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(57) Abstract :

The heat transfer performance of the conventional flat plate collector is very less because of the laminar sub layer which will act as an insulating medium in absorber plate. To overcome the above the absorber plate with C shaped baffles is used. It will create a turbulent flow to improve the thermal performance and hence enhancing the heat transfer process by 26.15% but the friction factor is increasing which results in the requirement of excessive power to make the fluid flow. The perforated W shaped baffles are used to reduce the friction factor.

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