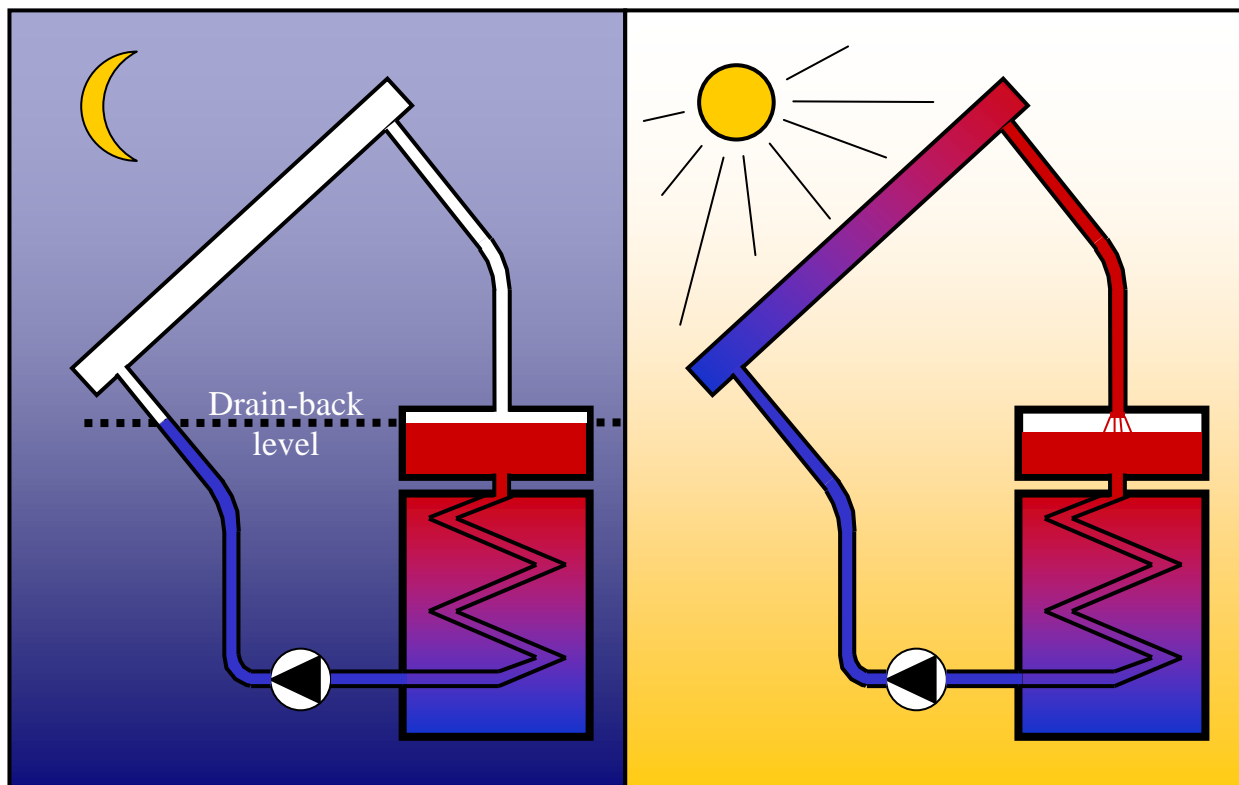


## Western European climate conditions TECHNICAL SPECIFICATIONS DRAIN-BACK SYSTEM

**DRAIN-BACK:**

The drain-back principle was introduced to simplify the protection of the solar system against overheating of the storage tank and freezing of the collector. *Closed Drain-back* systems increase system durability, safety and reliability.

The collector simply drains whenever the temperature in the collector falls below the temperature in the storage tank. In this way it **prevents a reverse heat flow (and losses) and the collector to freeze.**

To **prevent overheating** the collector also drains if the temperature in the storage tank exceeds 85°C.

In case of a **power failure** the collector will automatically drain and the system will remain in a safe situation until the power is restored.

**NO CHEMICALS:**

No chemicals such as anti-freeze or anti corrosion inhibitors are added to the primary collector circuit. The lack of oxygen (closed circuit as in any central heating system) prevents corrosion of the metal parts.

**LIFE EXPECTANCY:**

The invention to seal the primary collector circuit from ingress of oxygen, extends the lifetime of the solar system to more than 25-30 years.

**PRICE PERFORMANCE:**

By filling the collector circuit with water and saving costly chemicals while no maintenance is required, the cost is lowest, while the performance is highest (max. heat transfer rate).

**NO POLLUTION:**

No risk of polluting sanitary water due to the absence of any chemicals anywhere in the system.

**APPLICATIONS:**

Small to large domestic hot water systems, industrial process and swimming pool heating