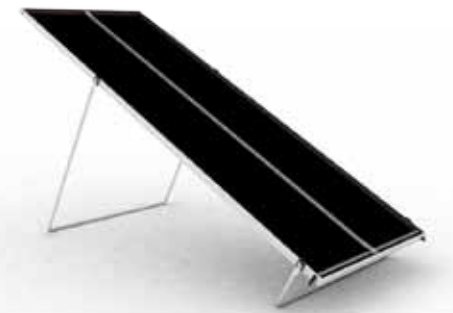


“Thousands have lived without love, not one without water”



A BREAKTHROUGH IN SOLAR  
POWERED DESALINATION  
and Purification



Feed Water

Clean Drinking  
Water

UV Treated  
HOT Water

CAROCCELL™ Panels  
For safe drinking water quality



**F Cubed Limited**

Unit 1/32 Oakover Road  
Preston Victoria 3072  
Australia

[www.fcubed.com.au](http://www.fcubed.com.au)

CAROCCELL™ Direct Solar Powered Desalination Technology is one of the most efficient and cost effective product of its kind in the world.

The panel(s) system creates its own natural sun-powered water cycle to revitalize water to drinking water quality from ANY water source. This includes polluted, contaminated, industrial waste water, brackish ground water, saline aquifers and sea water.

**Pure clean drinking water from any water source only using sunshine!**

F CUBED  WATER  
CLEAN WATER TECHNOLOGY



## How it works

The system receives impure water by gravity or pump into a feeder pipe at the top of the unit.

The input water slowly runs down the solar/collector evaporator being evenly dispersed.

Solar energy heats the water, it vaporizes and then condenses on the inside of the composite plastic panel enclosure. This phase change precludes any transfer of contaminants into the pure water.

Droplets of naturally purified/desalinated water run down into a pure water outlet at the bottom of the unit.

The unique natural purification/desalination system design enhances efficiency of clean potable water output.

The design includes composite layers of the water tight panel enclosure and the surface treatment of the solar collector. As well as allowing the moist air to circulate, producing condensate on the interior front and back surfaces of the enclosing panel.

The Carocell panel is a flow through system. The feed water that is not evaporated continues down and out of the Carocell panel and can be used as UV treated hot water (depending on feed water source) or be reprocessed a number of times through the Carocell Solar desalination panel.

## What it does

CAROCELL™ Direct Solar Powered Desalination Technology, working at an ambient temperature, heats the input water causing a vapour condensation change precluding all bacteria and pathogens, therefore eliminating all water borne diseases.

Exposure to ultra violet light and extreme heat from solar energy through the advanced composite panel enhances the germ killing process. Output water through this natural process is purified/desalinated to a level of 1-10ppm of (TDS) totally dissolved solids (sea water is measured at 35,000ppm TDS).

## What you get out of it?

CAROCELL™ Solar Waterpurifiers only use the sun's energy, there are - no moving parts, no electronics, it is robust and easy to set up, low maintenance and very low in operating costs because the water purifier only needs solar energy. The feed water is supplied by gravity or pressure pump enabling it to be completely versatile to fit within your current demand.

## Why it's so unique

55-65% efficiency solar energy to naturally purified water, with peak efficiencies over 80%

50% more efficient than most comparable products

### CAROCELL™ 3000

Water Output\*: 15 L/day plus rainfall harvesting

Dimensions: 1110 x 2880mm

Surface Area: 3.0m<sup>2</sup>

Weight: 17Kg

### CAROCELL™ 2000

Water Output\*: 10 L/day plus rainfall harvesting

Dimensions: 1110 x 2000mm

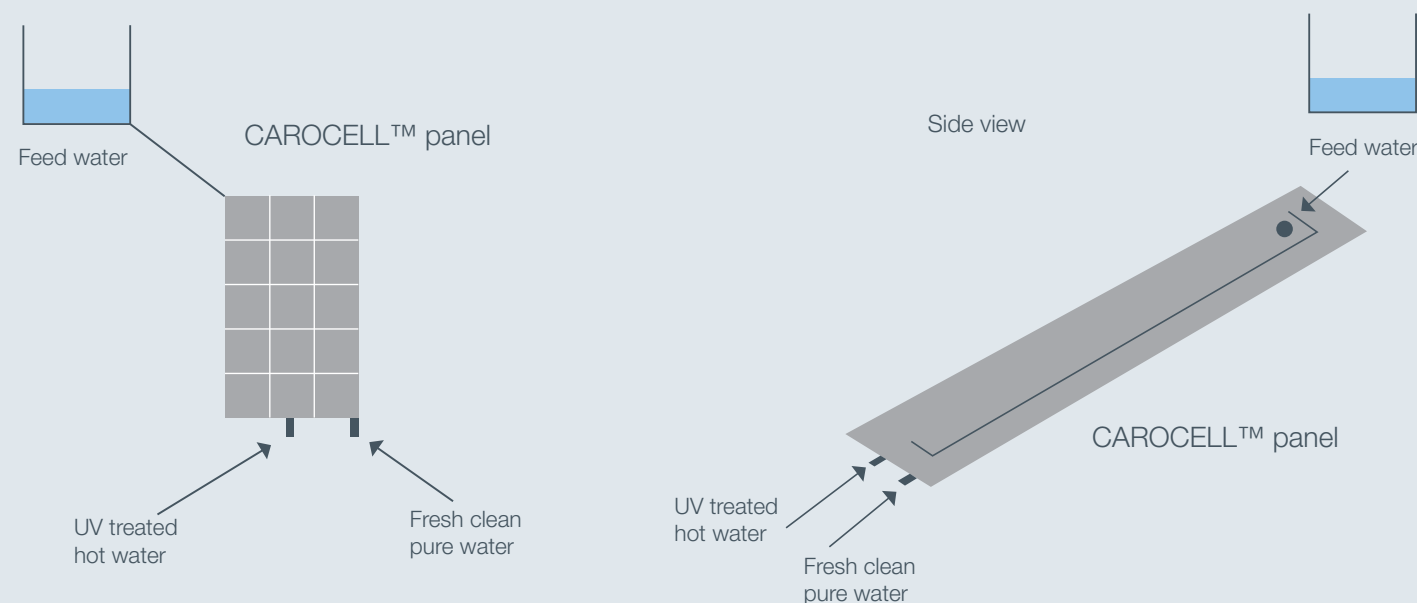
Surface Area: 2.0m<sup>2</sup>

Weight: 15Kg

\* Water output is a daily average and may vary depending on solar energy available.

“ The human right to water entitles everyone to sufficient, safe, acceptable, physically accessible and affordable water for personal and domestic use ”

U.N. General Comment No.15 on the right to water, 2002



## Rainwater Harvesting Bonus

- CAROCELL™ panels desalinate/purify any type of water but also function as rainwater collectors
- Rainwater Harvesting is captured by a simple but practical 'gutter' at the bottom of the panel.

### Installation and Maintenance

- installation – 10-15 mins
- maintenance – zero/minimal
- no cleaning or washing needed
- easy simple operation
- gravity or pump feed

### Expected Life Span

- 10-20 years
- 2 valuable sources of water 'Pure Clean Drinking Water and UV Treated Hot Water'

### High Tech – Low Tech

- advanced technology
- high efficiency rating
- easy and simple to use
- easy to operate

### Legs or Railing System

- easy install legs for single panels or
- multiple panel railing system

