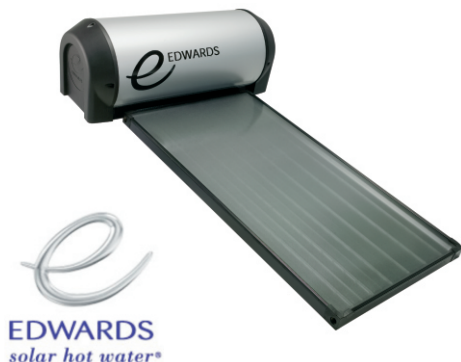


# TECHNICAL BROCHURE

## Solar Hot Water



### EDWARDS Solar Water



In the harsh South African climate, the Edwards LX Series system is the only choice. It uses the highly efficient heat transferring properties of a special anti-freeze fluid to transfer the energy to heat the water indirectly.

With an 'indirect system' water does not pass through the collector panels, instead the anti-freeze mixture is circulated from the collectors through a heat exchange in the storage tank, transferring the heat into the water.

The benefit of the 'indirect' heat exchange process is that the system can be used confidently in frost prone areas, without risking damage to the system; it offers protection against freeze damage in conditions of up to minus 18 degrees Celsius.

The storage cylinders for all Edwards solar water heaters are constructed from long life stainless steel. Stainless steel acts as a natural barrier to corrosion. Therefore, Edwards stainless steel systems do not require a sacrificial anode and are virtually maintenance free.

The new modern design of the LX Series system was designed and manufactured in Australia for a range of conditions. Not only will it compliment any home's roof and save you immediately on your home's energy costs, it offers you peace of mind knowing it has been developed to last for years.

Storage Cylinder	Units	LX180	LX305	LX440
Capacity	litres	177	294	429
Outside Dimensions	mm	571 x 1215	571 x 1905	571 x 2700
Heating Circuit Capacity (Approx.)	litres	5	9	12
Weight - Full	kg	237	378	545
Weight - Empty	kg	60	84	116
Working Pressure	kPa	850	850	850
Insulation (Polyurathane Thickness)	mm	47	47	47

### Solar Collectors

Number of		1	2	3
Dimensions	mm	1941 x 1027 x 84	1941 x 2094 x 84	1941 x 2094 x 84
Nominal Surface Area	m <sup>2</sup>	2	4	6
Weight - Full		Refer to specific collector data sheet.		
Weight - Empty		Refer to specific collector data sheet.		

### Total System

Dimensions - Area on Roof	mm	2562 x 1615	2562 x 2494	2562 x 3581
Weight - Full	kg	277	455	659
Weight - Empty	kg	98	157	225

### Water Supply

TPR valve setting	kPa	850	psi	125
ECV* setting	kPa	700	psi	100
Max. supply pressure with ECV	kPa	550	psi	80
Max. supply pressure without ECV	kPa	680	psi	100
Min. supply pressure	kPa	200	psi	29

### Electric Boost Specifications

Heating unit type	Copper sheath immersion element.
Supply Voltage	220 V - 250 V

Hourly recovery rate @ temperature rise of:

Rating	Current	40`C	50`C	60`C
kW	Amps	litres/hr	litres/hr	litres/hr
2.4	10	52	41	34
3.6	15	77	62	52

