

SOLAR HOT WATER DESIGNED FOR THE GULF



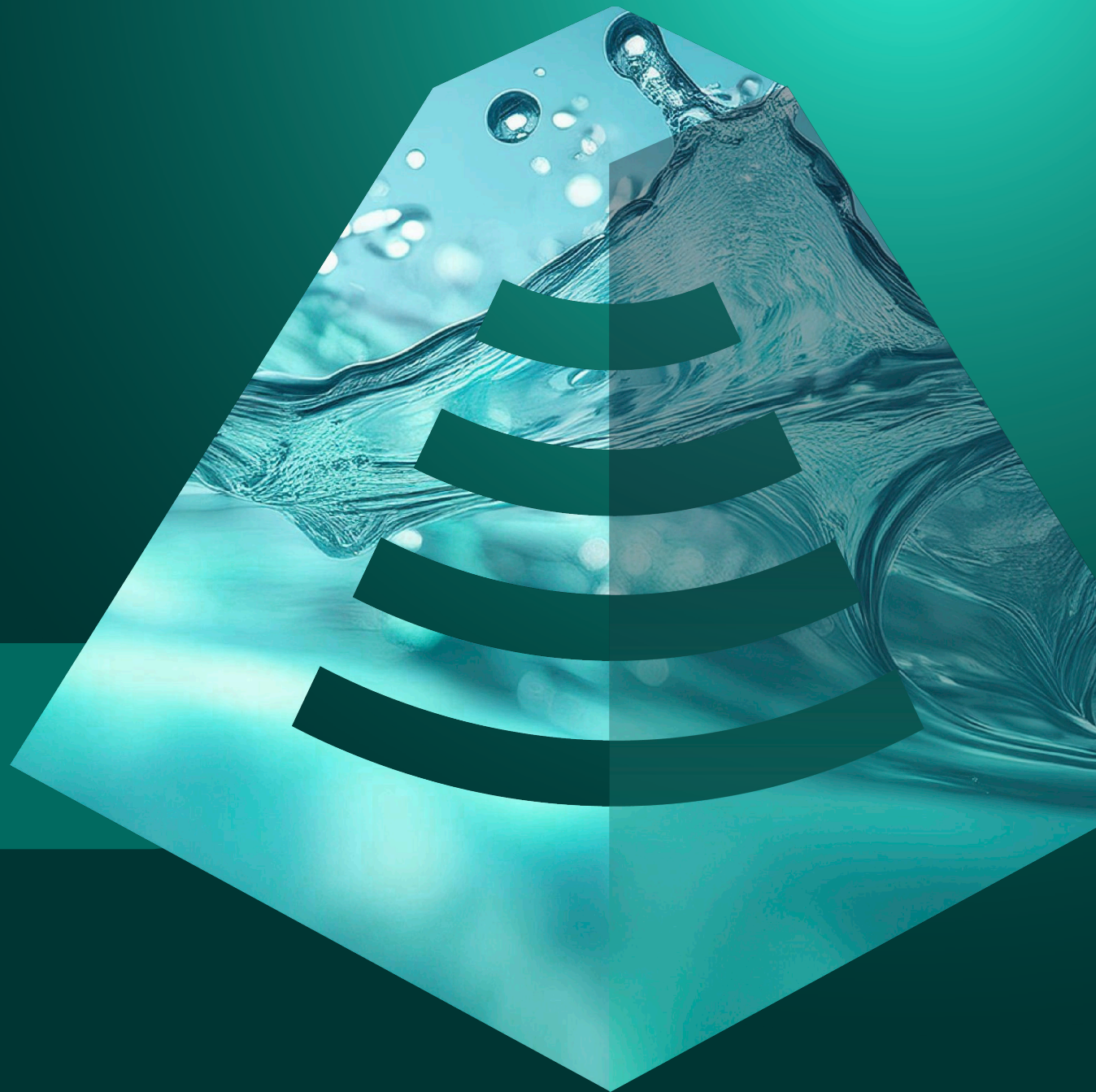
VILLAS



HOTELS



COMMERCIAL



SolarisKit
SOLAR THERMAL REDEFINED



SolarisKit is the solar water heating system engineered for flat-roofs, hard water, and the Gulf climate.



MODERN &
ATTRACTIVE



SAFE &
RELIABLE



MADE IN
THE UAE

Redefining Hot Water for the GCC

Heating water can account for up to 20% of household electricity bills in the Gulf. Installing a solar hot water system can harness the abundant sunshine the region has to offer, lowering energy costs and carbon emissions. But traditional solar water heating solutions fail under local conditions — overheating, breaking down in mineralised water, or designed for pitched roofs.

SolarisKit provides the answer.

Founded in Britain and now manufactured in Ras Al Khaimah, our unique flat-roof solar water heating solution is safe, reliable, and architecturally compatible. For developers and utility companies, this means lower costs, easier compliance, and sustainable value.

“Professional, innovative, and reliable — we make solar hot water work for the Gulf.”

— Dr. Faisal Ghani, Founder & CEO

BRITISH
INNOVATION



MADE IN
THE UAE

Dr. Faisal Ghani,
Founder & CEO





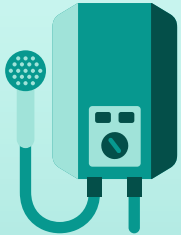
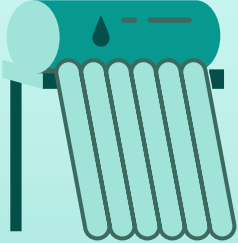
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WHY TRADITIONAL SOLAR WATER HEATER SYSTEMS FAIL IN THE GULF

Conventional solar water heating solutions were not designed for the Gulf climate and its buildings — high solar intensity, mineral-rich water, and flat-roofs.

The result? High costs, frequent failures, and unattractive installations.

ELECTRIC HOT WATER	CONVENTIONAL SOLAR WATER HEATERS
	
High bills and carbon footprint.	Overheats, clogs in hard water, pitched-roof design.
The Result Developers default to electricity, raising the operational costs and emissions of their properties	



Problems with current Solar Water Heaters:

- Reach excessive temperatures (up to 200°C).
- Damaged by hard/mineralised water.
- Bulky and unattractive.

Introducing SolarisKit, the Solar Water Heater Designed for Flat-Roofs

Flat roofs dominate the built environment of the Gulf, yet conventional solar thermal systems were never engineered for them.

SolarisKit is the first solar hot water system designed with flat roofs in mind. Our patented prismatic collector is modular, compact, and aesthetically discrete, making it easy to integrate on villas, apartments, and commercial rooftops.

For developers, this means faster approvals, cleaner design integration, and a solar system that works with the region's architecture instead of against it.

THE SOLARISKIT WAY

- Designed for flat-roofs
- Avoids reaching excessive temperatures
- Compatible with hard water

THE OLD WAY

- Not designed for flat-roofs
- Reach excessive temperatures
- Damaged by hard water



From Sunlight To Hot Water In 3 Steps

The SolarisKit HelioFlow™ solar collector converts solar energy into carbon free hot water in three steps.

1

Solar Energy Capture

Sunlight passes through the transparent cover (high transmission solar glass) and strikes the absorber inside the prismatic collector, converting solar radiation into heat.

2

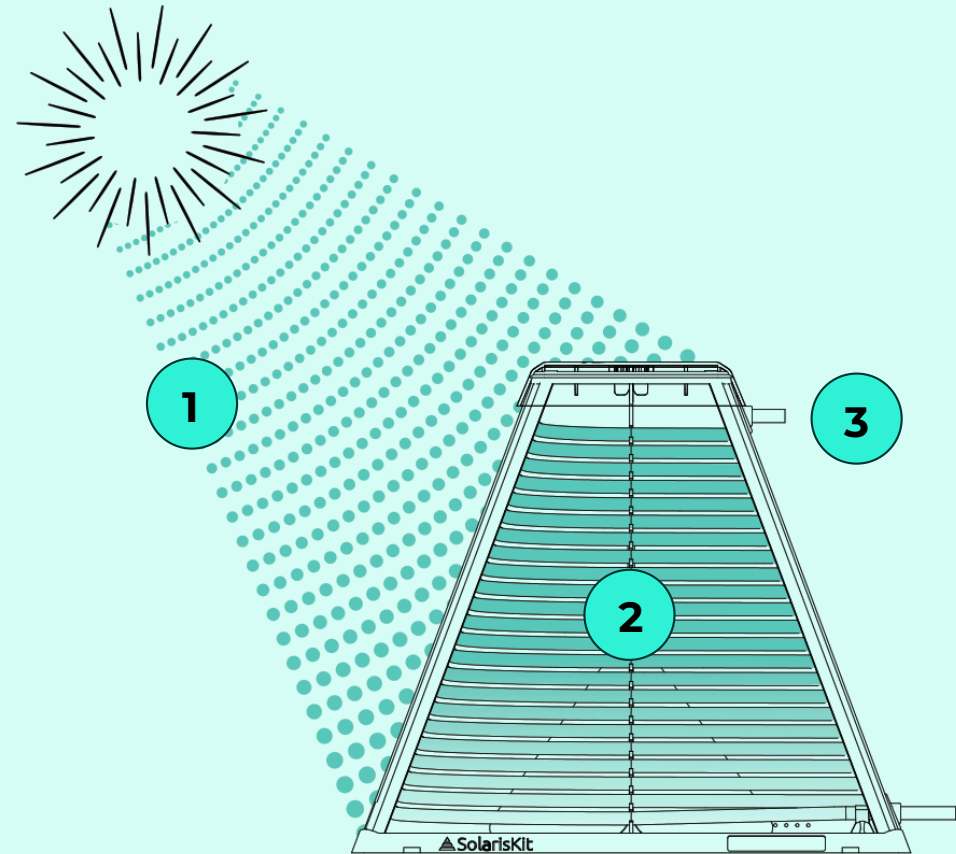
Heat Transfer

The absorber transfers this heat to water circulating within it, raising its temperature safely and efficiently without the risk of overheating.

3

Hot Water Delivery

The heated water flows into a storage tank or hot water system, reducing the need to heat water using electricity.



SolarisKit HelioFlow™ solar collector

DESIGNED FOR SUSTAINABILITY



Flat-packed design cuts shipping emissions and reduces installation footprint.



Every part is repairable, replaceable, or recyclable, ensuring true circularity.

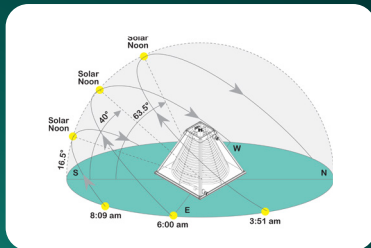


Manufactured in the UAE, lowering embodied carbon while supporting local value.

SolarisKit makes solar hot water simple.

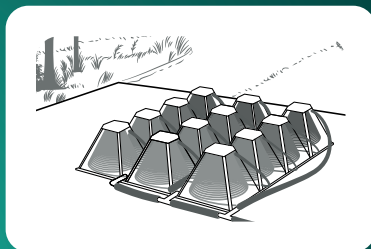
Sunlight enters the prismatic collector, heating water which is circulated to an insulated hot water storage tank and delivered to taps under mains pressure. The modular, flat-packed design ensures fast assembly, easy logistics, and straightforward installation.

Every feature has been designed with developers, engineers, and end-users in mind.



Passive Solar Tracking

Our prismatic collector captures sunlight from multiple angles, delivering passive solar tracking from sunrise to sunset maximising the conversion of solar energy to heat water.



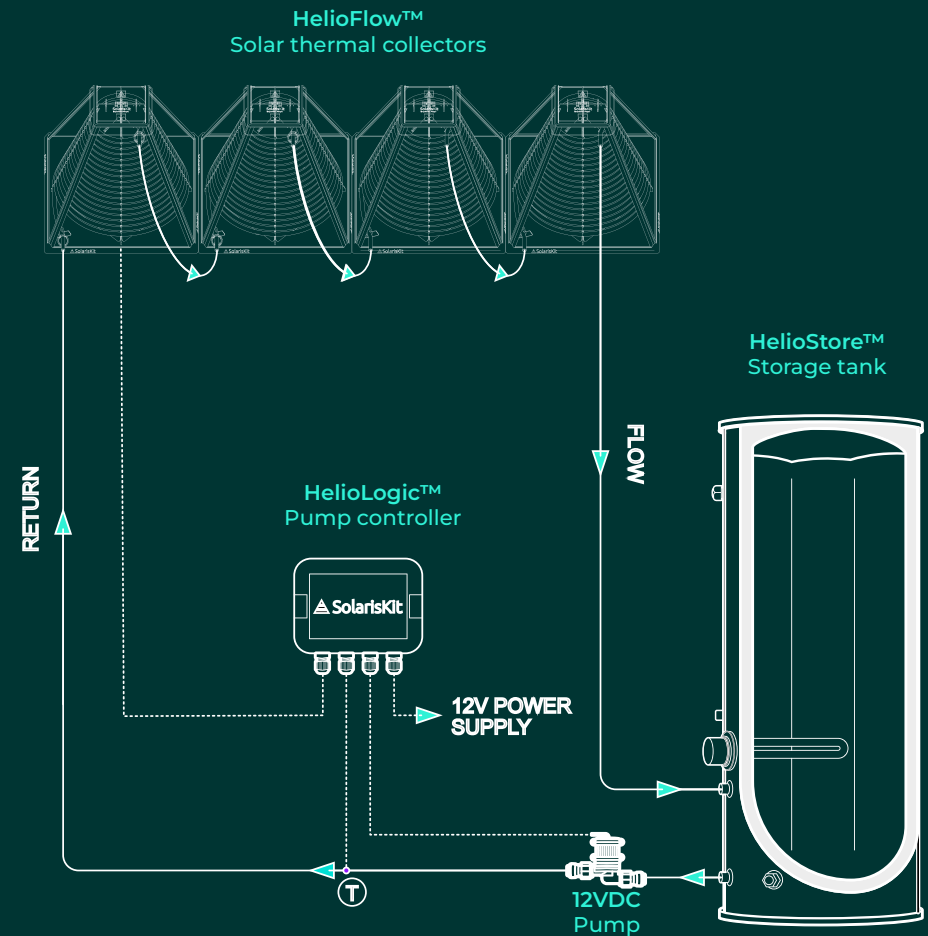
Flat-Roof Compatibility

Engineered for flat roofs, SolarisKit's compact, modular design saves space, avoids structural stress, and integrates seamlessly into modern villas, apartments, and hotels.



Flat-Packed Shipping

HelioFlow™ ships flat-packed, cutting volume by up to 80% — lowering logistics costs, easing site handling, and simplifying rooftop installation without cranes or heavy equipment.



HelioPro™ is the complete solar hot water solution, combining HelioFlow™ collectors, HelioStore™ hot water storage tank, and the 12V HelioLogic™ pump controller — ideal for both on- and off-grid projects.

Solar Hot Water That Pays for Itself

Cut costs, boost property value, and deliver long-term savings for residents. Choosing a solar hot water solution over an electric hot water storage tank provides benefits to households and the environment.

Heating water = up to 20% of a Gulf household's electricity bill.

Switching to SolarisKit turns this cost into long-term savings.

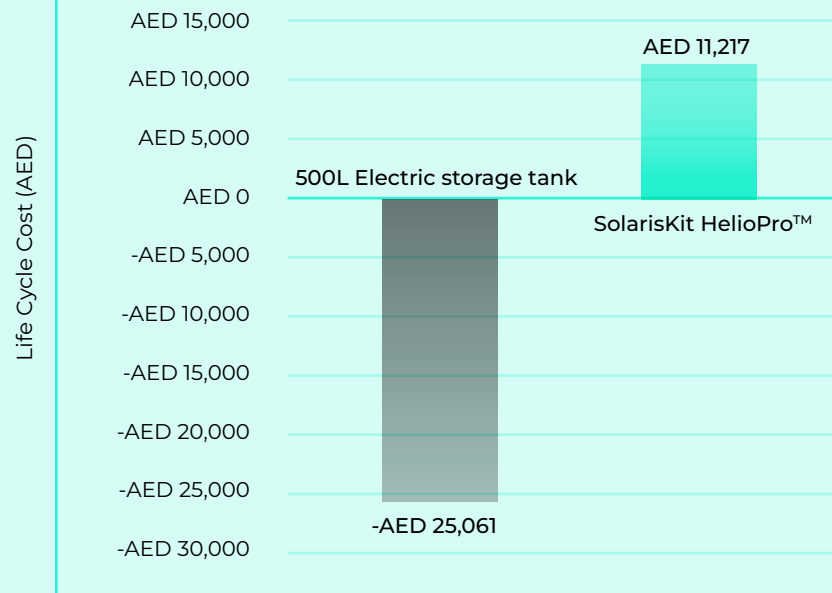


ENERGY
SAVING



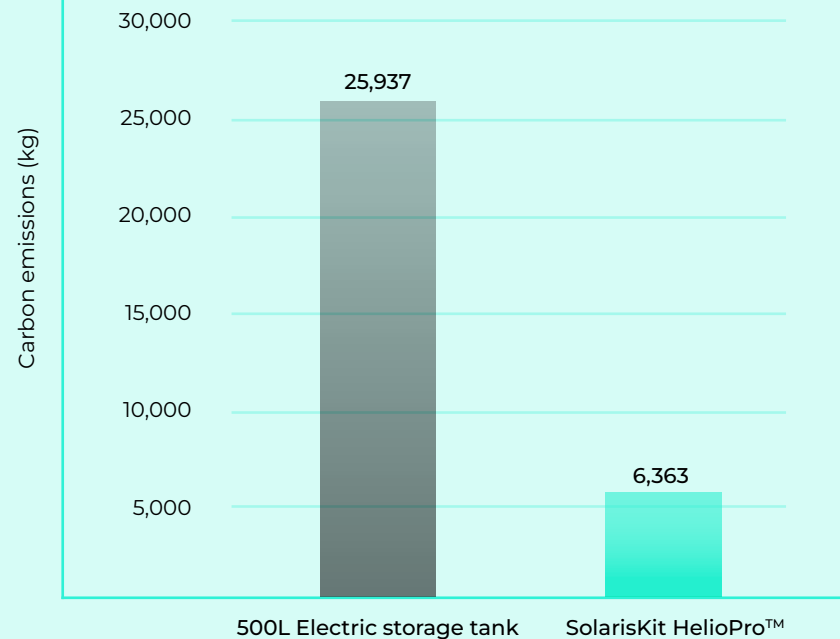
CARBON
REDUCTION

15-Year Life-Cycle Cost Comparison



Comparison of 15-year life cycle costs for a 500L electric hot water storage tank and equivalent sized SolarisKit HelioPro™ solar water heater. Calculations based on average electricity tariff of AED 0.293/kWh.

15-Year Carbon Emissions Comparison



Cumulative carbon emissions of a 500L electric hot water storage tank and equivalent sized SolarisKit HelioPro™ solar water heater. Calculations based on grid carbon intensity factor of 0.404 kg CO₂e/kWh over 15-year period.

CASE STUDY

Reliable Solar Hot Water
for a Leading Hotel

RAK Hospitality in Ras Al Khaimah UAE, engaged SolarisKit to reduce the energy costs and carbon footprint for a beachfront villa.

10,500 kWh
Annual Energy
Savings¹

5,800 kg
Annual Carbon
Savings²

Hotel	Rixos Al Mairid
Location	Ras Al Khaimah, UAE
Installation date	October 2024
Solution installed	SolarisKit HelioPro™ - 400L storage tank - 15 x SolarisKit HelioFlow™ solar collectors - HelioLogic™ pump controller - 12VDC, 1A pump
Energy monitoring Energy Meter	Shelly EM Wi-Fi-operated Smart equipment

1. Extrapolated annual energy savings forecast based on daily average energy savings of 29kWh measured during winter period.
2. Calculated based on forecast energy savings and grid carbon intensity factor of 0.404 kg CO₂e/kWh



HelioPro™ installed by SolarisKit at Rixos Al Mairid Hotel in Ras Al Khaimah

Fast-track Estidama, LEED & EDGE approvals with SolarisKit

SolarisKit makes complying with green building requirements easy. Our flat-roof solar water heating solution has been independently certified and is designed to align with the Gulf's leading building codes:

- **Estidama Pearl Rating** – earns credits under energy & water categories.
- **LEED Certification** – supports Energy & Atmosphere credits.
- **EDGE Green Buildings** – recognised for water and energy savings.

For developers, this means faster approvals, easier compliance, and a clear pathway to higher sustainability ratings without project delays.



Simplify compliance, reduce project risk, and unlock higher sustainability ratings with one solar hot water solution built for the Gulf



Performance Data

- Solar Keymark certificate
- Transient energy modelling
- Hot-water savings reports



Environmental Impact Evidence

- Embodied carbon statements
- Life-cycle assessment summaries
- Repair/reuse/recycling credentials



Localisation Proof

- Made in the UAE documentation
- In-Country Value (ICV) certificate



Design Integration Support

- CAD files
- Technical datasheets
- Installation manuals

Designed for the UAE and Tested to European Standards

By eliminating overheating and resisting damage from hard water, SolarisKit offers unmatched system reliability.

This translates into longer lifetimes, fewer service interventions, and reduced costs over the life of a development. For property developers and engineers, reliability means fewer aftersales issues, greater resident satisfaction, and improved ROI.

SolarisKit isn't just a solar water heater, it's a long-term asset that adds value to every building it serves.

As part of SolarisKit's commitment to high quality design and manufacture, the SolarisKit HelioFlow™ solar collector has been independently tested and Solar Keymark certified by accredited solar test lab SPF in Rapperswil Switzerland.



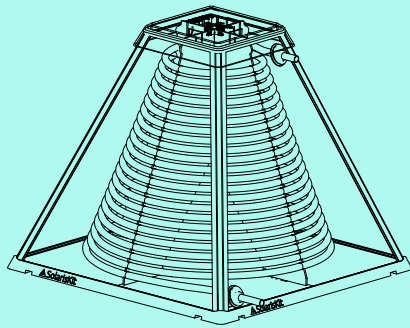
Solar Keymark certification is the internationally recognised quality label for solar thermal technology. It confirms that the SolarisKit HelioFlow™ collector has been independently tested to the highest European standards (EN ISO 9806 for collectors), ensuring proven performance, durability, and safety. Certification also means our production is subject to ongoing factory audits, giving developers and engineers confidence that every unit consistently meets strict quality requirements and is eligible for compliance and subsidy schemes worldwide.



SolarisKit HelioFlow™ solar collector being tested to EN12975/ISO 9806 standards by accredited solar test lab in Switzerland.

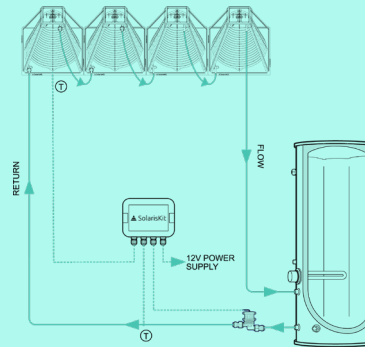
One Solar Solution, Endless Possibilities

Together, our product range forms a complete ecosystem for sustainable hot water delivery — from individual homes to large developments.



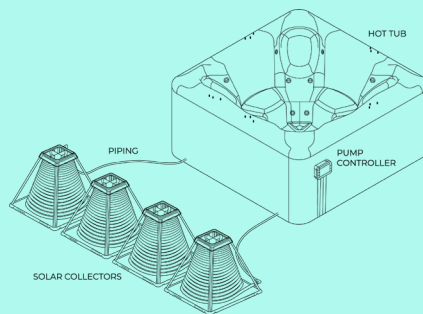
HelioFlow™

The world's first flat-packed solar water heater — engineered for durability, efficiency, and easy installation on flat roofs.



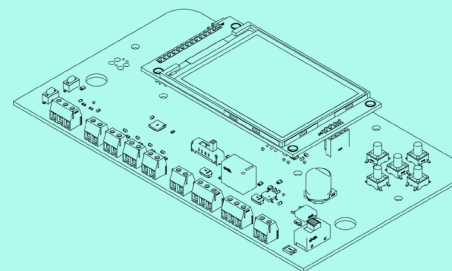
HelioPro™

A complete solar hot water system for villas and developments — reliable, scalable, and designed for the Gulf's toughest conditions.



HelioSpa™

Affordable, eco-friendly heating for hot tubs and spas — cut running costs while enhancing guest comfort and sustainability.



HelioLogic™

Smart pump controller technology — delivering intelligent, efficient hot water management for homes and resorts.

Why Choose SolarisKit?

- ✓ Flat-Roof Ready → Designed for UAE architecture.
- ✓ No Overheating → Safe and reliable year-round.
- ✓ Hard-Water Durable → Engineered for the GCC.
- ✓ Green Building Compliance → Supports Estidama Pearl, LEED, EDGE.
- ✓ Made in the UAE → Rapid supply, local spare parts, ICV certificate.



RESIDENTIAL APPLICATIONS

Hot Water for Every Home, Powered by the Sun.

SolarisKit is perfectly suited to residential projects, from villas to apartment blocks and staff housing. With flat-roof compatibility, residents enjoy lower energy bills and sustainable hot water, while developers benefit from easier compliance with green building codes and enhanced property value.

Whether for single homes or large-scale housing developments, SolarisKit provides a scalable, reliable solution that integrates seamlessly into modern communities.

EXAMPLE RESIDENTIAL APPLICATION

Description	3-Bedroom villa
Location	Dubai, UAE
Daily hot water demand	300 litres

THE SOLARISKIT SOLAR WATER HEATER SOLUTION

Product	SolarisKit HelioPro™
Hot water storage tank	400 litres
Solar collector array size	8 x HelioFlow™ solar collectors
Solar collector array area	2.3m ²

**3,700
kWh¹**

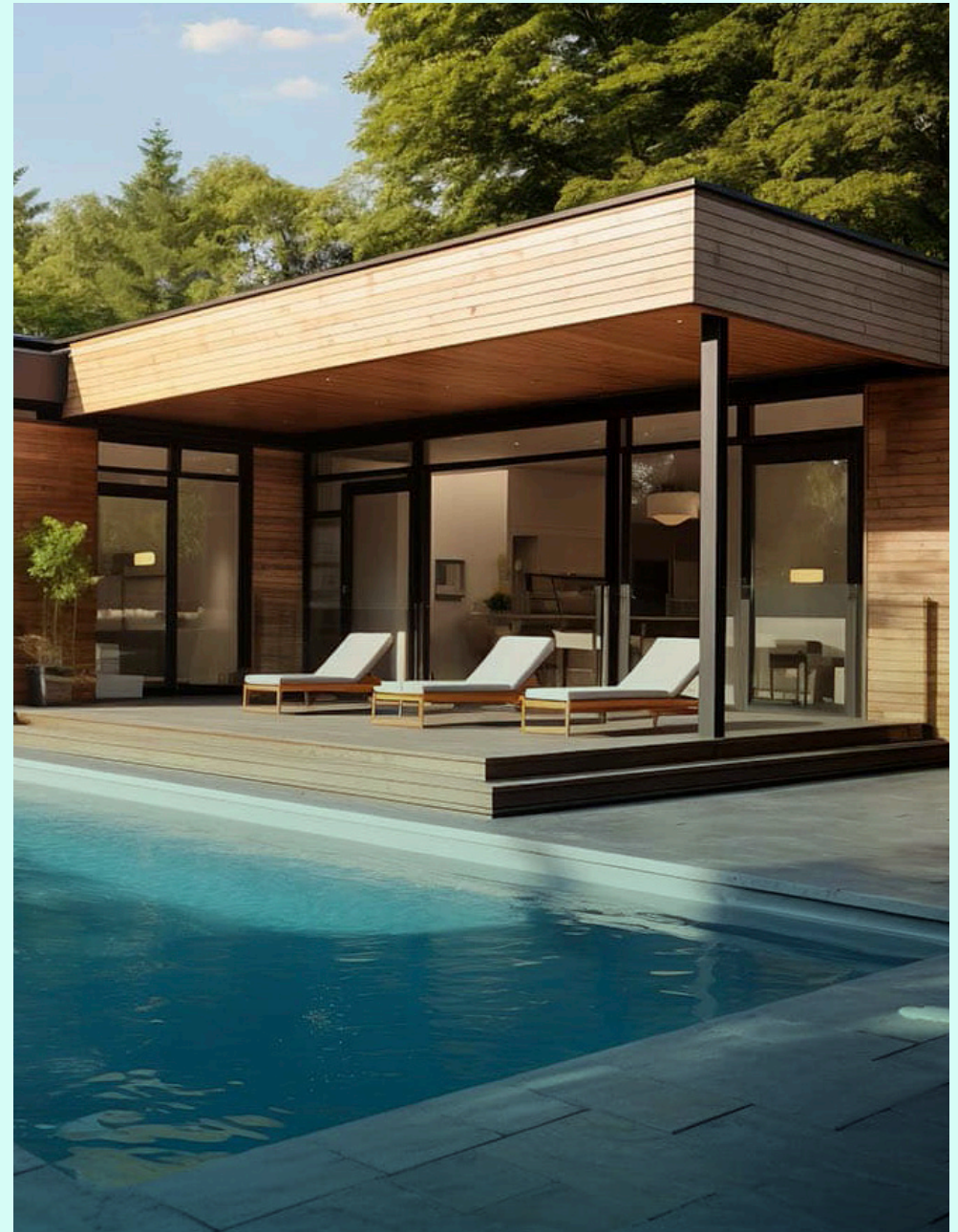
ANNUAL ENERGY
SAVINGS

**~1,500
kg²**

ANNUAL CARBON
SAVINGS

¹Determined via transient energy modelling using Polysun software

²Based on grid carbon intensity factor = 0.404 kg CO₂e/kWh



End-to-end support, from expert design to reliable supply and service.

At SolarisKit we go beyond supply — offering expert design support, UAE-based manufacturing, and local service to deliver reliable, sustainable hot water solutions with lasting value.



Certified B Corporation®

SolarisKit is proud to be a Certified B Corp, joining a global community of businesses using innovation for good. This certification recognises our commitment to the highest standards of social and environmental performance, transparency, and accountability.

Our mission is simple yet vital — to increase global access to clean, affordable heat by transforming how the world harnesses solar energy. From villas in the UAE to communities across Africa, SolarisKit is proving that sustainable technology can be both accessible and impactful, delivering real benefits for people and the planet.



EXPERT DESIGN

Our engineers deliver tailored solar designs with advanced modelling for seamless integration and maximum performance.



MANUFACTURE AND SUPPLY

With production based in Ras Al Khaimah, UAE, we deliver high-quality, locally made solar collectors with reliable supply chains and fast delivery across the region. All supported by our ISO 9001 certified manufacturing in Ras Al Khaimah.



INSTALLATION AND SERVICE

Our technicians provide professional installation and ongoing support, ensuring reliable performance and peace of mind for developers and building owners.

HelioPro™ Product List and Details

Table 1. HelioPro™ Systems with tank installed on the roof of the building

System Code	No. of Collectors	Collector Array Dimensions (mm)	Total Roof Space (mm)	Tank Volume (litres)	Tank Dimensions (mm)	Empty Tank Mass (kg)
HelioPro™ 10-AFSH-3R	10	1020 x 2550	4580 x 2840	300	580 x 1840	100
HelioPro™ 10-AFSH-4R	10	1020 x 2550	4650 x 2890	400	650 x 1890	130
HelioPro™ 15-AFSH-5R	15	1530 x 2550	4700 x 2930	500	700 x 1930	150
HelioPro™ 15-AFSH-6R	15	1530 x 2550	4750 x 3000	600	750 x 2000	180
HelioPro™ 20-AFSH-8R	20	2040 x 2550	4850 x 3000	800	850 x 2000	220
HelioPro™ 25-AFSH-10R	25	2550 x 2550	5000 x 3400	1000	1000 x 2400	260

Table 2. HelioPro™ Systems with tank installed inside the building

System Code	No. of Collectors	Collector Array Dimensions (mm)	Total Roof Space (mm)	Tank Volume (litres)	Tank Dimensions (mm)	Empty Tank Mass (kg)
HelioPro™ 10-AFSH-3B	10	1020 x 2550	2000 X 3500	300	580 x 1840	100
HelioPro™ 10-AFSH-4B	10	1020 x 2550	2000 X 3500	400	650 x 1890	130
HelioPro™ 15-AFSH-5B	15	1530 x 2550	3000 X 3750	500	700 x 1930	150
HelioPro™ 15-AFSH-6B	15	1530 x 2550	3000 X 3750	600	750 x 2000	180
HelioPro™ 20-AFSH-8B	20	2040 x 2550	2240 X 3750	800	850 x 2000	220
HelioPro™ 25-AFSH-10B	25	2550 x 2550	3750 X 3750	1000	900 x 2200	260

Your Local UAE Solar Energy Partner. **Get in touch today.**



WHAT WE OFFER



ENGINEERING & TECHNICAL SERVICES



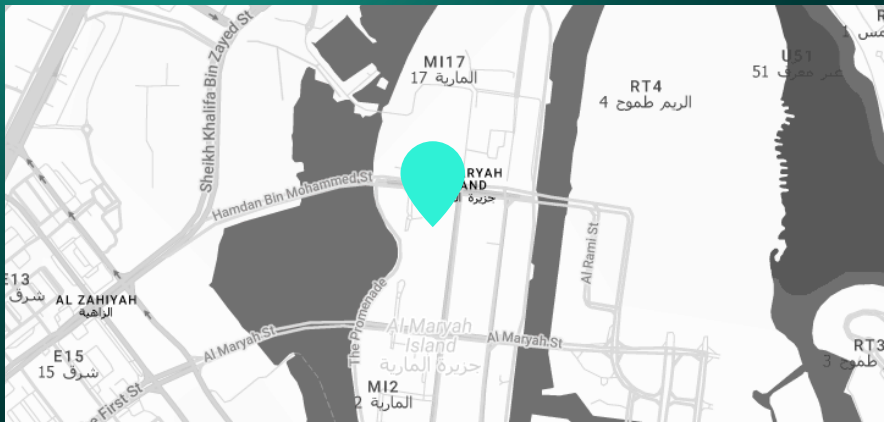
INSTALLATION AND MAINTENANCE



PRODUCT HARDWARE SUPPLY

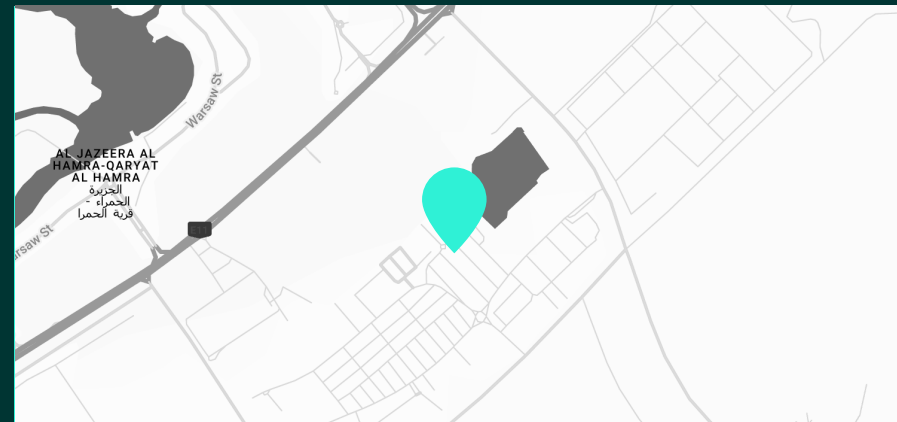
LET'S GET STARTED

Scan QR code to
schedule a call with
SolarisKit today



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