

DualSun Catalog

July 2023 catalog, applicable for all orders placed from July 1, 2023, deliverable within a maximum of 6 months

PANELS & ACCESSORIES

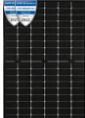
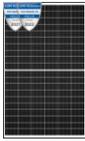
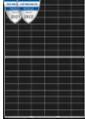


SPRING & FLASH Panels

SPRING & FLASH 425 panels

Visual	Reference	Designation	Description	Retail Price (EXW)	
	220704285	SPRING 425 Shingle Black Isolated Datasheet	- Electric power (Wp) 425 - Dimensions (cm) 109.6x189.9x3.0 -Weight (kg) 28.7	810 €	D
	220704286	SPRING 425 Shingle Black Non-insulated Datasheet	- Electric power (Wp) 425 - Dimensions (cm) 109.6x189.9x3.0 -Weight (kg) 29.7	761 €	D
	220705291	FLASH 425 Shingle Black Datasheet	- Electric power (Wp) 425 - Dimensions (cm) 109.6x189.9x3.0 -Weight (kg) 21.8	376 €	Fb

FLASH PANELS

Image	Reference	Designation	Description	Retail Price (EXW)	
	211103481	FLASH 375 Half-Cut Black Datasheet	-Electric power (Wp) 375 -Dimensions (cm) 175.5 x 103.8 x 3.5 -Weight (kg) 21,0	279 €	Fb
	230509383	FLASH 425 Half-Cut Glass- Glass Topcon Datasheet	-Electric power (Wp) 425 -Dimensions (cm) 172.2 x 113.4 x 3.0 -Weight (kg) 24,5	309 €	Fb
	220525257	FLASH 380 Half-Cut White Datasheet	-Electric power (Wp) 380 -Dimensions (cm) 175.5 x 103.8 x 3.5 -Weight (kg) 21,0	€244*	Fg*
	220726301	FLASH 415 Half-Cut White Datasheet	-Electric power (Wp) 410 -Dimensions (cm) 172.2 x 113.4 x 3.0 -Weight (kg) 20,0	€260*	Fg*
	210219424	FLASH 500 Half-Cut Black Datasheet	-Electric power (Wp) 500 -Dimensions (cm) 209.4 x 113.4 x 3.5 -Weight (kg) 26,0	370 €	Fb
	221214346	FLASH 410 Half-Cut Glass- Glass Datasheet	-Electric power (Wp) 410 -Dimensions (cm) 172.2 x 113.4 x 3.0 -Weight (kg) 25,1	€266*	Fg*

*For category Fg products: public price given as an indication, to be validated when ordering. Minimum order of 1 MWp. Average delivery time 4 months.

HYDRAULIC CONNECTION ACCESSORIES

Image	Reference	Designation	Description	Retail Price (EXW)	
	230113353	DualSun Essential Kit (incl. 5.4mm probe)	<p>This kit includes the essentials necessary for the successful completion of a DualSun installation. Kit composition:</p> <ul style="list-style-type: none"> - Panel probe - SPRING installation and maintenance manual - 4 white seal for connections - Commissioning report - SPRING fitting removal tool 	€ 79	A
	220824308	DN15 - Spring flexible hose connector - Portrait - 1160	<p>This flexible provides the hydraulic connection of two DualSun Spring panels placed in portrait. 2 are required per panel:</p> <ul style="list-style-type: none"> - EPDM flexible hose (inside x outside dimensions: 15x21mm) - Polymer injected fittings located every 116cm - Delivery in reels with 32 links 	34 €	D
	220824307	DN15 - Spring flexible hose connector - Landscape - 1960	<p>This flexible provides the hydraulic connection of two DualSun Spring panels placed in the landscape. 2 are required per panel:</p> <ul style="list-style-type: none"> - EPDM flexible hose (inside x outside dimensions: 15x21mm) - Polymer injected fittings located every 196cm - Delivery in reels with 32 links 	38 €	D
	200040697	DN15 - SPRING inlet / outlet fittings kit - M3 / 4	<p>One input-output kit per row of panels. Kit composition:</p> <ul style="list-style-type: none"> - 2 x Fixed barbed fittings 15 mm - M3/4 - 2 x fixed plugged 15mm barbed fittings - 4 x Stainless steel hose clamps - 2 x JFHT4 high temperature flat fiber seals - 24 x DN15 hydraulic connection fixing hook on panel 	€ 59	A
	190226013	DN15 - SPRING connection splice kit	<p>This splicing kit makes it possible to connect two drops of SPRING DN15 links between them. Kit composition:</p> <ul style="list-style-type: none"> - 1 double fluted junction - 2 stainless steel clamps diameter 22-25 	€ 30	A
	201118398	DN15 - EPDM connection without fitting - 30 meters		196 €	A
	220824309	DN26 - Spring flexible hose connector - Portrait - 1160	<p>This flexible provides the hydraulic connection of two DualSun Spring panels placed in portrait. 2 are required per panel:</p> <ul style="list-style-type: none"> - EPDM flexible hose (inside x outside dimensions: 26x34mm) - Polymeric injected fittings located every 121cm - Delivery in reels with 32 links 	48 €	D
	190424100	DN26 - SPRING inlet / outlet compression fittings kit - Dext 32 / 40m	<p>Kit for connecting the inlet and outlet of the lines to the piping to the swimming pool. Consists of :</p> <ul style="list-style-type: none"> - 2 x Dext 32 compression cap - 2 x Dext 32/40 compression sleeve - 24 x DN hydraulic connection fixing hook on panel 	149 €	A
	190308078	DN26 - SPRING inlet / outlet fittings kit - M1	<p>One input-output kit per row of panels. Kit composition:</p> <ul style="list-style-type: none"> - 4 x Fixed barb fittings 26 mm - M1 - 4 x Stainless steel hose clamps - 2 x M1 " brass plug - 4 x JFHT5 high temperature flat fiber gasket - 24 x DN hydraulic connection fixing hook on panel 	198 €	A
	170123756	DN26 - 32/32 mm compression splicing kit	<p>This splicing kit allows you to connect two offcuts of Spring DN26 links between them. It is used in contact with chlorinated water. Kit composition:</p> <ul style="list-style-type: none"> - 1 x Dext 32/32 compression sleeve 	11 €	A

PACKAGING



IMPORTANT

Packaging: The number of SPRING and FLASH panels per pallet varies according to the reference chosen, according to the table below.

Reference	Designation	Panels per pallet	Pallet dimensions (LxWxH, mm)	Pallet weight (kg)	Panels per 40'HC container
220704285	SPRING 425 Shingle Black Isolated	32	1916x1125x1230	970	608 + accessories*
220704286	SPRING 425 Shingle Black Non-insulated	32		608 + accessories*	
220705291	FLASH 425 Shingle Black	36		825	864
211103481	FLASH 375 Half-Cut Black	31	1805 x 1130 x 1175	700	806
220525257	FLASH 380 Half-Cut White	31			
230509383	FLASH 425 Half-Cut Glass-Glass Topcon	36	1770x1140x1250	934	936
230329370	FLASH 415 Half-Cut White	36	1760x1140x1250	770	936
210219424	FLASH 500 Half-Cut Black	31	2145x1140x1250	806	682
221214346	FLASH 410 Half-Cut Glass-Glass	36	1770x1140x1250	950	936

* The number of SPRING panels per container is lower than the number of FLASH panels. This is due to the space occupied by the hydraulic accessories (links, hydraulic connection kits, etc.). The optimization of the filling of a container requires preferentially choosing a "High Cube" in order to hold the pallets stacked in pairs.

Reference	Designation	Bindings by cardboard	Box dimensions (LxWxH, mm)	Box weight (kg)	Connections by container 40'HC
220824308	DN15 - Spring flexible hose connector - Portrait - 1160	32	600x600x300	10	1216 + panels
220824307	DN15 - Spring flexible hose connector - Landscape - 1960	32	700x700x300	12	1216 + panels
220824309	DN26 - Spring flexible hose connector - Portrait - 1160	32	700x700x300	15	1216 + panels

Pallet easel preparation costs

Visual	Reference	Designation	Description	Public price excluding VAT (EXW)
	180611834	Pallet preparation costs	FLASH: 1-10 panels per easel pallet SPRING: 1 - 8 panels per easel pallet DIMENSIONS: 1000x1300x1900 mm	€ 75



IMPORTANT

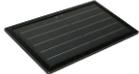
It is necessary for some projects to purchase a quantity of SPRING or FLASH panels which does not correspond to a whole number of complete pallets. In this case, charges apply per non-standard pallet to be prepared.

"SUPPORTS" PRODUCTS**Supports for installation**

Image	Reference	Designation	Description	Retail Price (EXW)	
	230113352	DualSun Spring Temperature Probe - 5.4mm	Temperature probe, 1.0 m silicone cable, 5.4 mm diameter stainless steel socket and 40 mm length	48 €	A
	190307060	SPRING fitting removal tool	Steel tool for quick disassembly of DualSun SPRING hydraulic connections.	20 €	A
	200150684	DualSun thermal commissioning - pressurized (mainland France)	Commissioning of solar water heating installations, swimming pools according to precise specifications validated upstream with the DualSun teams. Travel expenses not included.	€ 970	A

Commercial supports

Image	Reference	Designation	Description	Retail Price (EXW)	
	220725300	DualSun construction panel	- Site panel in Akylux 3.5 mm, dimensions 120 x 80 cm	49 €	M
	220425241	DualSun Cap	- Made in France cap with embroidered DualSun logo	34 €	M
	221124342	T-shirt M - DualSun Chocolate wafer	- Made in France t-shirt with DualSun logo	22 €	M
	221124341	T-shirt L - DualSun Chocolate bar			
	221124340	XL T-shirt - DualSun Chocolate Bar			
	220118001	Angled exposure foot	- Exposure foot for panel, with DualSun logo, compatible with SPRING and FLASH panels of all powers	357 €	M
	400220441	Vertical exhibition stand	- Aluminum support, not compatible with the FLASH 375 Half-Cut Black panel	94 €	M
	220203191	SPRING repositionable stickers kit	This kit is composed of: - a DualSun logo sticker - a water + electricity hexagon sticker - a DualBoost DualHeat sticker - a Made in France sticker	60 €	M
	230105350	FLASH repositionable stickers kit	This kit is composed of: - a DualSun logo sticker - a hexagon electricity sticker	34 €	M

Image	Reference	Designation	Description	Retail Price (EXW)	
	200114303	Roll-up SPRING	- DualSun Spring Kakemono - 85 x 200cm	121 €	M
	220203188	Roll-up FLASH	- DualSun Flash Kakemono - 85 x 200cm	121 €	M
	230104349	SPRING Shingle Black (MINI)	- DualSun SPRING 2-cell "shingle" panel - Commercial use - Nonfunctional	74 €	M
	221028323	FLASH Shingle Black (MINI)	- DualSun FLASH 2-cell "shingle" panel - Commercial use - Nonfunctional	30 €	M
	221028324	FLASH Half-Cut Black (MINI)	- DualSun FLASH 2-cell "half-cut" panel - Commercial use - Nonfunctional	30 €	M

SYSTEMS



DOMESTIC HOT WATER (DHW)

Image	Reference	Designation	Description	Retail Price (EXW)	
	190613136	P - Complete solar station with DualSun SLL controller	<p>This DualSun station is delivered with:</p> <ul style="list-style-type: none"> - A DualSun SLL or CS/PLUS regulation, specifically configured for DualSun panels in the Solar water heater application. It offers the possibility of controlling a heat pump, boiler or resistor type backup to optimize solar production. It also makes it possible to manage a discharge on a second tank such as a swimming pool and remains compatible with the T-Box DualSun KM2 communication module. - Pre-assembled 3 bar safety valve x1 - Wilo PARA ST15 / 7-50 pump - PT1000 / FRP6 thermowell probe x1 - User manual x1 - Technical sheet x1 	1281 €	A
	210330432	IN2516 - Stainless steel twin pipe DN16 - 25 m pipe coil (incl. 3/4 fitting kit)	<p>Double corrugated stainless steel pipes separated, insulated with 13mm thick high temperature elastomer and coated with UV resistant PE protective foil, equipped with cable for temperature sensor. Supplied with a connection bag for the 4 female sorties outlets:</p> <ul style="list-style-type: none"> - 4 3/4 "union nuts - 4 clamping washers - 4 high temperature seals - 1 3/4 "sleeve & 1 stainless steel washer 	742 €	A
	210330433	P - 3/4 "fitting kit for stainless steel twin pipe DN16	<p>Connection bag for 4 female 3/4 outlets:</p> <ul style="list-style-type: none"> - 4 3/4 "union nuts - 4 clamping washers - 4 high temperature seals - 1 3/4 "sleeve & 1 stainless steel washer 	45 €	A
	190226010	MC5020 - Multilayer pipe coil 50 m	<ul style="list-style-type: none"> - Multilayer pipe 16 x 2 mm, insulation 9mm - 50 m pipe coil 	€ 309	A
	190228031	MC2526 - Multilayer pipe coil - 25 m - 10 mm insulation - red	<ul style="list-style-type: none"> - Multilayer pipe 20 x 2 mm, insulation 9mm - 50 m pipe coil 	425 €	A
	190228032	MC2526 - Multilayer pipe coil - 25 m - 6 mm insulation - blue	<ul style="list-style-type: none"> - Multilayer insulated pipe 26 x 3 mm - 25 m pipe coil. 	425 €	A
	201112390	P - 20mm crimp fittings and probe cable kit - MC5020 + complements	<ul style="list-style-type: none"> - Multilayer pipe 26 x 3 mm, insulation 6 mm - 1 x 3/4 "F plug - 6 x Straight fitting 20 or 26 mm x 3/4 "FF - 6 x male - male 3/4 " - 2 x - 90 ° elbow crimp 20 or 26 mm x 3/4 "FF free nut 	€ 249	A
	180315767	P - 26 mm crimp fittings and probe cable kit - MC5026	<ul style="list-style-type: none"> - 1 x Probe cable 50 m - 1 High Temperature Flat Fiber Seal JFHT4 <p>COMPLEMENTS IN THE MC5020 KIT:</p> <ul style="list-style-type: none"> - 4 Crimp elbow 20 mm - 1 x diagrams "P - 20 mm crimp fittings and probe cable kit - MC5020 	€ 227	A
	200925360	P - Thermal connection kit for additional line - MC5020	<ul style="list-style-type: none"> - 6 x Straight press fitting 20 mm x 3/4 "FF - 2 x - 90 ° elbow crimp 20 or 26 mm x 3/4 "FF free nut - 2 x Tee to be crimped on 20 or 26 mm multilayer 	95 €	A
	180625843	P - Thermal connection kit for additional line - MC5026	<ul style="list-style-type: none"> - 1 x Diagram "P - Kit of thermal connections for additional line - MC5020 / 26" 	104 €	A

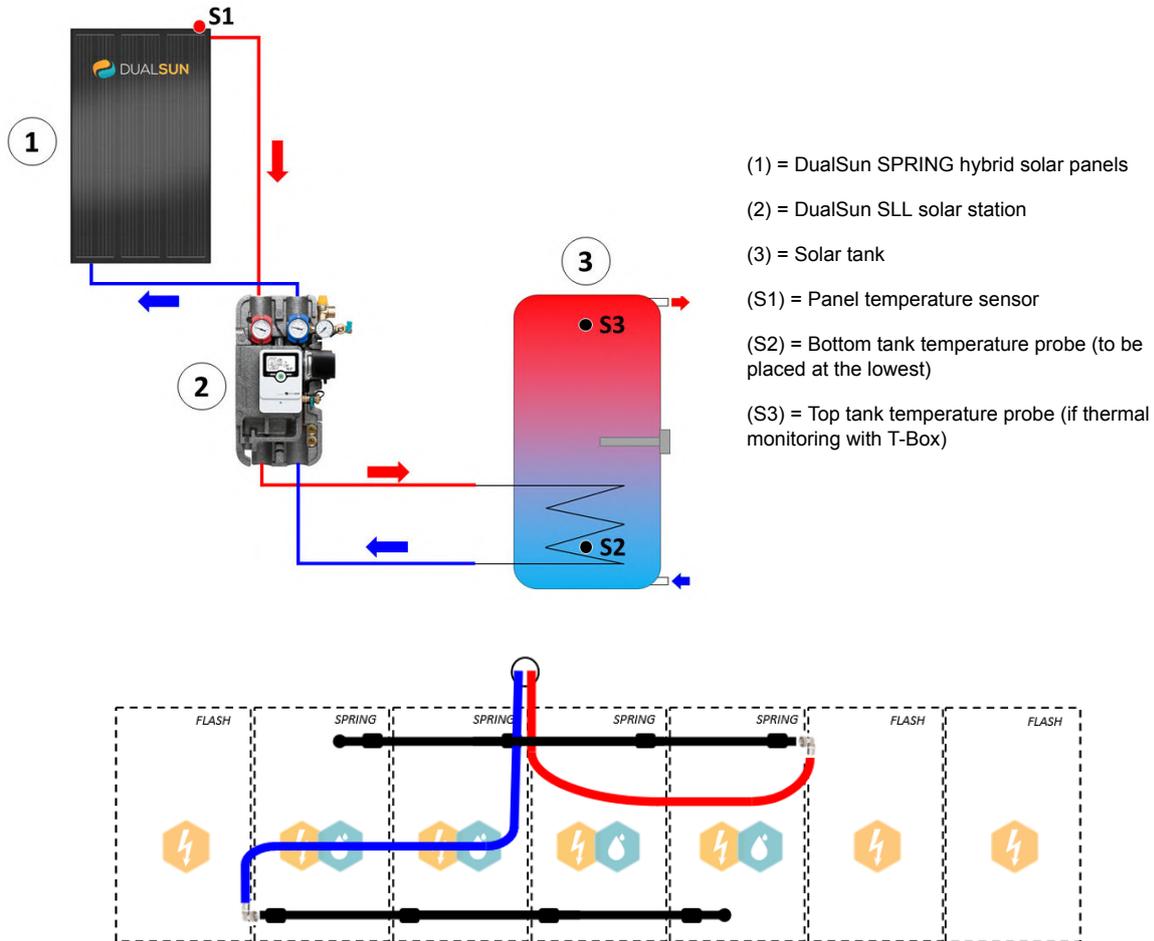
EXAMPLE OF A DOMESTIC HOT WATER (DHW) PROJECT

A pressurized solar thermal installation is a solar process involved in, partly, preheating and covering the domestic hot water needs of a building or the heating needs of a swimming pool, etc.

In a pressurized solar thermal system, the solar circuit is a closed hydraulic loop.

The installation is made up of three main parts, as shown in the schematic diagram below: the solar collectors, the solar station, the thermal transfer device (domestic hot water tank).

[SPRING® installation, use and maintenance instructions](#)



EXAMPLE OF EQUIPMENT FOR A 3KW_p DOMESTIC HOT WATER PROJECT

Reference	Designation	Units	Retail Price (EXW)	
220704285	SPRING 425 Shingle Black Isolated - Datasheet	4	810 €	D
220705291	FLASH 425 Shingle Black Datasheet	3	376 €	D
220824308	DualSun Essential Kit (incl. 5.4mm probe)	1	€ 79	A
220824308	DN15 - Spring flexible hose connector - Portrait - 1160	8	34 €	D
200040697	DN15 - SPRING inlet / outlet fittings kit - M3 / 4	1	€ 59	A
190613136	P - Complete solar station with DualSun SLL controller	1	1281 €	A
170801611	Solar antifreeze - MPG20	3	182 €	A
Multi-layer option				
190226010	MC5020 - Multilayer pipe coil 50 m	1	€ 309	A
201112390	P - 20mm crimp fittings and probe cable kit - MC5020 + complements	1	€ 249	A
Two-pipe option				
201112390	IN2516 - Stainless steel twin pipe DN16 - 25 m pipe coil (incl. 3/4 fitting kit)	1	742 €	A
210330433	P - 3/4 "fitting kit for stainless steel twin pipe DN16	1	45 €	A

DIRECT POOL HEATING & USEFUL ACCESSORIES

Image	Reference	Designation	Description	Retail Price (EXW)	
	191008267	DualSun 3WV Solar pool heating kit	<p>This kit is necessary for the implementation of an automatic transfer group kit with motorized 3-way valve for the solar heating system of individual swimming pools. It is compulsory for each open circuit swimming pool installation. It consists:</p> <ul style="list-style-type: none"> - 3-way valve compatible with chlorinated water x1 - Tee 50/50/50 EQUAL 90 ° PVC pressure Female glue x3 - DN 40 shut-off and adjustment valve (PVC Pressure female to glue) x3 - Reduction 50/40 x4 - Non-return valve in 40 x1 - Non-return valve in 50 x1 - Swimming pool heating regulation + 1 probe x1 - Dext40 flowmeter - SP x1 - Pool leaflet documentation x1 	1718 €	A
	190424103	DualSun 3WV solar emptying and rinsing kit	<p>This kit is necessary for the implementation of the emptying and rinsing of a DualSun swimming pool heating installation. It is mandatory in areas where there is a known risk of frost. It consists:</p> <ul style="list-style-type: none"> - DualSun Solar Pool Aerator x1 - 50/40 PVC pressure reduction to glue x2 - Tee 50/50/50 EQUAL 90 ° PVC pressure Female to glue x1 - Tee 40/40/40 EQUAL 90 ° PVC pressure Female to glue x1 - Reduction 40/32 PVC pressure to glue x1 - PVC pressure drain and rinsing valve 32 x1 	€ 140	A
	190326083	Solar pool aerator	<p>Pool aerator allowing automatic emptying of the system</p>	€ 47	A
	171214666	Dext40 flowmeter - SP	<p>Swimming pool flowmeter, external diameter 40 mm, to be glued</p>	34 €	A

**NOTE**

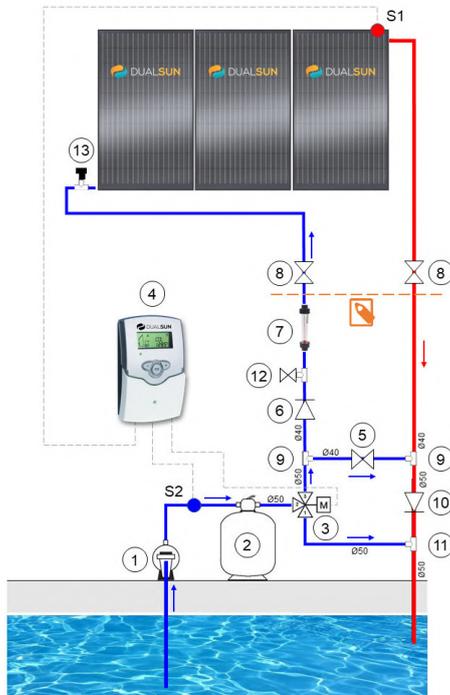
The Spring panel is only self-draining in portrait mode. It is not possible to perform a live swimming pool installation in landscape mode.

EXAMPLE OF A DIRECT POOL PROJECT

This kit allows the connection of DualSun SPRING solar panels in bypass on the swimming pool filtration circuit, without additional pump, by means of a BY-PASS system by motorized 3-way valve.

When there is sufficient sunlight, part of the filtration flow of the swimming pool water is diverted to the solar panels in order to recover the calories and return them to the pool.

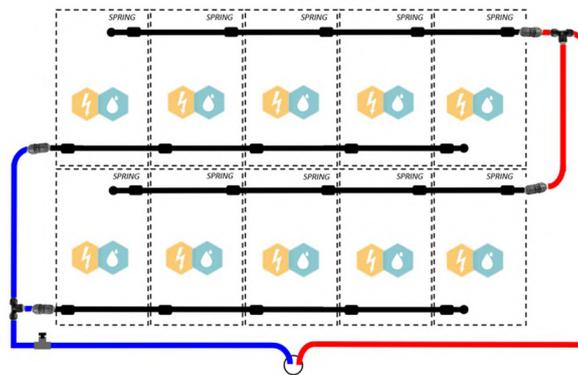
[SPRING® Pool installation instructions](#)



- (1) = Pool filtration pump
- (2) = Sand filter
- (3) = Motorized 3-way valve
- (4) = DualSun BS/2 solar controller
- (5) = Bypass adjustment valve Ø40
- (6) = Non-return valve Ø40
- (7) = Ø40 flowmeter
- (8) = Isolation valve Ø40
- (9) = T 50/40/40
- (10) = Non-return valve Ø50
- (11) = T 50/50/50
- (S1) = Panel temperature sensor
- (S2) = Swimming pool temperature sensor

Drain kit (only for frost risk areas):

- (12) = T 40/40/40 + Valve Ø32 + Threaded end 3/4 "
- (13) = T 50/40/40 + Solar ventilator



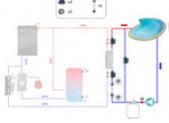
The DualSun swimming pool heating kit is made up of the elements marked (3) to (11) in the diagram above.

EXAMPLE OF EQUIPMENT FOR A DIRECT SWIMMING POOL PROJECT

Reference	Designation	Amount	Public price excluding VAT (EXW)	
220704286	SPRING 425 Shingle Black Non-insulated Datasheet	10	761 €	D
230113353	DualSun Essential Kit (incl. 5.4mm probe)	1	€ 79	A
220824309	DN26 - Spring flexible hose connector - Portrait - 1160	20	48 €	D
190424100	DN26 - SPRING inlet / outlet compression fittings kit - Dext 32 / 40m	2	149 €	A
191008267	DualSun 3WV Solar pool heating kit	1	1916 €	A
190424103	DualSun 3WV solar emptying and rinsing kit	1	€ 140	A

POOL DISCHARGE & OTHER USEFUL ACCESSORIES

Additional accessories for the pool discharge

Image	Reference	Designation	Description	Retail Price (EXW)	
	180517818	P - Pool discharge accessories kit	<p><i>This kit is necessary for carrying out a swimming pool discharge on a pressurized loop. It comprises:</i></p> <ul style="list-style-type: none"> - 1 x Grundfos UPM3 Solar 25-75 pump unit (DN25 flowmeter 5-40 L / min, Drain / fill unit, 200 mmWG non-return valve, integrated in the thermometer valve, 6 bar safety valve, Insulating shell, Plate with DualSun logo) x1 - Surface-mounted probe FKP23 with thermal conductive paste dose x1 - steel 316L full band clamp, 9mm wide, for pipe diam. 50mm (40 to 60mm) x1 - Laminated nameplate attached to the pressure gauge x1 - 3 / 4 "female plug x1 - Seal 3/4 " x1 - Reduction fitting 1 "M to 3/4" M x1 - MC DN25 crimp fitting - free nut 3/4 "F x1 - Ball valve 3/4 "M / M PN 25 x1 	1534 €	A
	190617143	P - Pool discharge bypass kit	<p><i>This assembly enables the bypass of the swimming pool heater exchanger on the secondary side. Its role is to divert part of the filtration flow to optimize the heat exchange while preserving a sufficient filtration flow. It's made of:</i></p> <ul style="list-style-type: none"> - Dext40 flowmeter - SP x1 - PVC pressure end male thread 1"1/4 x1 - PVC male threaded pressure end 1"1/4 x1 - Shut-off and adjustment valve DN50 x 3 - PVC pressure tee 50/50/50 x2 - Pool discharge instructions x1 	€ 199	A
			<p><i>To discharge onto the pool, a plate heat exchanger is also required, preferably in titanium, although some stainless steel may be suitable. Its capacity derives directly from the number of DualSun panels installed multiplied by their thermal power at 25 ° C. Refer to the power curves on page 2 of the catalog or to the detailed instructions for more elements.</i></p>		

Other useful accessories

Image	Reference	Designation	Description	Retail Price (EXW)	
	170801611	Solar antifreeze - MPG20	20 liters of ready-to-use solar antifreeze, designed for a temperature of -23 ° C (40% glycol).	182 €	A
	180423805	Rinsing and filling station	<p>Technical characteristics:</p> <ul style="list-style-type: none"> - Fluid: water, water / glycol mixtures - Dimensions: 1000 × 400 × 530 mm - Weight: 21 kg - Can: 30 liters, in PE, with filter and graduated scale to see the filling level - Flow rate: 5-47 l / min 	1750 €	A
	190725154	DualSun SLL regulation	- The DualSun SLL control is specifically configured for DualSun panels in the solar water heater application. It offers the possibility of controlling a heat pump, boiler or resistance type back-up to optimize solar production. It also makes it possible to manage a discharge on a second tank such as a swimming pool and remains compatible with the T-Box DualSun KM2 communication module.	322 €	A
	201214404	TH60 thermo-well	Brass / nickel plated copper	23 €	A
	190613135	DualSun KM2 T-Box	DualSun thermal datalogger offering remote monitoring and calorimetric balance.	463 €	A

OLD REFERENCES



SPRING & FLASH 375 Panels (2021-2022)

Visual	Reference	Designation	Description	Public price excl. VAT (EXW)		
	201102376	SPRING 375 Shingle Black Isolated Technical sheet	- Electrical power (Wp) - Power. thermal (Wth/m2) - Measurements (cm) - Empty / full weight (kg)	375 312 at 50°C 114 x 164.6 x 3.5 25,1 / 30,1	809 €	D
	201102380	SPRING 375 Shingle Black Non-insulated Technical sheet	- Electrical power (Wp) - Power. thermal (Wth/m2) - Measurements (cm) - Empty / full weight (kg)	375 669 at 20°C 114 x 164.6 x 3.5 24,3 / 29,3	758 €	D
	200909352	FLASH 375 Shingle Black Technical sheet	- Electrical power (Wp) - Measurements (cm) -Weight (kg)	375 114 x 164.6 x 3.5 19,5	418 €	Facebook

SPRING & FLASH 400 Panels (2021-2022)

Visual	Reference	Designation	Description	Public price excl. VAT (EXW)		
	211104483	SPRING 400 Shingle Black Isolated Technical sheet	- Electrical power (Wp) - Power. thermal (Wth/m2) - Measurements (cm) - Empty / full weight (kg)	400 312 at 50°C 114 x 164.6 x 3.5 25,1 / 30,1	809 €	D
	211104482	SPRING 400 Shingle Black Non-insulated Technical sheet	- Electrical power (Wp) - Power. thermal (Wth/m2) - Measurements (cm) - Empty / full weight (kg)	400 669 at 20°C 114 x 164.6 x 3.5 24,3 / 29,3	758 €	D
	211104484	FLASH 400 Shingle Black Technical sheet	- Electrical power (Wp) - Measurements (cm) -Weight (kg)	400 114 x 164.6 x 3.5 19,5	411 €	Facebook

SPRING & FLASH panels (2017-2018)

Image	Reference	Designation	Description	Retail Price (EXW)		
	200323316	DualSun SPRING 280M Isolated (PV / T) Datasheet	-Electric power (Wp) -Thermal power (Wt) -Dimensions (cm) -Weight (kg)	280 312 99 x 167.7 x 4.5 28	€ 860	D
	100300631	DualSun SPRING 280M Non-insulated (PV / T) Datasheet	-Electric power (Wp) -Thermal power (Wt) -Dimensions (cm) -Weight (kg)	280 669 99 x 167.7 x 4.5 25	€ 840	D
	100180713	DualSun FLASH 280M (PV) Datasheet	-Electric power (Wp) -Dimensions (cm) -Weight (kg)	280 99 x 167.7 x 4.5 19	€ 367	F

SPRING 375-400 hydraulic connections

Visual	Reference	Designation	Description	Public price excl. VAT (EXW)	
	190307059	DualSun Essential Kit (incl. 4mm probe)	<p>This kit includes the essentials necessary for the successful completion of a DualSun installation. Composition of the kit:</p> <ul style="list-style-type: none"> - Panel probe - SPRING installation and maintenance instructions - 4 white seals for connections - Commissioning report - SPRING fitting removal tool 	€ 79	A
	201218409	DN15 - SPRING Portrait connection - 1210	<p>This flexible provides the hydraulic connection of two DualSun Spring panels placed in portrait. 2 are required per panel:</p> <ul style="list-style-type: none"> -EPDM flexible hose (inside x outside dimensions: 15x21mm) -Polymer injected fittings located every 121cm -Delivery in crowns of 28 links - YELLOW cap 	31 €	D
	190307057	DN15 - SPRING Landscape connection 1710	<p>This flexible provides the hydraulic connection of two DualSun Spring panels placed in the landscape. 2 are required per panel:</p> <ul style="list-style-type: none"> -EPDM flexible hose (inside x outside dimensions: 15x21mm) - Polymer injected fittings located every 171cm -Delivery in crowns of 28 links - BLACK cap 	35 €	D
	201218407	DN26 - SPRING Portrait connection - 1210	<p>This flexible provides the hydraulic connection of two DualSun Spring panels placed in portrait. 2 are required per panel:</p> <ul style="list-style-type: none"> -EPDM flexible hose (inside x outside dimensions: 26x34mm) -Polymer injected fittings located every 121cm -Delivery in crowns of 28 links - YELLOW cap 	44 €	D

SPRING 280 hydraulic connections

Visual	Reference	Designation	Description	Public price excl. VAT (EXW)	
	180219748	DualSun'18 essential kit (incl. probe)	<ul style="list-style-type: none"> - Probe - Pressurized Spring Memo and Swimming Pool - Commissioning report - Spring connection dismantling tool 	42 €	F
	200021128	DN15 - Spring'18 Portrait link	<ul style="list-style-type: none"> -EPDM flexible pipe (interior x exterior dimensions: 15x21mm) -Fittings injected polymers located every 103cm -Delivery in crowns of 48 links 	16 €	D
	200110874	DN15 - Spring'18 Landscape link	<ul style="list-style-type: none"> -EPDM flexible pipe (interior x exterior dimensions: 15x21mm) -Fittings injected polymers located every 171cm -Delivery in crowns of 28 links 	20 €	D
	200100186	DN26 - Link Spring'18 Portrait	<ul style="list-style-type: none"> - Dimensions inside x outside: 26x32mm - Flexible PVC pipe reinforced by a rigid PVC rod. The white shock-proof rod is embedded in a spiral in a black flexible pvc core (temperature resistance from 15°C to 60°C) - Delivery in crowns of 30 links 	23 €	D
	180220751	Spring'18 fitting removal tool	Steel tool for quick dismantling of DualSun Spring 280M hydraulic connections.	25 €	A

WAVE panels & accessories (2014-2016)

Image	Reference	Designation	Description	Retail Price (EXW)	
	100250588	DualSun WAVE 280M Non-isolated (PV / T) Datasheet	<ul style="list-style-type: none"> -Electric power (Wp) 280 -Thermal power (Wt) 912 -Dimensions (cm) 99 x 167.7 x 4.5 -Weight (kg) 30 	€ 1080	A
	180117717	WAVE thermal insulation kit	<ul style="list-style-type: none"> - Insulation: 1649 x 962 x 30 mm - Support bar 	€ 40	A
	200120898	DualSun WAVE temperature probe	<ul style="list-style-type: none"> - Stainless steel clamp included 	€ 25	A
	200021090	WAVE inlet / outlet fittings kit - M3 / 4	<ul style="list-style-type: none"> Composition of a kit: - 1 x DS M3 / 4 RD Male connector - 1 x DS M3 / 4 RR Female connector - 1 x Clips - 2 x JFHT4 high temperature flat fiber gasket 	€ 25	A
	200150285	DualSun insulated extension 1.5m - WAVE	<ul style="list-style-type: none"> - White clip mounted on RR 	€ 42	A