

**Dear friends, partners and potential partners,**

With this newsletter we would like first of all to thank all of you for the interest you have shown all these years to our company and our products. From now on you will be informed regularly about the developments that take place in Calpak. The Calpak newsletter will consist of three parts which are Calpak Technological developments, Calpak advantages and Calpak news.

#### Technological Developments



In Calpak family the continuous improvement of our existing products and services and the introduction of innovative ones is always a priority. Therefore by reacting to the increasing demand of our high quality **VTN vacuum tube collectors** once again we invested in quadrupling our capacity, by integrating a brand new fully automated PLC controlled unit with an accuracy of 0,4mm every 10 meters. The speed of formation is 10m/min providing us with the opportunity to satisfy increasing needs in all our markets being consistent to the very prompt deliveries of Calpak. On top of that, with such high quality equipment we are allowed to maximize the efficiency of the end product by minimizing tolerances and increasing the accuracy of the CPC reflector radius.

Calpak will carry on investing in production processes in order to ensure the satisfaction of its partners and that its products are characterized by an excellent value for money ratio.

#### Real Quality: our competitive advantage



**Solar Keymark**, regardless of various incentives and subsidies that are linked to it in many countries, is the most acknowledged European certification that certifies both the quality of production and the efficiency of the end-product. This means that this sign assures the end user that the product has been produced with a standard quality and under strict procedures. It is essential to clarify that the efficiency tests associated to the Solar Keymark are the only ones performed to randomly selected samples from the every day production of the plant. This way the calculated efficiency curve is 100% reliable and true for every certified collector. On top of that the manufacturer of a Solar Keymark certified collector undertakes civil responsibility for its true performance and if it is found that the true efficiency of any of the certified collectors varies more than 10% from what is depicted on the relevant efficiency test then the manufacturer is liable for compensation.

Calpak, being the first Greek manufacturer certified with Solar Keymark, proudly announces that also the new flat plate selective collectors 200GA and 240GA have been certified with the Solar Keymark. The associated efficiency test report is remarkably good ( $\eta_0 = 79\%$ ,  $\alpha_1 = 4,20 \text{ W/m}^2$ ,  $\alpha_2 = 0,013 \text{ W/m}^2$ ). Of course these results did not come as a surprise to us as we make sure that we design and produce each one of our products using all the technological know-how and the 33 years of experience that we have in order to achieve best value for money products that are easy to amortize once installed.

The 200GA & 240GA collectors have a full plate aluminum skin 0,5mm thick with high selective surface, laser welded with ten copper tubes, framed by an anodized aluminum case with polyurethane insulation at the back and the sides ensuring robustness, minimum heat losses and great sturdiness against humidity.

With this latest certification all collector lines of Calpak are now certified with the Solar Keymark. In particular, line GS (flat plate selective copper), line GA (flat plate selective aluminum), line GB (flat plate black aluminum), line G (flat plate black sandwich type), line VTN (vacuum tubes with CPC reflector) and line VT (vacuum tubes with flat reflector).

In 2009 Calpak Cicero Hellas will attend 4 international trade fairs and many others through its official partners. We shall be very glad to see you in one of them!



#### ISH 2009, Frankfurt

**When:** In March, from the 10<sup>th</sup> until the 14<sup>th</sup>

**Where:** in Frankfurt am Main.

ISH is considered as one of the most important fair concerning heating, air conditioning, architecture, new technologies and renewable energies.

[www.ish.messefrankfurt.com](http://www.ish.messefrankfurt.com)

#### Energy Tech 2009, Thessaloniki

**When:** In March, from the 19<sup>th</sup> until the 22<sup>th</sup>

**Where:** in Thessaloniki International Exhibition centre

2nd International Exhibition of Heating - Cooling - Air Conditioning - Conventional & Renewable Energy Sources. Energy Tech focuses on the development of business activities in the sector of Energy between Greek and foreign entrepreneurs.

[www.helexpo.gr](http://www.helexpo.gr)

#### Genera 2009, Madrid

**When:** In May, from the 12<sup>th</sup> until the 14<sup>th</sup>

**Where:** in Parque ferial Juan Carlos I.

This fair shows the relevance of the renewable energies in Spain. Genera includes: Solar-thermal, photovoltaic, wind turbine, biomass.

[www.genera.ifema.es](http://www.genera.ifema.es)



#### Intersolar 2009, Munich

**When:** In May, from the 27<sup>th</sup> until the 29<sup>th</sup>

**Where:** in the new Munich Trade Centre.

Intersolar is one of the greatest international Trade fairs regarding solar technology as it has become an annual point of meeting for all those who are interested in the solar industry, Solar-thermal and photovoltaic.

[www.intersolar.de](http://www.intersolar.de)

For all your queries, comments or concerns you are kindly requested to address to our exports department.

**With best regards,**



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