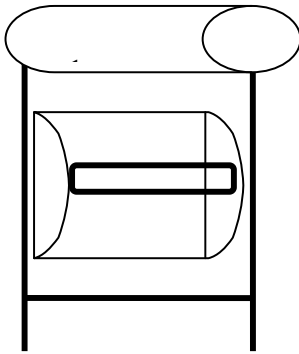


## **SOLAR COLLECTOR WITH MIRRORS FOR HEATING LIQUIDS (WATER)**



*The solar collector has a concave mirror of 700 mm/1300 mm area mounted on a metal frame under a corner 45 ° directed on the sun. In mirror focus is located the heater pipe through which water circulates. This pipe is mounted in a glass pipe which is a protectively-isolating cover. In quality of mirror it is possible to use well-abraded metal sheet (the zinc-coated iron). The surface can consist of the pasted small mirrors.*

*At use of small mirrors the design becomes complicated and cost increases. The concave mirror and unit through which flows a heated-up liquid are mounted in support on which the water accumulator tank is fixed also. The tank has in its basis a pipe from plastic of 1300 mm size with 250-300 mm diameter, and is well isolated from environment. From lateral aspect the tank is protected by a metal cover from thin sheet of metal.*

*Connection of a heating element to accumulator tank is made by means of two reinforced flexible hoses. The collector design can be changed by means of its geometrical sizes change and thus collector capacity is changed also.*

*Experimental check has confirmed collector efficiency. For example, within 60 minutes the temperature in accumulator tank of 20 l volume has raised from 20°C to (35-40) °C. Designations: accumulator tank (1), mirror-reflector (2), heater (3), support (4).*