



INTRODUCING



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teratherm
ENERGY

Addagrip Teratherm Surfaces unique innovative surfacing solution, creating a non slip thermal energy harvesting surface.

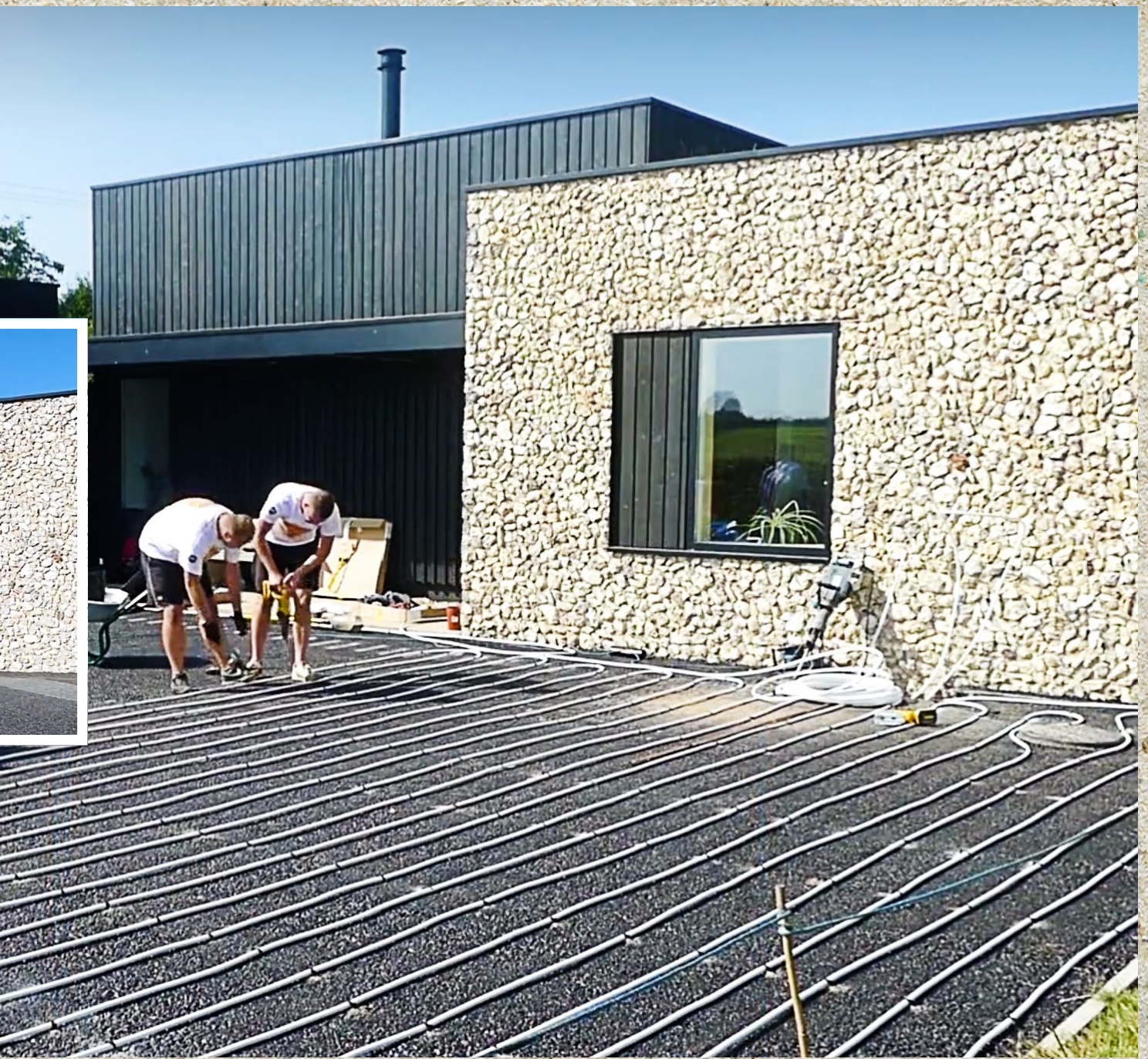
Addagrip Teratherm captures free solar thermal energy for hot water, heating, cooling and refrigeration demands.

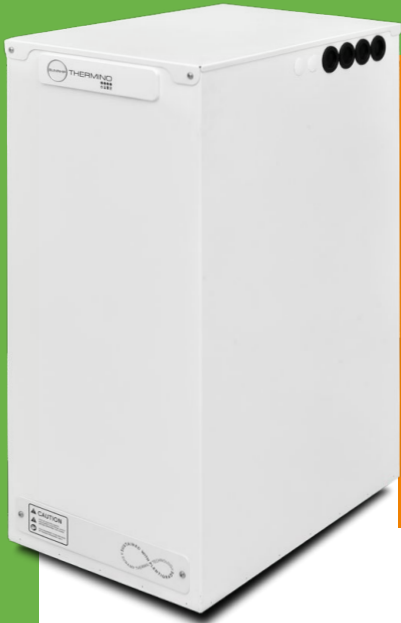
We combine our Addagrip resin surface with the latest thermal battery storage for ultimate longer lasting usage.

Addagrip Teratherm linked with an air source heat pump will reduce your heating costs in the winter months by pre heating your heat pump to achieve the most efficient and highest COP rating on the market.

With our ever changing climate we can provide a reactive surface ensuring a safer and energy efficient solution helping the fight on ever increasing fuel bills and reaching net zero targets.







SUNAMP – HEAT STORAGE

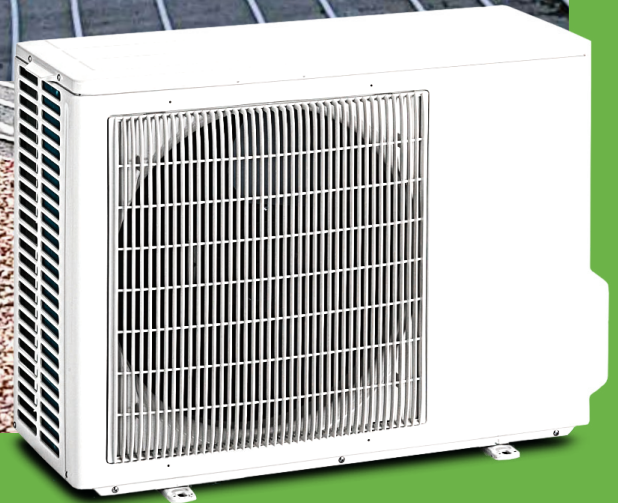


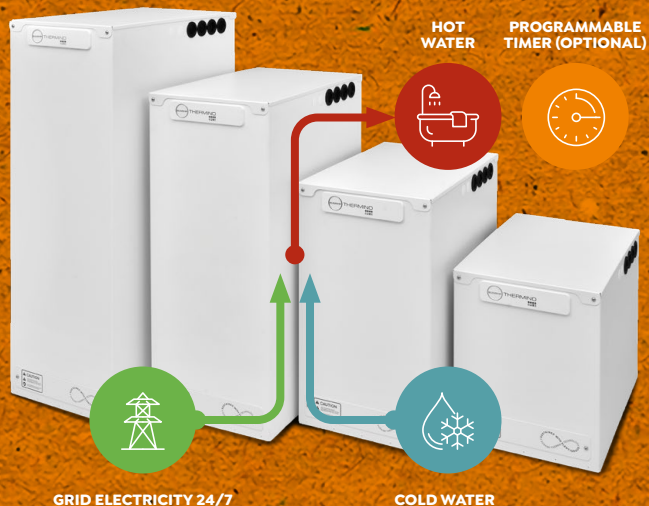
Teratherm PIPEWORK

INTRODUCING OUR ECO SYSTEM



HEAT PUMP





SUNAMP THERMINO E RANGE

Sunamp 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 They are the ideal replacement for outdated direct hot water cylinders. Heat by an internal element, which is covered by our market leading 10-year warranty, they guarantee powerful showers at the temperature that is perfect for you. Their sleek new design and advanced storage technology makes them up to four times smaller than the equivalent direct cylinders, freeing up valuable storage space in your home.

KEY FEATURES

- Save money with off-peak tariffs and improved efficiency.
- Ultra-compact up to 4 times smaller than equivalent hot water cylinders.
- Instant hot water at mains pressure.
- Energy efficient extremely low heat losses.
- Easy to install.
- Safe non-toxic and no risk of legionella.
- Reliable: market leading 10-year warranty.
- No mandatory annual maintenance.
- Modular: easily combined to increase storage capacity.
- Compatible with any volt-free signal switch, including smart controllers like Nest etc.

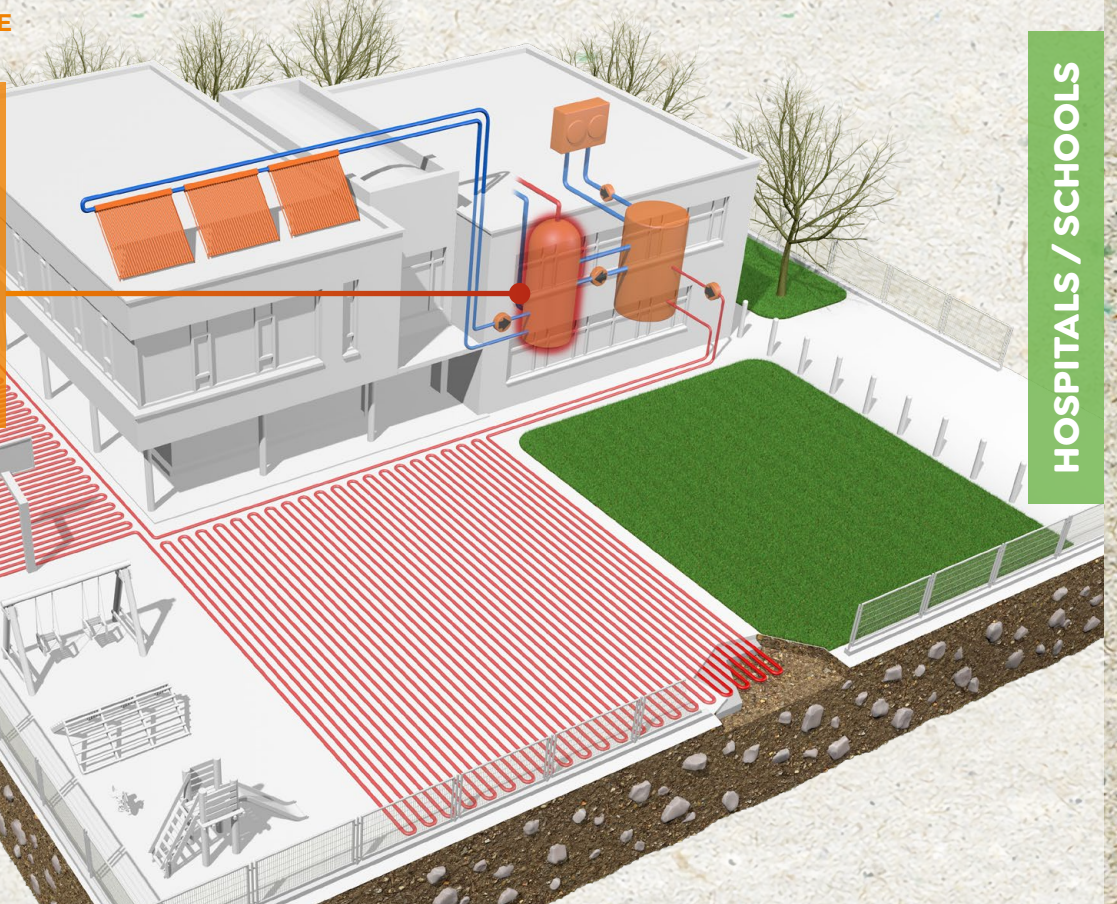
HEAT PUMP

An air source heat pump is a type of heat pump that can absorb heat from the outside a structure and release it inside using the same vapor-compression refrigeration process and much the same equipment as air conditioners but used in the opposite direction.



**TRADITIONAL
CYLINDERS CAN BE
REPLACED WITH**

**SUNAMP
HEAT STORAGE
BATTERIES**



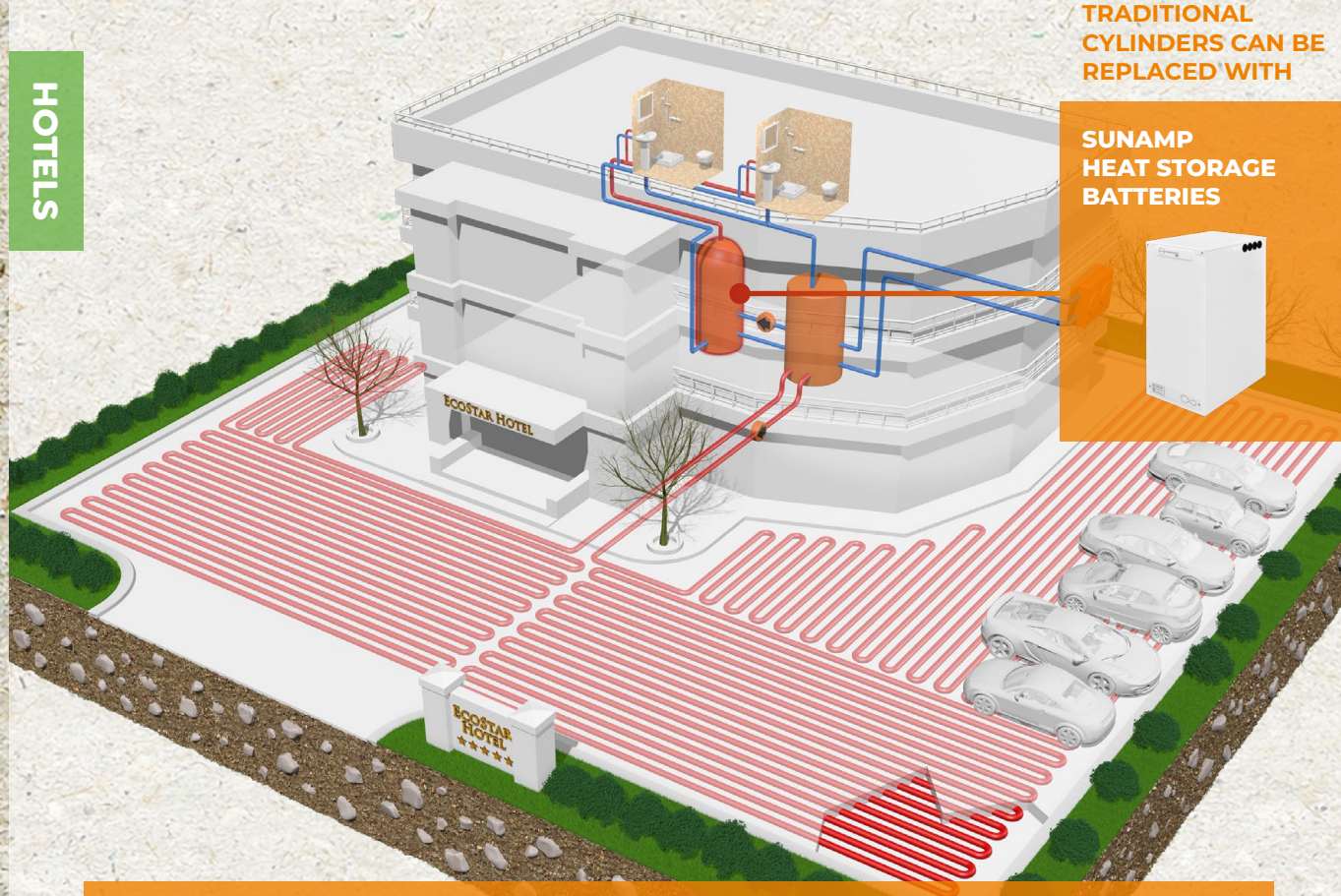
HOSPITALS / SCHOOLS

Addagrip Teratherm can be used for all external areas such as playgrounds, paths, steps, slopes and car parks. You can ensure with our system you will not have ice or snow build up due to our Addagrip Teratherm automatic system. It senses temperature decrease, automatically warming the resin surface using a renewable heat source.

For example, the heat already existing in a boiler room can be used to heat the resin surface making the most of the free energy already onsite.

The heat from the surface can be harnessed to help supply hot water (heating or cooling). Also with battery storage the excess heat can be stored for peak daytime usage.

HOTELS



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Our Addagrip Teratherm system can be used all around the external areas of a hotel such as car parks, paths / steps. Providing a non-slip surface making a safer more pleasant stay for customers and a more practical place to work for employees.

The surface can be heated using stored heat from grey waste water such as from showers, basins and baths. This free already existing heat can then be used to

heat the outside surface areas to stop them from freezing and for melting snow. When the sun is shining on the external resin surface, the heat from this can be harnessed to provide hot water (heating, cooling) for the hotel. This multi-functional system can help to make a more pleasant, safer environment using free energy that already exists.

RAILWAY STATION

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BATTERIES



We provide a SuDS compliant, permeable, completely smooth/flat surface making it slip and trip free. With our pipework installed under the Resin Bound surface, Addagrip Teratherm takes heat out of the station via an air source heat pump. Whenever temperatures drop to 0° C this

heat will be used to warm the surface area around the station to assure no ice or snow build up. There would be no laying water as the surface is fully permeable.

With the heat pump installed, Addagrip Teratherm can take the heat out of resin during warmer months to provide free energy for hot water.

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HEAT STORAGE
BATTERIES**



DOMESTIC HOUSES

Our adaptable system can be used on patios, paths and driveways creating a lovely bespoke finish. With our unique home energy system a heat pump can heat the ground when freezing temperatures occur, creating a smooth non slip surface. Our domestic house solution can be used

with an air source heat pump and thermal battery storage to store the energy for peak demand usage and in colder months we are able to pre heat the air source heat pump to create the most energy efficient system on the market.

How does the Teratherm system work?

The Addagrip Teratherm surface is installed onto a suitable base at a depth between 30-45 mm, the Pipework is covered with a larger base stone and the top coat is installed to specific depth and colour choice , it can the be connected to a thermal battery with can store excess heat for peak demand usage and there would be no need for a hot water cylinder.

Will this supply my heating and hot water?

Set up with an air source heat pump and thermal battery the system would be capable of supplying your heating and hot water and saving up to 65% on fuel bills.

Can the system be installed on steps and slopes?

Yes, the surface will create a smooth, non-slip surface all year round wherever this surface is applied.

How long will this system last?

Life expectancy on this system is 25 years.

Is there a warranty on the system?

There is a 20 year material warranty on the resin bound surface and a standard warranty on the heat pump and thermal battery.

Are Resin Bound surfaces durable?

Yes, a blended mixture of aggregates and resin creates a hard wearing and permeable surface that have been in use for over 25 years.

Can I have an Teratherm system designed specifically for my

needs? Yes. Our specialist will arrange a site visit, discuss your requirements and design a bespoke system for you.



**SUDs compliant
& permeable**



**Ideal for swimming
pools and hot tubs
saving around
£1500 per annum**



**Harvesting
energy from
the Sun**



**Creates a frost-
free surface**



**Low
maintenance**



**Reduces carbon
emissions**



**Produces cost-
free hot water**



**Heats up water
to 50 degrees**



**Ideal for commercial
& new domestic
self-build
developments**



**Ideal for district
heating schemes**



**Can be retro
fitted to existing
properties**



**Guide price per m²
(£150m²) - based
upon 100m² project**



**Minimum area
required 40m**



**Thermal
battery domestic
and commercial**



**Life expectancy
of 25 years**



**Bespoke design
service**



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