



RESOL press release

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New this summer – at RESOL's

It's going to be a hot summer – at least at RESOL's, as there are a number of new products to be presented at the 2009 Intersolar trade fair. No less than three new controllers, a new pump station and a newly developed calorimeter will be expanding the RESOL product portfolio this summer.

The successful DeltaSol[®] controller family is growing by three new members: the DeltaSol[®] BX, the DeltaSol[®] MX and the DeltaSol[®] MiniPool have been added to the family circle. The DeltaSol[®] BX and MX come with a newly designed housing and a completely new seven-button operational concept that is similar to the well-known mobile phone menus. Both controllers are equipped with SD memory card slots for easy datalogging, inputs for Grundfos Direct Sensors[™] and of course the RESOL VBus[®].

The DeltaSol[®] BX has four relay outputs and an extra large display for comprehensive system visualisation. The DeltaSol[®] MX is equipped with 13 relay outputs and a full graphic display that can chart balance and progression diagrams.

With the integrated PWM outputs, both controllers can manage the speed control of energy-saving high-efficiency pumps. Generally, saving energy is a top priority with the new RESOL developments: integrated switch-mode power supplies beat down the standby power consumption of the controllers to less than 1 W.

The DeltaSol[®] MiniPool is the successor of the DeltaSol[®] KS and is designed for heating a swimming pool by means of solar collectors and optimised operation of the filter system. The 'little brother' of the DeltaSol[®] Pool offers a broad range of functions such as a maximum limitation of the flow temperature, a pool cooling function and a flushing function.

The FlowCon[®] Sensor pump station is a particularly outstanding innovation – it is the first RESOL pump station to include all electronic system components required in one pre-assembled unit. It only has to be fitted to the hydraulic system, no additional store or collector sensors have to be installed, as they are substituted by the integrated Grundfos Direct Sensors[™] (VFD). A highly sophisticated algorithm determines when the pump is to be activated to detect the possibility of a solar gain. Thus, the FlowCon[®] Sensor saves both installation effort and costs, offers an increased system reliability and an easy fault diagnosis – without making the owner miss out on any performance or function of a standard solar system.

The WMZ-G1 calorimeter was especially developed for the connection of up to two Grundfos Direct Sensors[™], which measure the temperature as well as one additional value, depending on the sensor type. If at least one of the sensors connected measures the flow rate, the heat quantity can be calculated without an additional V40 module. The WMZ-G1 also monitors the operating status of the system and displays deviations.

All these new products originate from RESOL's very own Research & Development division. While the summer's news are being announced, the R&D engineers already have their hands on the next projects. Among them is, for example, one that trades under the working title VBus[®] Touch. It is a software especially designed for the Apple iPhone and iPod touch. It displays both live data and



progression charts of the solar system at any place in the world, provided that the system is run by a RESOL controller equipped with a VBus® interface and a datalogger connected to the Internet via LAN. A design study is being tested already, the pre-commercial development is in progress.

The VBus®Touch software will be available for download in the Apple App Store, from where it can be installed on the individual device without any expertise required. If the iPhone or the iPod touch are in a vertical position, a hydraulic scheme of the system is displayed with live data. As soon as the device is turned into a horizontal position, the integrated accelerometer switches to the display of a progression chart. With VBus®Touch, RESOL is breaking new ground in system visualisation. For the modern solar system owner, the software will soon be an essential asset.

There is a lot to see – visit our booth at Intersolar: B1.582.

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