MYPV

Hot water and space heating from photovoltaics

AC·THOR

Domestic hot water and space heating goes electric.
Ingeniously easy and economical.

With the Photovoltaic-Power-Manager AC•THOR for hot water and space heating you can achieve

- 30% Cost savings compared to conventional systems through self-generated energy
- Maintenance-free cable instead of pipes (less plumbing)
- Minimum spatial requirements
- A system compatible with various inverter manufacturers, battery systems and smart homes
- Applications for apartment buildings
- Up to 85% PV self-consumption without battery storage

AC•THOR: A HEATING SYSTEM THAT FITS IN YOUR HAND

Unbelievable but true: The AC•THOR enables the control of the complete hot water heating and space heating in one compact device. With up to 6 kW of power, low-energy houses up to 150 m² can now be powered from photovoltaics.

What is the AC•THOR?

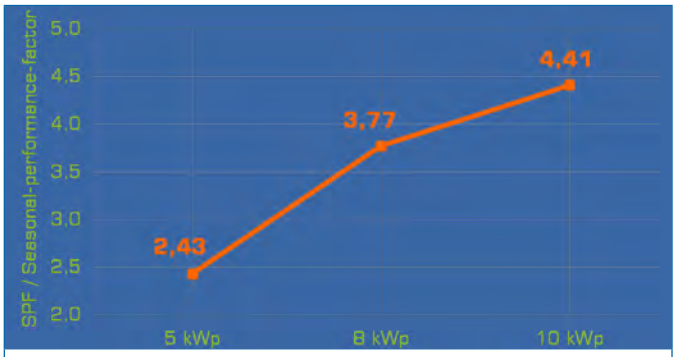
The AC•THOR is a photovoltaic power manager for hot water and space heating and can control electrical heat sources linear depending on the available PV power and heat demand. It communicates via Ethernet with inverters, battery systems and smart home controllers to get the information as to how much photovoltaic energy is available for use. Therefore less energy is required to be purchased from the public grid generating savings to your running costs, meaning a conventional heating system is no longer required.

Better than conventional heat sources

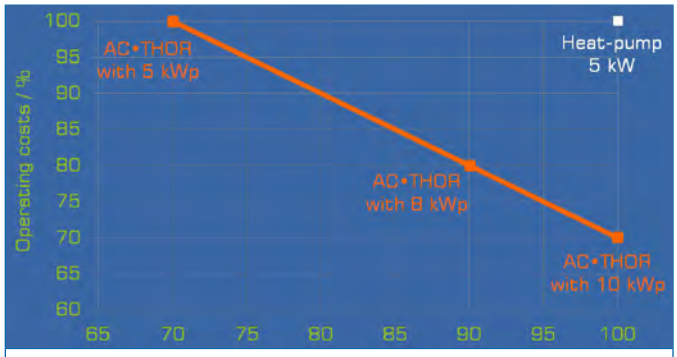
For PV system outputs of 5 to 10 kWp, the AC•THOR achieves seasonal-performance-factors (based on grid purchases) that are significantly above typical values. Thus electric space heating becomes ecological and economical for the first time.

Cables instead of pipes

The AC•THOR is the innovative advancement in photovoltaics and the new way for domestic heating systems. Cables instead of pipes, electricity instead of hydraulic systems, easy instead of complicated, self-generated energy instead of fuel costs.



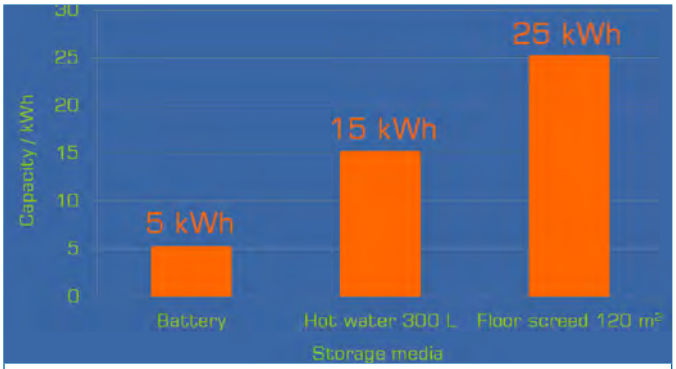
Amazing seasonal-performance-factors are achieved by heating from photovoltaic



In contrast to heat pumps, for the AC•THOR the investment and operating costs can be influenced by the sizing of the photovoltaic system. **Minus 30 % are no problem.**

Your advantages through excellent technology:

- **Easy installation:** Mains plug and socket for loads on the device, wall bracket
- **User-friendly** via 2,83" TFT Colour Touch Screen, Setup without additional equipment
- **Extraordinary compact:** only 1,5 kg
- **Appealing design**
- **Linear power control** for optimal energy utilization, pure alternating current output



With the AC•THOR, you can inexpensively open up enormous storage capacities in your home

All connections pluggable

Impressive easy handling, compactness, design

UNIVERSAL APPLICATION DIVERSITY

1

Pure photovoltaic **water heating** is self-evident

2

All variants can be combined with many of the **battery storage systems**.

3

Easiest **stratification charging.**

4

Linear control up to **6 kW** possible.

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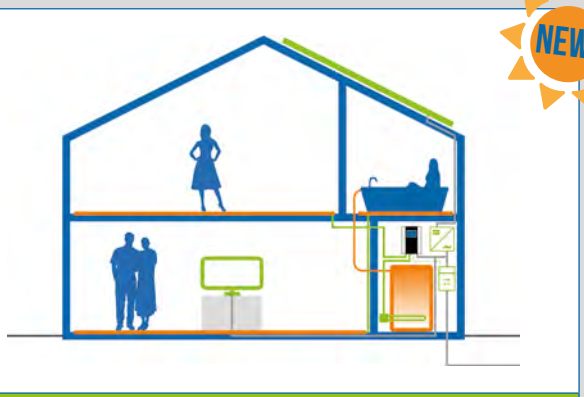

Hits like a hammer: **hot water and space heating** from photovoltaics with an ultra-compact device.

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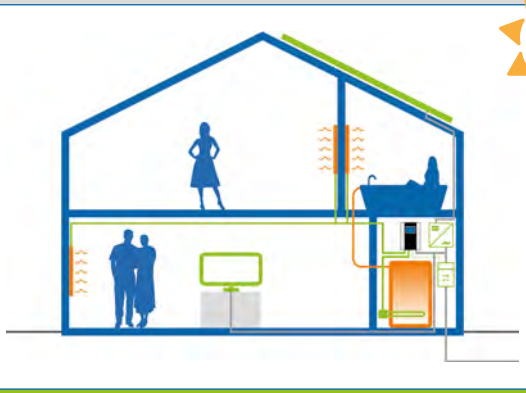

Also applicable for use with **infrared heating panels**.

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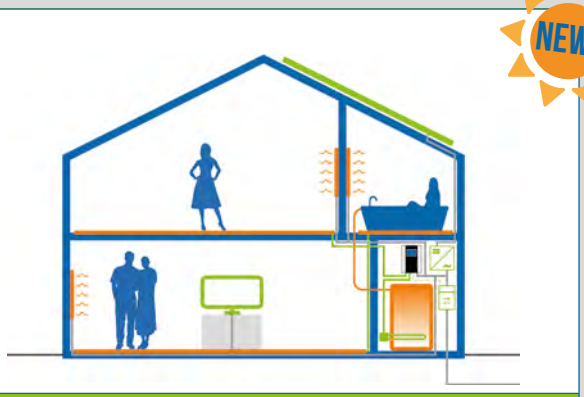

Or **floor heating and infrared heating panels** simply combined.

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In **off-grid systems** it can be used as a **dump-load controller**.

Schematics of these applications can be found at **www.ac-thor.com/downloads**

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TECHNICAL SPECIFICATIONS

Supply voltage	230 V, 50 Hz
SLinear power-control	0–3.000 W + relay output 16 A
Mains connection	Single-phase, Mains plug
Load connection	Mains socket for resistive loads
Fuse protection	13 A or 16 A
Connecting cable	2,8 m
Self-consumption	< 1,5 W
Efficiency	> 98 % at nominal power
Operating temperature range	5 °C to 40 °C
Storage temperature	–20 °C to 70 °C
Display	Color Touch Screen 2,83“
Weight	1,5 kg incl. cable
Dimensions (L × H × D)	135 × 210 × 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.ac-thor.com

Subject to change.