Solahart®
hot water free from the sun®

Split System
DKV & DJV Series Electric Boost

Description

The Solahart Streamline (closed circuit) is a split system solar water heater with roof mounted slimline collectors and a tank that can be installed discreetly on the ground. It is suitable for use in low to high solar gain areas.

The closed circuit design protects the system from freezing, making it suitable for regions prone to frost. It is also ideal for use in areas with a harsh water supply.

The system is equipped with an electric booster element and thermostat which senses when boosting is required to ensure hot water regardless of the weather.

The Streamline closed circuit system offers a choice of either the Solahart KF or J collector.

Both model collectors feature Solahart's revolutionary multi-flow collector which uses a huge 35 risers to extract the maximum amount of energy from the sun.

The higher efficiency absorber of the KF collector with its Black Chrome selective surface further maximises the absorption of available solar energy providing even more savings.

Key Features

- **Suitable for frost prone areas or harsh water areas**
- **Stylish slimline design**
- **Storage tank can be installed indoors or outdoors**
- **Solar connections to top of the tank makes for simpler and tidier installation**
- **Controlled variable flow through solar collectors to maximise solar gain**
- **Choice of collectors to suit high to low solar gain areas**

Key Benefits

- **Can save up to 35% to 80% of water heating energy consumption***
- **Hot water regardless of the weather**
- **Qualifies for valuable environmental incentives***
- **Reduced energy use can save up to 1.4 to 2.8 tonnes of CO_2 emissions per annum***
- **Peace of mind with Solahart's 5/3/1 year warranty†**
- **Space efficient and flexibility with installation**

* Energy savings of up to 35% to 80% shown are based on Australian Government approved TRNSYS simulation modelling using a medium load. Savings and incentives will vary depending upon your location, type of Solahart system installed, orientation and inclination of the solar collectors, type of water heater being replaced, hot water consumption and fuel tariff. Maximum financial savings off your hot water bill are achievable when replacing an electric water heater on continuous tariff. Refer to solahart.com.au for further information.

† Solahart Warranty Details: 5/3/1 warranty, 5 year cylinder and collectors supply, 3 year labour on cylinder, 1 year parts including labour, 1 year labour on collectors; applies to a single family domestic dwelling only. All other applications have a 3/1/1/1 warranty, 3 years cylinder supply, 1 year collectors supply, 1 year parts, 1 year labour.

In Australia, an amended warranty period may apply where a government rebate has been received for the solar water heater. Phone 1300 769 475 for details.

Streamline Closed Circuit DKV & DJV – Electric Boosted Systems

These systems are suitable for frost and harsh water areas.

DKV and DJV Systems

System	272DKV/272DJV	273DKV/273DJV
Tank model	270DBV	270DBV
Collector DKV Series	KF	KF
Collector DJV Series	J	J
No of collectors	2	3

Solar Storage Tank

Tank model		270DBV
Storage capacity	litres US gal	270 71
Installation		outdoor / indoor
Boost capacity	litres US gal	125 33
Weight empty	kg lbs	146 322
Weight full	kg lbs	416 917

Electric Boost Specifications

Heating unit type*	copper sheath immersion element			
Supply voltage	240 Volts (50 Hz)			
Recovery rate @ 240 V and temperature rise of:				
Rating kW	Current Amps	30°C litres/hour	40°C litres/hour	50°C litres/hour
2.4	10	69	52	41
3.6	15	103	77	62
4.8	20	137	103	83

* Low watts density elements available for hard water areas.
^ Incoloy elements availabe for corrosive water areas.
The water heater will only operate on an electricity supply with a sine wave at 50Hz. Devices generating a square wave or a lower frequency cannot be used to supply power to the water heater.

Solar Pipe Work

Max. height tank (base) to collectors (top)*	m	9	m	29
Relief valve setting	kPa	200	psi	29
Solar circuit pipe length	collectors	1 - 2		3
Total solar cold + solar hot	m ft	40 131	m ft	30 98
Pipe size	DN15 copper (hard drawn or bendable grade)			
Min grade (fall) in pipe work	1 in 10 (5°)			
Solar pipe connections (at tank)	DN15 compression fitting			

* For heights from 9 m to 18 m, an auxiliary pump kit (299914) is required.

Water Supply

TPR valve setting	kPa	1000	psi	145
ECV* setting	kPa	850	psi	125
Max. supply pressure				
with ECV	kPa	680	psi	100
without ECV	kPa	800	psi	115
Water connections	cold hot	RP¾/20 RP¾/20		

* Expansion control valve (ECV) is not supplied.

Energy Tip: When installing your solar water heater, install minimum 3 star rated shower roses and flow restrictors to your taps if you don't already have them. This will not only save water but make sure your solar savings go further.

Collectors

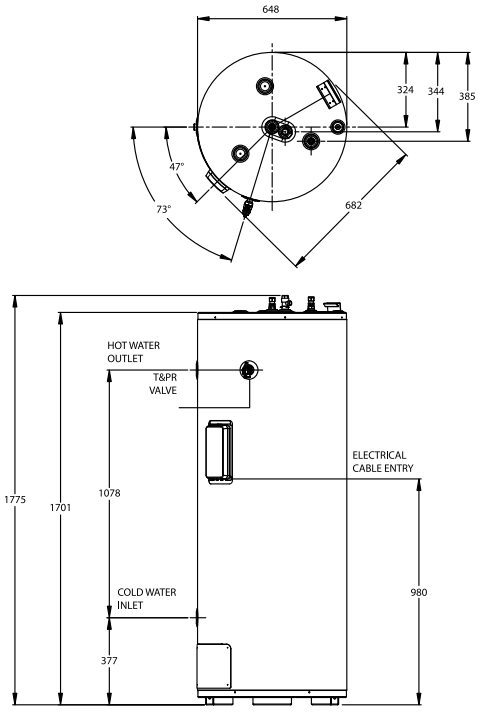
Aperture area		m^2	1.87	ft^2	20.0
Dimensions	length	mm	1937	in	76.3
	width	mm	1022	in	40.3
	height	mm	77	in	3.0
Capacity		litres	3.5	US gal	0.9
Weight	empty	kg	42	lbs	93
	full	kg	46	lbs	101
Working pressure		kPa	200	psi	30
Absorber surface	KF		Chromonyx selective surface		
Absorber surface	J		Black polyester powder coat		
Absorber/Riser material			Steel		
Number of risers			35		
Tray material			0.7mm aluminium		
Insulation material – base KF			38 mm glasswool blanket		
Insulation material – base J			38 mm polyester blanket		
Glass			3.2 mm tempered low iron		

Collector Installation

Roof Area Dimensions	Collectors	2	3
Length*	m in	2.0 78.8	2.0 78.8
Width*	m in	2.3 90.6	3.4 133.9
Collector kit (KF & J collectors)		12104299 (2 collectors)	12104300 (3 collectors)

* An additional 0.9m (35.4in) should be left on all four sides of the collector installation for safe access and servicing.

Streamline Electric Boosted



Technical data is subject to change.

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