

THERMOMAX[®]

SOLAR SYSTEM MAINTENANCE

Periodic Checks

1. Ensure that no physical damage has occurred to the tubes and remove any debris that may have accumulated.
2. Check the flow and return pipework between the collector and the storage tank. Check all connections for leaks and ensure that all components are operating correctly.
3. Check that the system pressure is maintained at 15 psi. If the pressure continually drops below 5psi then check the system for leaks.

Five Yearly Checks

1. Every five years the Antifreeze in the collector loop should be checked. Good quality antifreezes like DowFrost HD can last up to 20 years. If necessary the system should be completely drained and flushed then refilled with new antifreeze.
2. Check the pipework insulation for deterioration.
3. Check the seals where the flow and return connections pass through the roof.

Pressure Loss

Periodically check the pressure gauge. If pressure loss in the system is apparent it may be due to one of the following:

1. Faulty pressure relief valve. - If pressure setting is wrong - correct it. If the relief valve fails to operate, drain the system and replace the valve.
2. Leakage. - If water is escaping from the system the volume of water in the system, and therefore the system pressure will decrease. Check all pipework and plumbing for the possibility of leaks. If they do occur, drain the system and repair.
3. Overheating. - Overheating may occur if the pump isn't operating during a period of sunshine and water is not being circulated (i.e. power cut). Thermal energy is not being removed from the collector so the water temperature will rise, hence the water volume and the system pressure will increase. This can result in the release of steam or hot water from the air vent or pressure relief valve. When the system returns to normal operating conditions the system pressure will be reduced due to the loss of water. Top up the system to a pressure of 15 psi.

Replacement of Tubes

Due to the Thermal diode operation of the collector tube, damaged or broken tubes do not negatively affect the operation of the system, but merely reduce the efficiency of that tube. It is possible, therefore, to delay replacement of tubes to a suitable time.

Pumps and Controls

Thermomax Collectors can be installed with a variety of different pumps and controllers. The logic behind different makes of controller varies greatly. If you have a controller problem refer to the manual that came with the controller. If unable to solve it contact the installer or Thermomax at the address below.

Thank you for purchasing a THERMOMAX collector. We know you will enjoy years of hot water from your system!

