



What are the trends for the year 2009? "Increased awareness of quality solar hot water systems," says Mark Perger of Solahart, Australia. Erik Caelen from the Dutch manufacturer Itho BV shares this opinion. "Consumers, installers and wholesalers are recognising the benefits of service-free storage tanks without anodes and rust risks, and prefer to assess the total cost of ownership instead of the lowest investment price up front

OVERVIEW OF STORAGE TANKS

when buying the system." Caelen sees a trend towards better insulation and a growing market for stainless steel tanks. Newton Umeno Koeke, International Business Manager at the Brazilian company Transsen Aquecedor Solar, has also seen that the importance of thermal efficiency standards and the standard quality requirements and certifications are increasing.

When asked about special storage types, several companies saw a tendency towards buffer and combined storage systems. "Especially buffer tanks from 1,500 litres to 5,000 litres and more are very trendy", says Taçnur Yilmaz, Export Deputy Manager at Baymak, the Turkish subsidiary of the Baxi group. Ezinç has recently started its own production of combined (tank-intank) storage. Markus Rohrer from the German company IVT-Rohr also sees a trend towards combined storage. He adds: "We have also noticed an increase in mal separation the manufacturer the stand-by unit and heating support with heat pump connection possibili-

The German colleagues at Vaillant have noticed another development. "We see a further trend in Southern Europe towards drainback solar domestic hot water (DHW) storages with integrated or incorporated solar components", says Jörg Datzko, Senior Product Manager at Vaillant. He adds: "In other European markets the market segment for medium-sized systems with buffer storage and DHW units is growing."

That different solar markets have differing requirements for their products is made clear by Chaitanya Yardi, Marketing Director at the Indian NRG Technologists Pvt Ltd, as he talks about the problem of Indian water quality: "There is a growing demand for tanks which can withstand hard water in India which has high amounts of chloride." Yardi continues: "Stainless steel tanks often fail in a couple of years, especially in areas with bad water quality. Thus a permanent solution to the problem needs to be found and it may be found in enamelled

With a growing number of markets around the world, the challenge for manufacturers to fine-tune according to country-specific conditions is also growing. In parallel to the already seemingly vast market of solar system and

component manufacturers, diversity is also increasing in the field of solar storage. This is no surprise: after all, every customer wants a storage which is perfectly suited to his needs. It will remain interesting to see manufacturers find ever-newer solutions.

Overview of new products

Buffer and combined storage

The Italian OEM manufacturer Marani g

is pinning its hopes on Active Stratifica-

tion Technology (AST). Here, the upper

stand-by component of the "AST in-

sired temperature using solar energy. Each layer in the cooler storage component is heated very precisely using a highly efficient pump. When the stand-by component of the AST storage has been filled with solar energy, the stratification unit starts to actively move water between layers. This is performed by an ECM pump, which is freely accessible and fixed directly on the tank. The manufacturer achieves the thermodynamic separation between the stand-by component and the purely storage part by using a special double-walled layer separator with an integrated heat In the stratified stoexchanger zone. Due to the ther- rage tank by marani g

fied hot water storage tank allS-

TOR by Vaillant Group (Germany) brings together stratified hot water storage technology with intelligent sensors, a controller and an energy-saving high-efficiency pump, and combines various renewable and fossil energy sources. Numerous feed-in and extraction points at different heights are set up exactly for the relevant temperature levels of the heat sources and heat users. All the necessary components such as a drinking water or solar unit are available as separate external components. The storage tank is available with capacities of 300 to 2,000 litres. Cascade solutions of up to 6,000 litres are also possible.

The Italian company T.M.L srl also has a new stratified combined storage tank in its range. In the Modul-



Ezinc aims to continue increasing storage tank output in 2009. In 2008 the company produced 33,000 solar storage units.



states that the AST storage may the storage unit are also be used with heat pumps. kept apart by a layer The multi-functional strati- separator. Photo: marani g

The A series by Sammler is

volumes (120, 160, 220 and

available in four different

system by NRG Technologists

200 litre and 90 litre Itho tanks

with drainback unit and solar

panel.

Photo: NRG Technologists