



The eco-Flare Pro collector from Magen is made entirely of plastic.

Photo: Magen

“press fit” connections allow quick installation of the collector.

The empty collector, with a total area of 2.15 m² and an aperture area of 1.85 m², weighs only 15 kg. According to the manufacturer, the plastic also ensures that the collector is less susceptible to scaling. The plastic is corrosion-resistant. Since the processing of plastic requires less energy in comparison to metals and glass, the collector also has good energy balance figures. In addition, it can be easily recycled at the end of its service life.

Booth: B1.425

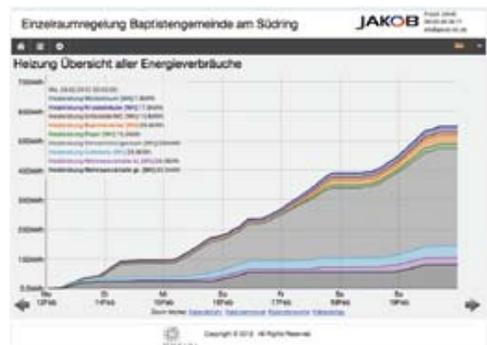
The young Italian company **FDE Solar S.r.l.** will exhibit at the Intersolar 2012 for the first time with their own booth. It was established in 2010 as a direct spin-off from the FDE SpA parent group, a major producer of copper, iron and stainless steel heat exchangers. FDE Solar’s goal is to become an OEM provider of solar collectors with cover shells from aluminium or aluzinc, steel with an aluminium-zinc coating. According to FDE Solar, the new collectors will be especially resistant to atmospheric agents, integrate well with the roof and have low production costs. The absorber will be laser welded and made from aluminium or copper, produced by “major market suppli-

ers”. FDE Solar will use glass that is prismatic on the outer side and plain on the inner side. Using the parent company’s experience, FDE Solar will also provide own connection kits. The so-called “speed connections” are made of brass and have a double O-ring security sealing system. A very special feature is the thermostat pocket connection, which allows temperature measurement inside the main collector pipe.

Booth: B1.285

The young company **SCH.E.I.D.L. UG** (Scheidl), Germany, represented for the second time at Intersolar this year, also has new controllers on display. The controllers usually control the entire heating system and not just the solar energy system. The Scheidl controllers have no displays on the devices. They are controlled via a computer, tablet or smart phone instead. A web interface in a web browser is used for this, which means that you do not need to install a special app and the system is platform-independent.

A new feature is the user interface with coloured charts that can be used (e.g.) to display the energy use in each room over time. For example, after



The Scheidl control systems allow graphical display on a computer screen of how much heat has been used and where it was used.

Graphic: Scheidl

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renovating a building the customer can use this
feature to see the actual energy improvements for
each room.

Scheidl offers controllers in three housing vari-
ants. The Custom housing variant is suitable for wall
installation. This provides space for a controller and
up to two expansion cards. The Professional variant is
intended for installation in switch cabinets and fuse
boxes. In this case the controller and expansion cards
have their own housing. The Naked variant is for
customers wishing to use their own housing. With
this version the expansion cards are stacked on top
of the controller board. The controller board has 24
separate temperature inputs, a 0 to 10 V output and
four relay outputs. A new addition to the range of
products is the expansion module with pulsed input
and output. Also new: temperature sensors support-
ing wireless communication with the controller. The
battery is charged by a PV cell. When fully charged it
can function for up to six days in complete darkness.

Booth: B2.170A

Stations, controllers & sensors



At Intersolar Europe
2012 **Chromagen**,
Israel, will show their
new i-thermo solar
system. I-Thermo
consists of an in-
house hot water digi-
tal controller with a
display and a solar
tank. According to
Chromagen, it is the
first of this kind for
thermosiphonic sys-
tems, but can also be
used for forced circula-
tion systems. It inte-
grates the sun-heated
water system with electric
heating backup.

The system optimizes en-
ergy usage and shows in the dis-
play the status of the hot water in the tank. To

**I-Thermo informs the user
about the hot water remain-
ing in the tank.**

Photo: Chromagen

make it more intuitive, it tells the user how many
showers are still possible with the heat remaining in
the tank. The colour of the display also changes: if
there is not enough hot water left for a shower, the
display colour changes from red to orange or blue.
The system is, of course, programmable because not
every user has the same requirements for shower
temperature and duration.

At the end of each day, I-Thermo informs the user
how much electricity was saved by using solar
energy.

Booth: B1.520

With their Solarcheck Mobilcenter Kompakt,
ZUWA-Zumpe GmbH from Germany, shows that it is