

## Introducing the UniQ™ Range

### Why UniQ?

**Uni:** The one and only energy storage solution you need for...

**Q:** The engineering symbol for Heat Energy.

Or ... A totally new way to get more energy storage in less space, with much higher energy efficiency; a proven cycle life of over 35,000 cycles; low maintenance; easier to install; and cost-competitive.

# Sunamp

  
**Heat Batteries™**

**UniQ 3**



**UniQ 6**



**UniQ 9**



**UniQ 12**

Sunamp UniQ Heat Batteries are a range of thermal energy stores designed for space heating, cooling and hot water applications.

- UniQ Heat** Heat battery for space heating only, which is normally heated by one or more external heat sources via hydronic circuit.
- UniQ eHeat** Heat battery for space heating only, which is normally heated by one or more integrated electric heaters.
- UniQ rHeat** Heat battery for space heating only, which is heated by an external heat pump using the heat pump refrigerant circuit i.e. the refrigerant flows through the heat exchanger in the *UniQ rHeat* store. (OEM only)
- UniQ HW** Heat battery for domestic hot water heating only, which is normally heated by one or more external heat sources via a hydronic circuit.
- UniQ eHW** Heat battery for domestic hot water only, which is heated by one or more integrated electric heaters.
- UniQ rHW** Heat battery for domestic hot water only, which is heated by an external heat pump using the heat pump refrigerant circuit i.e. the refrigerant flows through the heat exchanger in the *UniQ rHW* store. (OEM only)
- UniQ Dual** Heat battery for both space heating and domestic hot water, which is normally heated by one or more external heat sources via a hydronic circuit.
- UniQ eDual** Heat battery for both space heating and domestic hot water, which is normally heated by one or more integrated electric heaters.
- UniQ dPV** Heat battery designed for utilising on-site solar energy by buffering heat for DHW heating and/or space heating and which is fitted with DC electric heaters and is heated directly by solar PV system.
- UniQ ePV** Heat battery designed for utilising excess on-site behind-the-meter solar PV electricity (above what is consumed by on-site AC electricity loads) and which is fitted with AC electric heaters and is heated by means of AC electricity diverted by a power diverter controller. The stored heat can be used for DHW heating and/or space heating.

*Details of Forthcoming Products without warranty. Valid as at March 2018. Information subject to change and improvement without notice. Please consult Sunamp for latest information before design of systems or use of products. Errors & Omissions Excepted.*

## Sunamp UniQ advantages are:

- **World's first commercially viable and fully proven Phase Change Material Heat Battery**
- **Scalable, modular:** they can be easily combined to increase the storage capacity
- **Flexible:** they can be recharged electrically or thermally from a multitude of sources
- **Reliable:** the technology has been extensively tested in the lab and validated in the market
- **Simple:** water tanks require many ancillary components to ensure safe and effective operation. They are not required with UniQ saving on installation costs
- **No annual maintenance:** avoids the annual inspection and service required for unvented cylinders
- **Efficient Design:** Lower heat losses than a traditional hot water tank
- **Dramatic efficiency gains:** saving money and CO<sub>2</sub>
- Delivers **fast-flowing hot water on-demand:** water is heated instantly
- Hot water is at **mains pressure:** rather than the slow dribble from many hot water taps
- **Instant heat:** high power brings heating system to temperature in seconds, saves energy, money and improves comfort and regulatory compliance
- **Compact:** smaller than a slimline dishwasher, and can be floor mounted, fitted in a small kitchen unit, in a cupboard or in the garage
- **Safe and sustainably sourced:** Sunamp's Phase Change Material is non-toxic, non-flammable, salt-based and no forests were cut down to make this product and we recycle or reuse everything at the end of life
- **No legionella risk:** very little water held in the pipes inside the product
- **It can help with grid balancing:** by charging up in off-peak periods, it shifts load away from peak periods and helps reduce the strain on the electricity system.



		UniQ HW 3	UniQ HW 6	UniQ HW 9	UniQ HW 12
Nominal storage capacity <sup>[1]</sup>	[kWh]	2.6 – 3.6	6.4 – 7.2	10.6 – 11.3	12.7 – 13.3
Width – All models	[mm]	370	370	370	370
Depth – All models	[mm]	575	575	575	575
Height – Standard models	[mm]	410	605	815	1,025
Height – Models with standby electric heaters	[mm]	455	650	860	1,070

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