

More value from the Sun!



  
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The World Leader in Solar Thermal Concentration.

Efficiency

- The highest Solarkeymark rating in the world Certificated at 91%.
- Very original Biaxal Solar Tracker, 100% stable.
- Maintains all functions over the long term with minimal and simple maintenance. Very cost efficient.
- EOSTH produces the exact temperature you require up to 100 degrees.



No Equal:

EOSTH has left Flat panels a long way behind.
Concentrator efficiency, yield, and life span are far higher.

Savings

EOSTH simply saves you money all the way round!!
Processes where this has proved to be the case.

Domestic Hot Water - Heating - Air Conditioning - Drying - Steam Generation - Pasteurization -
Industrial Washing - Desalination - Chemical Dehumanisation - Recovery and Enhancement of Thermal
Waste

Who Can Benefit:

Everyone and Anyone who uses Energy.
Farms - Greenhouses - Sports Centres - Local Communities - Hotels and the whole hospitality
industry. The whole Agro-Food processing industry - Garden Centres - Laundries – Commodity Stores
Any Factory that uses power e.g. Textiles – Paper Conversion – Chemicals – Vehicles

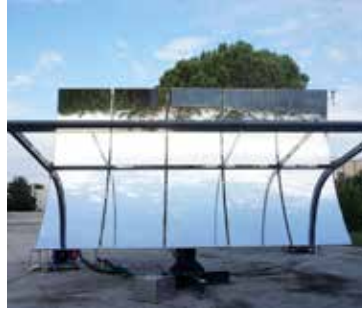


The Future is Green

More and more people think about the environment and the future of our planet - many governments recognise this and incentivise projects like ours with tax benefits and other national support.

EOSTH has been able to demonstrate the advantages of our philosophy and how it is possible to maximise on this potential.

For example a Standard EOSTH installed in Italy generated approx. 30/50,000 kilowatts per year (10 and 14 mirrors version) and avoided about 6-12 tons of carbon dioxide and fine dust getting into the atmosphere. We are very proud of this result.



For the Environment and our Children's Future

- Long – term sustainable technological solutions.
- Minimum of 30 years life cycle of the product without any loss of performance.
- Dramatically reduces CO2 and fine dust emissions in the environment.
- Improves the quality of the working environment by reducing fumes and noise.
- Ability to recover the use of marginal areas around buildings.
- By making products and services more ecological the perceived value and the enjoyment of the final product and/or service increases substantially.

Some Commercial advantages

- Reduce fuels costs substantially.
- Extend the life of your existing equipment particularly a boilers life cycle.
- Product life cycle minimum 30 years without loss of performance. Commercial as well as environmental advantages.
- Contain the maintenance costs of the system in general
- Makes production process's much more sustainable.
- Improve your Companies standing in the market and it's corporate image.
- Benefit from important non-repayable government and local authority contributions and/or tax benefits. e.g. In Italy the Thermal Account 2.0 and other.

EOSTH is an Italian invention.
Designed and manufactured In Italy
by people who understand
and care.



Scheda tecnica EOS TH / EOS TH datasheet

| Descrizione / Description | Unità / Unit | Valore / Value | |
|---|---|-------------------|-------------------|
| | | EOS TH 10 mirrors | EOS TH 14 mirrors |
| Fattore di concentrazione (geometrico) / Concentration ratio (geometrical) | - | 144 | |
| Area singolo collettore AG/Aa / Single collector Area AG/Aa | m ² | 3,86 / 3,72 | |
| Numero di specchi EOS TH / EOS TH Number of mirrors | nr. | 10 | 14 |
| Superficie lorda totale degli specchi / Total gross area of the mirrors | m ² | 3,863x5 = 19,315 | 3,863x7 = 27,041 |
| Tecnologia inseguimento / Tracking technology | 2 assi / biaxial | - | |
| Angolo azimuth / Azimuth range | gradi / degrees | 0 / 330° | |
| Angolo elevazione / Elevation range | gradi / degrees | -7 / +90° | |
| Controllo inseguimento / Tracking control | Controllo Posizione Astronomica Solar Position algorithm | | |
| Precisione puntamento / Pointing accuracy | <0,05° | | |
| Temperatura operativa ambiente / Operating ambient temperature | °C | - 20 > + 55 | |
| Moduli termici / Thermal modules | Nr. | 5 | 7 |
| Potenza di picco termica a 0° / 0° Thermal peak power | kWth | 3,51x5 = 17,55 | 3,51x7 = 24,57 |
| Fluido / Fluid | Soluzione glicolica / Glycol solution | | |
| Temperatura massima fluido / Maximum temperature fluid | °C | 100° | |
| Temperatura di stagnazione / Stagnation temperature | °C | 160° | |
| Pressione massima operativa / Maximum operating pressure | kPa | 200 | |
| Velocità vento operativa (max) / Operating wind speed (max) | km/h | 40 | |
| Velocità vento sicurezza (max) / Permissible wind speed (max) | km/h | 130 | |
| Peso (escluse fondazioni e accessori) / Weight (foundation and accessories excluded) | kg | 1.700 / 1,700 | 2.100 / 2,100 |
| Altezza Operativa / Height in operation | m | 4,2 | |
| Profondità / Depth | m | 3,0 | |
| Larghezza / Width | m | 6,2 | 8,7 |
| Termica 0° / 0° Thermal | 90,9% DNI | | |
| Energia Qsol (50°C) singolo collettore / Single collector energy Qsol (50°C) Atene/Athens | kWht/anno | 4776 | |
| Energia Qsol (75°C) singolo collettore / Single collector energy Qsol (75°C) Atene/Athens | kWht/anno | 3978 | |
| Producibilità specifica / Annual output per m2 gross area Atene/Athens | kWht/m2anno | 1236,34 | |

Range of colors

RAL 9010 white
RAL 7016 dark gray
RAL 6005 green
RAL 5012 light blue

| Produzione media annua attesa Italia / Yearly Average estimated output - Italy: | | | | | |
|---|----------------------------------|-------------------------|-----------------------------|-------------------------|--------|
| | | kWhth. | | 30.000/42.000 | |
| Equivalenti a / Equivalent to: | Altri combustibili / Other fuels | | CO2 Kg Emissioni / Emission | | |
| | 10 specchi / 10 mirrors | 14 specchi / 14 mirrors | 10 specchi / 10 mirrors | 14 specchi / 14 mirrors | |
| Metano / CH4 | Smc | 3.146 | 4.404 | 6.300 | 8.820 |
| GPL / LPG | Lt | 4.603 | 6.467 | 7.200 | 10.080 |
| Gasolio / Diesel | Lt | 3.272 | 4.581 | 8.400 | 11.760 |
| Legna (25%) / Wood (25%) | Kg | 7.819 | 10.947 | 1.500 | 2.100 |

Fonti / Sources: Bologna Chamber of Commerce / Ena

Solarkeymark Kiwa N° 16223 Rev.0. Test report ENEA N° RP.2019.COL.204.2



Potenza del singolo collettore / Single collector power

Potenza di picco (G = 1000 W/m²) per singolo collettore:
Single collector peak power (G = 1000 W/m²): **3510 W_{peak}**

| T _m - T _a [K] | Radiazione diretta / Direct normal irradiance (DNI) | | |
|-------------------------------------|---|----------------------|-----------------------|
| | 400 W/m ² | 700 W/m ² | 1000 W/m ² |
| 0 | 1404 | 2457 | 3510 |
| 10 | 1374 | 2427 | 3480 |
| 30 | 1245 | 2298 | 3351 |
| 50 | 1023 | 2076 | 3129 |
| 70 | 709 | 1762 | 2815 |
| 90 | 302 | 1355 | 2407 |