

## **Solar Thermal With A View - INTERSOLAR AWARD 2010**

Munich, June 2010

The Ritter Energie- und Umwelttechnik GmbH & Co. KG has won again in 2010 the Intersolar Award in the field of solar thermal energy. Together with the University of Stuttgart, Hydro Building Systems, Frener & Reifer, the Technical University of Munich and other partners the Ritter Gruppe developed the façade collector CPC Office / WICONA system. This project is funded by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) and supervised by the Project Management Jülich (PTJ). The award ceremony was held on the opening day of Intersolar Europe, the world's largest trade fair for solar technology in Munich.

### **Innovative & Unique**

The forge of ideas of the Ritter Gruppe and its partners has created an outstanding innovation with the façade collector CPC Office / System WICONA! This product meets the future requirements for sustainable and modern office buildings with glass façades.

Once the question for a product with the possibility of combining the more important technical aspects, such as visual transparency, even distribution of light throughout the room, thermal insulation and protection from the sun had to be negated- now, we can affirm this question with pride! Furthermore, these properties and the simultaneous production of solar thermal solar energy with high efficiency are certifying the Intersolar Award Winner 2010 a unique selling proposition.

### **Aesthetic & Modular**

New solar products claim in the first place to be technically innovative. When combining technology with an exposed building façade, aesthetics should not be neglected. The constructing engineers and designers of the façade collector CPC Office System / WICONA - Project team have also done a great job here! The solar thermal collector CPC made by Ritter and the office building façade WICONA form a highly aesthetic and harmonious unit, which already at the booth at Intersolar attracted masses of interested parties. The benefits of goods in every day use often succumb aesthetics and design – on the contrary the façade collector CPC Office / System WICONA: convincing once more with its modular construction, which makes it adaptable to large façades and among the different buildings and at virtually any arbitrary size can be merged. By the way, with the façade collector CPC Office / System WICONA the costs for specialized and expensive sun protection glazing do not apply any more...

*"With the façade collector CPC Office / System WICONA we managed the move from the collector that is mounted to the building, to the aesthetic multi-functional component of the building, which incidentally also provides heat. Even insistent technology freaks noticed at the trade show that solar thermal energy can also be attractive - that is, moreover, what is expected of us! The high performance of the Ritter - Collectors can thereby rightly be expected by the customer. "(Jürgen Korff, Business Manager of Marketing & Sales of Ritter Group)"*

### **Collect & Distribute**

What exactly is this innovative product, which from over 2,300 eligible exhibiting companies of Intersolar Europe and North America got one of the three highly demanded awards?

The collector, the core of the CPC Office façade collector / System WICONA, collects the sunlight in front of the façade, protecting at the same time the adjoining rooms from direct solar radiation. The thermal loss here is extremely low, so that temperatures of 60-90 ° can be produced, which is then supplied to the building through the pipe system integrated into the façade profiles- to heat drinking water and produce heat or provide solar cooling.

The perforation of the CPC reflector allows a certain proportion of sunlight into the building – enough for a low-glare lighting of the room, while ensuring the desired visual transparency for the office users.



**Prize Winner** Façade collector CPC Office / WICONA system (left to right)  
Michael J. Purzer (Sales Manager of Frener & Reifer Metallbau), Jürgen Korff (Business Manager Marketing & Sales of Ritter Gruppe), Stefan Abrecht (Project Manager for Ritter Gruppe), Arnd Brinkmann (Hydro Building Systems), Jörg Hieber (Architect and Project Manager of the University of Stuttgart).

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