

Mid – temperature solar collector for large ground-mounted installations for power generation, facility cooling and industrial processes.

## General description

- HD16-21 a linear Fresnel solar thermal collector that produces heat up to 300°C (572°F)
- Actuator drives the reflectors to focus sunlight accurately onto the receiver
- Pressurised oil circuit delivers heat
- Designed to withstand environmental forces
- Multiple modules can be inter-connected into a single system



## Configuration

- Glazed selective absorber for efficient collection and retention of energy
- 6/12 glazed reflectors in each module, 16 sun focal image, hail protection option
- Heavy duty electric tracking actuator

## Mechanical characteristics of a typical 8 module system with end extensions\*

Dimensions	Length 47.6m (156.2ft), Width 12m (39.4ft), Height 7.5m (24.6ft), reflector area 376m <sup>2</sup> (4,047ft <sup>2</sup> )
Weight	7,520kg (16,554lb), 8840kg (1,946lb) per module, 442kg (973lb) per extension set)
Tubing	2" rated up to 20 bar pressure
Actuator	Electric leadscrew actuator
Frame	Extruded aluminium
Absorber	Toughened high clarity glass over selective absorber
Receiver	Extruded aluminium structure, steel fluid tube
Reflector	Welded aluminium precision structure, bonded glass with optional backing mesh for hail and falling object protection

\* One module constitutes the area between two vertical supports.

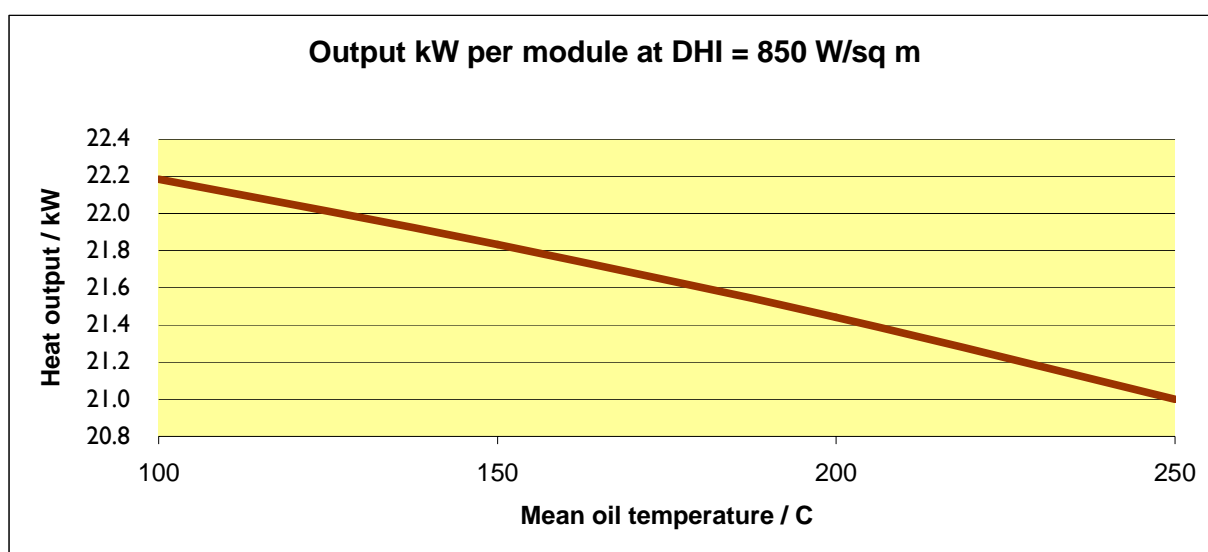
## Thermal characteristics of an 8 module system

Maximum heat output 168 kW @ 250°C (average) (573,000 BTU/hr @ 572°F)

## Environmental stress parameters

Ambient temperature range	-30°C to +50°C (-22°F to +122°F)
Operating humidity range	0% to 100%
Front static loading (snow)	400mm (16") maximum
Gust loading	25 m/s (55 mph) maximum in inverted mode. (High ratings optional)
Hailstone impact	50mm (2") @ 30 m/s (73mph) in inverted mode with hail protection option

## Characteristics



## Applications

Suitable for power generation, facility cooling and process heat in sunbelt regions.



*Los Angeles*



*Athens*



*Albuquerque*

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