

Input Parameters for the Project

- Type of oil: Therminol VP-1
- Type of steel: Carbon steel
- Type of glass: Pyrex
- Aperture width of the collector: 5.7 m
- Length of the collector: 50 m
- Inner diameter of the absorber tube: 0.066 m
- Outer diameter of the absorber tube: 0.07 m
- Inner diameter of the glass envelope: 0.109 m
- Outer diameter of the glass envelope: 0.115 m
- Optical efficiency: 0.75
- Emittance of absorber tube: 0.09
- Emittance of glass envelope: 0.95
- Absorptance of glass envelope: 0.05
- Transmittance of glass envelope: 0.95
- Inlet oil temperature: 290°C
- Outlet oil temperature: 390°C