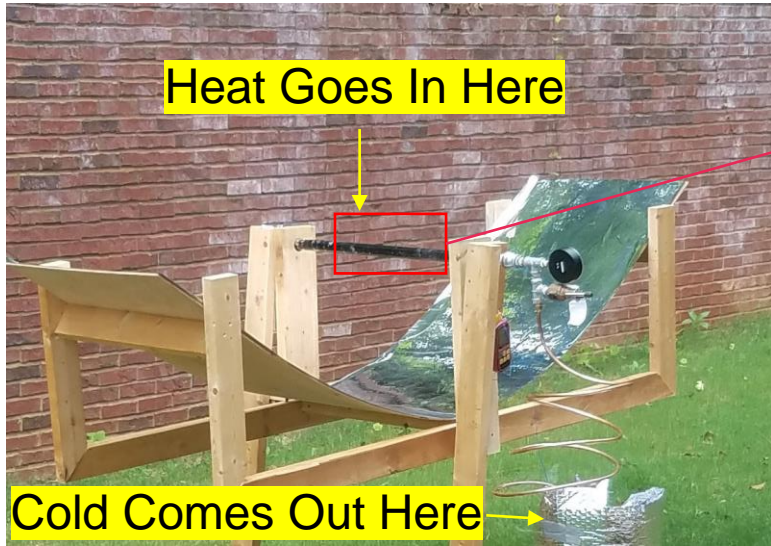


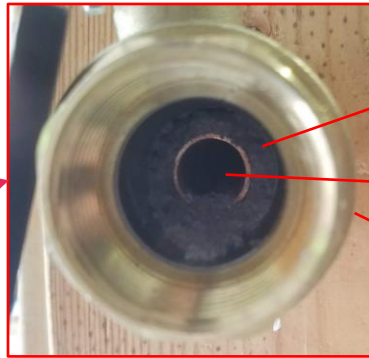
# SunCool Adsorption Air Conditioner

Generates Cold Air Using Solar Thermal Energy - Small Amount Of Electricity For Fans / Pumps / Tracking

SunCool Prototype V1.0



Traditional Silica-Gel Adsorption Beds



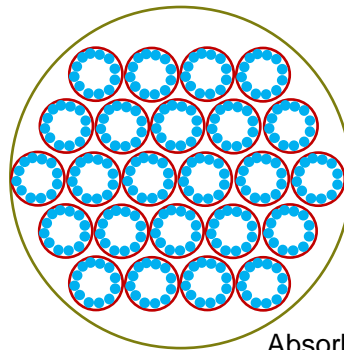
Silica Gel

Vapor Transit Tube

Absorber Pipe



Proposed SunCool Adsorption Bed Design



Silica Gel

Vapor Transit Tube

Absorber Pipe

Existing Design –  
Single Channel - Low Surface Area

Traditional silica-gel beds

- Low surface area for vapor transit
- Low conduction of heat through silica bed
- Slow adsorption / desorption
- Poor performance



Improved SunCool Design  
Multi Channel – High Surface Area

Improved Multi-channel Design – Specifically Targeted For Integration In a CSP System

- Multi channel system with single layer silica gel
- High surface area for vapor transit
- Excellent conduction through of heat into silica
- Fast adsorption / desorption
- Significantly improved performance