



THERMINO

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

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 | 371 | 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)