



Innovation In Green Energy  
(since 1968)

# Solar Hot Water System

We're Here Today To Help You Save For Tomorrow



# Solar Hot Water System

Delivering Sustainable



Pecol Solar Hot Water System is a proven system that has been manufactured and developed over the years by Pacific Engineering Sdn Bhd. Our latest solar hot water system is the result of extensive research and development which incorporates the most advanced technology from USA. The PECOL design team had created this modern, durable and high efficiency system that will blend beautifully with most housing styles to meet your hot water heating needs.

## Environmentally friendly, reduces your carbon footprint.



Free hot water from the sun.

Enhanced Energy retention.

Ultra Fast Heating.

Built to last.

Meets international quality and safety standard.

Reliable in house before and after sales services.

Reliable and efficient.

Air tight seal design.

Pollution free.

Manufacturer warranty.





## Solar Hot Water System

### 1 Ultra Solid Frame

Premium grade material are used throughout the construction of every Pecol Solar Hot Water System.

### 2 Ultra Fast Heating

Pecol solar water system has been precisely engineered to meet the need for constant hot water. It trap solar energy at a faster rate with its larger surface of area to allows better heat absorption.

### 3 Extra Energy Saving

Pecol crystal clear low iron tempered glass specially designed to allow the ultimate transmission of sunlight with negligible emission of heat directly onto the ultra black chromatic collector. The near 'Perfect Bank' UBC collector has an extra absorption power to deliver higher performance compared to any other collector.

### 4 Best Insulation

Pecol uses pressure injected high density polyurethane foam to restrict minimal heat lost to the atmosphere surrounding even at tremendous temperature difference.

### 5 Built to Last

Quality workmanship and quality material are pecol commitment. We assure high durability to give great value to your investment.

### 6 Hot Water All Year Round

Pecol comes with built in electrical backup for heating element for additional hot water needed during monsoon season efficiently maintain desired temperature anytime during rainy days.

### 7 Prolong Hot Water Temperature

Pecol has incorporated soft-flow water spreader to prevent make-up cold water from mixing freely with the heated water.

### 8 Pressure Solar Tank

Pecol's optimum water flow is designed to enable the right flow of hot water throughout your entire hot water plumbing system.

### 9 Tougher Protection

Pecols uses an UV treated air-light seal all around the side and goes all round the solar hot water tank to prevent rain water and other corrosive particles in the air seeping through.

### 10 State-Of-The-Art Design

The trendy and stylish slim like design is designed to blend into harmony of any roof profile.

### 11 Maintenance Free

Pecols has perfected the welds by using high technology robotic welding also to compressed seal by the quality brass fittings are used form preferred system.

### 12 Warranty

Pecols provide 10 years warranty after purchased.



# Specification - Pecol Solar Hot Water System

Total Capacity	66 Gal Or 300 L
Overall Length	2439mm
Overall Width	2286mm
Overall Height	508mm
Outer Tank Diameter	508mm
Outer Tank Length	2296mm
Nominal Working Pressure	500kpa
Cylinder Test Pressure	1500kpa
Relief Valve Settings	700kpa
Weight Empty (Total)	128kg
Weight Full (Total)	432kg
Outer Cylinder Case Material	Zincalume
Tank Insulation	Polyurethane
Thermostat	Sunvic

## TANK INSULATION

A) Polyurethane Foam	Polyol & Isocyanate Mix
B) Method	High Pressure Injection
C) Weight	10kg (approx)

## SOFT FLOW WATER SPREADER

A) Diameter	30mm
B) Method	1.6m
C) Material Specification	Polypropylene

## TANK

A) Cylinder Body Length	2133mm
B) Cylinder Body End	64mm
C) Cylinder Diameter	410mm
D) Cylinder Material	2mm Marine Grade

## COLLECTOR CASING

A) Material	Zincalume
B) Thickness	0.9mm
C) Vent Holes	2
D) Trim Depth	15mm

## LOW IRON CLEAR TEMPERED GLASS

A) Thickness	4mm
B) Size	994mm x 1918mm
C) Insulation Material	Rockwool

## COLLECTOR

A) Length	1930mm
B) Width	1003mm
C) Height	51mm
D) Absorber Plate Design	Tube & Fin
E) Absorber Plate Material	Aluminium
F) Absorber Plate Thickness	0.7mm
G) Nett Absorber Area (Single)	2sq.m
H) Absorber Plate Coating	Ultra Black Chromatic
I) Absorber Coefficient	0.95
J) Emission Coefficient	0.1
K) Coefficient Tolerance	+/-0.02
L) No. of Riser Tubes	6
M) Riser Tube Material Thickness	0.71
N) Riser Bond	Thermal Bond
O) Riser Plate Spacing	139mm
P) Riser Joint Type	Brazed
Q) Panel to Panel Joint	22mm Compression Fitting
R) Leak Test Pressure	800kpa
S) Over Pressure Test	1500kpa

## OVERALL DIMENSIONS

A) Overall Tank Length	2286mm
B) Overall Length of System	2438mm
C) Tank Height	508mm
D) Collector Length	1930mm
E) End Cap Width	41mm
F) Collector Width (Single)	1003mm
G) Collector Width (Complete)	2199mm
H) Tank Width	508mm
I) Tank Height	508mm
J) Overall Length of System	2286mm
K) Collector Height	51mm

## END CAP

A) End Cap Seal Material	EPDM Blend UV Protected
B) End Cap Seal Width	13mm
C) End Cap Material	0.9mm Powder Coated Steel
D) End Cap Width	41mm
F) End Cap Diameter	508mm