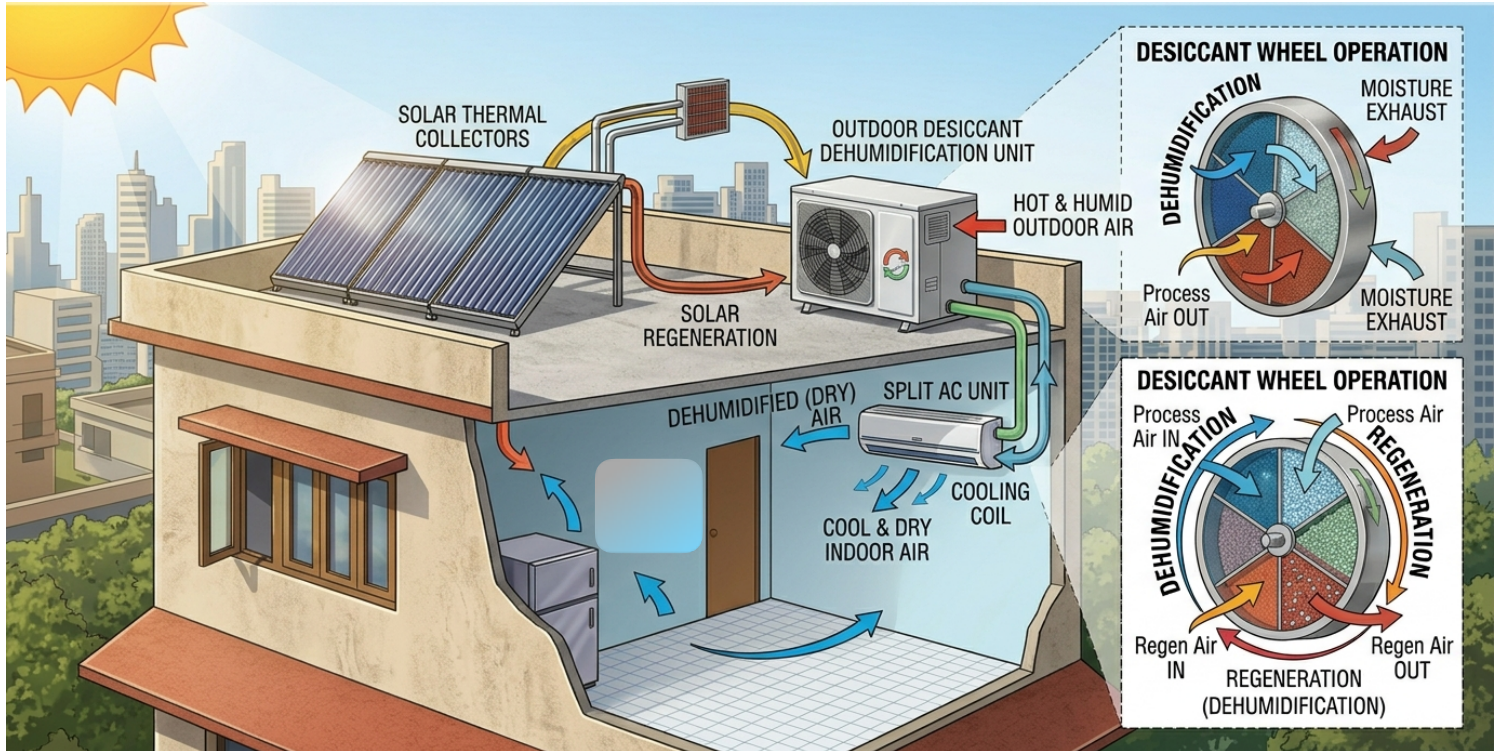


# Solar Desiccant Dehumidification

(Best suited for humid coastal climates)



**Practical technologies to reduce air-conditioning electricity use in residential buildings**

Sustainable Cooling

[www.venkacon.com](http://www.venkacon.com)

## Concept:

In humid climates, a large portion of air-conditioning energy is spent removing moisture from the air. Solar-powered desiccant systems remove humidity before the air reaches the AC unit.

## How it works?

Humid Air → Desiccant Dehumidifier → Dry Air → Air Conditioner

Solar thermal energy regenerates the desiccant material, allowing continuous moisture removal without heavy electrical loads.

## Product

Retrofit kit that is easy to install & App

## Benefits:

- ▶ Reduces humidity load on the AC system
- ▶ Improves indoor comfort
- ▶ Solar heat provides low-cost regeneration energy
- ▶ Ideal for coastal cities with high humidity

## Typical Savings

15-30% reduction in AC energy use in humid climates.

## Want to learn more?

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Or visit [www.venkacon.com](http://www.venkacon.com)