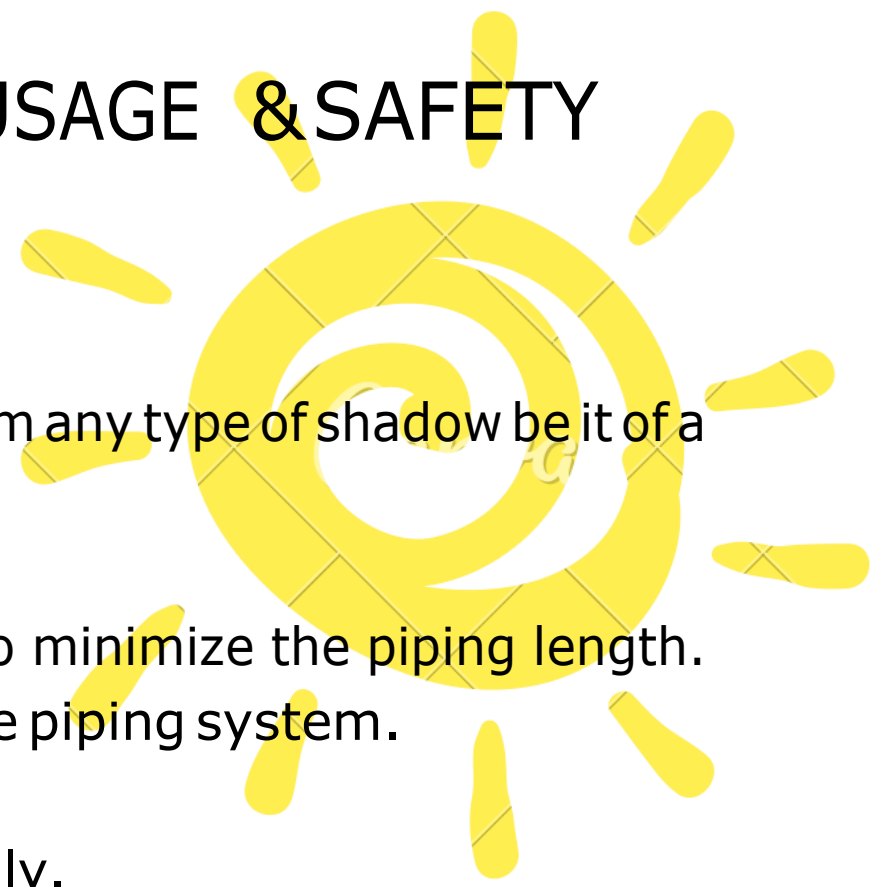
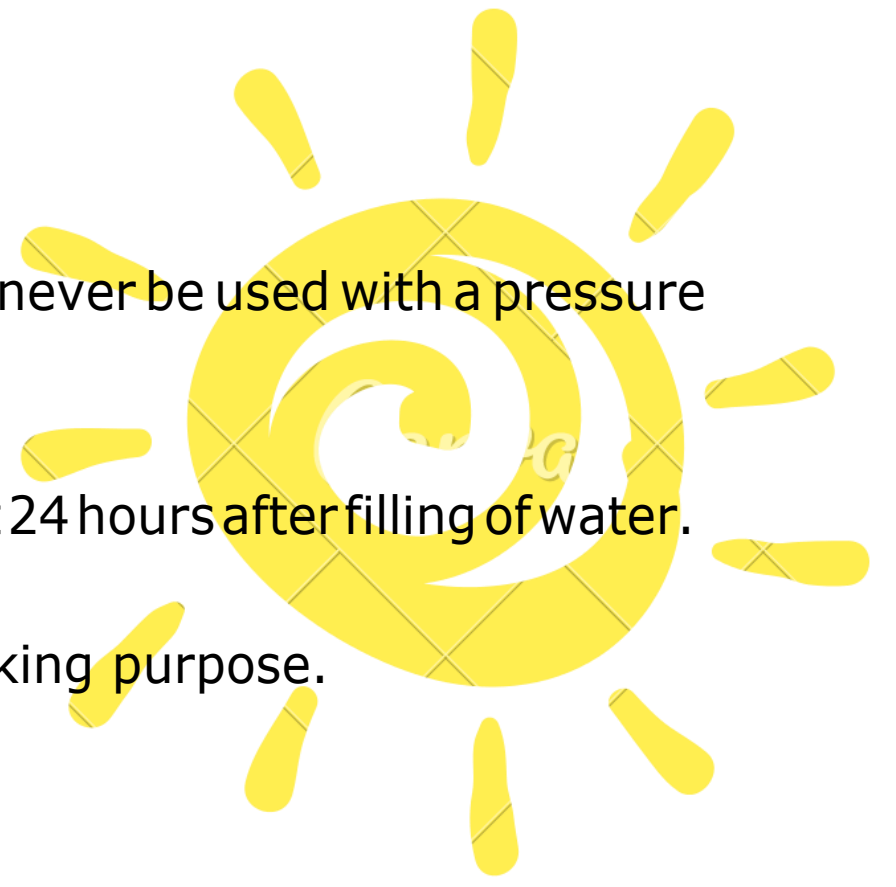


# SOLAR WATER HEATER INSTALLATION, USAGE & SAFETY GUIDELINES



- Prior to installation, inspect the site. It should be free from any type of shadow be it of a tree or any man-made structure.
- The installation spot should be selected such that as to minimize the piping length. Longer piping means more wastage of hot water in the piping system.
- Collector/Tube should be placed facing south/Sun only.
- If the cold water tank is very high, an assistant tank can be installed on top of the main tank of the solar water heater for the system to work properly.
- A good quality non return valve must be installed in the outlet.
- If the main water tank is below or at the same height to that of the solar water heater a separate 100 GLN plastic tank should be placed above the solar water heater or a small electric pump should be installed which can be controlled by the digital controller.
- If you are installing system on the temporary roof, make sure that roof can support the weight of the system filled with water.
- All the support structure of tank and collector has to be properly grouted; it protects the system against high velocity wind and physical disturbance.
- Air vent arrangement/Air breather pipe is must for all the system and it has to be placed at proper level, otherwise it may damage the system and for which the company will not take any liability.
- Use only recommended size of pipes for external-hot-water piping.
- Use insulated metal pipe or CPVC pipe only for pipingfor external-hot-water distribution.
- The backup electrical system consisting of heater & thermo-state & should be installed by trained electrician with proper earthling arrangement.
- Please take precautionary measures while opening and connecting hot water pipe.
- Proper insulation of outlet piping/hot water piping can save reduce heat losses and increase efficiency of the system.



- This is a non-pressurized solar water heater which must never be used with a pressure motor.
- When using the Solar water heater for the first time, use it 24 hours after filling of water.
- Do not use hot water from solar water heater for drinking purpose.
- Keep children way from the solar water heater.
- Do not touch projected pipe of Solar System Tank, Collector, out let, Air Vent, with bare hand as it can be very hot and can burn your skin.
- Glass tube Collector must be cool while filling the Solar system with water; otherwise it will lead to glass tube breakage. Fill the solar water heater in morning/evening/night. Do not fill in Sunlight.
- Air vent pipe must be installed in all non Pressurized System and make sure that it must be open to atmosphere. Closed Air vent can cause pressurization of the tank and cause the tank to deform and the tube to break.
- The electrical back-up element should be installed by trained electrician along with circuit breaker (ELCB) to prevent accident.
- Always keep solar system filled with water.
- Always keep solar tube/collector clean for best result of solar water heater.
- Do not use hot water after 10 AM in extreme winters; otherwise you will not get hot water on next day morning.
- Close all Hot & Cold water mixers properly, Otherwise Hot water can cause damage to cold water piping.
- For Hot water piping always use CPVC or composite pipe with proper insulation to prevent heat loss.