

Indoor sun

A set of 7 lamps have been assembled to give high power light for absorber testing:

- Lamps: Sicompact R3 Maxi metal halide lamps with HQI-TS 2000 W/D/S bulbs
- The lamps are in a hexagonal assembly and can be oriented individually
- The whole assembly can be lifted and tilted, to direct the rays at different angles
- 2 KW on each lamps generate a heat, and the lamps are cooled with a fan.

The lamps can be used for

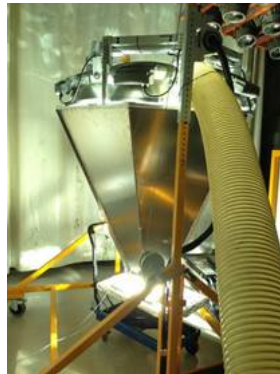
- Low power cases (water heaters, adsorption chillers)
- Concentrated illumination of absorbers. A cone shaped reflector and a 40 cm circular area .
Estimated intensities are about 70 kW/m² at the centre and about 50 kW/m² at the rim.



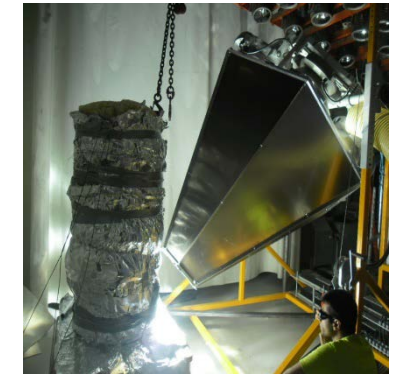
Evacuated tube heater



Lamps



Test with adsorber
in refrigeration
cycle



Simulating Scheffler reflector
for air/rock bed dryer