

## Solar Pool Heating D.I.Y Kit

Thank you for buying a FSPH Solar Kit. This kit is designed for the home installer therefore it is made up in “easy to handle” quantities.

**All caution should be taken when working at heights and proper safety equipment should be worn at all times to avoid the risk of injury.**

Some tools required for installation are:      In your kit you should have:

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| <ul style="list-style-type: none"><li>• Hammer drill</li><li>• Hacksaw &amp; scissors</li><li>• Scissors</li><li>• Screwdriver</li><li>• PVC glue(not supplied)</li></ul> | <ul style="list-style-type: none"><li>• Absorber &amp; silicone spray</li><li>• Header Pipes and Sleeves</li><li>• Roof Glue and Saddles</li><li>• Vacuum Brake Valve (VBV)</li><li>• Elbows and End cap</li></ul> |
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NB: Install your solar absorber on your structure where it receives plenty of sunlight and close to your filter or solar provisions to minimize pipe work

*\*Allow solar to warm up in the sun as it easier to work with and it will sit better on the roof*

### **Fitting the absorber to the roof and header pipes:**

1. Check your roof size either by measuring your roof or by rolling out 1 roll of absorber and bring it back to where the header pipes are to be located (This is called a loop) A standard kit comes with 25 metre rolls, when rolled out and back they will make a 12.5metre loop. For different size roofs they can be cut back but you may need to join the off cuts to minimize waste and require extra header pipes to make extra loops
2. When happy with the solar location and you have double checked the length and width so the absorber and header pipes will fit,  
Install the header pipes as per the header pipe installation guide
3. After installing the header pipes, attach one end of the absorber to the header pipes by stripping the absorber back approximately 150mm by pulling the tube away from the webbing and place a locking sleeve over each tube. Push the tubing (absorber) onto the barb making sure it goes all the way to the bottom of the barb (a light spray of silicon inside the tube or on the barb will make it easier to push on) then push the locking sleeve back towards the header pipe, locking it in place, continue until all 12 tubes are connected
4. Roll out the absorber to the desired length and bring it back to the header pipes and attach as per note 3 this is called a loop
5. Now glue absorber down by putting a bead of glue (at a maximum of 1 metre intervals, or every 3<sup>rd</sup> tile or approx every 800mm on metal roofs) between the absorber and roof
6. Continue until all absorber is glued down and attached to the header pipes
7. Install the VBV on the pipe delivering the water to the roof. (NOT ON THE RETURN LINE) on the black tee near the gutter above the waterline (**the vbv needs to be glued into the tee with PVC glue**).
8. **A Vacuum relief valve must be installed when solar is above the waterline to prevent a vacuum crush. All warranty is void if a vacuum relief valve is not installed as the solar will be damaged.**
9. Close off the top of header pipes by gluing on the end caps

See diagram **C** for plumbing in a manual system to existing filtration

See diagram **B** for plumbing into existing filtration using a solar pump and controller

See diagram **A** for plumbing into separate solar provision

FOR MORE INFO PLEASE GO TO [www.fsph.com.au](http://www.fsph.com.au) AND GO TO GALLERY AND THE SOLAR INSTALLATION. OR CALL US ON 1300 650 806...THANK YOU