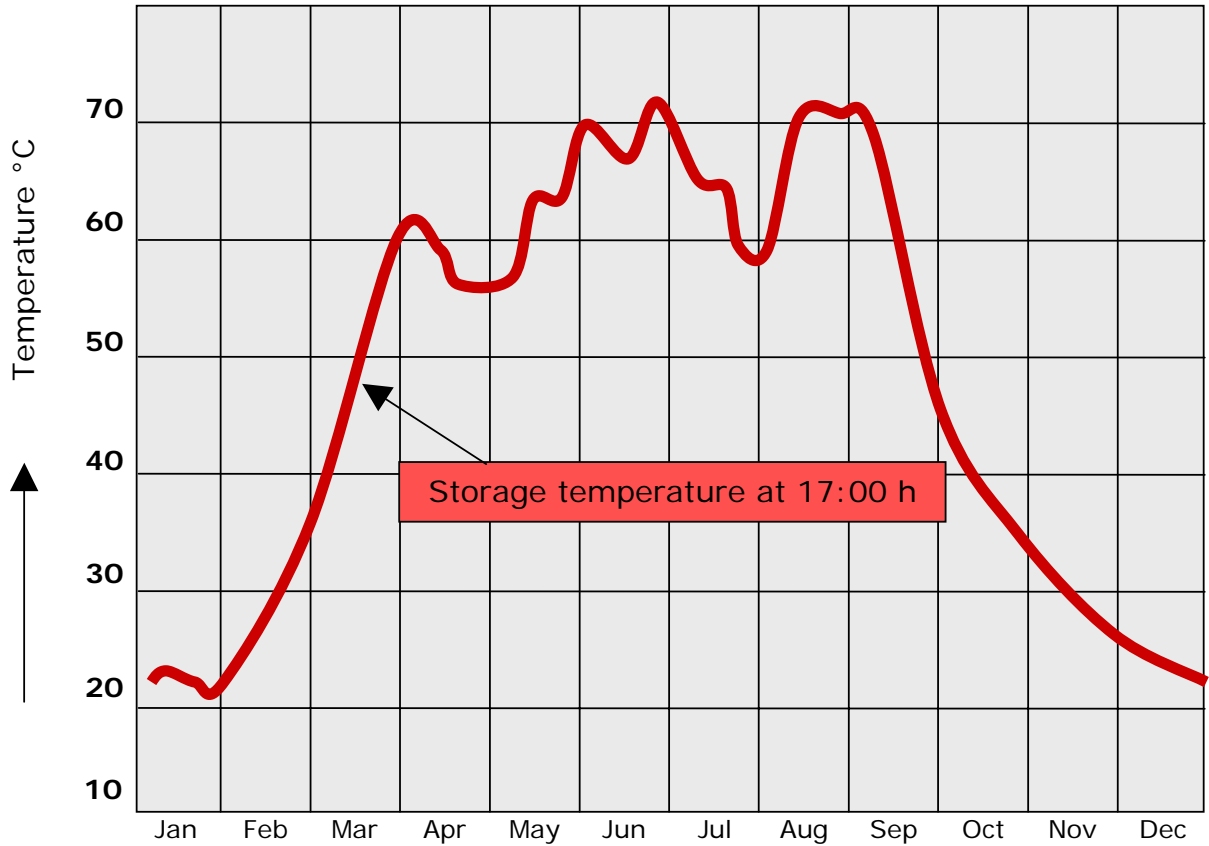


SYSTEM: Drain-back, designed for Western European climate conditions



DRAIN-BACK SYSTEM: ZEN-International system 2,75 m² collector and 100 lt. solar storage tank. Average family daily load pattern 110 lt./day (15-65°C)(TNO load profile) Each point in the graph displays the average temperature over 30 days.

SOLAR FRACTION: On average a standard solar system will provide a solar fraction of 50%. Which means that 50% of the yearly hot water usage will be heated by solar energy. To ensure a hot shower for the user the rest will be heated by an auxiliary heating source. (boiler, electrical element, etc.) In summer time stretching from April to September the solar fraction will be 90%. During winter time the solar fraction will drop to 25%.

APPLICATIONS: Small to large domestic hot water systems, industrial process