Empowering the Solar Future

AC•THOR 9s

AC•THOR 9s is a linearly powered 0 – 9 kW photovoltaic power manager for domestic hot water, electric heat sources, and optionally heating systems.

Simple & efficient: AC•THOR 9s controls electric heat sources depending on the availability of PV energy and heat demand – both for hot water and space heating. It can also be combined with existing heating elements or electric heating systems.

- Continuous control from 0 to 9 kW
- 3 controllable outputs
- Suitable for 3-phase heating elements with a common neutral conductor
- Very simple loading of three zones (3 x 3 kW)
- Can also be combined with a heat pump
- Electric three-zone space heating possible
- Reduction of the building services space required
- Open system compatible with various inverters, battery systems, and smart homes
- Up to 85 % PV self-consumption even without battery storage
- Can also be used with already installed heating elements
- Heat generation also possible with dynamic electricity tariffs – with the my-PV DTO

AC•THOR 9s: Linear control for photovoltaic heating

AC•THOR 9s enables control of the entire domestic hot water and heating system in one compact device. With linearly powered continuous control from 0 to 9 kW, it maximizes the self-consumption of surplus photovoltaic energy.

What is AC•THOR 9s?

The AC•THOR 9s is a linearly powered photovoltaic power manager that supplies electric heating devices with surplus photovoltaic energy, making domestic hot water and space heating solar-electric. The AC•THOR 9s uses only surplus photovoltaic energy that would normally be fed into the grid for a low compensation. It receives surplus information via network from a built-in my-PV WiFi Meter or from metering points of our compatible partners (inverters, battery storage systems, or smart home systems). Missing energy, for example on rainy days, can be drawn from the public grid – even price-optimized with dynamic electricity tariffs!

The advantage: from spring to autumn, heating can be switched off, while the AC•THOR 9s takes care of hot water preparation.

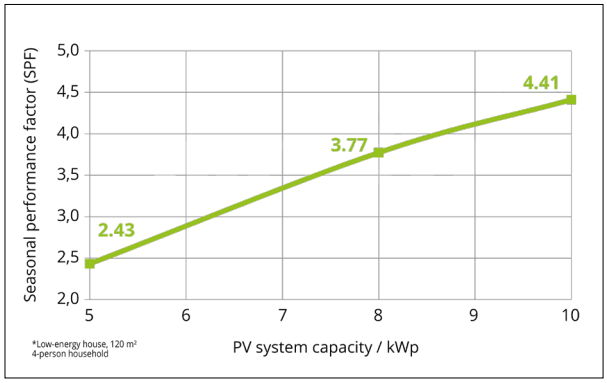
In a residential building built or renovated to current thermal standards, the AC•THOR 9s can fully replace conventional water-based building technology. Of course, the AC•THOR 9s can also be integrated into conventional water-based systems, such as buffer storage tanks.

Innovative home technology offering many advantagesrous benefits

Achieve higher self-consumption with innovative PV-powered heating: This saves operating costs, reduces the runtime of the primary heating system, and minimizes CO_2 emissions. Other benefits include:

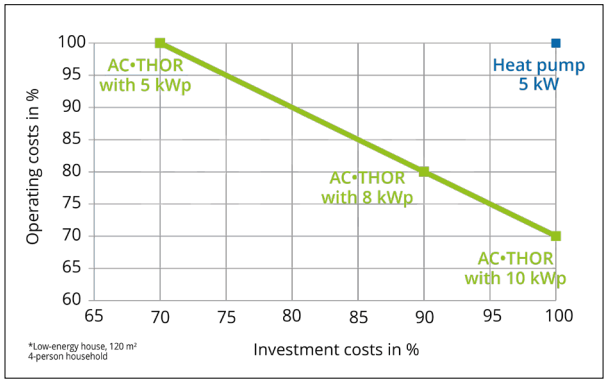
- Increased energy independence through maximum self-consumption
- Simplest installation of the AC•THOR 9s – no device opening required
- Reduced space requirements for the utility room
- System-compatible with various inverters, battery systems, and smart homes
- Grid-supporting control contributes to overall grid stability

AC•THOR 9s Annual performance factors*



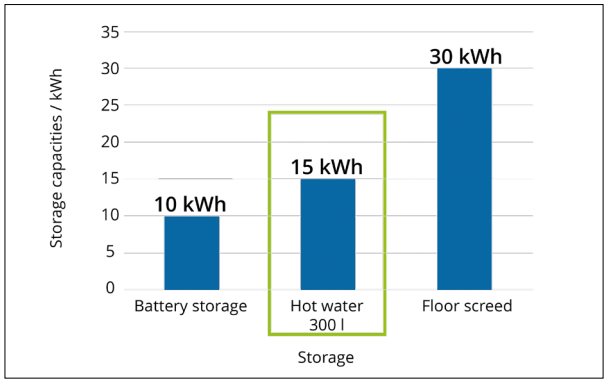
Remarkable annual performance factors are achieved with photovoltaic-powered heating.

AC•THOR 9s Cost comparison with heat pumps*



Unlike heat pumps, with the AC•THOR 9s, investment and operating costs can be significantly influenced by the sizing of the photovoltaic system. A reduction of 30 % is easily achievable.

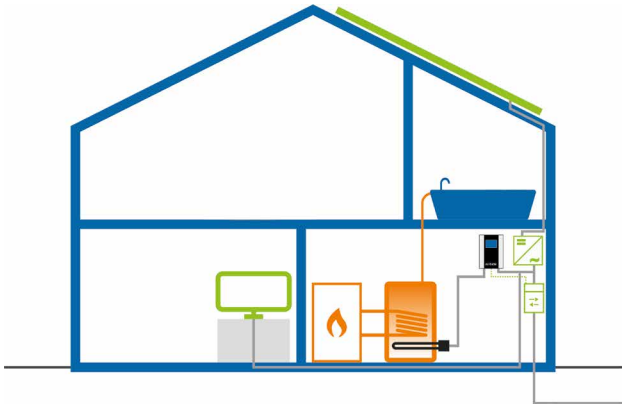
Storage capacities for a single-family house*



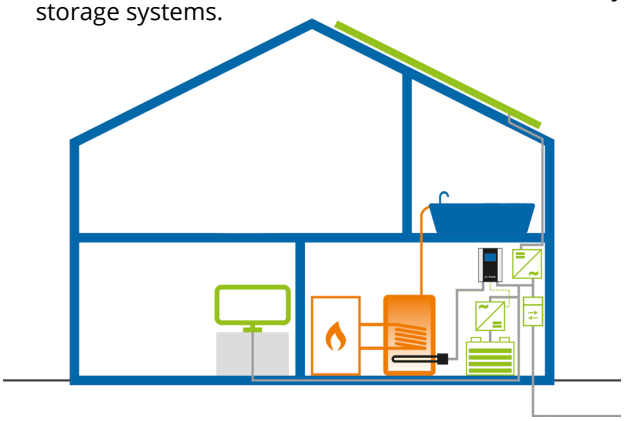
With the AC•THOR 9s, you can cost-effectively unlock enormous storage capacity in your home

Universal applications

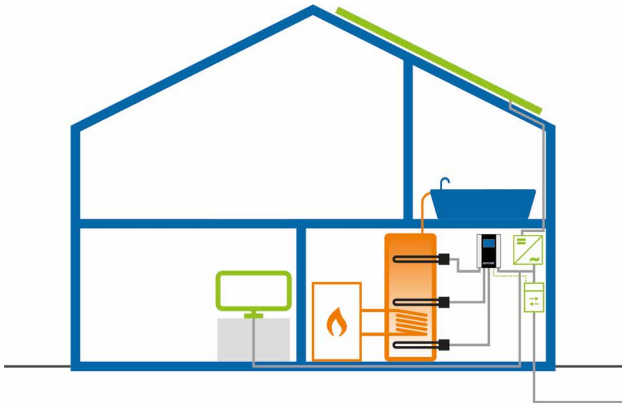
1 Photovoltaic hot water generation up to 9 kW.



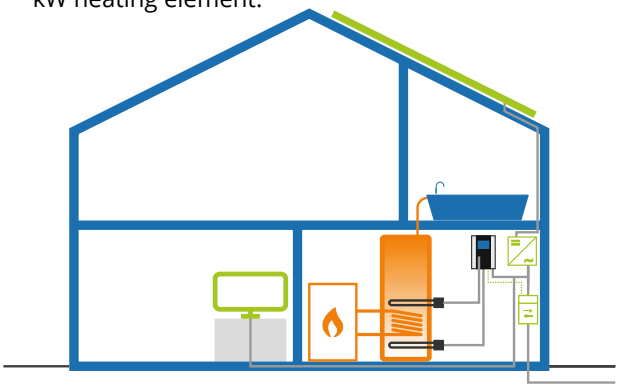
2 All versions can be combined with numerous battery storage systems.



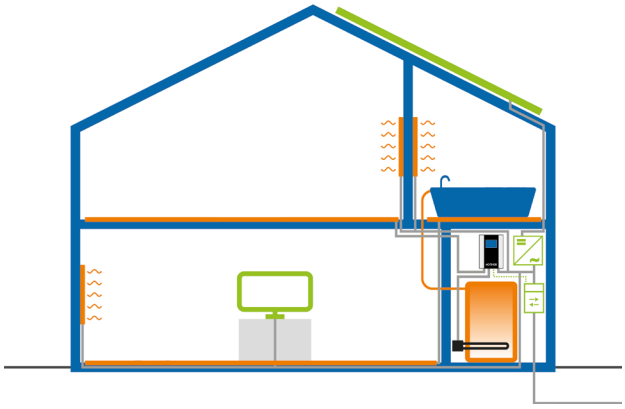
3 Simplest three-zone stratified charging: 3 × 3 kW.



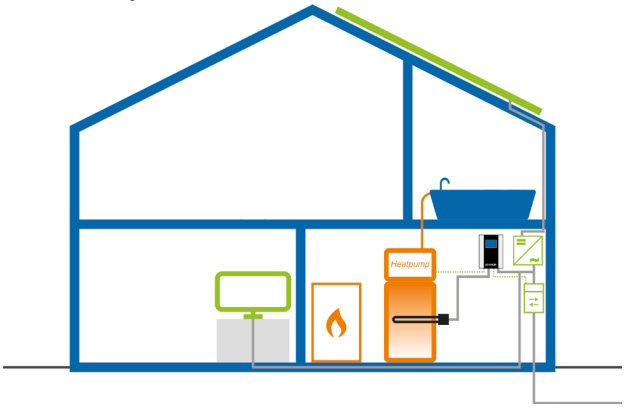
4 Linearly adjustable up to 18 kW with an additional 9 kW heating element.



5 Hot water and two-zone heating, all in a single ultra-compact unit.



6 Your standard heat pump becomes PV-compatible (PV-ready).



Wiring diagrams for these applications can be found at www.my-pv.com

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Technical data

Supply voltage	3 × 230 V, 45 – 65 Hz
Linear power-control	0 – 3,000 W, three outputs, max. 9,000 W
Mains connection	3-phase with neutral conductor
Load connections	Plug-in contacts
Fuse protection	4 x 16 A Tripping characteristic B, C
Power grid THDi	At 50 % power < 3 %; at 100 % power < 3 %
Self-consumption	< 1.5 W
Efficiency	> 98 % at nominal power
Operating temperature range	0 °C to 40 °C
Storage temperature	–20 °C to 70 °C
Display	Color graphic, Touch Screen 2.83“
Weight	1.3 kg
Dimensions (L × H × D)	135 × 195 × 65 mm
Permissible humidity	0 – 99 % (not condensing)
Temperature sensor	my-PV temperature sensor (5 m)
Communication	Ethernet RJ45, RS485
Warranty	2 years
Compatible systems	See www.my-pv.com
my-PV material number	20-0300

All connections are pluggable.

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