

Flat plate collectors

Solchrome Systems India Limited, New Delhi, India, is offering solar flat plate collectors. Solchrome, a quality selective coating, is applied to one side of a clean copper sheet, nickel plated and finally electroplated with black chromium. About 96 per cent of the solar energy falling on Solchrome is absorbed while only 12 per cent of the absorbed energy is emitted. Even during low sunshine a collector using Solchrome can outperform a painted surface by delivering 2-3 times more energy.

Solchrome 1000 flat plate collectors are glazed with toughened/tempered glass. The unit's frame is fabricated using extruded aluminium while the back is made of an aluminium sheet. Some of the advantages offered by these modules include:

- 100 per cent thermal conductivity: through Tig weld interface eliminates the need for wraparound fin construction or deep solder fillet joints to achieve optimum heat transfer; and
- Joint durability: Weld strength, service life and corrosion resistance are on par with that of the parent metal.

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