

FOUR SEASONS POOL HEATING PTY LTD

DIY HEADER PIPE ASSEMBLY AND INSTALLATION

Your DIY solar kit comes with standard 400mm long header pipes, they can be installed with the female socket towards the top or bottom, the most common way is with the female socket at the bottom, this allows the end caps to be put at the top of the system and leaves the socket at the bottom for the supply and return pipes.

When joined together the header pipe will fit a 350mm long straight tile. Standard tile sizes range from 300mm up to 350mm with the most common being 330mm. The header pipe can be cut down to suit by cutting off the desired amount (it is marked on the bottom in 7 x 10 mm divisions)

Example: For a 330mm straight tile cut 20mm(2 divisions) off each header pipe

For a metal roof where the solar is to be kept together with no space between the loops you will need to cut off 5 divisions (50mm) which will make the header pipe (when joined together) 300mm long, the same size as the solar loop. Or if you wish to leave space between each loop only cut off 10 or 20mm etc.

Be sure to clean off all burrs before gluing together

NOTE: A working vacuum relief valve must be installed on all solar pool heating systems installed above the waterline to prevent a vacuum crush. Warranty on all parts is void if not installed

MANUFACTURER'S GUIDELINES FOR INSTALLATION OF THE MANIFOLD (HEADER PIPES)

1. **Apply pvc pressure glue to the male end only**, cover no more than 5 divisions (approx 50mm), ensure total coverage (no dry spots), however, do not over apply the glue
2. Insert male end into female socket immediately after the glue is applied, align the longitudinal marks and ensure that the full 5 divisions or approx 50mm are inserted into the female socket, hold together long enough to ensure retention **NOTE: Be sure to line up the lines (keeping the barbs in a straight line) before joining as they are hard to twist once inserted, especially when cold**
3. After insertion a small bead of glue should be visible, wipe any excess
4. Glue must set and allow to dry for 24 hours before the system is turned on
5. Ensure the manifolds (header pipes) are installed in a straight line approx 100mm apart with one slightly higher (150mm) than the other to allow connection of the absorber loop.
6. Attach the header pipes to the roof using the supplied pressure pipe saddles, they will need to be drilled and plugged on a tile roof (always on the high part of the tile) or just screwed into a metal roof (try and use the existing screw lines if possible)
7. There should be no induced stress on the header pipes, for example: bent or bowed, the absorber or supply/return pipes are pulling or pushing them out of shape
8. Finally, ensure that the manifolds (header pipes) are free enough to expand and contract. For example: do not over tighten the pressure pipe saddles allow room for slight movement caused by heat, cold and pressure.

Unsure or have a question please email or ring us direct sales@fsph.com.au 1300 650 806