹	701BS050B ²	701BS070B ²	701BS100B ²
RP €		402	418	579	948	963	1.017
N° Collectors	Q(m³/h)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)	H _{max} (m)
5	0,48	4	5,4				
10	0,96	3,6	4,9				
15	1,44	3,1	4,4	7			
20	1,92	3,1	3,7	6,7			
25	2,40		3,1	6,4			
30	2,88			6	8,1		
40	3,84			5,2	8	9,9	
50	4,80			4	7,8	9,7	
60	5,76				7,5	9,5	12,6
70	6,72				7,1	9,2	12,1
80	7,68				6,9	8,7	11,6
90	8,64					8	11
100	9,60					7,3	10,5

¹ Include their connection joints

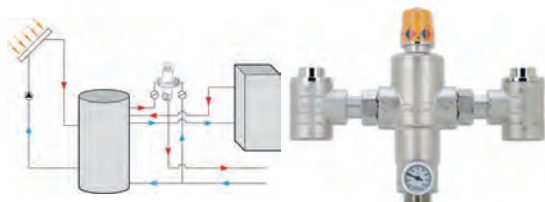
² Include flanges



Accessories: VALVES

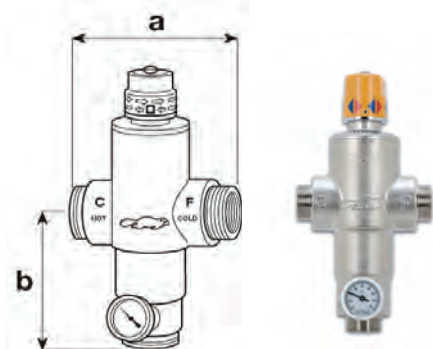
High-flow thermostatic mixing valves

With non-returns



Description	Reference	RP €
Thermostatic mixing valve 1 1/4"	708TMZ114CAR	850
Thermostatic mixing valve 1 1/2"	708TMZ112CAR	1,280
Thermostatic mixing valve 2"	708TMZ200CAR	1,478

Without non-returns valves



Description	Reference	RP €
Thermostatic mixing valve 1 1/4"	708TMZ114CR	670
Thermostatic mixing valve 1 1/2"	708TMZ112CR	1,000
Thermostatic mixing valve 2"	708TMZ200CR	1,070

3 ways motorized valves



Primary circuits

Description	Reference	RP €
1/2" (T _{max} 160 °C)	708ZN3V012H	165
3/4" (T _{max} 160 °C)	708ZN3V034H	165
1" (T _{max} 160 °C)	708ZN3V100H	165
1 1/4" (T _{max} 150 °C)	708ZN3V114H	463
1 1/2" (T _{max} 150 °C)	708ZN3V112H	747
2" (T _{max} 150 °C)	708ZN3V200H	1,082

Static balancing valves



Description	Reference	RP €
1/2" H kv 0,1-4,47 m³/h DN15	708EQES012H	78
3/4" H kv 0,13-5,9 m³/h DN20	708EQES034H	90
1" H kv 0,17-8,52 m³/h DN25	708EQES100H	107

Thermostatic mixer valve

According to	UNI EN 1111
Temperature range	30-55°C
Max. operating pressure	10 bar
Max. inlet temperature	100 °C
Flow at 3 bar	38 l/min
Minimum flow	10 l/min



Description	Ref.	RP €
Body 1"	708TMZ100CT	70
Body 1" with non-return fittings 3/4"	708TMZ034CAT	81

Accessories: SOLAR CONTROLLERS

Control Units

400S



Description	Ref.	RP €
Termicol 400S y 2 probes (1relay10A,sond.PTC2000)	703C7400S02	182

- 2 Temperature sensor inputs PT1000
- 1 Relay output 230VAC (on/off)

STDC-V3



Description	Ref.	RP €
Termicol STDC with 2 probes	703C1STDC32	216

- Temperature sensor inputs PT1000
- 1 Relay output 230VAC (on/off)
- 1 PWM output (high efficiency pumps speed control)
- 9 Hydraulic options

MTDC-V5



Description	Ref.	RP €
Termicol MTDC with 3 probes	703C2MTDC53	316

- 3 Temperature sensor inputs PT1000
- 2 Relay output 230VAC (on/off)
- 1 PWM output (high efficiency pumps speed control)
- 25 Hydraulic options

LTDC-V3



Description	Ref.	RP €
Termicol LTDC with 4 probes	703C3LTDC34	487

- 6 Temperature sensor inputs PT1000
- 2 VFS/RPS Directsensor inlets for flow measuring
- 3 Relay output 230VAC (on/off)
- 2 PWM output (high efficiency pumps speed control)
- 42 Hydraulic options

XTDC-V1



Description	Ref.	RP €
Termicol XTDC with optional probe	703C4XTDC10	932

- 8 Temperature sensor inputs PT1000
- 2 Grundfos VFS/RPS sensor input
- 1 inlet for RC21 environment sensor
- 2 PWM output (high efficiency pumps speed control)
- 2 Speed control connections
- 6 Relay output 230VAC (on/off)
- Micro SD Memory Card Slot
- Ethernet connection (model V2)
- 48 Hydraulic options

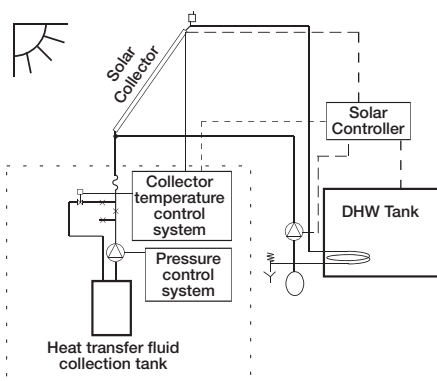
Accessories: FILLING SYSTEMS

Filling and draining systems



Digital equipment

Number of Collector	Description	Reference	RP €
6 - 15	120 L	712LLVD0120	4,318
16 - 25	200 L	712LLVD0200	4,551
26 - 35	300 L	712LLVD0300	4,870
36 - 50	500 L	712LLVD0500	5,470
51 - 120	1000 L	712LLVD0900	6,270



Electronic equipment

Number of Collector	Description	Reference	RP €
1 - 6	50 L	712LLVE0050	2,807
7 - 15	120 L	712LLVE0120	2,923
16 - 25	200 L	712LLVE0200	3,095
26 - 35	300 L	712LLVE0300	3,519
36 - 50	200 L	712LLVE0500	4,087
51 - 120	200 L	712LLVE1000	4,919

Filling systems

Equipment	Description	Reference	RP €
Manual electrical equipment	50 L	712LLEM050	1,056
	120 L	712LLEM120	1,135
Electronic equipment	50 L	712LLE0050	1,352
	120 L	712LLE0120	1,479
	200 L	712LLE0200	1,685
	300 L	712LLE0300	1,995
	500 L	712LLE0500	2,455
	1000 L	712LLE1000	3,286
	120 L	712LLD0120	2,854
Digital equipment	200 L	712LLD0200	3,055
	300 L	712LLD0300	3,343
	500 L	712LLD0500	3,822
	1000 L	712LLD1000	4,639



Accessories: VARIOUS

Heat transfer fluid

For primary circuits



Concentrated antifreeze "Fluidosol"	Reference	RP €
2 L	707CGF0002	16
5 L	707CGF0005	39
10 L	707CGF0010	77
25 L	707CGF0025	185
210 L	707CGF0210	1,514
1.000 L	707CGF1000	7,081

Expansion systems



Expansion vessel	Primary circuits						DHW	
	Solar		Heater		Intermediate			
	Reference	RP €	Reference	RP €	Reference	RP €	Reference	RP €
5 L	—		706VCR005	49	706VIN005	41	—	
8 L	706SOL008	50	706VCR008	51	706VIN008	43	706VAC008	62
12 L	706SOL012	57	706VCR012	54	706VIN012	47	706VAC011	69
18 L	706SOL018	62	706VCR018	60	706VIN018	52	706VAC018	75
25 L	706SOL025	72	706VCR025	74	706VIN024	61	706VAC024	96
35 L	706SOL035	214	706VCR035	114	706VIN035	98	706VAC035	258
50 L	706SOL050	249	706VCR050	167	706VIN050	129	706VAC050	309
80 L	706SOL080	314	706VCR080	244	—		706VAC080	376
100 L	706SOL100	443	706VCR100	335	706VIN100	224	706VAC100	505
140 L	—		706VCR140	402	—		706VAC150	1,135
200 L	706SOL220	894	706VCR200	515	706VIN200	507	706VAC200	1,393
250 L	—		706VCR250	587	—		—	
300 L	706SOL350	1.114	706VCR300	747	706VIN300	651	706VAC350	1,682
400 L	—		706VCR400	876	—		—	
500 L	706SOL500	1.564	706VCR500	1,414	—		706VAC500	2,207
600 L	—		706VCR600	1,660	—		—	
700 L	706SOL700	2.624	—		—		706VAC700	3,385
800 L	—		706VCR800	2,207	—		—	
Connection Set	704SETCGB	48	704SETCGB	48	—		704SETCGB	48

*For expansion vessels from 5l to 25l

Accessories: VARIOUS

Probes

Description	Ref.	RP €
Contact temperature probe PT1000	703SDPT1000C	28
Temperature probe PT1000	703SDPT1000	17

Energy meters

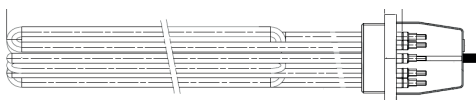


Flow	Diameter	N. of probes	Reference	RP €
1,5 m3/h	3/4"	2	703COWMZ015	747
2,5 m3/h	3/4"	2	703COWMZ025	747
3,5 m3/h	1"	2	703COWMZ035	1,146
6,0 m3/h	1"	2	703COWMZ060	1,146
10,0 m3/h	1 1/2"	2	703COWMZ100	1,536
15,0 m3/h	1 1/2"	2	703COWMZ150	2,131

Electrical kits



Models from 2 to 9 kW



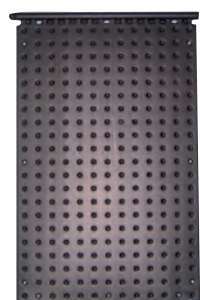
Models from 12 to 18 kW

Output	Voltage	Diameter	Reference	RP €
2kW	Single-phase 230 V	1 1/4"	711KFK2000M	90
3kW	Single-phase 230 V	1 1/4"	711KFK3000M	120
4,5kW	Three-phase 400 V	1 1/2"	711KFK4500T	360
6kW	Three-phase 400 V	1 1/2"	711KFK6000T	390
9kW	Three-phase 400 V	1 1/2"	711KFK9000T	475
12kW	Three-phase 400 V	2"	711KFK12000T	490
15kW	Three-phase 400 V	2"	711KFK15000T	525
18kW	Three-phase 400 V	2"	711KFK18000T	550

Swimming pools: PLASTIC SOLAR PANELS



- Swimming pools heating
- Extends the swimming season
- Economic and Eco-friendly



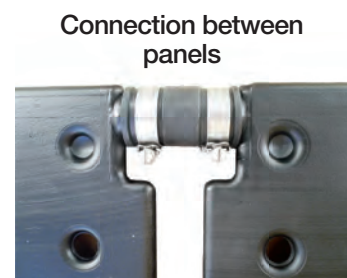
Termipool 1000



Termipool 1001



Termipool 1002



Connection between panels

Dimensions

Model	Termipool 1000	Termipool 1001	Termipool 1002
Base	820 mm	820 mm	820 mm
Length	1320 mm	1280 mm	1360 mm
Net Area	1,08 m ²	1,05 m ²	1,12 m ²

Characteristics

General technical characteristics	
Material	High-molecular-weight polyethylene
Flow	150 to 250 lts. m ² /h
Reduced pressure loss	Approx. 0.003 bar at 200 l/h/m ²
Weight	Approx. 6.9 kg/m ²
Operating weight	Capacity: Approx. 8 l/m ²
Test pressure	4.5 bars a TN
Operating pressure up to	1.2 bars a 40°C
Degree of efficiency up to	Approx. 80% (capacity up to 0,8 kWh/ m ²)
Average value	0.65 kWh/m ²
Temperature resistance	- 50°C to + 115°C

Models and Prices

Model	Description	Net Area	Reference	RP €
Termipool 1000	Plastic Solar panel for swimming pools	1,08 m ²	802CT1000	142
Termipool 1001		1,05 m ²	802CT1001	142
Termipool 1002		1,12 m ²	802CT1002	142



Swimming pools: CALCULATION

Method for approximately calculating the number of Termipool collectors required.

1° Select zone factor

$F_z = 0,75$ **Cold zone**

$F_z = 0,60$ **Mild zone**

$F_z = 0,45$ **Warm zone**

2° Select wind factor



$F_v = 1$ **Light** $v < 16$ km/h



$F_v = 1,3$ **Medium** $17 < v < 25$ km/h



$F_v = 1,55$ **Strong** $v > 26$ km/h

3° Select protection factor



$F_p = 0,75$ - **With thermal blanket**



$F_p = 1$ - **Without thermal blanket**

4° Calculation of number of Termipool units



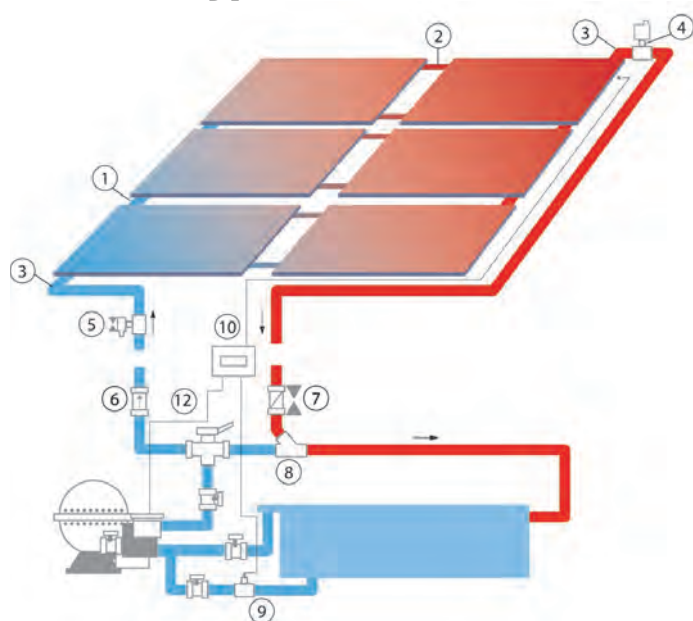
$N^{\circ} \text{Termipool} = m^2 \text{ pool} \times F_z \times F_v \times F_p$

This method provides an approximate calculation for guidance purposes.
Many factors go into calculating the heating required for a swimming pool;
with this method, it is possible to approximately calculate the number of panels required.
Contact Termicol's technical department for a more detailed study.

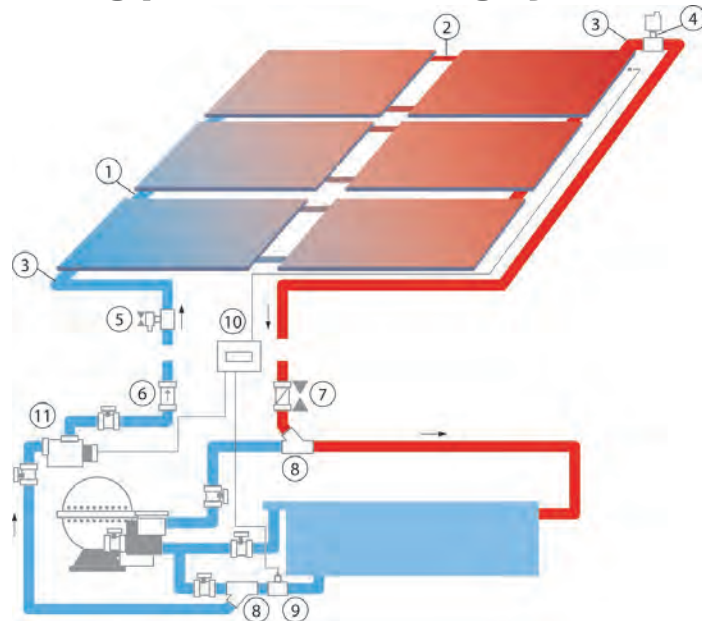


Swimming pools: INSTALLATION ACCESSORIES

Different types of connection for swimming pool solar heating systems



Operation with a purification pump via a motorized three-way valve with differential temperature regulation.



Operation with own pump and differential temperature regulation separate from the filter circuit.

Number	Description	Reference Termicol	RP €
1	Stainless steel coupling and clamps for connections ø40	802M&AG40	9
2	Stainless steel coupling and clamps for connections ø25	802M&AP25	8
-	Flat roof (0°) assembly set 0°	802SMC0	245
-	Tiled roof assembly set	802SMC1	340
3	Panel field and pipe connection set Ø40	803J1C40	21
4	Pipe purging set ø40	803J2P40	31
5	Pipe draining set ø40	803J3V40	11
6	EPDM check valve ø40	804VAR40	21
7	PE/EPDM ball valve ø40	804VBL40	16
8	Swimming pool circuit connection set ø40-ø50	803J4I6350	10
9	Thermowell set for swimming pool sensor ø50	803J5V50	24
10	Termipool Easy control	805TEC230	294
11	Swimming pool pump 1/4 HP for H=7m Q=7m3/h	805BSC025	395
12	3-way manual valve	804V3VM50	83



40 mm clamp



Set for flat roofs 0°



25 mm clamp

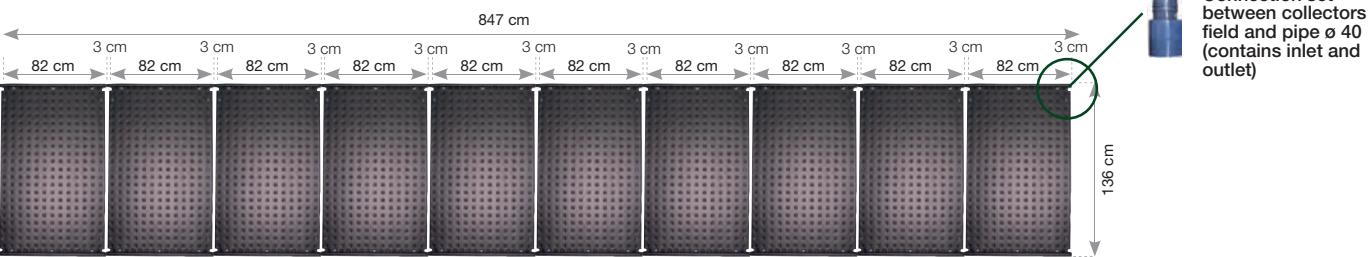


Sloped roof assembly set

Swimming pools: INSTALLATION ACCESSORIES

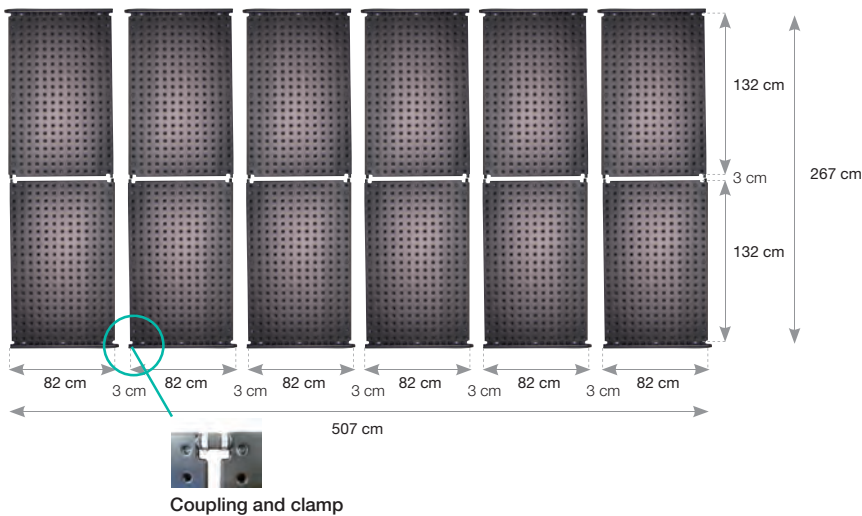
Configuration 1.

10 Termipool 1002 Panels area: 11,2 m²



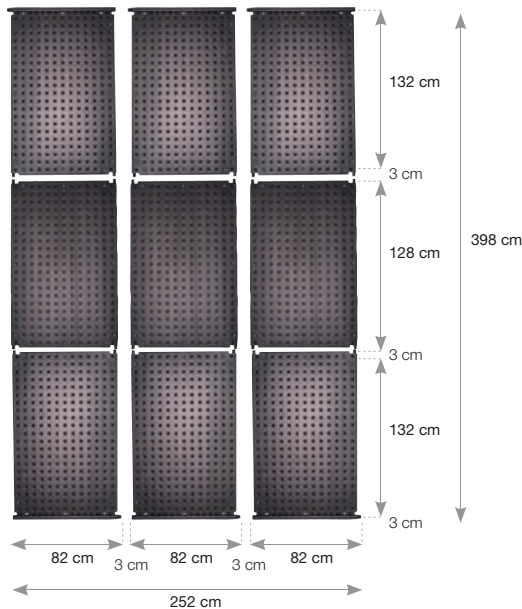
Configuration 3.

12 Termipool 1000
Panels area: 12,96 m²



Configuration 2.

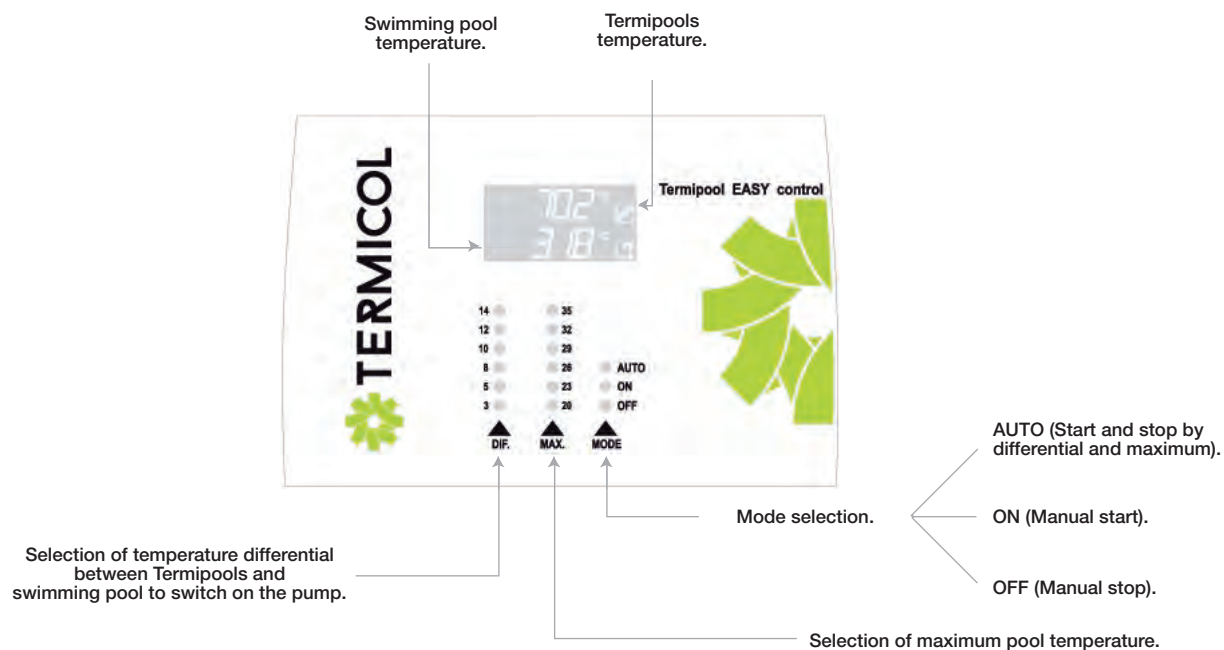
6 Termipool 1000 y 3 termipool 1001
Panels area: 9,63 m²



Version	Accessories
1	20 Stainless steel couplings and clamps for Ø40 connections
	1 Panel field and Ø40 pipe connection set
	1 Roof assembly set
2	6 Stainless steel couplings and clamps for Ø40 connections
	12 Stainless steel couplings and clamps for Ø25 connections
	1 Panel field and Ø40 pipe connection set
	1 Roof assembly set
3	12 stainless steel couplings and clamps for Ø40 connections
	12 Stainless steel couplings and clamps for Ø25 connections
	1 Panel field and Ø40 pipe connection set
	1 Roof assembly set

Swimming pools: CONTROLLING AND PUMPING

Control system



Description		Reference	RP €
Termipool Easy Control	3 Outlets of relay of 10 Amps	805TEC230	294

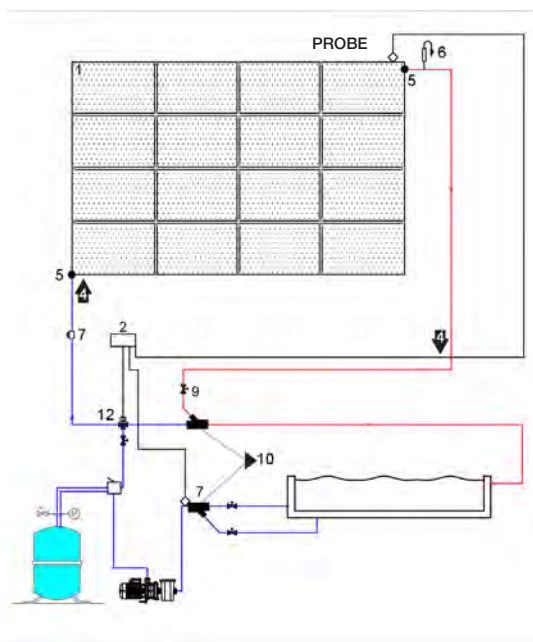
Pumping systems

Reference		805BSC025	805BSC033	805BSC050	805BSC075
Number of panels	Flow	H _{max} (m.c.a.)	H _{max} (m.c.a.)	H _{max} (m.c.a.)	H _{max} (m.c.a.)
10	2 m³/h	11	12	13	15
15	3 m³/h	10,5	11,5	12,7	14,5
20	4 m³/h	10	11	12,5	14
25	5 m³/h	9	10,5	12	13,5
30	6 m³/h	8,5	10	11,5	13
35	7 m³/h	7	9	11	12,5
40	8 m³/h		8,5	10,5	12
45	9 m³/h		7,5	9	11
50	10 m³/h			8,5	10,5
Power (kW - CV)		0,18 kW - 1/4 CV	0,25 kW - 1/3 CV	0,40 kW - 1/2 CV	0,55 kW - 3/4 CV
RP (€)		395	405	430	440



Swimming pools: KITS

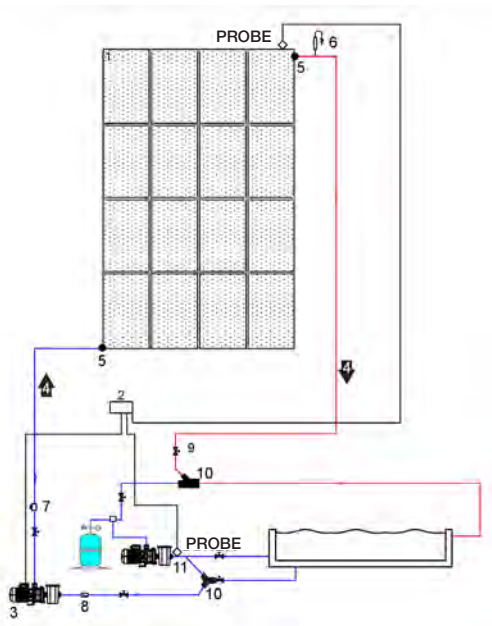
Pool area	Number Termipool	Roof area	Terrace type	Reference	RP €
18 m ²	12 Termipool 1000	x = 5,2 ; y = 2,7	Flat terrace	801K1806X2S0	2,462
			Tile roof	801K1806X2S1	2,641
24 m ²	8 Termipool 1000 8 Termipool 1001	x = 3,5 ; y = 5,3	Flat terrace	801K2404X4S0	3,187
			Tile roof	801K2404X4S1	3,262
32 m ²	14 Termipool 1000 7 Termipool 1001	x = 6,1 ; y = 4	Flat terrace	801K3207X3S0	3,963
			Tile roof	801K3207X3S1	4,038



	List of Materials	Units
1	Collectors, connections, fixations	N
2	Termipool EASY Control	1
3	Pool Solar pump	1
4	Feeding and supply pipes D40*	...
5	Connection set to the pipeline	1
6	Air vent set	1
7	Emptying set	1
8	Anti-return valve	1
9	Ball valve (blocking)	2
10	Inserting housing for pool probe	2
11	Inserting housing for pool probe	1
12	3 Way valve*	

* Not supplied with the kit

Pool area	Number Termipool	Roof area	Terrace type	Reference	RP €
18 m ²	12 Termipool 1000	x = 5,2 ; y = 2,7	Flat terrace	801K1806X2B0	2,919
			Tile roof	801K1806X2B1	2,999
24 m ²	8 Termipool 1000 8 Termipool 1001	x = 3,5 ; y = 5,3	Flat terrace	801K2404X4B0	3,540
			Tile roof	801K2404X4B1	3,615
32 m ²	14 Termipool 1000 7 Termipool 1001	x = 6,1 ; y = 4	Flat terrace	801K3207X3B0	4,317
			Tile roof	801K3207X3B1	4,392



	List of Materials	Units
1	Collectors, connections, fixations	N
2	Termipool EASY Control	1
3	Pool Solar pump	1
4	Pipe go & return D40***	...
5	Connection set to the pipeline	1
6	Air vent set	1
7	Emptying set	1
8	Anti-return valve	1
9	Ball valve (brake)	2
10	Inserting housing for pool probe	2
11	Inserting housing for pool probe	1

* Not supplied with the kit

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Termicol and the client expressly submit to the jurisdiction of the Courts and Tribunals of Seville, waiving any other jurisdiction or jurisdiction.

Orders

The customer's order constitutes acceptance to these General Conditions of Sale. They will only be accepted in writing and must be sent to the pedidos@termicol.com address.

Once received, Termicol will review the terms of the same, considering itself firm if it complies with the general conditions and the particulars agreed between the parties. In case of discrepancies, Termicol will send the customer an Order Confirmation correcting them, which must be accepted by the customer for the order to be considered firm, or if preferred, replaced with a new order with the correct conditions.

Once the order is firm, the customer is obliged to receive the goods and to pay their full amount, not being able to unilaterally cancel the same, which would be considered as a contractual breach. In such case, Termicol Energia Solar S.L. may demand the fulfilment and full payment of the order, with compensation for the damages that said breach would have caused. In no case, Termicol will issue an order, even if firm, if the customer has balances due on the day scheduled for shipment.

The customer may request, in writing, the cancellation or modification of a firm order. Termicol will analyze the request and may reject or accept it under certain conditions, which will be sent to the customer to accept, before proceeding to manage the cancellation or modification of the order. In any case, Termicol reserves the right not to accept cancellations of orders when, in the case of individual manufacturing products, they are already in the process of production or when the shipment of the same has been made.

Prices

R.P prices factory-set, with no taxes included. Consult discounts with the sales department.

Termicol reserves the right to modify prices by notifying well in advance, affecting orders that are not firm before the entry into force of the new rates. In case of price correction by errata or failure in our order management system, it reserves the right to re-invoice the products. The application of the current rate will always be linked to the date of order delivery and never to the receipt of the same.

For small orders, packaging costs could be invoiced.

Supply

The delivery courses contained in our order confirmations will be indicative, depending on the carrier time of delivery of the same.

Failure to comply with the delivery time will in no case cause any claim by the customer. If for the convenience of the customer, the delivery of the goods should be delayed, you must notify Termicol in writing. If the delay in delivery is accepted, after its manufacture has occurred, Termicol shall be entitled to invoice the material in accordance with the deliveries initially agreed.

If all or part of the material does not arrive under the conditions required by the customer, the customer may reject it provided that he/she follows the following steps:

1. Reflect the detected deficiency in the carrier's delivery note.
2. Photograph the merchandise.

3. Immediately inform Termicol by sending photos and copy of the carrier's delivery note.

4. Keeping the goods until the insurance company reports the need or not of inspection.

Once the material has been accepted unreservedly, Termicol is exempt, as the carrier, from any liability for damages that could be observed later, so it is essential to complete review the material upon receipt of the same.

The customer must ensure the accessibility of the transport to the unloading point, not being responsible for cost overruns or delays due to access difficulties. Crane contracts are the responsibility of the customer, so Termicol will not be liable for any cost overruns that may cause possible delays in deliveries.

The risk of loss and/or damage is transmitted to the customer from the moment the shipment of the goods occurs.

Payment

The terms of payment, form and conditions will be those agreed between Termicol and the customer and must be indicated in order to be firm. Under no circumstances may they contravene the provisions of the law of delinquency 15/2010.

In case of delay in payment or non-payment, the customer agrees that Termicol applies the legal interest of delay increased by two points, in addition to the commissions and expenses if any.

Failure to pay an invoice, or part of it, will mean the immediate cessation of shipment of pending goods.

As long as the customer has not fully paid the price and all amounts due as a result of the sale, the product supplied shall be deemed the property of Termicol, with all inherent rights.

Devolution

Goods devolution will not be accepted, but for exclusions upon prior authorization by Termicol and in accordance with its conditions.

The customer must send Termicol his request for return in writing, indicating the reason for the same. If accepted, Termicol will send the customer the return conditions, which in any case will include:

-Shipping of the goods by the customer.

-A 15% surcharge for management, handling, inspection and devolution costs.

Once the materials are received and provided that product and packaging are in the same initial conditions of departure, Termicol will issue a credit-note, discounting the surcharge and the cost of the one-way carrier if Termicol bore it.

Any return of material received that does not meet the conditions indicated will be rejected.



TERMICOL

Solar Thermal Manufacturers



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