



MONIER

ADVANCED SOLAR WATER HEATING SYSTEM



ROOFS FOR LIVING

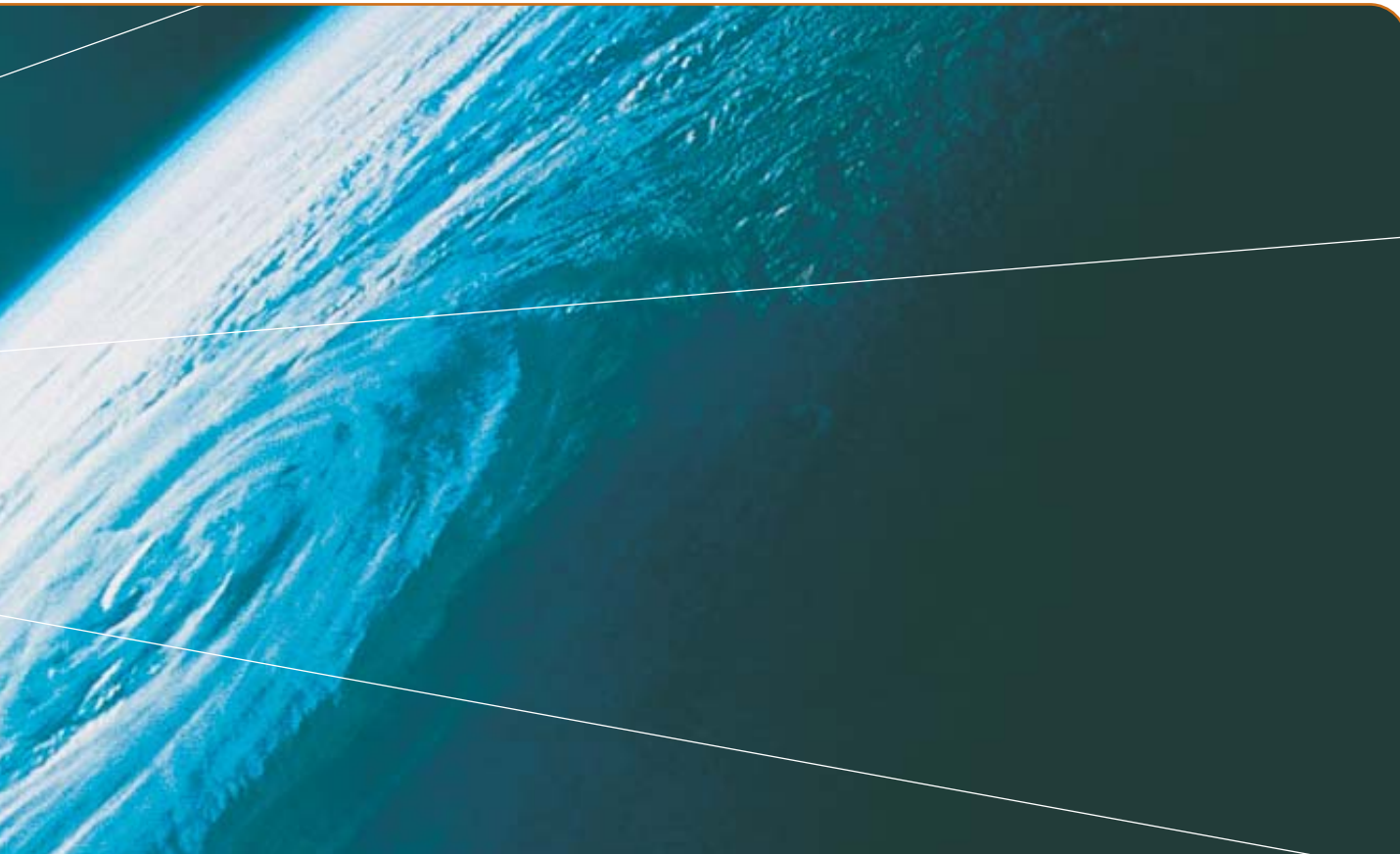
REFLECTING NATURE



As a leader in Total Roofing Solutions, MONIER is constantly pushing the envelope to deliver quality, innovation and reliability in our products and services. Our efforts towards sustainability is reflected in our commitment to “serving customers and the environment”.

MONIER respects the fact that the earth is our heritage and we are committed to the drive for a greener and more energy efficient planet. We ensure that all our manufacturing systems and processes is a reflection of our responsibility towards the earth.





MONIER's commitment to high quality products is proven in its 50 years of delivering superior roofing systems to its customers. Supported by state-of-the-art research and technological expertise, MONIER Solar Water Heating System is part of MONIER's drive to develop green energy products because we believe in enhancing our customer's quality of life.




INTO OUR
SUPERIOR
TECHNOLOGY

A scientist in a white lab coat and safety goggles is shown in profile, looking at a tablet device. The background is a large window with a grid pattern, suggesting a laboratory or research facility. The lighting is bright and natural, coming from the window.

INTRODUCING

MONIER SOLAR WATER HEATING SYSTEM



**EXTRA
STRENGTH**

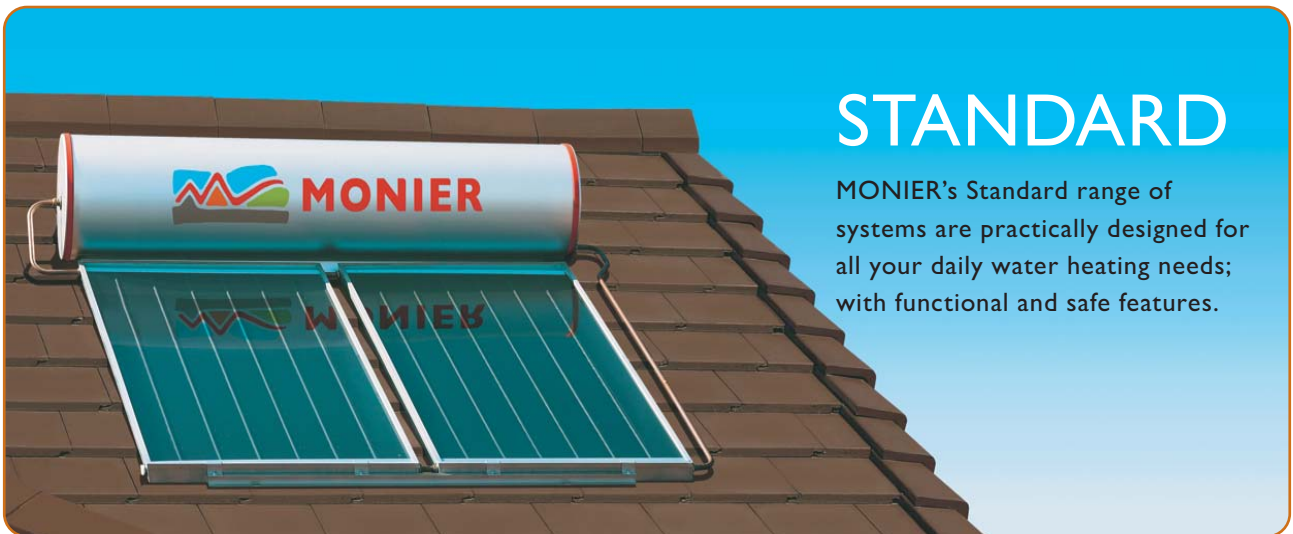
**EXTRA
FAST
HEATING**

PREMIUM

MONIER's Premium range of systems provide superb performance with faster heating time, all packaged into a sleek contemporary design. This premium range is perfect for larger families with its optimum performance and durability.



MONIER Solar Water Heating System is the ultimate solution; combining the latest technology and beautiful design to provide a system which caters to the needs of modern families. This exclusive and innovative product is designed for high performance and durability – to fulfil the different needs of today's families.



A REWARDING SYSTEM



ENERGY SAVING

It minimises the use of electricity by maximising the use of natural resource of the sun.



CENTRALISED

A centralised system to efficiently channel hot water to all essential parts of your home like the bathroom, kitchen and utility areas.



COMFORTABLE

Provides the comfort of a warm shower during rainy day or cold morning.



ENVIRONMENTALLY FRIENDLY

Minimises impact on the environment through efficient and environmentally friendly use of energy.



CONVENIENCE

Designed to give you optimum convenience by providing immediate hot water at all time.




SAFE

Eliminates the potential of electrical hazards.



MONIER Solar Water Heating System VS Standard Electrical Water Heater

✓  Utilises 100% natural solar energy and ZERO electricity consumption

✗ Higher daily cost and not environmentally friendly as it uses electricity

✓  Safe
100% SHOCKPROOF
No electric shock

✗ **High Risk Factor**
Electrical systems are unsafe to use during rainy days

✓ Environmentally friendly as it is energy efficient and uses natural resources

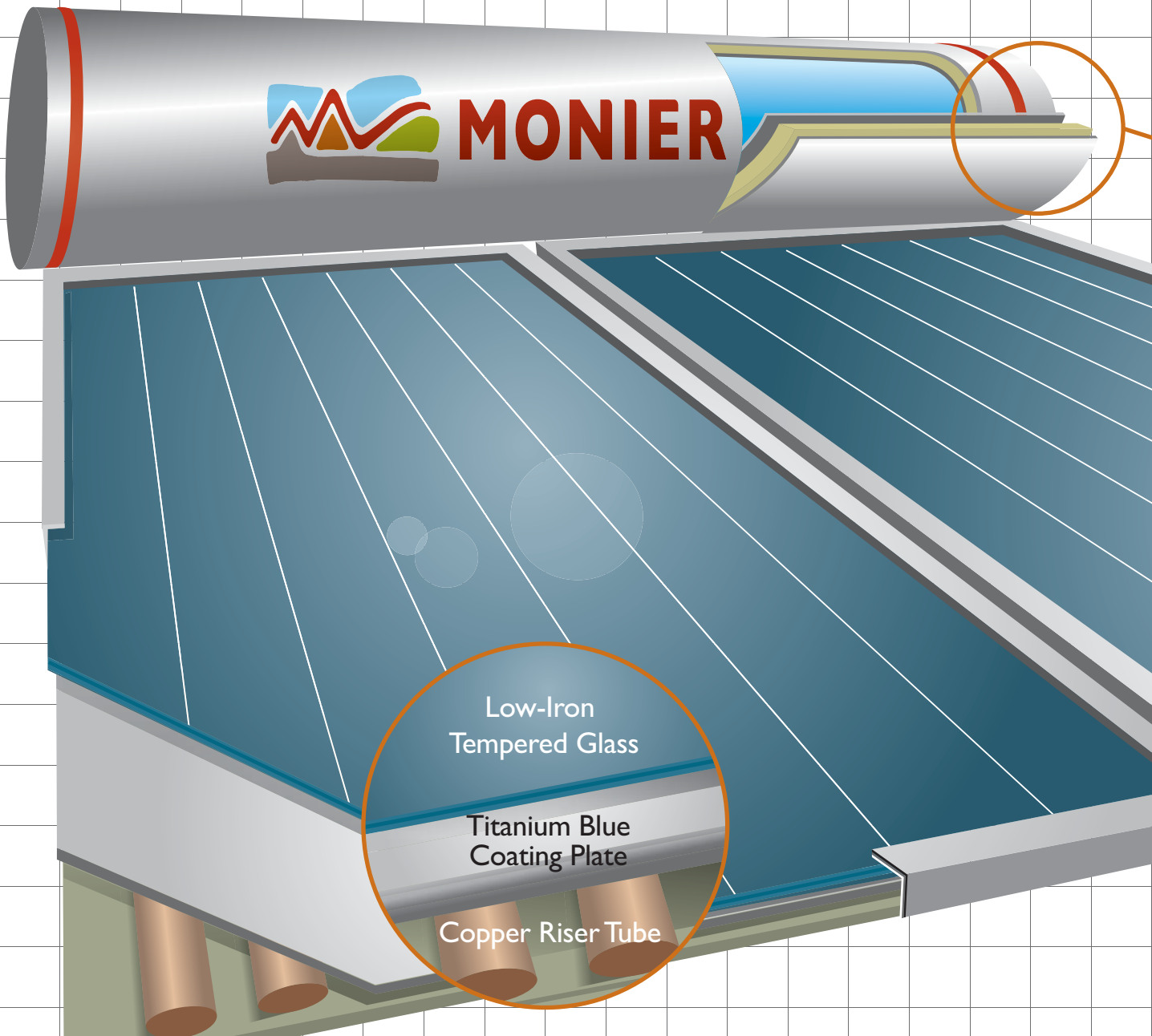
✗ Not environmentally friendly due to high usage of energy

✓ Independent of power from the power grid - hot water is readily available regardless of power outages

✗ Dependent on electricity from the power grid - water heating system not functional during power outages

✓ A centralised system channels hot water evenly throughout the residence

✗ Only able to be installed and channel to limited locations



OPTIMUM PERFORMANCE

MONIER Solar Water Heating System: Premium

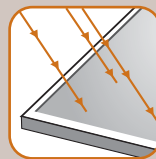
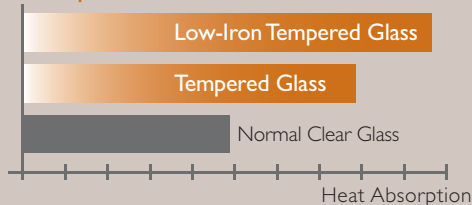
The low-iron tempered glass used here transfers heat faster than ordinary glass; thus providing hot water faster. A specially engineered titanium coated closed-circuit system also helps quicken the process.

MONIER Solar Water Heating System: Standard

Standard range of systems use tempered glass; which offers higher protection against breakage. The use of tempered glass makes the system more durable and energy efficient.

Maximum Heat Absorption

MONIER SOLAR WATER HEATING SYSTEM



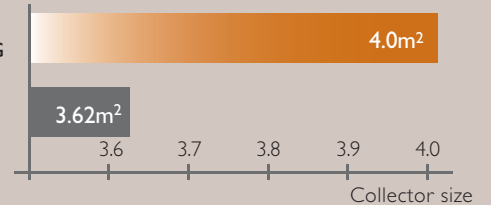
LARGE SURFACE : MAXIMUM HEAT ABSORPTION

MONIER Solar Water Heating System is designed with higher heat transfer results due to its collector size of 4.0m²; as larger surface produces higher water temperature. The system is also installed with a back-up booster to supply hot water anytime and every time to your home.

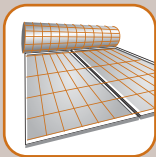
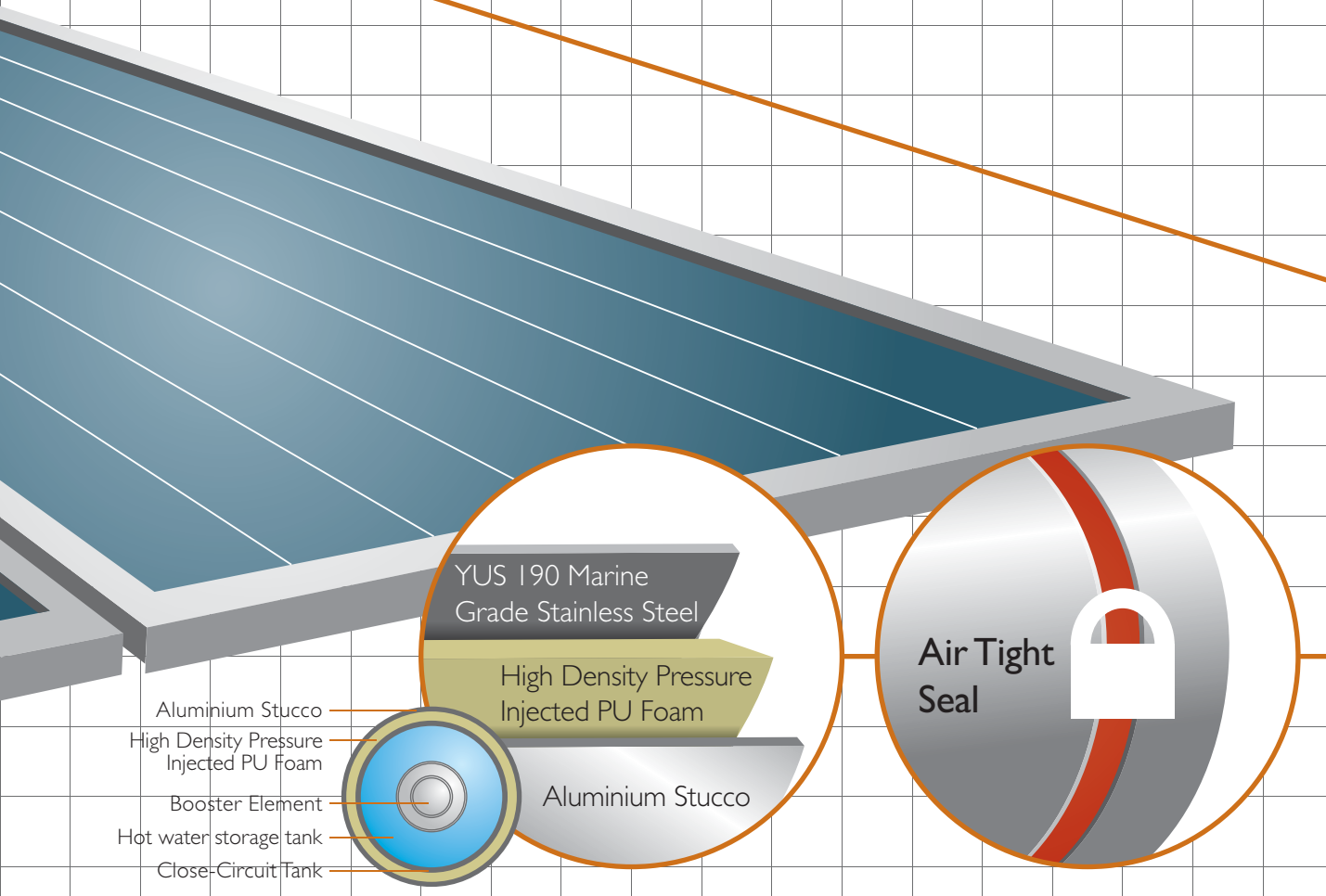
Large Surface

MONIER SOLAR WATER HEATING SYSTEM

Others Solar Water Heater System



UNPARALLELED QUALITY



DURABLE STRENGTH

The hot water tanks are engineered from YUS 190 Marine Grade stainless steel. Thickness ranges from 1.5mm to 2.0mm - one of the highest quality stainless steel available for corrosion prevention.

It incorporates an air tight seal which seals the critical areas of the system to keep rainwater out and gives optimum protection to the insulation system while preventing corrosion.



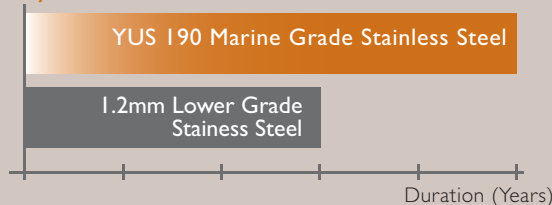
AUTOMATED WELDING

Our advanced technology is incorporated in the Solar Water Heating System via automated welding to hold its parts together, in comparison with the industry standard of manual tools. This ensures precision and longer life span thus giving better performance.

Ultimate Durability

MONIER SOLAR WATER HEATING SYSTEM

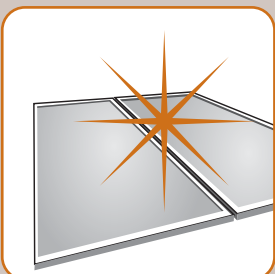
Others Solar Water Heater System



BLENDING IN NATURALLY



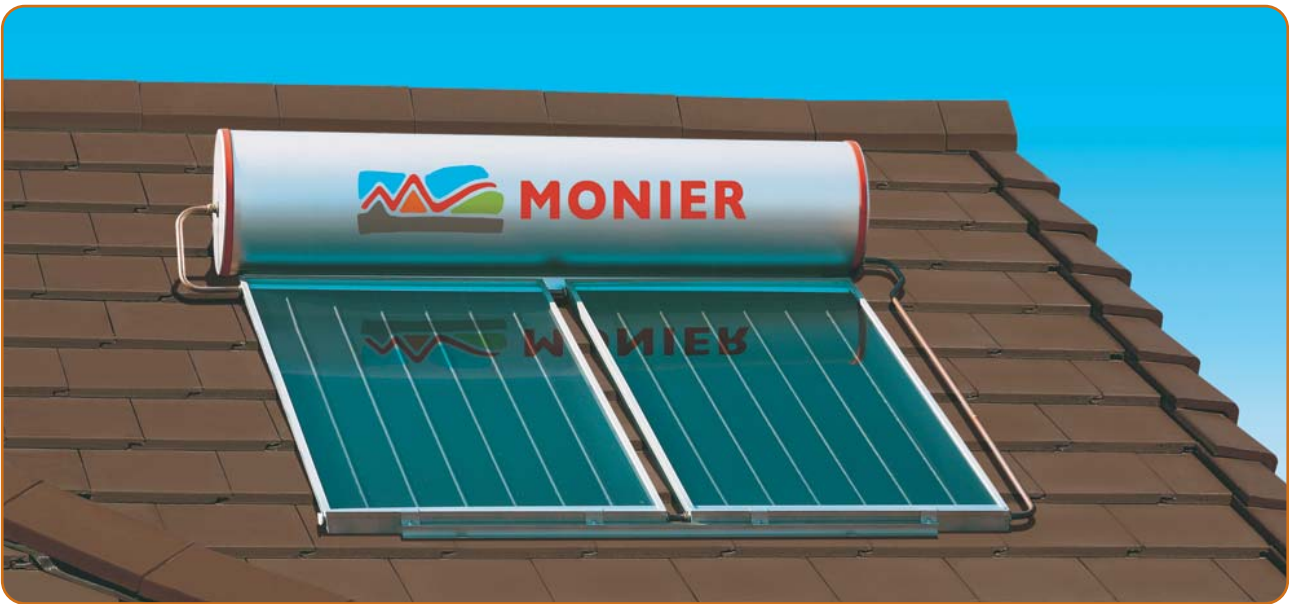
TRENDY DESIGN



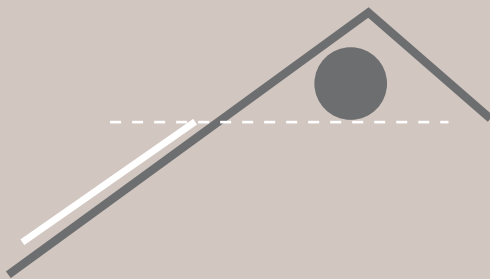
MONIER Solar Water Heating System is designed to fit naturally into your rooftop as the collector tank can be installed both above and under your roof; giving you a choice to have a trendy roof design. It has been conceptualised to create a smooth integration between the functional and aesthetic parts of your roof.

The Solar Water Heating System is easily incorporated into the MONIER Complete Roof System and still keeps your roof looking beautiful. With our full and comprehensive range of Roof Systems* available, there will be plenty of choices for you to choose from.

* | Toscana™ Roof System | Occitane™ Roof System | Legacy™ Roof System |
| Mediterraneo™ Roof System | MONIER range of Roof Systems |

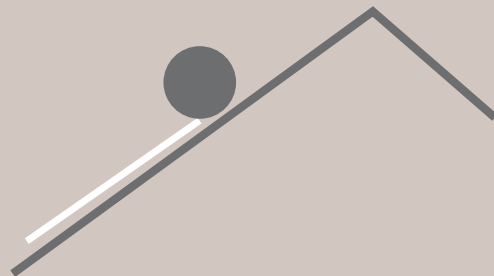


Aesthetic Installation



The concealed tank system is installed under your roof and gives it a clean, uncluttered surface. This method gives your roof a neat and seamless finish.

Classic Installation



The exposed tank system incorporates the storage tank and solar collector on the roof itself. This is a safe installation method which fits perfectly into any MONIER Roof Systems.

TOTAL ROOFING SOLUTION, TOTAL PEACE OF MIND



ONE-STOP COMPLETE ROOF SYSTEM

The One-stop Complete Roof System consists of tiles, fittings, roof trusses, roof system components & solar water heating system designed to cater for a variety of roof finishing details. With this comprehensive range of specially designed roof system products, it is now possible for you to achieve perfect functionality and a high standard of finishing.

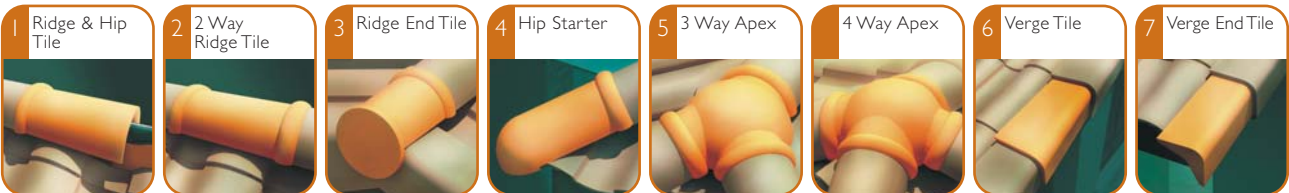
MONIER Solar Water Heating System is crafted to redefine the way you look at roofing systems. We understand that the process of designing and installing a roof can be challenging and intimidating. MONIER's one-stop complete roof center offers ultimate convenience by helping you to maximise your design options and minimise the hassle of dealing with multiple suppliers. Our ultimate aim of providing total roofing solution is to create total peace of mind for you.

When you choose MONIER, we ensure the simplest process for your perfect roofing solution.

Example: MONIER Mediterraneo™ Roof System



MONIER Design Fittings Series

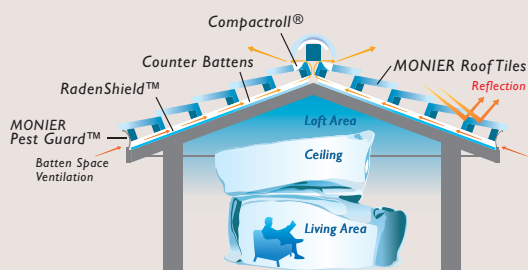


MONIER Roof System Components



Go GREEN, Think MONIER

From our low energy manufacturing processes to MONIER CoolRoof® insulating techniques, and now, MONIER Solar Water Heating System, you will get an exponential dose of green benefits and savings.

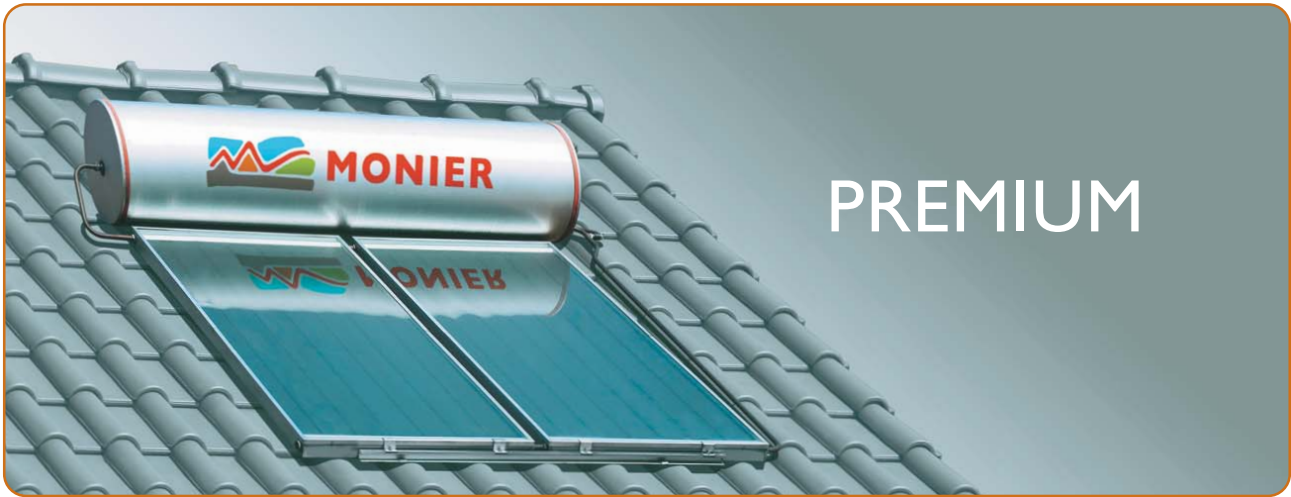


CoolRoof®

STAY COOL ALL DAY LONG

When installed with our CoolRoof® technique, your home will stay cool all day long. Whilst RadenShield™* reflects the heat, the Counter Battens, Compactroll® & MONIER Pest Guard™ create a natural ventilation stream from the eaves to the hips and ridges, removing the hot air trapped beneath the roof tiles. The result is a cooler home for you and your family.

* High Performance Radiant Barriers



PREMIUM

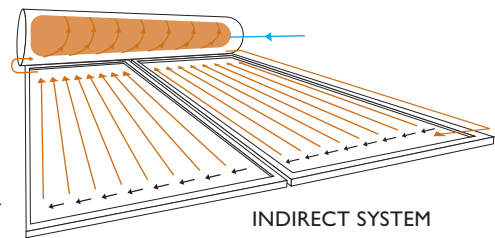
LOW IRON
Tempered
Glass

TITANIUM
Surface
Coating




**TOP
QUALITY
FITTINGS**

10
YEARS
Warranty

MONIER's Premium range of Solar Water Heating System is designed with the technically superior indirect heating system and is suitable for concealed installation solving our customer's needs for an aesthetically seamless finish. This system channels the sun's energy into the solar collector and heats up a transition fluid which transfers heat to the cold water in the storage tank. Less maintenance is required as no direct water is channeled through the circulation system and water heats up faster.



OVERALL DIMENSION

	Premium 180 Aesthetic Installation 	Premium 300 Aesthetic Installation 	Premium 300 Classic Installation 
Capacity (storage Tank)	180 Litres	300 Litres	300 Litres
Panel Dimension (LxWxH) mm	1940 x 1016 x 75 mm	1940 x 2290 x 75 mm	2290 x 2430 x 510 mm
Tank (L x Diameter) mm	1490 x 510 mm	2290 x 510 mm	2290 x 510 mm
Overall Weight (Empty)	109 kg	174 kg	174 kg
Overall Weight (Full)	305 kg	500 kg	500 kg

STORAGE TANK

Outer Cylinder Case Material	Aluminium Stucco
Tank Insulation	High Density Pressure Injected Polyurethane Foam
End Cover Material	Stainless steel
Cylinder Thickness / Material	2mm Type YUS 190 Marine Grade Stainless Steel

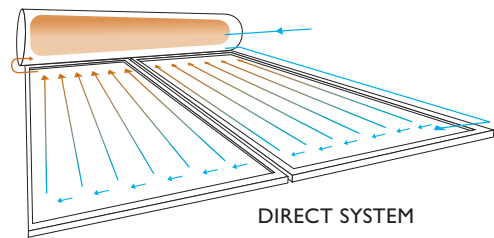
COLLECTOR

Design	Ultrasonic welding <small>Permanent molecular bonding between fin and riser tube results in high heat absorption and better efficiency</small>		
Plate Material	Copper		
Surface Coating	Titanium Blue Panel		
Absorption Coefficients	$>0.96 \pm 0.02$		
Riser Tube Quantity	8	16	16
Casing Material	Aluminium		
Glass material	Low iron tempered glass		
Glass thickness	3.0 mm		
Conceal tray	Required	Required	Not Required





- TEMPERED GLASS
- ZINC ALUMINIUM ALLOY STEEL Outer Casing
- TOP QUALITY FITTINGS
- 10 YEARS Warranty

MONIER's Standard range utilises direct system which optimises your water heating requirements. This system absorbs the sun's energy through its solar collector turning the cold water into hot water; which rises to the water storage tank. The continuous heat absorption process will ensure continuous hot water supply whenever you need it. This system provides a choice of two sizes of 180 litres and 300 litres.



OVERALL DIMENSION

	Standard 180 Classic Installation 	Standard 300 Classic Installation 
Capacity (storage Tank)	180 Litres	300 Litres
Panel Dimension (LxWxH) mm	1940 x 1016 x 75 mm	1940 x 2290 x 75 mm
Tank (L x Diameter) mm	1490 x 510 mm	2290 x 510 mm
Overall Weight (Empty)	89 kg	135 kg
Overall Weight (Full)	274 kg	445 kg

STORAGE TANK

Outer Cylinder Case Material	Zinc Aluminium Alloy Steel
Tank Insulation	High Density Pressure Injected Polyurethane Foam
End Cover Material	Zinc Aluminium Alloy Steel
Cylinder Thickness / Material	1.5mm Type YUS 190 Marine Grade Stainless Steel

COLLECTOR

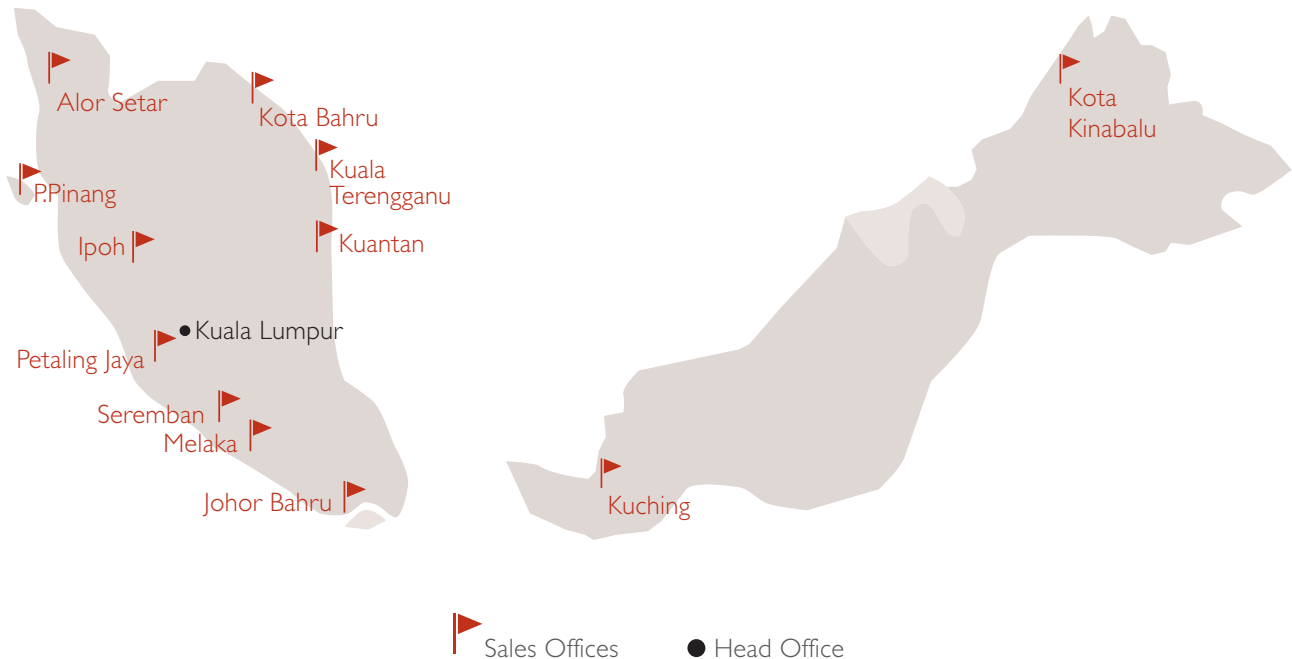
Design	Plate & Tube	
Plate Material	Aluminium / Copper	
Surface Coating	Matt Black Polyester	
Absorption Coefficients	$>0.94 \pm 0.1$	
Riser Tube Quantity	6	12
Casing Material	Zinc Aluminium Alloy Steel	
Glass material	Tempered glass	
Glass thickness	4.0 mm	
Conceal tray	Not required	Not required



MONIER



available at



for more product information or enquiries, call toll free 1 800 88 0865,
or visit www.monier.com.my



Best Brands in Roof Systems

The BrandLaureate Awards 2008 for Product Branding

With our passion for quality, we offer more than simply the means of covering a roof. Quality products and services made to give shelter, provide comfort, express style and create value. This is what you can expect from us – MONIER, ROOFS FOR LIVING.

MONIER SDN. BHD 15886-P

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