



Technical Specification Sheet

Sun Lizard Solar Climate Control System (Dual Collector) (NC)




For Buildings With No Roof Cavity

KEY COMPONENTS



(External insulated roof ducting or wall ducting is not included)


Component	Description	Specifications
Solar Heat Collector 	<p>This specially designed solar glass, coated metal and insulated box, creates heat to over 100 degrees Celsius. Air circulates through the angled baffles picking up this heat and the returning air is up to 50 degrees Celsius.</p>	<p>Width: 1520mm Depth: 1220mm Height: 120mm Weight: 60kg per collector Qty: 2</p>
PV Panel 	<p>Generates electricity from the sun hitting the silicone crystal cells. Manufacturer guaranteed for 10 years.</p>	<p>Power: 30 Watts Voltage: 12 Volts Current: 1.78Amps Width: 592mm Depth: 502mm Height: 50mm Qty: 1</p>
Air flow control box 	<p>Controls the direction air travels. Through the collector and back to the house in heating mode, and out to the exhaust flue in cooling mode. (Weather proof cover supplied)</p>	<p>Width: 500mm Depth: 350mm Height: 200mm Qty: 1</p>
Fan box 	<p>Contains 4 powerful and reliable fans with smart design features to give maximum air flow and pressure. The fans are powered by the PV panel. (Weather proof cover supplied)</p>	<p>Fans: 4 x 6.8 Watt Fans Width: 590mm Depth: 265mm Height: 175mm Air Flow Rate: 6m³/min Inlet & Outlet Dia: 150mm Qty: 1</p>



Electronic control system	User friendly control panel sits in front of a sophisticated electronic control system to manage the Sun Lizards operation.	Wall mount switch & Cable Control Functions: On/Off, High/Low 240/12V plug pack Qty: 1
Exhaust Adaptor	To get rid of unwanted hot air in summer. The Exhaust Flue is used for roof cavities while the Exhaust Adaptor is used for roofs with no cavities. Exhaust adaptors will be supplied as an attachment to the Air Flow Control Box.	Opening: 150mm Dia Qty: 1
Ceiling Diffuser 	Inlet or return air always goes through the ceiling diffuser and out to the Sun Lizard	Colours: White Only Diameter: 150mm Overall Width: 270mm Functions: Open/ Close Qty: 1
Dektites  Metal Roofs  Tiled Roofs	To allow for flashing of metal pipe so to protect the roof from water or moisture.	Metal Roof Dektite Pipe: 110mm – 170mm Dia Base: 284mm x 284mm Colour: Black Tiled Roof Dektite Pipe: 110mm – 170mm Dia Base: 600mm x 450mm Colour: Black Qty: 2



OPTIONAL EXTRAS

Component	Description	Specifications
Filtered Cooling Vent  	Allow cool, filtered air to come into the building during summer and can be sealed off in winter. Comes with filter, floor register and floor boot. Floor register comes in various colours.	Width: 300mm Depth: 100mm Height: 135mm
2NSNC Kit	To tilt Heat Collectors at optimum solar angle. Suitable for buildings with no a ceiling cavity & a roof that is: -Flat - South Facing	2 x NS Roof frames

	<ul style="list-style-type: none"> - North Facing - East & West Facing with a collector on each roof 	
2EWNC Kit	<p>To tilt Heat Collectors at optimum solar angle. Suitable for buildings without a ceiling cavity & a roofs that is:</p> <ul style="list-style-type: none"> - East Facing only - West Facing only 	<p>2 x EW Roof frames 2 x NS Roof frames</p>
PV Frame 	<p>To tilt the PV panel to the correct angle for maximum solar gain.</p>	<p>Adjustable at various degrees and heights.</p>

SUPPLIED BY INSTALLER – EXTERNAL ROOF DUCT & WALL DUCT

Please see **External Roof Ducting Specification Sheet** and **Heating Duct & Vent Specification Sheet** for more information.

Component	Description	Specifications
Metal UV Stabilised, Insulated Y Branch	For external roof ducting. To allow the second solar collector to be connected to the first solar heat collector. Built or supplied by your local installer, plumber or builder. Please see External Roof Ducting Specification Sheet	<p>Inlet opening: 150mm Dia Outlet Opening: 150mm Dia R-Value: 1.0 Qty: 2</p>
Metal UV Stabilised, Insulated Bends 	For external roof ducting, connecting the Sun Lizard to the inlet and outlet vents. Built or supplied by your local installer, plumber or builder. Please see External Roof Ducting Specification Sheet	<p>Pipe: 150mm Diameter Qty: Dependant upon location</p>
Metal UV Stabilised, Insulated Pipe 	For external roof ducting, connecting the Sun Lizard to the inlet and outlet vents. Pipe must be metal, UV stabilised and Insulated. Built or supplied by your local installer, plumber or builder. Please see External Roof Ducting Specification Sheet	<p>Pipe: 150mm Diameter R-Value: 1.0 Qty: Dependant upon location</p>
Wall Duct, Transition Piece, Wall Register	Colorbond Wall duct that can be Inserted inside 90mm wall cavity or attached to an internal wall. Must include transition piece. Built or supplied by your local installer, plumber or builder. Please see Heating Duct & Vent Specification Sheet.	<p>Wall Duct Opening: 85mm x 350mm Height: Ceiling Height Transition Piece Rectangular Opening: 85mm x 350mm Round Opening: 150mm</p>

		Wall Register Length: 300mm Width: 100mm Functions: Open/Close
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SUPPLIED ACCESSORIES

- User Manual
- Installation Guide