

SOLAR WATER HEATING GUIDE



ecofriendly



economical



Ecosmart



100
YEARS
MANUFACTURING
IN AUSTRALIA

POWERED BY THE AUSTRALIAN SUN[®]

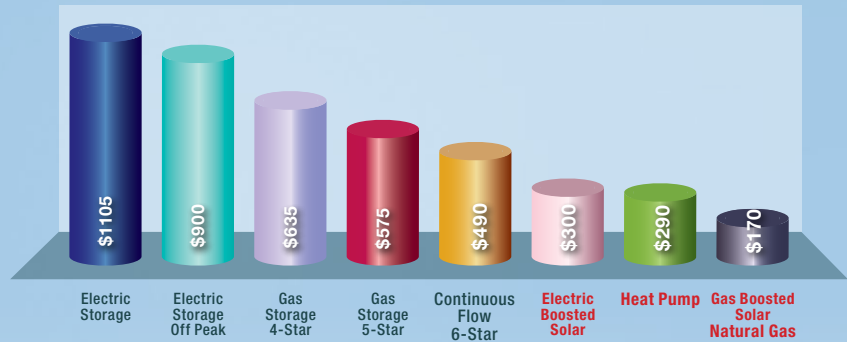
Australia has an abundance of sunshine all year round, so it makes sense to use this efficient and free energy source to heat your water.

Conventional electric and gas storage water heaters can account for up to a third of your households energy bill.

With energy prices continuing to rise, it's great to know that you can reduce your power usage right now - with the latest range of Dux Ecosmart solar water heaters.

▶ SO BRIGHT IT PAYS FOR ITSELF

Unlike electricity, the power of the sun is completely free. When you switch to solar to heat your water, you can naturally make a massive saving. Simply replacing your existing electric system with an electric boosted solar hot water water system may save you in excess of 70% on your hot water expenses.



Graph; Based on 4 people (150 litres per day) - Source: www.sustainability.vic.gov.au. Savings may vary depending on your hot water load, system type, tariff and location. Consult your energy retailer for tariff pricing.



REDUCING THE UPFRONT COST OF YOUR SOLAR WATER HEATER

When you purchase and install a Dux Ecosmart solar system, simply trade your STCs to earn a discount of approximately \$1,120[^] off the cost of your new solar water heater.

Dux Ecosmart solar water heaters boast amongst the highest number of STCs of eligible solar systems.

STCs are available for both new construction and replacement installations.

State Government incentives may also apply where you live. Both NSW & VIC offer certificate trading schemes for residential applications when replacing electric or gas water heaters. See back page for program links.

Check with your council if additional rebates are available in your local area.



ELECTRIC BOOSTED SOLAR			STC ZONE [^]			
	COLLECTORS		1	2	3	4
250L	D2M36F202	2	27	30	26	23
315L	D3M36F202	2	28	30	27	23
315L	D3M36F203	3	30	32	32	28
400L	D4M36F202	2	27	30	26	23
400L	D4M36F203	3	30	32	32	28

GAS BOOSTED SOLAR			STC ZONE [^]			
	NATURAL GAS	COLLECTORS	1	2	3	4
250L	D2F20226N	2	26	29	26	23
315L	D3F20226N	2	26	29	26	23
315L	D3F20326N	3	30	31	32	28
400L	D4F20226N	2	26	29	26	23
400L	D4F20326N	3	30	31	32	28
	LPG	COLLECTORS	1	2	3	4
250L	D2F20226L	2	26	29	26	23
315L	D3F20226L	2	26	29	26	23
315L	D3F20326L	3	30	31	32	28
400L	D4F20226L	2	26	29	26	23
400L	D4F20326L	3	30	31	32	28

[^]Systems eligibility for STCs and STC values are subject to change without notice and are correct at time of printing. STCs calculations are based on continuous tariff. STC values attributable to solar and heat pump water heaters are being reduced by 10% per year as of 2023. The values stated in the tables above match the values published in the register of solar water heaters. These include a reduction in STCs (checked Jan 2024). Use the STC calculator link www.rec-registry.gov.au/rec-registry/app/calculators/swh-stc-calculator to calculate the number of STC your installation is eligible for. The systems eligibility for STCs will be based on the year in which the system was installed.[^]Calculation references STC eligibility of D3M36F203 in zone 3 (32) and STC valuation of \$35 per STC.

FEATURES AND BENEFITS









If you're aiming to save money and reduce your carbon footprint, choose a Dux Ecosmart solar water heater.

Ecosmart solar uses the sun's energy to heat water via roof mounted solar collectors, and are available with either an electric or gas booster ensuring hot water on cloudy days or in times of high demand.

Ecosmart solar is designed to save you money on energy bills, providing an economical, sustainable hot water solution for years to come.

- ▶ Split system design provides flexible installation locations without the need for expensive roof reinforcement
- ▶ Available in electric or gas boosted models
- ▶ Multi-temperature sensors on a vitreous enamel tank configuration enable optimum solar gain while reducing the risk of overheating
- ▶ Australian made storage tank features durable Y class commercial grade enamel and a larger anode to increase tank life
- ▶ Dense, polyurethane insulated storage tank
- ▶ Very low energy consumption European designed circulating pump
- ▶ German made smart system controller
- ▶ High performance solar collectors are lightweight and ensure efficient heat transfer to the water
- ▶ Mains pressure hot water
- ▶ Eligible for generous government incentives
- ▶ 7-year tank warranty, 5 year collector warranty, 1-year parts and labour*

CAPACITY	ELECTRIC BOOST		GAS BOOST	
250L		2-4		2-5
315L		3-5		3-6
400L		4-7		4-9

Adult icon can represent dishwasher or washing machine. Size figures are based on environmental averages which can affect the performance of solar and heat pump heaters. Based on connection to continuous tariff.

ELECTRIC BOOSTED



GAS BOOSTED



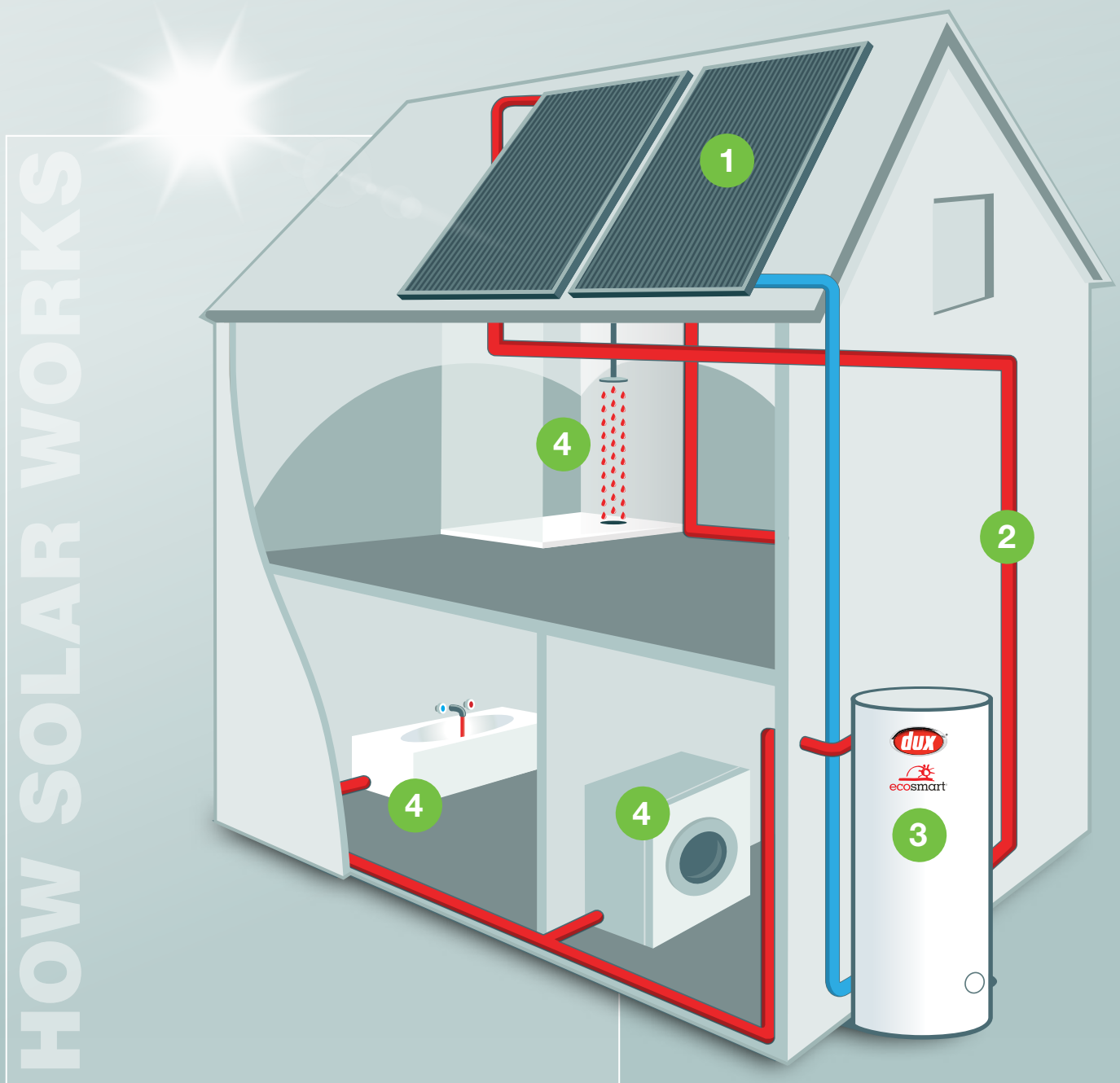
HOW DOES YOUR SOLAR HOT WATER SYSTEM ACTUALLY HEAT YOUR WATER



1. The Ecosmart Solar Hot Water system detects when the roof mounted collectors are being heated by the sun.
2. The water heater circulates cold water up to and through the solar collectors, which pushes heated water back into the storage tank.
3. The water heater continues to harness solar energy until all the water in the tank has reached optimal temperature.
4. This stored hot water is available to be used by the house at any time.

Note:

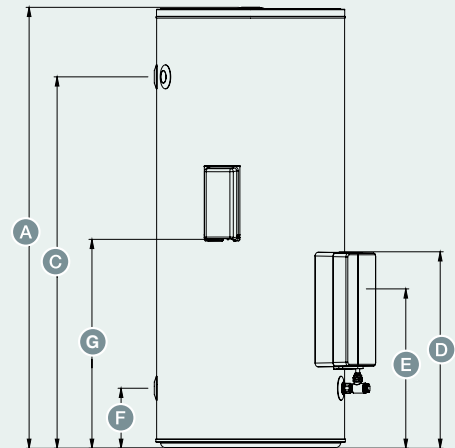
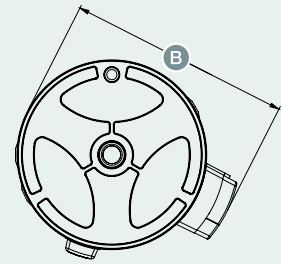
In periods of poor solar gain or heavy water usage, if the stored water is not up to temperature, it may be 'boosted' by an electrical element or gas continuous flow (model dependant) to supplement the hot water supply.



SPECIFICATIONS

TANK SPECIFICATIONS	250L	315L	400L
ELECTRIC BOOSTED MODEL	250DPM36	315DPM36	400DPM36
GAS BOOSTED MODEL	250DP0	315DP0	400DP0
Storage Capacity (L)	258	323	420
Element Boost Capacity (L) - Electric only	120	146	230
Net Tank Weight Empty (kg)	72	92	116
Relief Valve Pressure (kPa)	1000	1000	1000
Max Inlet Pressure (kPa)	800	800	800

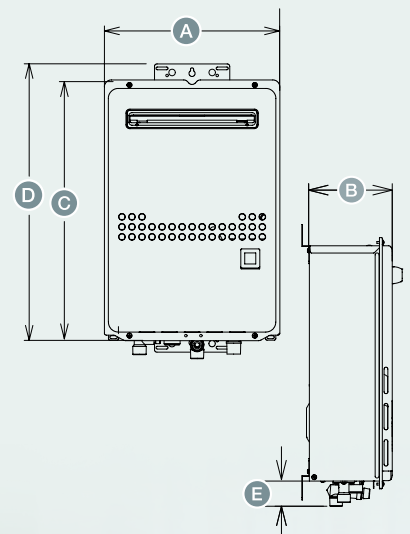
TANK DIMENSIONS (MM)	250L	315L	400L
A Tank Height	1440	1760	1700
B Tank Diameter	730	730	820
C Outlet Height	1210	1530	1445
D Solar Return Height	640	845	645
E Pump Outlet Height	520	520	545
F Inlet Height	195	195	220
G Electrical Entry Height (Electric only)	680	880	695



GAS BOOSTER SPECIFICATIONS

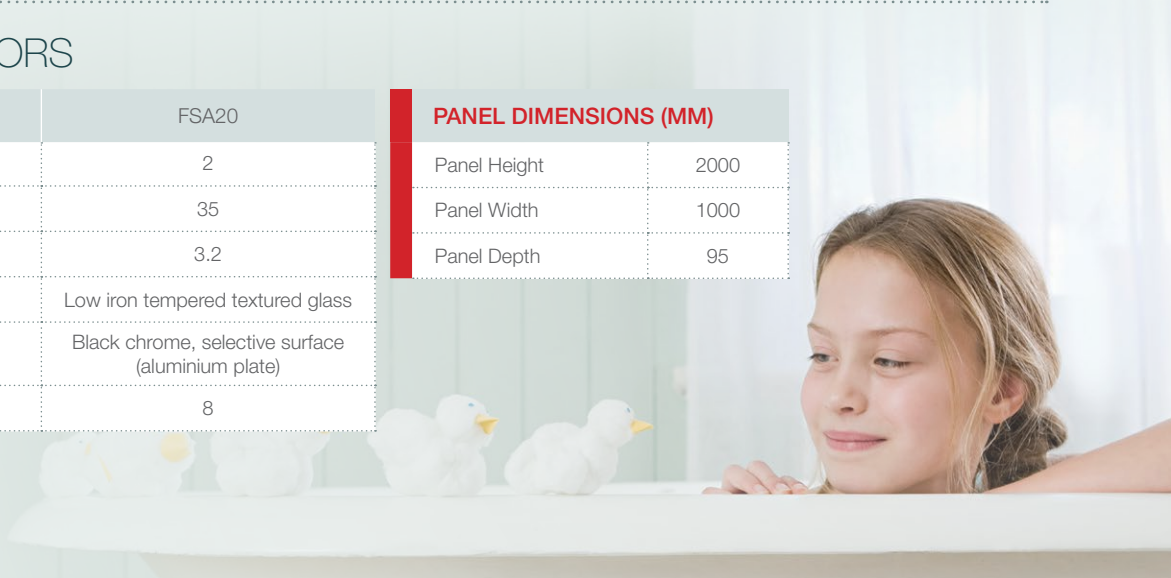
BOOST SPECIFICATIONS	
Gas Continuous Flow	26L/min
Gas Consumption (MJ/Hr)	200
Gas Type	Natural / Propane
Cold Water Socket Size (mm)	RP3/4"/20
Gas Pipe Inlet Size (mm)	RP3/4"/20
Relief Valve Pressure (Kpa)	1000
Weight (kg)	22

DIMENSIONS (MM)	
A Width	350
B Depth	170
C Height - Unit	520
D Height - Including Brackets	575
Gas Connection Length (From Base)	44
E Cold Connection Length (From Base)	53
Hot Connection Length (From Base)	45



SOLAR COLLECTORS

PANEL SPECIFICATIONS	FSA20	PANEL DIMENSIONS (MM)	
Total Area (m ²)	2	Panel Height	2000
Weight Without Water (kg)	35	Panel Width	1000
Glass Thickness (mm)	3.2	Panel Depth	95
Glass Material	Low iron tempered textured glass		
Absorber Material	Black chrome, selective surface (aluminium plate)		
Copper Rises	8		





IS AN ECOSMART SOLAR WATER HEATER SUITABLE WHERE I LIVE?

Solar water heaters can be prone to frost issues when installed in areas with very low ambient temperatures. All Dux products are fitted with pumped circulation, and optionally anti-frost valves to prevent frost damage from occurring. These may still not be able to prevent water in the collectors freezing during very cold conditions.

To see if a Dux Ecosmart solar water heater is suitable where you live visit www.dux.com.au/installation-areas



MAKES SENSE... SAVES DOLLARS

When you purchase and install a Dux Ecosmart solar water heater, you may be eligible for a variety of incentives that reduce your upfront cost.

Each incentive has eligibility requirements that need to be met.

There are a number of incentives for the Dux Ecosmart solar water heater range including but not limited to:

- ▶ Small-scale Technology Certificates (STCs) - www.cleanenergyregulator.gov.au
- ▶ NSW - Energy Savings Scheme (ESCs) - www.energy.nsw.gov.au
- ▶ VIC- Victorian Energy Upgrades Program (VEECs) - www.esc.vic.gov.au
- ▶ VIC- Victorian Solar Homes Program - www.solar.vic.gov.au
- ▶ ACT- Sustainable Household Low Interest Rate Finance Scheme - www.climatechoices.act.gov.au

Check with your council if additional rebates are available in your local area.

.....
Call us on 1300 365 116 or visit
dux.com.au

*WARRANTY

Full warranty terms and conditions are in the product's Owners Manual, visit www.dux.com.au/warranty-terms for full details and conditions which apply.

Sales: 1300 365 116 Service: 1300 365 115 or visit dux.com.au for more information.

© 2024 Dux Manufacturing Limited ABN 19 077 879 844. Lackey Rd, PO Box 209 Moss Vale, NSW 2577.

The information supplied was correct at time of printing. Technical data, specification and materials is subject to change.

Dimensions are subject to production tolerances and may vary slightly from those given. The images shown in this brochure are for illustrative purposes only, may not to scale and may vary in colour to those of the represented product.

© and ™ Trademarks of Dux Manufacturing Limited. APR2024

