SUNAMP

THERMINO

EASYFIT SPACE-SAVING THERMAL STORAGE FOR HOT WATER

THE KING'S AWARDS FOR ENTERPRISE 2023 INNOVATION

SUNAMP

THERMINO

Discover world-leading thermal storage

Thermino™ heat batteries are modern-day, energy-saving thermal stores made with a high performance phase change material to deliver fast-flowing hot water reliably, safely, and efficiently. Up to four times smaller than the equivalent hot water cylinder, the sleek, super-compact design means the Thermino looks great in any home and free up valuable storage space. They are also easy to install, kinder to the environment and require no mandatory annual maintenance.

RAL QUALITY MARK

PHASE CHANGE MATERIAL

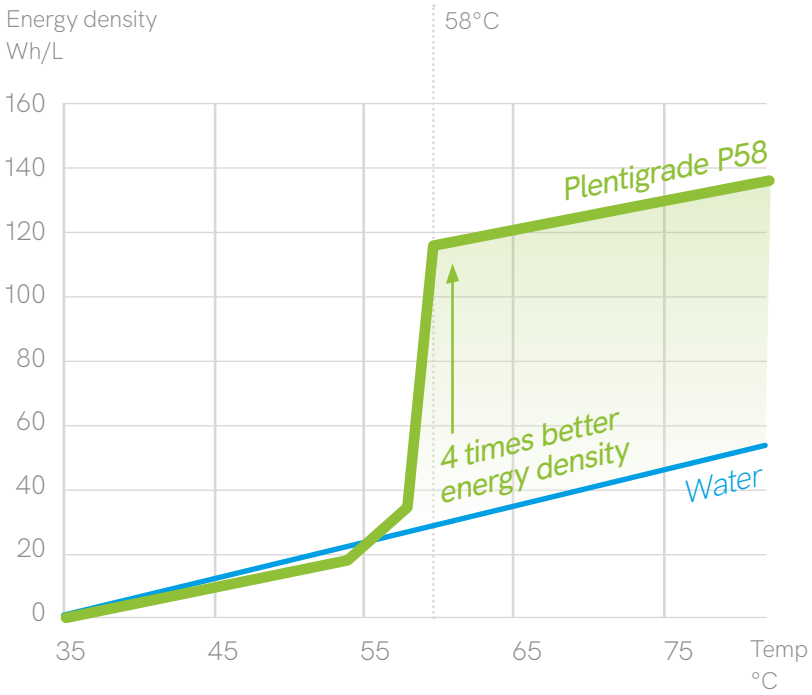
Sunamp™ is the only heat battery manufacturer in the world to be awarded A Grade RAL Certification, the independent quality mark and the only global standard for Phase Change Material (PCM) and PCM products. The award confirms performance with no noticeable degradation to 10,000 cycles, the equivalent of over 13 years of daily use at two cycles per day of hot water application. Sunamp's own testing has so far confirmed failsafe performance to over 40,000 cycles, comparable to over 50 years continuous use.

Why choose Thermino?

What do people want from their hot water system? Ideally, comfort and convenience with fast-flowing hot water on tap that doesn't cost the earth and is small enough to free up valuable storage space in the home.

Thermino heat batteries are the choice of property developers, landlords and householders conscious about lowering carbon emissions, reducing or eliminating gas and controlling energy bills. No annual mandatory maintenance means additional cost savings. Installers like Thermino heat batteries as they are easier to install than traditional hot water cylinders, and provide flexibility for householders by fitting into much smaller spaces in the home.

How do phase change materials work?



- PCMs absorb, store and release large amounts of latent heat when changing state between solid and liquid. Heat is absorbed on melting and released on freezing
- Melting and freezing our Plentigrade P58 PCM stores up to 4 x more energy than heating and cooling hot water
- A high-powered heat exchanger or heating element immersed in our patented PCM rapidly charges the Thermino and heat is just as quickly extracted to provide fresh, mains pressure hot water at a constant temperature only when it's needed
- Reliable, safe, non-toxic, non-flammable
- Lowers energy use and carbon emissions

SUSTAINED WITH PLENTIGRADE TECHNOLOGY
A SUNAMP THERMAL

The secret to the success of Sunamp heat batteries is our world leading Plentigrade technology. The Thermino range uses high-performance Plentigrade P58 phase change material to deliver hot water on demand. It absorbs and releases thermal energy during a melting and freezing process in a similar way to the gel in a pocket handwarmer. Freezing releases a huge amount of energy in the form of heat at a constant temperature.

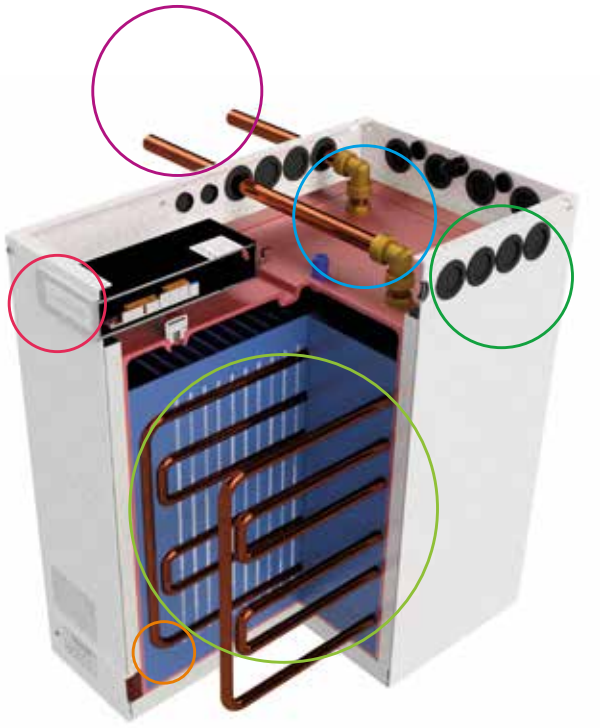
Our unique formula stores up to four times more energy than water, which means Thermino heat batteries are up to four times smaller than the hot water cylinders they replace.

Plentigrade P58 does not contain any toxic or hazardous materials and there is no end-of-life disposal issues.

The 'Sustained with Plentigrade' quality mark on our products is assurance of performance, efficiency, safety and reliability.

- Single and dual circuit models work with a wide choice of energy sources (electricity, solar PV, heat pumps and boilers)
- Simple user interface shows heat battery state of charge
- Market leading 10-year warranty applies to heating element and storage core
- Quick and easy to install, with high quality brass push fit connectors supplied
- Flexibility of orientation, with exits on three sides of the product
- High powered heat exchanger for high quality, mains pressure showers
- Sunamp's patented Plentigrade P58 phase change material formulation – storing 4 x more energy than water

Works with a wide choice of energy sources



Fit for now, fit for the future.

'40% of homes with heat pumps will have thermal storage… However, finding enough space for thermal storage will be difficult in some homes and will be reliant on new, high density solutions such as phase change materials to minimise the amount of space required.'

Future Energy Scenarios

National Grid ESO, July 2020

Super-compact thermal storage

- Works with almost any energy source
- Lower heat losses – up to 4 x higher energy efficiency
- A+ energy rating – saves up to 1000 kWh a year
- High flow rate hot water
- Instantaneously heats water for hygiene and freshness
- Enables heat pump systems to be installed where otherwise they wouldn't fit
- Fast and easy to install – no tundish, no overflow pipework, no temperature and pressure (T&P) safety valve to maintain
- No mandatory annual maintenance
- Market-leading 10-year warranty on the heating element

Space-saving – up to 4 x smaller than hot water cylinder alternatives

Choose your Thermino

	Works with	Boiler	24 hour grid supply	Off peak timer/ Variable tariff	PV	Heat pump	
	Page No.						Replaces
Thermino hpPV	6				○	●	Heat pump and solar PV cylinder
Thermino hp[1]	8		○			●	Heat pump cylinder
Thermino ePV[2]	10			○	●		Direct and solar PV cylinder
Thermino e[2]	12		●	○			Direct cylinder
Thermino iPV	14	●			○		Indirect and solar PV cylinder
Thermino i	16	●	○				Indirect cylinder
Thermino[1]	18	●				●	Indirect or heat pump cylinder without immersion

● Primary energy source
○ Secondary/optional energy source

[1] Compatible with selected heat pumps. Check product manual for more information.
[2] Can be used as primary hot water source or to pre-heat suitable combi-boilers, reducing gas demand for hot water. Check with boiler manufacturer for compatibility.

Energy-saving Thermino heat batteries come in four sizes – 70, 150, 210 and 300 – to indicate the size in litres of the hot water cylinders they replace. The advantage of their compactness and modular design is that they can meet the needs of any home. Simply select the Thermino to match the choice of energy source and hot water requirements of the household. The Thermino range is available to buy through major stockists and installers.

For a full list of Sunamp approved stockists and installers, visit www.sunamp.com

Thermino hpPV – Space saving thermal storage for heat pumps linked to solar PV for greater protection against soaring energy costs.

Thermino hpPV

Compatible with selected Vaillant and Ecoforest high temperature ground and air source heat pumps.

Whatever your heating system, Sunamp has a reliable hot water solution designed to increase comfort and reduce energy use. Linking solar PV with our super compact heat pump cylinder alternative, Thermino hpPV models give even greater protection against energy price rises.

The Thermino hpPV models work with a range of power diverters to store surplus electricity from solar PV that would otherwise be lost to the grid. Super-compact and with no venting required, it is the easy way to add hot water storage and lower energy use and carbon emissions in the home.

How it works – Thermino hpPV

NOTE Heat pump system must be capable of 65°C at battery inlet

Key features

Space-saving – up to 4 x smaller than the hot water cylinder it replaces

Enables heat pump systems to be installed where otherwise they wouldn't fit

Lower heat losses – up to 4 x higher energy efficiency

A+ energy rating – saves up to 1000 kWh a year

High flow rate hot water

Instantaneously heated for hygiene and freshness

Fast and easy to install – no tundish, no high temp discharge pipework and T&P safety valve to maintain

No mandatory annual maintenance

Market-leading 10-year warranty on the heating element

A+ Energy Efficiency Rating Class

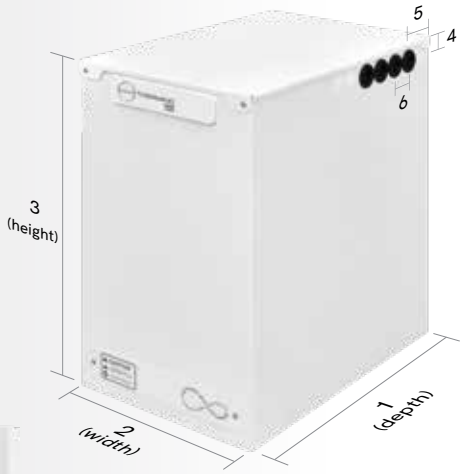
Thermino hpPV technical data and dimensions

		150 hpPV	210 hpPV	300 hpPV
Manufacturer's part number	Thermino hpPV ▲	DKP-DBW-ARZ-1	DNP-DBW-ARZ-1	DRP-DBW-ARZ-1
	Thermino hpPV-VT ●	DKP-DHW-ATZ-1	DNP-DHW-ATZ-1	DRP-DHW-ATZ-1
Equivalent hot water cylinder size (L)		128	192	256
V40* (L)		167	271	333
Heat loss rate (kWh/24) (W)		0.67 (28.1)	0.77 (32.1)	0.84 (35)
Energy efficiency rating class		A+		
Recommended flow rates (LPM)		15	20	25
Minimum heat source flow temperature		65°C		
Maximum heat source flow temperature		80°C		
Minimum mains supply pressure		1.5 bar (0.15 MPa)		
Maximum mains pressure		10 bar (1.0 MPa)		
Hot water temperature		45-55°C		
Connected load at 230v, 50hz (W)		2,800		
Product weight in use (kg)		136	187	233

* V40 refers to the volume (in litres) of water available at 40°C.
NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.

Dimensions

(mm)	150 hpPV	210 hpPV	300 hpPV
Dimension 1	575	575	575
Dimension 2	365	365	365
Dimension 3	640	870	1,050
Dimension 4	37	37	37
Dimension 5	78	78	78
Dimension 6	50	50	50



▲ Compatible with high temperature heat pumps able to deliver 65°C at design temperature and accepting volt-free hot water demand signals such as the Ecoforest Pro series

● Compatible with Vaillant aroTHERM Plus heat pumps

Optional extras

500ml expansion vessel
C5407

Tempering valve
C5388

myenergi Eddi energy diverter
C2160
(in selected markets only)

Thermino hp – Best in class heat generation meets best in class heat storage. Allows heat pumps to be installed in homes where space is too tight for an indirect hot water cylinder.

Thermino hp

Cheaper to run, with lower carbon emissions and minimal maintenance requirements, heat pumps are a great alternative to fossil fuel heating systems – and are kinder to the environment. They work by extracting heat from the air, ground, or a water source providing a sustainable, energy-saving heating solution. However, they also require hot water storage, which could rob valuable space in any home.

Sunamp products have enabled heat pumps to be fitted where there was no room for a bulky hot water cylinder in thousands of projects. It is widely used twinned with heat pumps to replace combi boilers in space-restricted, high-rise apartment blocks.

Our easy-fit Thermino hp batteries work with a variety of excellent heat pumps from a range of manufacturers including Vaillant, Samsung, Daikin, Kensa and Ecoforest.

How it works – Thermino hp

Key features

Space-saving – up to 4 x smaller than the hot water cylinder it replaces

Enables hot water storage systems to be installed where otherwise they wouldn't fit

Lower heat losses – up to 4 x higher energy efficiency

A+ energy rating – saves up to 1000 kWh a year

High flow rate hot water

Instantaneously heated for hygiene and freshness

Fast and easy to install – no tundish, no high temp discharge pipework and T&P safety valve to maintain

No mandatory annual maintenance

Market-leading 10-year warranty on the heating element

A+ Energy Efficiency Rating Class

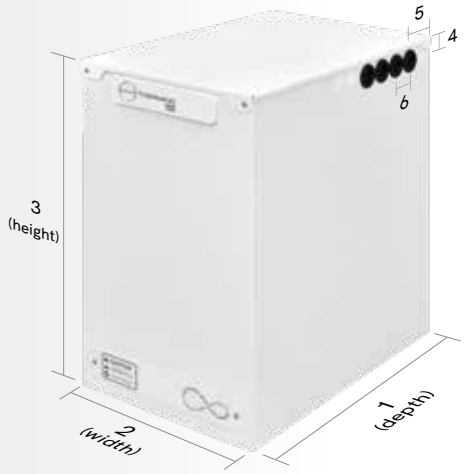
Thermino hp technical data and dimensions

		150 hp	210 hp	300 hp
Manufacturer's part number	Thermino hp ★	DKP-CBW-AUZ-1	DNP-CBW-AUZ-1	DRP-CBW-AUZ-1
	Thermino hp-VT ▲	DKP-CHW-AVZ-1	DNP-CHW-AVZ-1	DRP-CHW-AVZ-1
	Thermino hp-DN ●	DKP-EDW-AYZ-1	DNP-EDW-AYZ-1	DRP-EDW-AYZ-1
	Thermino hp-SG ■	DKP-ECW-AXZ-1	DNP-ECW-AXZ-1	DRP-ECW-AXZ-1
Equivalent hot water cylinder size (L)		128	192	256
V40 (L)*		167	271	333
Heat loss rate (kWh/24) (W)		0.67 (28.1)	0.77 (32.1)	0.84 (35)
Energy efficiency rating class		A+		
Recommended flow rates (LPM)		15	20	25
Minimum heat source flow temperature		65°C		
Maximum heat source flow temperature		80°C		
Minimum mains supply pressure		1.5 bar (0.15 MPa)		
Maximum mains pressure		10 bar (1.0 MPa)		
Hot water temperature		45-55°C		
Connected load at 230v, 50hz (W)		2,800		
Product weight in use (kg)		136	187	233

* V40 refers to the volume (in litres) of hot water available at 40°C.
NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.

Dimensions

(mm)	150 hp	210 hp	300 hp
Dimension 1	575	575	575
Dimension 2	365	365	365
Dimension 3	640	870	1,050
Dimension 4	37	37	37
Dimension 5	78	78	78
Dimension 6	50	50	50



★ Compatible with high temperature heat pumps able to deliver 65°C at design temperature and accepting volt-free hot water demand signals, such as the Ecoforest Pro series and Kensa.

▲ Compatible with Vaillant aroTHERM Plus heat pumps

● Compatible with selected Daikin heat pumps (see manual)

■ Compatible with selected Samsung heat pumps (see manual)

Optional extras

500ml expansion vessel
C5407

Tempering valve
C5388

Thermino ePV – A direct cylinder alternative that delivers hot water more efficiently from solar PV. Grid electricity provides greater flexibility when needed.

Thermino ePV

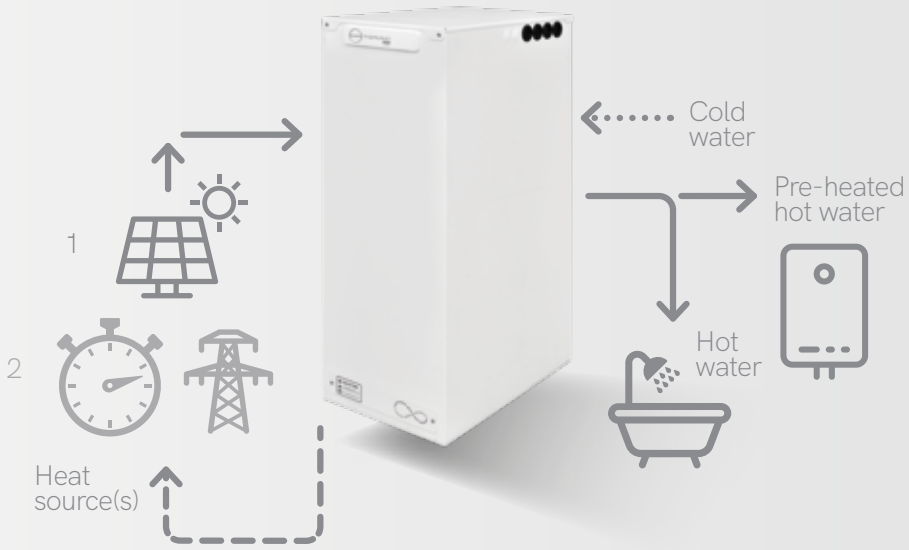
PV ready heat batteries optimise self consumption of electricity generated for free. For even greater flexibility, Thermino ePV heat batteries use off peak electricity from the grid to top up the charge automatically when required.

The Thermino ePV can also keep costs down by pre-heating water for a combi boiler or it can be used as a highly efficient stand-alone water heater to ensure instant, mains pressure hot water for all household taps and showers.

Super-compact to free up valuable storage space, these products are available separately or as a myenergi eddi package* and are the ideal replacement for traditional vented and unvented hot water cylinders and hot water only thermal stores.

*Other power diverters can be used with this product. Please consult Sunamp for more information.

How it works – Thermino ePV



Key features

Space-saving – up to 4 x smaller than the hot water cylinder it replaces

Hot water for free – stores surplus energy from solar PV that would be otherwise lost back to the grid

Lower heat losses – up to 4 x higher energy efficiency

Low heat losses – from only 0.48 kWh a day

High flow rate hot water

Instantaneously heated for hygiene and freshness

Fast and easy to install – no tundish, no high temp discharge pipework and T&P safety valve to maintain

No mandatory annual maintenance

Market-leading 10-year warranty on the heating element

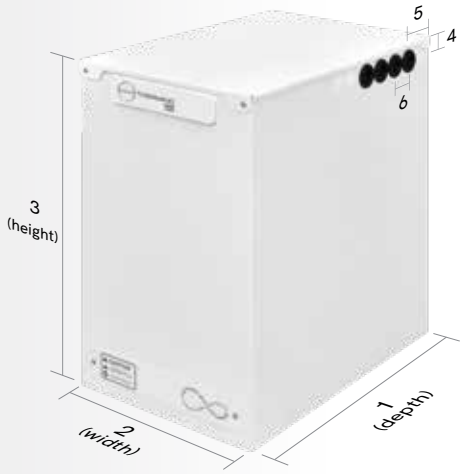
Thermino ePV technical data and dimensions

	70 ePV	150 ePV	210 ePV	300 ePV
Manufacturer's part number	SGP-BAW-ATZ-1	SKP-BAW-ATZ-1	SNP-BAW-ATZ-1	DRP-BAW-ATY-1
Equivalent hot water cylinder size (L)	74	140	212	306
V40 (L)*	105	199	301	436
Heat loss rate (kWh/24) (W)	0.48 (20)	0.67 (28.1)	0.77 (32.1)	0.84 (35)
Energy efficiency rating class	C			
Recommended flow rates (LPM)	6	15	20	25
Minimum mains supply pressure	1.5 bar (0.15 MPa)			
Maximum mains pressure	10 bar (1.0 MPa)			
Hot water temperature	45-55°C			
Connected load at 230v, 50hz (W)	2,800			
Annual electricity consumption (kWh/annum)	542	1,398	2,690	2,701
Product weight in use (kg)	79	139	178	233

* V40 refers to the volume (in litres) of hot water available at 40°C.
NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.

Dimensions

(mm)	70 ePV	150 ePV	210 ePV	300 ePV
Dimension 1	575	575	575	575
Dimension 2	365	365	365	365
Dimension 3	440	640	870	1,050
Dimension 4	37	37	37	37
Dimension 5	78	78	78	78
Dimension 6	50	50	50	50



Optional extras

500ml expansion vessel
C5407

Tempering valve
C5388

myenergi Eddi energy diverter
C2160
(in selected markets only)

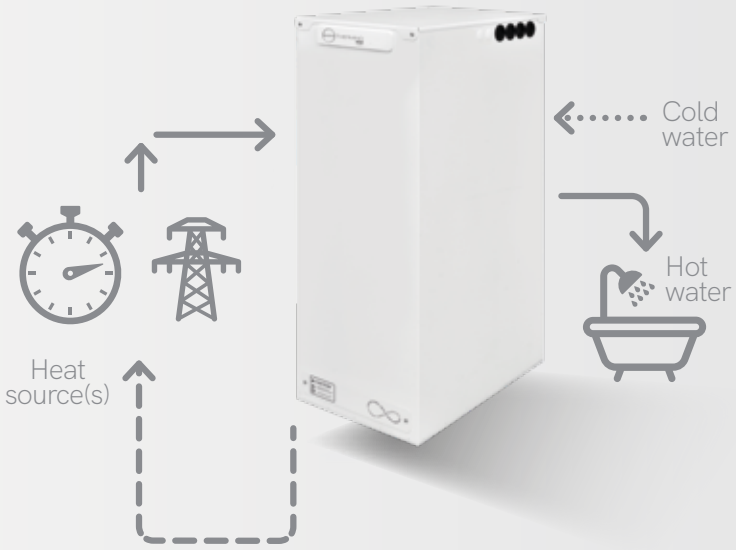
Thermino e – the sleek alternative to direct hot water cylinders with the functionality to schedule charging periods to maximise off peak/variable tariffs.

Thermino e

Thermino e heat batteries are the smart way to heat water and save space and money too, especially when combined with an off-peak tariff. They are the ideal replacement for direct hot water cylinders. Heated by an internal element, which is covered by our market-leading 10-year warranty, they guarantee powerful showers at a perfect temperature. A sleek new design and advanced storage technology make them up to four times smaller than equivalent direct cylinders, freeing up valuable storage space in the home.

Available in four sizes that can also be combined, they are the right solution to perfectly match the exact hot water requirements of any home.

How it works – Thermino e



Key features

Space-saving – up to 4 x smaller than the hot water cylinder it replaces

Flexible orientation with exits on three sides

Lower heat losses – up to 4 x higher energy efficiency

Low heat losses – from only 0.48 kWh a day

High flow rate hot water

Instantaneously heated water for hygiene and freshness

Fast and easy to install – no tundish, no high temp discharge pipework and T&P safety valve to maintain

No mandatory annual maintenance

Market-leading 10-year warranty on the heating element

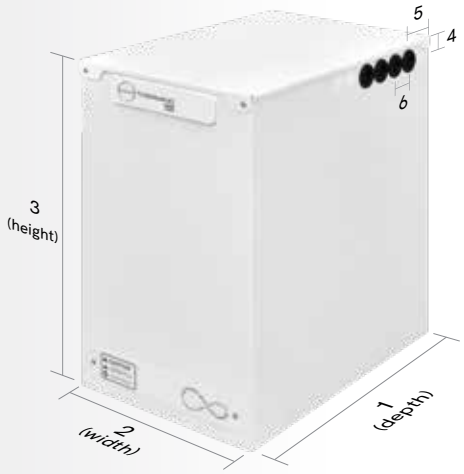
Thermino e technical data and dimensions

	70 e	150 e	210 e	300 e
Manufacturer's part number	SGP-AAW-AVZ-1	SKP-AAW-AVZ-1	SNP-AAW-AVZ-1	DRP-AAW-AVY-1
Equivalent hot water cylinder size (L)	74	142	212	306
V40 (L)*	105	199	301	436
Heat loss rate (kWh/24) (W)	0.48 (20)	0.68 (28)	0.77 (32)	0.84 (35)
Energy efficiency rating class	C			
Recommended flow rates (LPM)	6	15	20	25
Minimum mains supply pressure	1.5 bar (0.15 MPa)			
Maximum mains pressure	10 bar (1.0 MPa)			
Hot water temperature	45-55°C			
Connected load at 230v, 50hz (W)	2,800			
Annual electricity consumption (kWh/annum)	542	1,398	2,690	2,701
Product weight in use (kg)	79	139	178	233

* V40 refers to the volume (in litres) of hot water available at 40°C.
NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.

Dimensions

(mm)	70 e	150 e	210 e	300 e
Dimension 1	575	575	575	575
Dimension 2	365	365	365	365
Dimension 3	440	640	870	1,050
Dimension 4	37	37	37	37
Dimension 5	78	78	78	78
Dimension 6	50	50	50	50



Optional extras

500ml expansion vessel
C5407

Tempering valve
C5388

Thermino iPV – Delivers hot water efficiently from solar PV and boiler as an indirect cylinder alternative. With grid electricity backup for greater flexibility when required.

Thermino iPV

Marrying a solar PV system with a Thermino iPV provides households with cascades of hot water, even when the sun doesn't shine. It works by storing surplus electricity from solar PV that would otherwise be lost to the grid, giving an abundance of hot water for free when it's needed. A secondary heat source, such as a boiler, is always ready to take over when the sun is not shining.

Super-compact to maximise space in the home, these products are available separately or as a myenergi eddi package* and are the ideal replacement for traditional vented and unvented hot water cylinders and hot water only thermal stores.

* Other power diverters can be used with this product. Please consult Sunamp for more information.

How it works – Thermino iPV

Key features

Space-saving – up to 4 x smaller than the hot water cylinder it replaces

Modular – easily combined to increase storage capacity

Lower heat losses – up to 4 x higher energy efficiency

A+ energy rating – saves up to 1000 kWh a year

High flow rate hot water

Instantaneously heated for hygiene and freshness

Fast and easy to install – no tundish, no high temp discharge pipework and T&P safety valve to maintain

No mandatory annual maintenance

Market-leading 10-year warranty on the heating element

A+ Energy Efficiency Rating Class

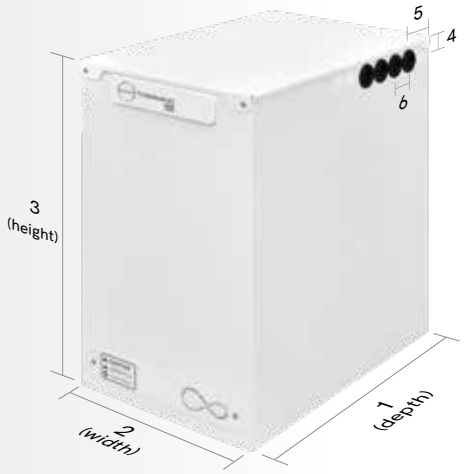
Thermino iPV technical data and dimensions

	150 iPV	210 iPV	300 iPV
Manufacturer's part number	DKP-DBW-ATZ-1	DNP-DBW-ATZ-1	DRP-DBW-ATZ-1
Equivalent hot water cylinder size (L)	142	212	284
V40 (L)*	185	300	370
Heat loss rate (kWh/24) (W)	0.67 (28.1)	0.77 (32.1)	0.84 (35)
Energy efficiency rating class	A+		
Recommended flow rates (LPM)	15	20	25
Minimum heat source flow temperature	65°C		
Maximum heat source flow temperature	80°C		
Minimum mains supply pressure	1.5 bar (0.15 MPa)		
Maximum mains pressure	10 bar (1.0 MPa)		
Hot water temperature	45-55°C		
Connected load at 230v, 50hz (W)	2,800		
Product weight in use (kg)	136	187	233

* V40 refers to the volume (in litres) of hot water available at 40°C.
NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.

Dimensions

(mm)	150 iPV	210 iPV	300 iPV
Dimension 1	575	575	575
Dimension 2	365	365	365
Dimension 3	640	870	1,050
Dimension 4	37	37	37
Dimension 5	78	78	78
Dimension 6	50	50	50



Optional extras

500ml expansion vessel
C5407

Tempering valve
C5388

myenergi Eddi energy diverter
C2160
(in selected markets only)

Thermino i – An indirect cylinder alternative that works with boilers and comes with a standby internal electric heating element for greater flexibility.

Thermino i

Like the Thermino model, our equally compact Thermino i heat batteries are also designed to work with boilers and come complete with a back-up internal electric heating element covered by our market-leading 10-year warranty to provide a failsafe solution.

Thanks to our best-in-class insulation, gas, oil, or LPG consumption will be reduced. Lower heat losses mean lower carbon emissions and lower energy use, to help save money and the planet too. Available in four sizes to meet the needs of any size of household.

How it works – Thermino i

Key features

Space-saving – up to 4 x smaller than the hot water cylinder it replaces

Flexible orientation with exits on three sides

Lower heat losses – up to 4 x higher energy efficiency

A+ energy rating – saves up to 1000 kWh a year

High flow rate hot water

Instantaneously heated for hygiene and freshness

Fast and easy to install – no tundish, no high temp discharge pipework and T&P safety valve to maintain

No mandatory annual maintenance

Market-leading 10-year warranty on the heating element

A+ Energy Efficiency Rating Class

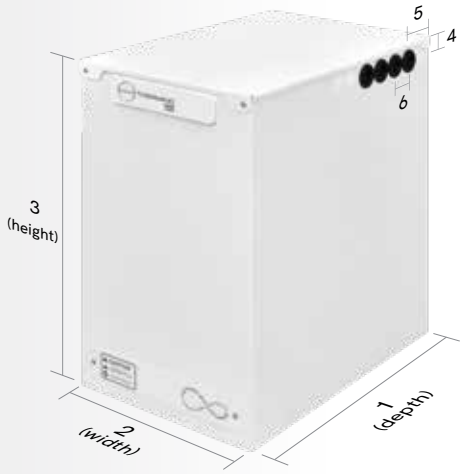
Thermino i technical data and dimensions

	70 i	150 i	210 i	300 i
Manufacturer's part number	DGP-CBW-AVZ-1	DKP-CBW-AVZ-1	DNP-CBW-AVZ-1	DRP-CBW-AVZ-1
Equivalent hot water cylinder size (L)	71	142	212	284
V40 (L)*	85	185	300	370
Heat loss rate (kWh/24) (W)	0.48 (20)	0.68 (28.1)	0.77 (32.1)	0.84 (35)
Energy efficiency rating class	A+			
Recommended flow rates (LPM)	6	15	20	25
Minimum heat source flow temperature	65°C			
Maximum heat source flow temperature	80°C			
Minimum mains supply pressure	1.5 bar (0.15 MPa)			
Maximum mains pressure	10 bar (1.0 MPa)			
Hot water temperature	45-55°C			
Connected load at 230v, 50hz (W)	2,800			
Product weight in use (kg)	79	136	187	233

*V40 refers to the volume (in litres) of hot water available at 40°C.
NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.

Dimensions

(mm)	70 i	150 i	210 i	300 i
Dimension 1	575	575	575	575
Dimension 2	365	365	365	365
Dimension 3	440	640	870	1,050
Dimension 4	37	37	37	37
Dimension 5	78	78	78	78
Dimension 6	50	50	50	50



Optional extras

500ml expansion vessel
C5407

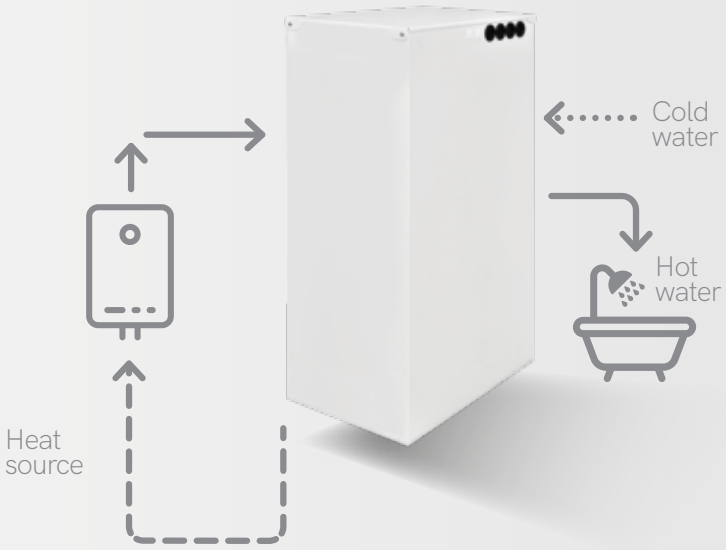
Tempering valve
C5388

Thermino – The energy saving, indirect hot water heater that works with boilers and heat pumps to lower fuel consumption.

Thermino

Thermino is the space-saving alternative for indirectly heated vented and unvented hot water cylinders and hot water only thermal stores. Easy to install, they are specially designed to work with boilers and heat pumps. Thanks to high performance insulation, oil, gas or LPG consumption will be much lower. Lower heat losses mean lower carbon emissions which is a first step on the road to net zero.

How it works – Thermino



Key features

- Space-saving – up to 4 x smaller than the hot water cylinder it replaces
- Flexible orientation with exits on three sides
- Lower heat losses – up to 4 x higher energy efficiency
- A+ energy rating – saves up to 1000 kWh a year
- High flow rate hot water
- Instantaneously heated for hygiene and freshness
- Fast and easy to install – no tundish, no high temp discharge pipework and T&P safety valve to maintain
- No mandatory annual maintenance
- Market-leading 10-year warranty on the heating element
- Works with any type of regular or system boiler

A+ Energy Efficiency Rating Class

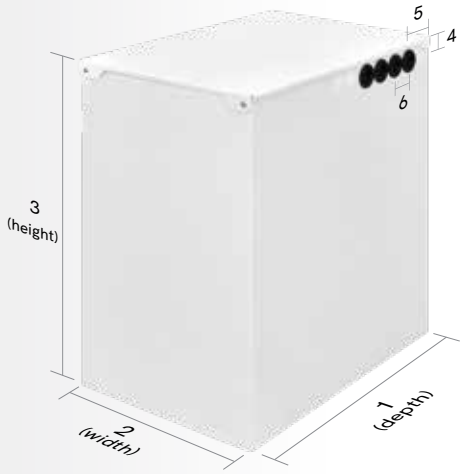
Thermino technical data and dimensions

	70	150	210	300
Manufacturer's part number	TGP-FGW-AVZ-1	TKP-FGW-AVZ-1	TNP-FGW-AVZ-1	TRP-FGW-AVZ-1
Equivalent hot water cylinder size (L)	71	142	212	284
V40 (L)*	85	185	300	370
Heat loss rate (kWh/24) (W)	0.45 (18.7)	0.65 (27)	0.74 (30.7)	0.81 (33.7)
Energy efficiency rating class	A+			
Recommended flow rates (LPM)	6	15	20	25
Minimum heat source flow temperature	65°C			
Maximum heat source flow temperature	80°C			
Minimum mains supply pressure	1.5 bar (0.15 MPa)			
Maximum mains pressure	10 bar (1.0 MPa)			
Hot water temperature	45-55°C			
Product weight in use (kg)	59	123	176	218

* V40 refers to the volume (in litres) of hot water available at 40°C.
NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.

Dimensions

(mm)	70	150	210	300
Dimension 1	575	575	575	575
Dimension 2	365	365	365	365
Dimension 3	410	606	815	1,025
Dimension 4	37	37	37	37
Dimension 5	78	78	78	78
Dimension 6	50	50	50	50



Optional extras

500ml expansion vessel
C5407

Tempering valve
C5388

Installation and technical support

Sunamp heat batteries are world-leading high-power density, high-energy density, super-compact thermal stores. For best performance and peace of mind, it is important to ensure that they are correctly specified and expertly installed.

All Sunamp certified installers receive free training and ongoing technical support to ensure they have the knowledge and skills to provide the best solution for their customers. Training is available online and in person at the Sunamp factory where we have a state-of-the-art facility designed especially for these sessions.

Technical manuals can be downloaded at sunamp.com

Where can I buy Sunamp products?

Sunamp does not sell to individuals – any direct sales enquiries are forwarded to our installer and distributor network and our products are available through our approved stockists.

For a current list of distributors visit sunamp.com

How do I become a Sunamp certified installer?

We run regular training sessions. To find out if you qualify for our free training packages simply email **training@sunamp.com**

Sunamp and sustainability

Reducing carbon footprint to achieve a net zero economy is at the heart of everything we do as a business. We have signed up to the SME Climate Hub commitment to halve our greenhouse gases by 2030 and achieve net zero emissions before 2050. Recent analysis shows the greenhouse gas intensity per sold product associated with our direct business activities is already approximately zero.

Our Thermino heat batteries are non-toxic, non-flammable and we are able to fully re-use or recycle every component at end-of-life. They are produced in a factory and offices heated and powered by carbon-free electricity from wind generation. We have carbon accounting systems in place to collect relevant data and report on our emissions reduction progress annually.

Sales enquiries

Sunamp does not sell directly to homeowners. Please visit our website **sunamp.com** for our up-to-date list of stockists and installers who will be happy to help.

Project specifiers, housing developers and social landlords interested to find out how Sunamp can help you on your road to net zero, please email **sales@sunamp.com**

Customer support

If you would like more detailed information on our products or have a technical enquiry please contact **customerservice@sunamp.com**

Please include all details of your enquiry and relevant warranty information. We will respond to all enquiries in clear and friendly manner within one working day.

*Sunamp has protected their technology in a wide range of global patents based on the patent applications listed on our website **sunamp.com***

Quality assured

We work to the highest of standards and hold ISO accreditation having achieved key international and UK quality certifications which underline our commitment to sustainability, health and safety, and quality in everything that we do.

ISO 9001 – Quality Management
ISO 14001 – Environmental Management
ISO 45001 – Occupational Health & Safety

Certificate number 12881

Sunamp products are also fully certified for the UK and European markets, are fully compliant with the low voltage directive (LVD) and electromagnetic compatibility (EMC) directive, conform to standards set out by the Water Regulation Advisory Scheme (WRAS) and are CE marked.

Sunamp is an industrial associate of:

Sunamp technology developed in association with:

As an innovative company committed to achieving net zero, Sunamp Ltd continuously improves its products which means data and other information are subject to change without prior notice. While every effort has been made to ensure that all specifications and descriptions are correct at the time of going to press, this brochure should not be regarded as an infallible guide nor as an offer of sale for a particular product.

Always refer to the latest version of this document, other information and our latest terms and conditions which are available to view and download at www.sunamp.com