

DINGRE[®]

Tangshan DingRe Solar Energy Equipments Co.,LTD



Your Best Life Now



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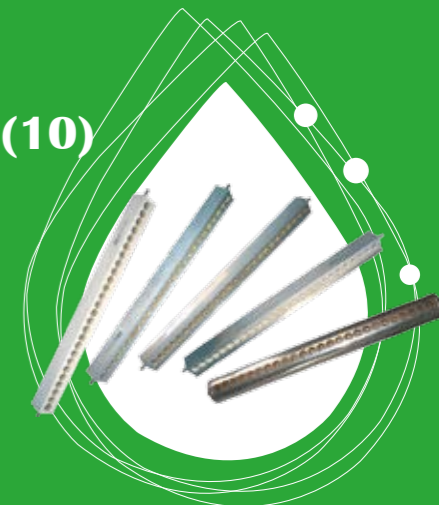
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Company Profile

TangShan DingRe Solar Energy Equipments Co., LTD is a large-scale enterprise in northern China which integrates scientific research, manufacturing industry and multi-channel trade. We specialize in the R&D and production of solar thermal products including pressurized water tanks, solar panels, solar water heaters, solar collectors, modular water tanks, round water tanks, water feeders and a series of solar lights.

Having engaged in solar industry for more than six years, DR has made a lot of profound achievements. The company has passed 36 authoritative certifications including CE, ISO9001, ISO14001 and 3C. The foreign trade department has successfully established excellent business relationship with many customers from Europe, Southeast Asia, Korea, South America and we are ready to spread our influence to the whole world.



Non-pressurized Solar Water Heater (DR-SWH-01)



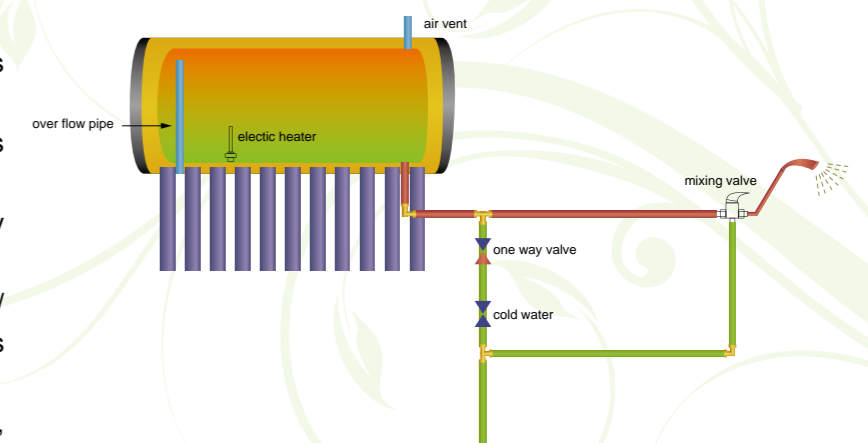
• Characteristics

DR-SWH01 uses all-glass vacuum tubes as heat absorbing element. It has excellent properties of high absorption and low emittance rate. The output of a solar water heater will depend on the amount of solar radiation available. On a good sunny day with 6 to 7 hours of sunlight, the vacuum tubes will collect enough solar energy to heat water up to 60°C and the water temperature can rise very high and you may spot steam coming from the vent.

Rainy days: these tubes perform very well in overcast conditions and in low temperatures. With vacuum tube technology, the reliability of the system increases, since the temperature inside the glass tube is independent of the surrounding temperature.

• Material

- 1 Inner Tank: SUS304-2B food class stainless steel, 0.5mm
- 2 Outer Tank: color steel/stainless steel, 0.41mm
- 3 Insulation: integrated high density polyurethane foam, 60mm
- 4 Frame: coated galvanized steel/stainless steel 1.5mm(many angels available)
- 5 Vacuum Tube: three merits, borosilicate glass, 3.3



● Parameter Table

Specification	Absorbing area	Total Volume	Loading Qty (sets)		
			20GP	40GP	40HQ
φ58*1800*10	1.376	100L	60	144	150
φ58*1800*12	1.647	120L	48	100	116
φ58*1800*15	2.064	160L	38	78	84
φ58*1800*18	2.478	200L	36	76	80
φ58*1800*20	2.755	215L	32	68	72
φ58*1800*24	3.310	255L	26	56	60
φ58*1800*30	4.142	320L	22	46	52

Remark: We have different angels of frame to meet the need of customers around the world.170, 300, 450 and 500.

Pre-heated Solar Water Heater with Copper Coil (DR-SHW-02)



● Characteristics

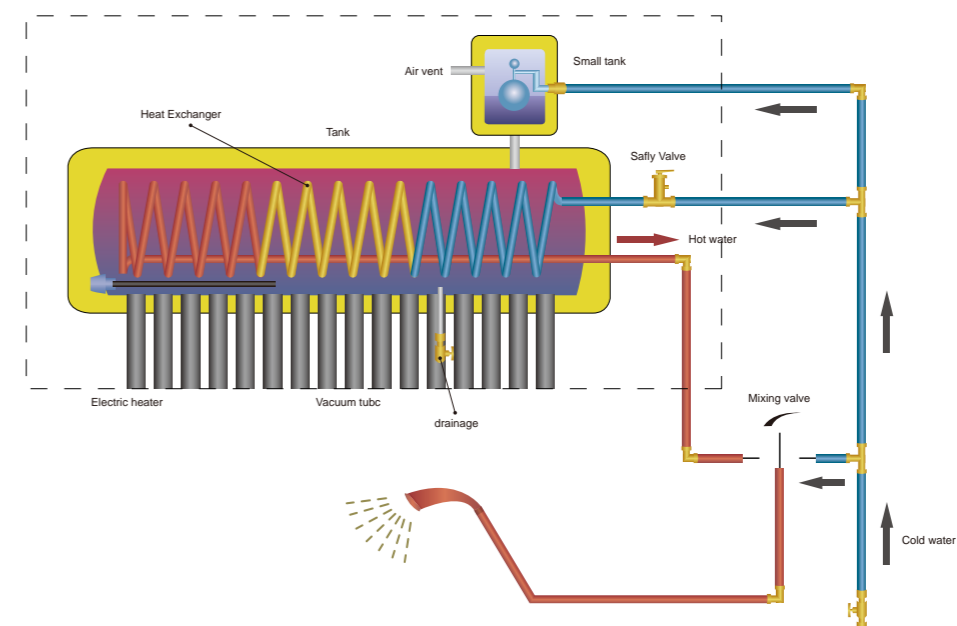
In this type, water in the storage tank will be heated first and then there will be heat exchange between water in storage tank and water in copper coil which is the output water.

● Main advantages:

- 1 Instant heat exchange
- 2 Fresh water quality
- 3 Stable water output
- 4 High quality copper coil, work with pressure

● Material:

- 1 Inner Tank: SUS304-2B food class stainless steel, 0.5mm
- 2 Outer Tank: color steel/stainless steel, 0.41mm
- 3 Insulation: integrated high density polyurethane foam, 60mm
- 4 Frame: coated galvanized steel/stainless steel 1.5mm(many angels available)
- 5 Vacuum Tube: three merits, borosilicate glass, 3.3
- 6 Copper coil: φ12mm, thickness 0.8mm



● Parameter Table

Specification	Absorbing area	Length of copper	Total Volume	Loading Qty (sets)		
				20GP	40GP	40HQ
φ58*1800*15	2.064	30m	160L	38	78	84
φ58*1800*18	2.478	30m	200L	36	76	80
φ58*1800*20	2.755	30m	215L	32	68	72
φ58*1800*24	3.310	35m	255L	26	56	60
φ58*1800*30	4.142	35m	320L	22	46	52

Remark: Max Test Pressure-1Mpa, Working Pressure-0.4Mpa

Pressurized Solar Water Heater with Heat Pipe (DR-SWH-03)

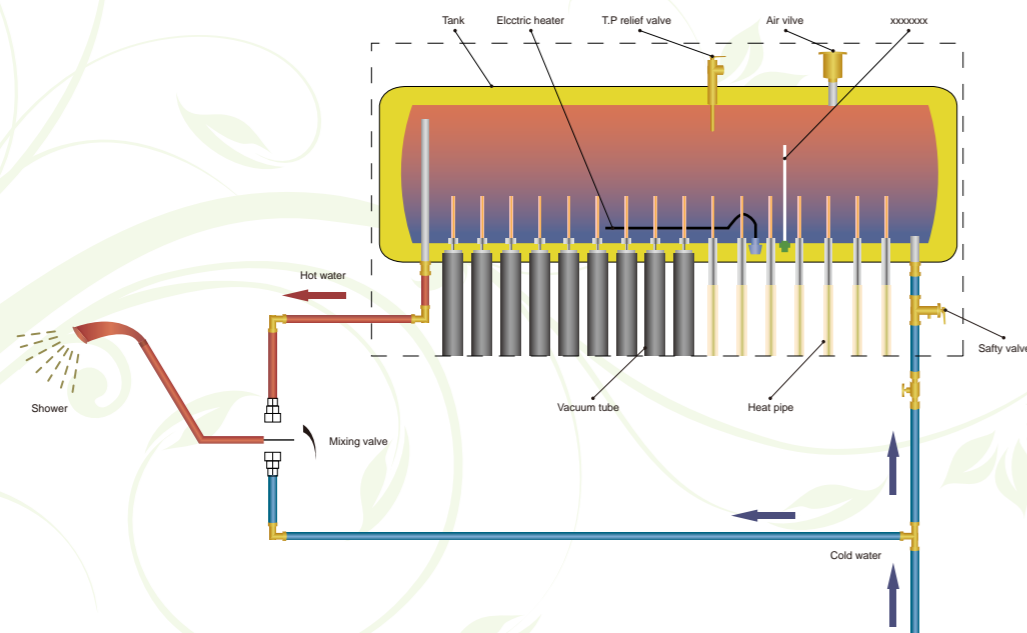
● Characteristics

DR-SWH-03 uses heat pipe instead of vacuum tube as absorbing material. Heat pipe is much more efficient. It uses a copper stick as heat transfer media to heat the water inside the storage tank. And it does not contain water inside the tube, so if one heat pipe breaks, the whole system will still work normally.

DR-SWH-03 can work under high pressure.

● Material:

- 1 Inner Tank: SUS304-2B food class stainless steel, 1.2mm
- 2 Outer Tank: color steel/stainless steel, 0.41mm
- 3 Insulation: integrated high density polyurethane foam, 60mm
- 4 Frame: coated galvanized steel/stainless steel 1.5mm (many angles available)
- 5 Heat Pipe: three merits with copper stick



● Parameter Table

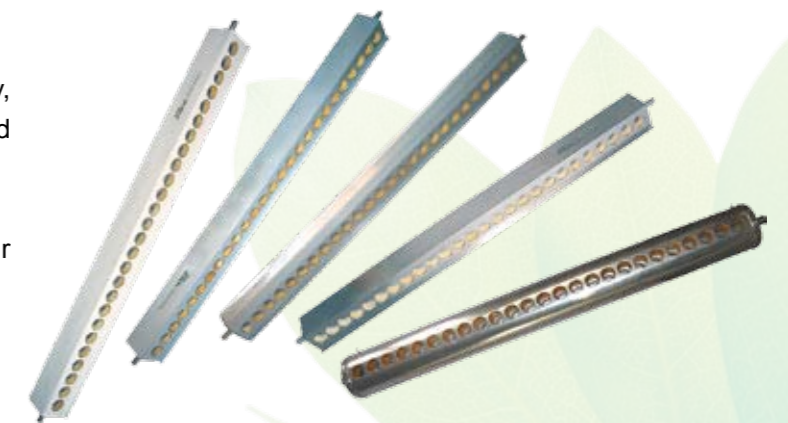
Specification	Absorbing area	Total Volume	Loading Qty (sets)		
			20GP	40GP	40HQ
φ58*1800*15	2.082	120L	38	78	84
φ58*1800*18	2.484	140L	36	76	80
φ58*1800*20	2.788	160L	32	68	72
φ58*1800*24	3.312	190L	26	56	60
φ58*1800*30	4.142	230L	22	46	52

Remark: Max Test Pressure 0.9Mpa, Working Pressure 0.4Mpa

Non-vacuum Tube Solar Collector (DR-SC-01)

● Characteristics:

- 1 Widely used in centralized water supply, rooming heating, swimming pool and individual house water supply.
- 2 All day work
- 3 Gracious design, multiple choice for appearance



● Material:

- 1 Inner: SUS304-2B food class stainless steel, 0.5mm
- 2 Outer: Color steel/galvanized steel/stainless steel/aluminum 0.4mm
- 3 Insulation: integrated high density polyurethane foam
- 4 Frame: coated galvanized steel/stainless steel/aluminum

● Parameter Table

Specification	Type	L*W*H(mm)
φ47*1500*25	Vertical	1800*160*150
φ47*1500*50	Horizontal	1800*160*150
φ58*1800*25	Vertical	2000*160*150
φ58*1800*50	Horizontal	2000*160*150

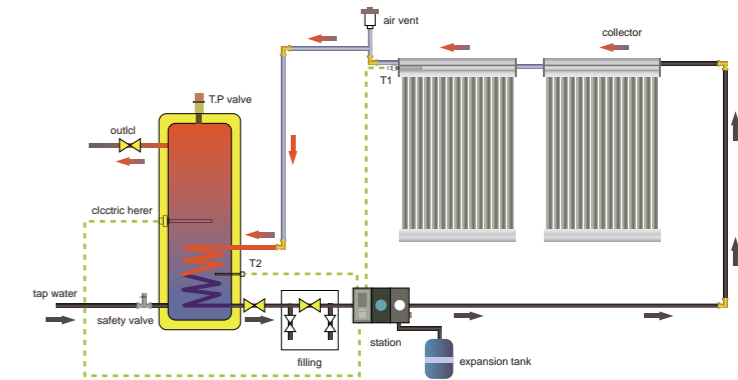
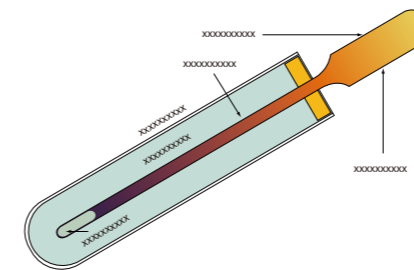
Pressurized Solar Collector with Heat Pipe(DR-SC-03)

● Characteristics:

- 1.Heat pipe instead of vacuum tube, more efficient and reliable.
- 2.The whole system can still work if one heat pipe breaks because the pipe do not contain water.
- 3.Many specifications available

● Material:

- 1 Inner: copper Φ35*0.8(mm)
- 2 Outer: aluminum 2.0mm
- 3 Insulation: rock wool
- 4 Bracket: coated galvanized steel/stainless steel/aluminum



● Parameter Table

Specification	Absorbing area	Loading Qty (sets)		
		20GP	40GP	40HQ
φ58*1800*10	0.936	192	300	340
φ58*1800*15	1.404	128	200	228
φ58*1800*20	1.871	96	150	170
φ58*1800*25	2.339	76	120	136
φ58*1800*30	2.791	65	100	160

Remark: Test Pressure 1Mpa work pressure:0.4Mpa



Flat Plate Solar Collector (DR-SC-03)



Technical Data	DR-SC-01
Collector type	Roof-mounted collector
Overall area (m ²)	2.02
Absorber area (m ²)	1.74
Aperture area(m ²)	1.96
L×W×H(mm)	2005*1005*80
Weight(kg)	32
Absorber capacity(L)	32
Housing	Aluminum alloy
Surface	Aluminum alloy
Back	Steel plate
Absorber sheet	Cu/Al,oxide film
Absorption(%)	94
Emission(%)	8(80°±50°)
φmanifold(mm)	φ22*0.75
φrisers(mm)	φ10*0.5
Glass	Woven ultra white toughened solar safety glass
Transmittance of glass(%)	≥91
Insulation	Fiberglass cotton with antifiaming silver paper veneer
Max. stagnation temperature	250°
Max.working pressure	1.2Mpa
Rated working pressure	0.8Mpa
Heat transfer medium	Polypropylene glycol
Approved installation angle	Min. 15°, Max.75°

Pressurized Water Tank(DR-PWT)

● Characteristics:

- 1 Instant water supply
- 2 The tank is separated from the collector. Collector is put on the roof while the tank is puty inside the room. This ensures less heat loss and achieves a perfect combination of solar system and the building.
- 3 Electric heater backup---hot water all day long.

● Material:

- 1 Inner Tank: SPCC/porcelain
- 2 Outer Tank: color steel 0.4mm
- 3 Insulation: integrated high density polyurethane foam 50mm
- 4 Accessories include: electric heater, T/P valve, sensor, drain pipe.



● Parameter Table

Total Volume	Inner Tank thickness	Copper coil	Heat exchange area	Outer tank dimension(diameter*height)
100L	2.0mm	two	0.4/0.7m ²	φ520×(825+25)
200L	2.0mm	two	0.4/0.7m ²	φ520×(1460+25)
300L	2.5mm	two	0.4/0.7m ²	φ570×(1729+25)
400L	3.0mm	two	0.4/0.8m ²	φ700×(1511+35)
500L	3.0mm	two	0.4/0.8m ²	φ700×(1846+35)

Remark: Max test pressure: 10 Bar. Work pressure: 4 Bar

Modular Water Tank----(DR-WT-01)



● Characteristics:

- 1 Widely used in centralized water supply, suitable for communities, schools, hospitals and any other place where there is a large demand for hot water.
- 2 Reasonable structure: reinforcement bar is evenly distributed inside the tank to reach a greater stability.
- 3 Fast and easy installation: standard modules 1*1, 1*5, 0.5*0.5 can be assembled freely. On-site-welding does not need lifting equipments.
- 4 Capacity: 100ton-s-3000tons

● Material:

- 1 Inner tank: SUS304-2B food class stainless steel, thickness depends on capacity.
- 2 Outer tank: galvanized steel, stainless steel, 0.4mm
- 3 Insulation: high density polyurethane foam, 50/60mm



Cylindrical Water Tank---(DR-WT-02)

● Characteristics:

- 1 High efficiency and gracious appearance
- 2 Special reinforcement guaranteed a greater strength
- 3 Pulsed TIG welding, No corrosion, no leakage or algae breeding
- 4 Capacity: .05t-30t
- 5 Suitable for water storage of small capacity



● Material:

- 1 Inner Tank: SUS304-2B food class stainless steel, thickness depend on capacity
- 2 Outer Tank: galvanized steel, .04mm
- 3 Insulation: high density polyurethane foam 50/60mm



Fabricated Water Tank:(DR-WT-03)

● Characteristics:



1 No weld point. Much more stronger
 Modules of detachable water tank are connected by bolts instead of weld. It not only simplified the installation process but also completely eradicated the harm caused by erosion because there will not be any weld point. Edible silicon gel ensured a great seal property.

2 Economical and Practical
 Compared with traditional water tanks, detachable water tank needs less raw material for the production because of its special structure. DR-DWT has different

specifications to meet different demands.

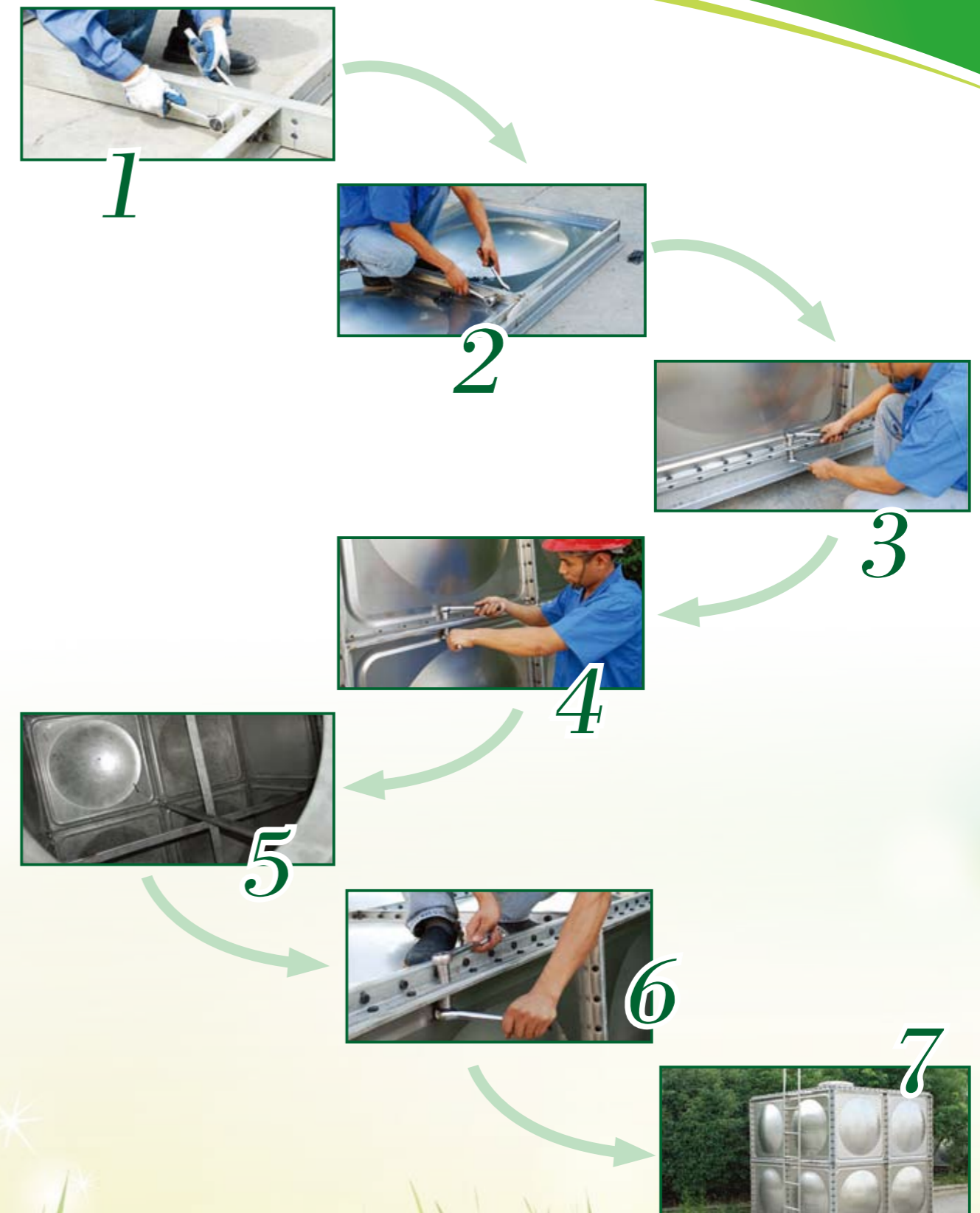
3 Durable in use

DR-DWT adopts high-quality stainless steel. The lifespan of finished tank can be as long as 50 years. Moreover, it has the merits of anti-corrosion, anti-crack and quakeproof.

4 Easy dismantling and high value –preserving.

It's easy to dismantle the tank because the modules are connected just by bolts. And the modules can be reassembled and reused while modules of traditional tanks can just be treated as scraps.

5 Time-saving



Solar Panels(DR-PV-SP)

● Characteristics:

Characteristics:

- 1 Exchange rate 22%.
- 2 Special coating, maximum absorbing rate can reach 96.2%
- 3 Tempered glass plus water repellent resin as sealment.
- 5 Lifespan:15-25 years



Solar Street Light(DR-PV-SSL)

● Characteristics:

- 1 Large grain LED
- 2 High-efficiency solar panel
- 3 Maintenance free gel battery
- 4 Adjustable post
- 5 Various configurations available



● Project Case



CE,3C,ISO9001,ISO14001



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