

EcoOnline Performance+™

Premium Solar Pool Heating Systems

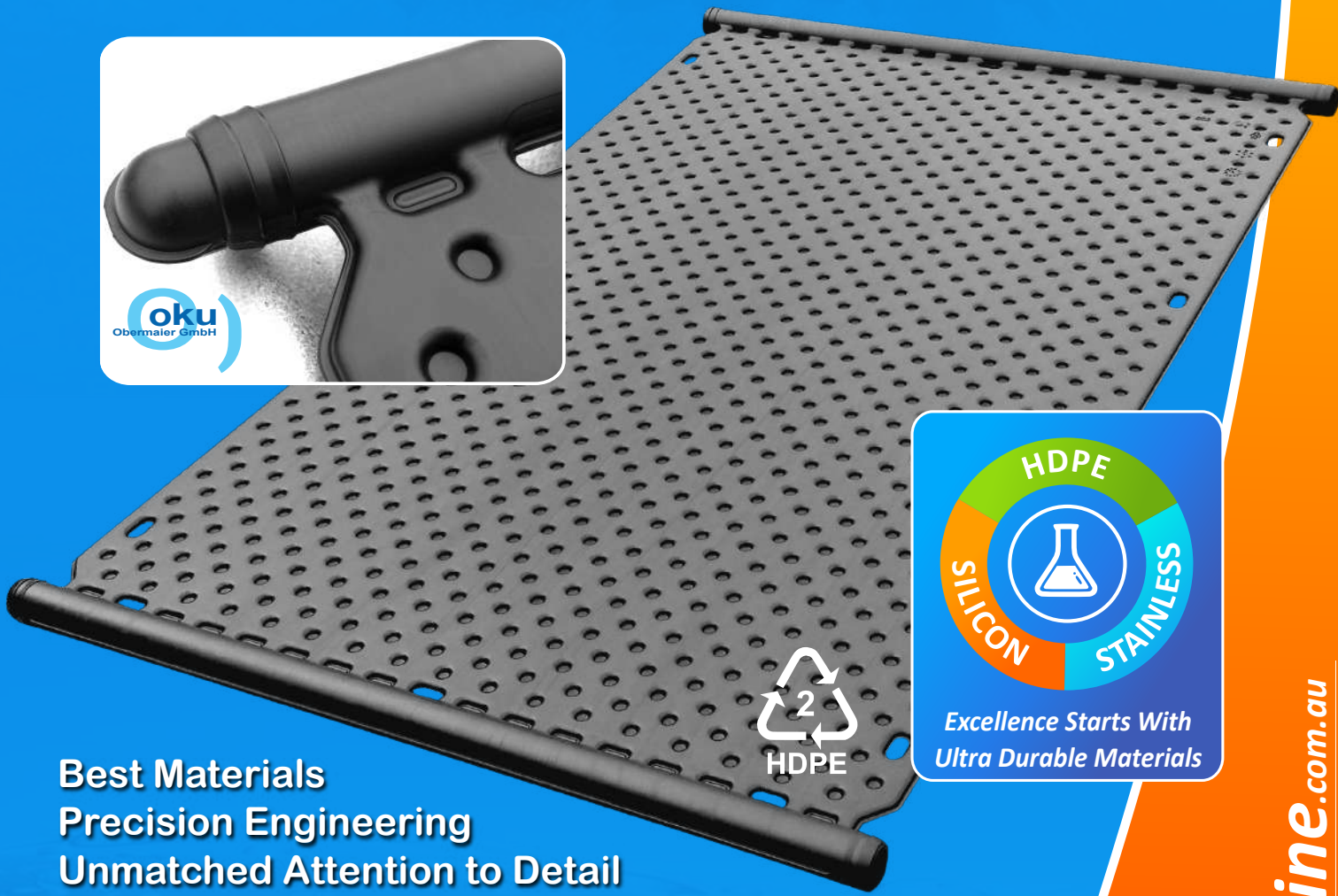
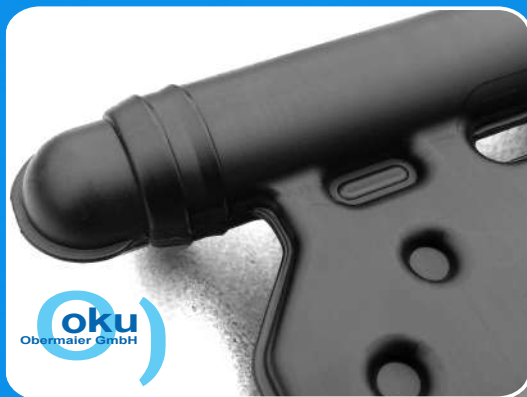
OKU Panels Adapted for Australian Conditions

Designed to be the best solar pool heating systems in Australia – bar none.

Dr Gregory Grochola (PhD)



German Certified Panels



Excellence Starts With Ultra Durable Materials

**Best Materials
Precision Engineering
Unmatched Attention to Detail**



www.EcoOnline.com.au

EcoOnline / Optex Solar Pty Ltd
ABN: 88 128 228 884
Address: 7B Steele Crt, Mentone, 3194, Victoria
Website: www.EcoOnline.com.au
Email: info@EcoOnline.com.au



EcoOnline.com.au
best choice under the sun



Absolutely No Compromise On Materials Selection

- HIGH DENSITY POLYETHYLENE collector panels which are near indestructible in the sun
- 316/314 ALL STAINLESS fixing straps and clamps for maximum strength and longevity
- SILICON joiners with thick reinforced soft grade silicon for perfect seals each time



Efficient & Ultra Durable OKU HDPE Panels

- Open channel high water flow design with HDPE's superior heat conductance
- Flat collector face with no air gaps for lowest possible wind and hot spot loses
- Unbeatable performance in cool, spring and autumn weather when you need it most



Cockatoo, Hail and Leak Protected

- Proven HDPE cocky and hail proof track record
- Soft joiners and a unique negative pressure system
- And an easy panel leak repair system just in case



Potable Grade

- No need for winter flushing
- No phthalate PVC plasticisers
- German TUV certification



Reduced Pumping Needs

- Open collector channels with parallel row feed
- High flow design with minimum pumping power
- Substantial power savings over small diameter tube systems



Lowest Pressure and Thermal Cycling Design

- Other companies may oversize collectors and/or pumps and don't care for later
- We advise very low collector pressures and do not oversize systems
- Resulting in the lowest pressure and thermal cycling rates for max longevity



Don't Pay \$5K - \$10K for Inferior Systems

- Pool companies ask a mint for rushed installs during peak seasons
- DIY if you can do it safely or source your own trusted installer
- You'll get the best components and the best install for much less



* NegShield™ sets up a small negative pressure at the collector roof level. Note: for independent setups this may not be possible if a constrictive return outlet is shared with the main filter pump and the solar and filter pumps are running simultaneously.



EcoOnline Performance+™ System Options



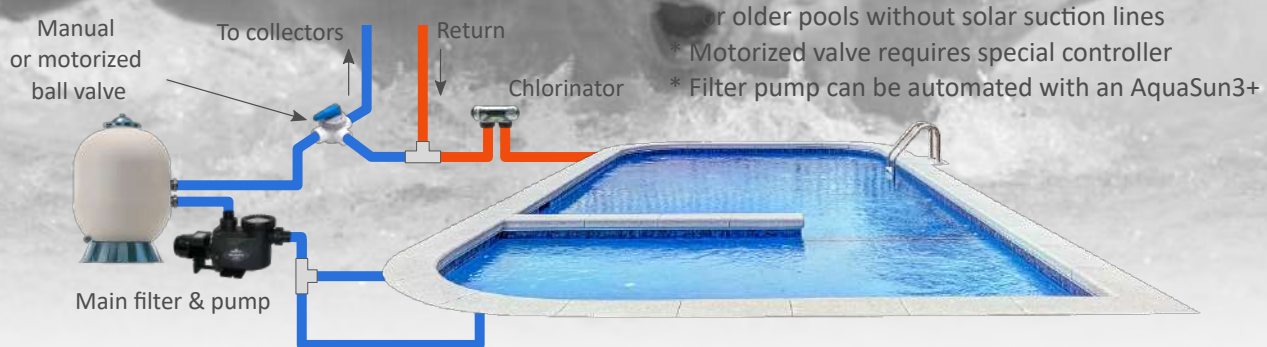
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Independent System (recommended)



Manual/Timer/Motorized Ball Valve System

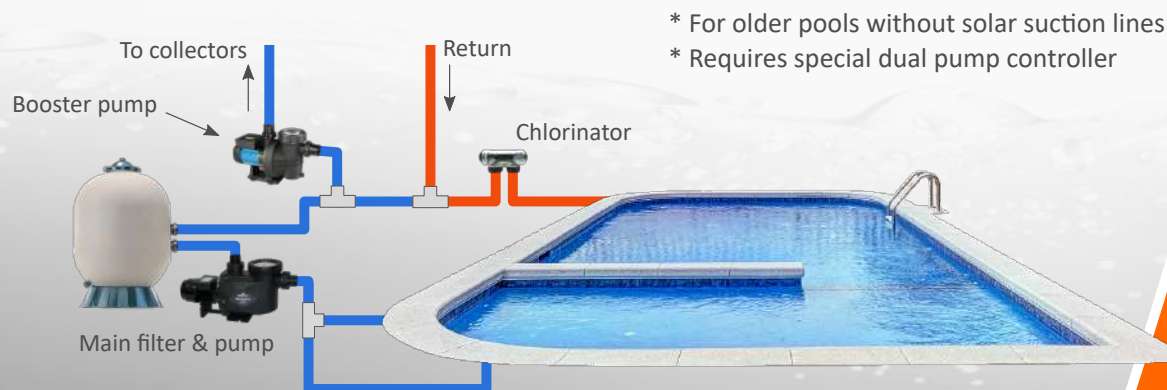


Integrated-Independent System



† Contact info@EcoOnline.com.au

Booster/Retro Fit System



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Performance+™ OKU Panel Specs



German
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Panels



Performance+ OKU Panel Mechanical Specs	
Gross area (dual header)	1.2m ²
Dual header panel length	1360mm
Interconnect panel length	1340mm
Panel width	845mm
Dual Header Pipe OD	40mm metric
Interconnect Pipe OD	25mm metric
Cockytoot resistant	Yes
Suitable for water types	All
Material (polyethylene)	HDPE grade
Certification	SRCC
Supports human weight	Yes
Warranty	35 Years

Performance+ OKU Panel Thermal Specs	
Pressure drop at 3.3L/m/m ²	0.06 psi
Optimal flow rate range	2-5L/min/m ²
Minimum flow rate	as low as 1.2L/min/m ²
Weight	6 kg or 12kg with water
Water content	<6L
Testing pressure	65 psi
Recommended working pressure	-1 to 1psi
Efficiency at 1000W/m ²	89%
Temperature range	20 to + 115°C
Frost resistant	Yes

Performance+™ vs Tube Systems - Energy Savings

A Performance+ system uses open channel, low pressure drop collectors which require smaller solar pumps than that used for other narrow tube systems. This results in substantial energy savings; below we give an example of the energy saved across an expected 35 year lifetime of a Performance+ system. As you can see in most locations the energy savings alone cover the better part of the system cost (approx \$4K for 30 panels). And this does not include electricity price inflation nor does it include savings from the extra wear on a pump operating at a higher pressure as is the case for a tube system, or the amount of time (let alone risk) you'll save not needing to get up on the roof to plug the next leaking PVC tube.

Pump energy savings for a 30 panel EcoOnline Performance+ system over 35 years

	Months in Season	kWhs Saved per Day	Savings per Season	35 Year Savings
Melbourne	6	2.7	\$111	\$3,880
Sydney	7	2.7	\$129	\$4,527
Perth	8	2.7	\$148	\$5,174
Brisbane	8	2.7	\$148	\$5,174
Hobart	5	2.7	\$92	\$3,234
Adelaide	7	2.7	\$129	\$4,527

Assumptions:

* We compare a 30 panel Performance+ system requiring a 450W pump vs an equivalent PVC tube system requiring 900W pump for the same flow

* We assume an average 6 hour solar collection day and a 22.5c/kWh electricity cost

As such there is a good chance that your Performance+ system will actually pay for itself in reduced electricity and pump replacement costs. How good is that!

All of this makes the exceptional *EcoOnline* Performance+ OKU system the absolute best choice for your next - or should we say the *LAST* pool heating system you'll ever need to buy!



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