In hot geographical regions, where the atmospheric temperatures are in the range of 40–45°C/104–113°F, cooling plays a vital role in an individual's daily life. With such an atmospheric temperature one can easily imagine the water supply temperature to be in the range of 35°C/95°F.

This gives rise to the need for domestic water cooling.

This is achieved by having domestic water flowing through one side of the heat exchanger. The other medium flowing through the heat exchanger is chilled water.

In regions with extremely hot atmospheric temperatures there is an increased need for cooling of domestic water. Plate heat exchangers can be productively used in this type of cooling system.