

Sunamp vs mixergy

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I am new to the forum and have been studying a few threads, but couldn't find answer to our question so I thought I'd post it here - feel free to direct me to other posts if easiest!

We are building a passive house and now need to specify the DHW tank. The house will have a large PV array, a battery, and direct electric heating (combination of small underfloor pads, electric towel rail and infra red panels).

I have been going back and forth between a sunamp Thermino ePV 300 and a Mixergy with a 3rd party PV diverter.

I plan to use home assistant which may give me an option of overcoming some of the short comings of each system.

I like the sunamp because of its low heat leakage and small footprint.

It would be great to get any advice/pointers/opinions on this choice and what I should take into account.

Whereas a standard cylinder needs to heat the entire volume both the sunamp and the mixergy should focus all the heating in a smaller volume that you can then use a lot quicker

Not entirely true, even heating a low immersion the heat will settle after a soon period at the top of the cylinder.

Just get a custom built uvc specify 2 or 3 immersions, to give lots of flexibility but also include a 3m2 coil just in case you want an ASHP later. Then just use relays or similar so you PV diverter heats top middle and bottom immersion in that order.

But why not look at cylinder with an heat pump in it, CoP of 3, better use of solar when it's available.

Mixergy cylinders are quite good. Give them a call and speak to them and they will explain them in detail. Having the ability to heat the cylinder at cheap electric times and also to be able to heat what you need is a great feature. We have come across quite a few people that have them now and everyone we have spoken to seems happy with them. Better than a conventional direct unvented cylinder and cheaper than the Thermino although I don't know much about the Sunamp heat batteries so I can't express much of an opinion on them.

Passive House with just electric rad heating and 300L direct UVC on immersion here. 100% of DHW on cheap night rate (14c/kWh) and about 40% of space heating on day rate (48c/kWh)



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