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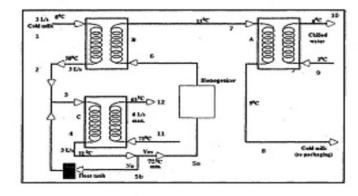
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(57) Abstract:

The titled invention Milk Pasteurization using low enthalpy geothermal water discloses the process of using geothermal energy to pasteurize the milk. Geothermal energy is one of the cleanest source of renewable energy. In recent times geothermal industries are more focused towards the other utilizations of geothermal energy rather than the electricity generation. The direct utilization of geothermal water includes balneology, honey processing, desalination of water, food dryer, etc. Milk pasteurization through geothermal water is one of such practice. This invention talks about stages of milk processing and the main categories of heat treatment utilized in dairy processing. It will describe about a milk pasteurization system which utilizes the residual discharge of geothermal water (75-80°C). The water gets discharged from a Space Heating and Cooling plant which is used for combined heating and cooling purpose using low enthalpy geothermal water. The inlet temperature of milk will be around 8°C which will be pasteurized by geothermal water of 75-80°C and will be packed at 5°C after the homogenization and cooling.



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