

# New Generation

## Closed Circuit Solar Hot Water Systems



K<sub>F</sub> Series



 **Solahart**<sup>®</sup>  
*hot water free from the sun*

# The Solahart K<sub>F</sub> Series

... setting the pace



Solahart's 'K<sub>F</sub>' Series sets the pace in efficient hot water energy. Quite simply, no other brand of solar hot water system comes better than this.

The secret to the K<sub>F</sub> series outstanding performance is Solahart's revolutionary multi-flow collector panel and our superior Black Chrome Selective Surface. The traditional fin and tube collector design means that there is a limit to the number of risers that can be effectively incorporated in the panel, generally 14 or less and typically less than 10. Therefore there is a limit to the water way surface area exposed to the sun's energy. Not so with our multi-flow design! We have pioneered, and patented, an advanced collector design that uses a huge 35 risers to extract the maximum amount of energy from the sun.

The 'K<sub>F</sub>' Series has been specifically engineered to deliver premium performance in areas with low to medium solar radiation, areas with poor water qualities, or areas with frost or snow conditions. So in areas where there's heavy winter conditions you can be confident that the Solahart 'K<sub>F</sub>' Series will deliver piping hot water.

## You'll Recoup Your Investment

True! The savings you'll make on your power bills, from the sun's free energy, means that you will recover the cost of your initial investment in a few short years. So, your Solahart K<sub>F</sub> Series not only pays for itself, but it provides you with genuine savings year after year. Guaranteed. Depending on where you

live and how much hot water you use, up to 90% of your hot water can be free from the sun. You won't get that with an ordinary gas or electric system.



## Application Guide

System	Mains Pressure	Water Quality	Frost Conditions	Solar Gain Area			Warranty
				Low	Medium	High	
L System	✓	Potable	✗	✗	✓	✓	5 Years
J System	✓	Wide range	✓	✗	✓	✓	5 Years
K <sub>F</sub> System	✓	Wide range	✓	✓	✓	•	5 Years
J-Free Heat	✓	Wide range	✓	✗	✓	✓	10 Years*
K <sub>F</sub> -Free Heat	✓	Wide range	✓	✓	✓	•	10 Years*

- ✓ Signifies system is ideally suited for this application
- Signifies system may be over rated for this application during the summer months and we recommend fitting a temperature limiting device.
- ✗ Signifies system is not suited for this application and its use may void warranty.
- \* Warranty: 10 Years on Cylinder and Collectors, 5 Years Parts and Labour.

NEW GENERATION

K<sub>F</sub> series

1 5 0 K<sub>F</sub>  
 1 8 0 K<sub>F</sub>  
 2 2 0 K<sub>F</sub>  
 3 0 0 K<sub>F</sub>  
 4 4 0 K<sub>F</sub>



24 HOURS A DAY  
 365 DAYS A YEAR

## The Super K<sub>f</sub> Collector

The new and improved Solahart K<sub>f</sub> collectors have been developed over many years and provides excellent solar absorption. The absorber panels are made from pressed steel plates formed into a fully-flooded multiflow pattern. This means that our special Hartgard fluid that travels through the collector is in direct contact with far more of the absorber plate than open circuit collectors greatly enhancing the systems performance.

The surface is coated with a Black Chrome selective surface and housed in a marine grade aluminium case, with glasswool insulation, and low iron tempered glass.



## You'll always have hot water - 24 hours a day

The superior construction of the Solahart K<sub>f</sub> system, along with its 5 year warranty, gives you the peace of mind that your new Solahart is built to last and will be supplying you piping hot water for many years to come. Not only that, but with the standard electric or optional gas booster, you'll have hot water even on the cloudiest days. Backed by Solahart's expert service team, you're on a winner with a Solahart.

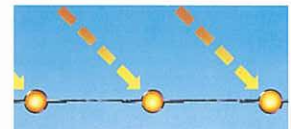
## Revolutionary Multi-Flow

No other solar hot water system attracts and uses the sun's energy as effectively as Solahart's. The tough, unique black chrome plating combines with Solahart's exclusive Multiflow solar absorber panel to heat water faster and more efficiently.

This unique design provides a number of benefits: because the system circuit is filled with Solahart Hartgard, it is not susceptible to clogging or corrosion as a result of poor quality water supplies. Further, the Hartgard fluid will not freeze, so the collector waterways are not susceptible to rupture even under the coldest conditions.



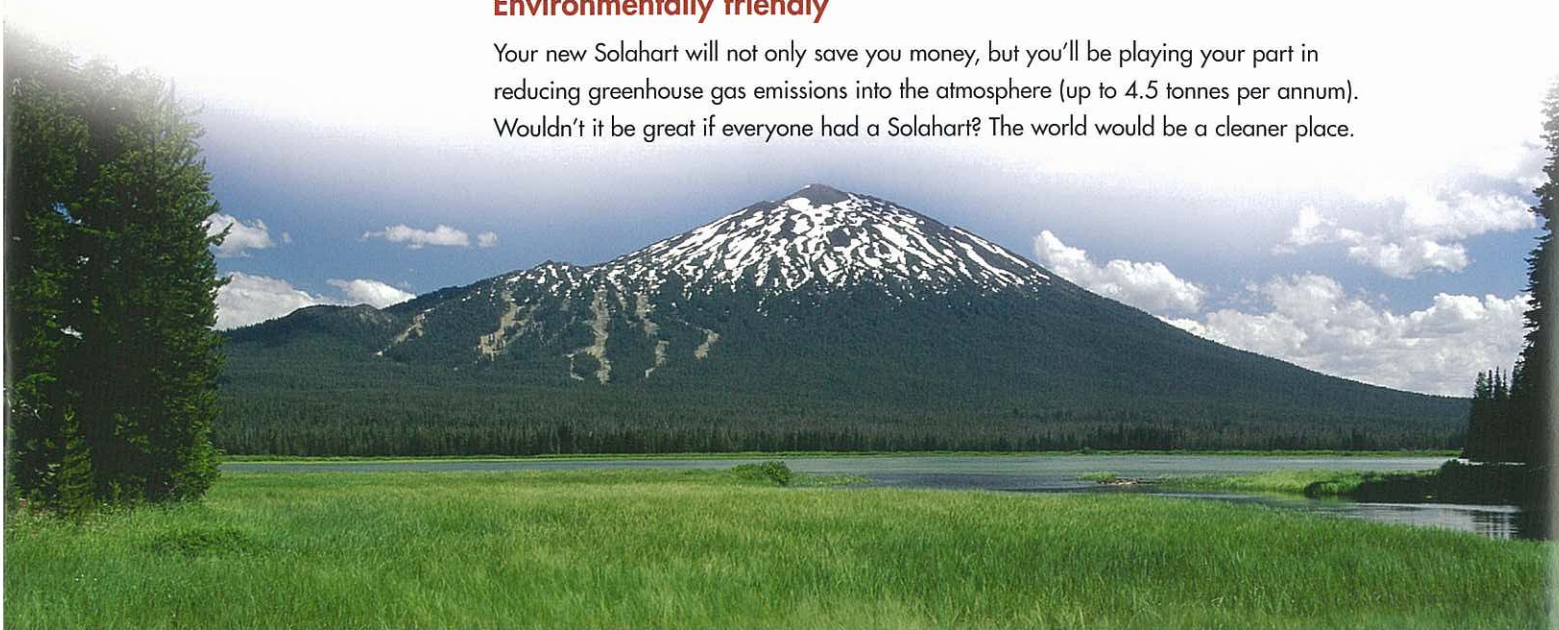
*Solahart's multi-flow collector*



*Standard fin and tube collector*

## Environmentally friendly

Your new Solahart will not only save you money, but you'll be playing your part in reducing greenhouse gas emissions into the atmosphere (up to 4.5 tonnes per annum). Wouldn't it be great if everyone had a Solahart? The world would be a cleaner place.



## Sizing Recommendation\* - To maximise your solar savings

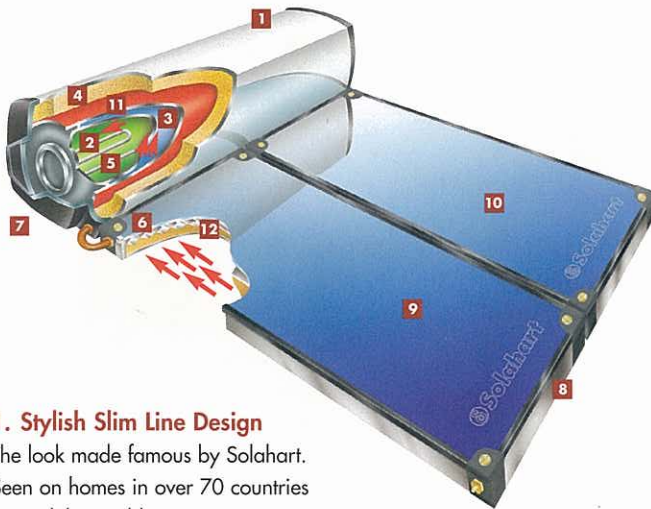
K <sub>F</sub> Series		151	181	182	221	222	302	303	443
Solar Gain	Low (with boost)	-	1	2	3	4	6	7	10
	Medium	1	2	3	4	5	7	8	11
	High	2	3	4	5	6	8	9	12

**Legend:**  = 1 Person  = Conditional Person

If you use hot water in the laundry for washing, or, have an appliance connected to the hot supply, then each of these appliances will count as an extra person. The semi-regular use of a bath would count as 2 people, and the semi-regular use of a spa bath would count as 3 people.

\* This is a guide only and the figures shown are suggested to maximise your solar savings, with minimal boosting. Actual hot water requirements will vary from location to location, will depend on cold water temperatures, ambient temperatures, seasonal variations and other factors.

**The K<sub>F</sub> Series is so reliable it's backed by Solahart's conditional 5 year warranty. (For further information see separate product warranty.)**



### 1. Stylish Slim Line Design

The look made famous by Solahart. Seen on homes in over 70 countries around the world.

### 2. Hot water 24 hours a day, 365 days a year.

On those days when there's insufficient solar energy, your automatic booster (left switched on) cuts in to maintain hot water temperature for loads of hot water around the clock.

### 3. World's Most Advanced Technology.

Your K<sub>F</sub> Series features a revolutionary sealed jacket around the storage cylinder. This enables the Hartgard fluid to flow from the solar collector panels around the outside of the storage cylinder and quickly transfers its heat to the water stored in the cylinder. Simply put, it means plentiful hot water, supplied free from the sun, is ready and waiting for constant use.

### 4. High Density Insulation.

The cylinder is insulated in its durable aluminium case by pressure injected, high density, environmentally safe polyurethane foam which is CFC FREE! The result, your water stays hotter longer.

### 5. Superior Protection.

The large capacity water storage cylinder is protected from the harshest water with not one, but two coats of Primaglaze® ceramic lining. Plus there's now a long life heavy duty sacrificial anode.

### 6. Corrosion Protection.

Solahart's exclusive closed circuit system and Hartgard fluid also eliminates risk of the collector plate corroding or clogging from the inside.

### 7. Long life – low maintenance

The system is designed to provide long life with built in design requirements for maintenance ease in even the harshest climate and water conditions.

### 8. Looks Better, Lasts Longer.

Proven premium quality aluminium, used for Solahart's collector case, looks better and, more importantly, lasts longer.

### 9. Proven High Performance.

Maximum absorption of solar energy is achieved by the unique, super responsive solar collectors which are designed to absorb more solar radiation and transfer it more efficiently.

### 10. Solar Glass.

Superior quality solar glass is tougher, providing superior performance, protection and appearance.

### 11. Freeze Protection.

Solahart's exclusive closed circuit technology is all the protection you need to prevent freezing in frost-prone or cold climate regions.

### 12. Exclusive Multi-Flow Solar Collector.

Greatly increases heat transmission to transfer fluid.

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