

thermo^{///}slate

by CUPA GROUP

TECHNICAL INFORMATION

THERMAL SOLAR NATURAL SLATE ROOFING



thermoslate

by CUPA GROUP


THERMOSLATE®, the only solar system in the market made with natural slate that **generates energy for heating sanitary hot water and swimming pool.**

Our installations with solar collectors **THERMOSLATE®**, are characterized by the **ability to adapt** to the needs of each location and roof.

DEFINE YOUR SUITABLE INSTALLATION. THERMOSLATE® IN 3 STEPS

1

Choose the **location** of installation



2

Define the SHW consumption depending on the number of people

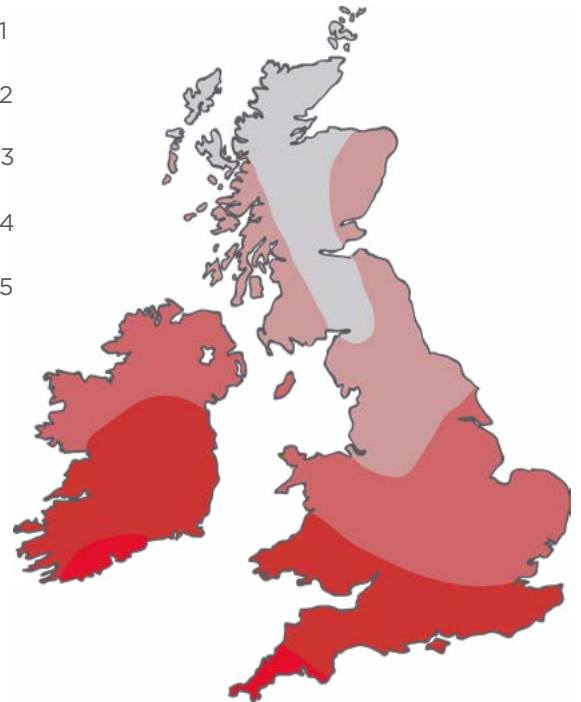












3

Choose the best configuration of collectors according to the available surface on the roof



- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5



	Number of people	Number of bedrooms	Solar cylinder volume	Average solar contribution	Possible configuration THERMOSLATE®
ZONA I - IV		2	200 L	55 %	 ○ 
		3, 4	300 L	50 %	 ○ 
		4, 5	400 L	55 %	 ○ 
ZONA V		2	200 L	60 %	
		3, 4	300 L	55 %	
		4, 5	400 L	55 %	 ○ 

* Estimated figures for 50L per day and per person. South orientation ± 20° and inclination 30° ± 10°.
 * These data may vary depending on the orientation and inclination.



Full integration into facades and pitched roofs over 20°



The best solution for Solar Thermal installations in homes and emblematic buildings



Compatible with all existing storage systems, control and distribution



According to the standards requirements in all climate zones

A THERMOSLATE® SOLUTION FOR EACH NECESSITY



THERMOSLATE® SOLAR PANEL MODEL

Characteristics	THS.3222.S07
SLATE FORMAT (cm)	50x25
OVERLAP (cm)	10
EXTERNAL DIMENSIONS	2267x743x37
TOTAL AREA (m ²)	1,45
TOTAL CATCHMENT AREA (m ²)	1,36



CONNECTION AND WATERPROOFING KIT

EVERYTHING YOU NEED TO INSTALL THERMOSLATE®



Specific kits for THERMOSLATE®



CONNECTIONS
BETWEEN PANELS
WITH RETAINING
CLIPS



SIDE WATERPROOF FLASHINGS (RIGHT)



FLEXIBLE HOSE
CONNECTION FOR THE
INSTALLATION



SIDE WATERPROOF FLASHINGS (LEFT)



NUTS, WASHERS AND REDUCERS



WATERPROOFING COMPONENTS BETWEEN PANELS



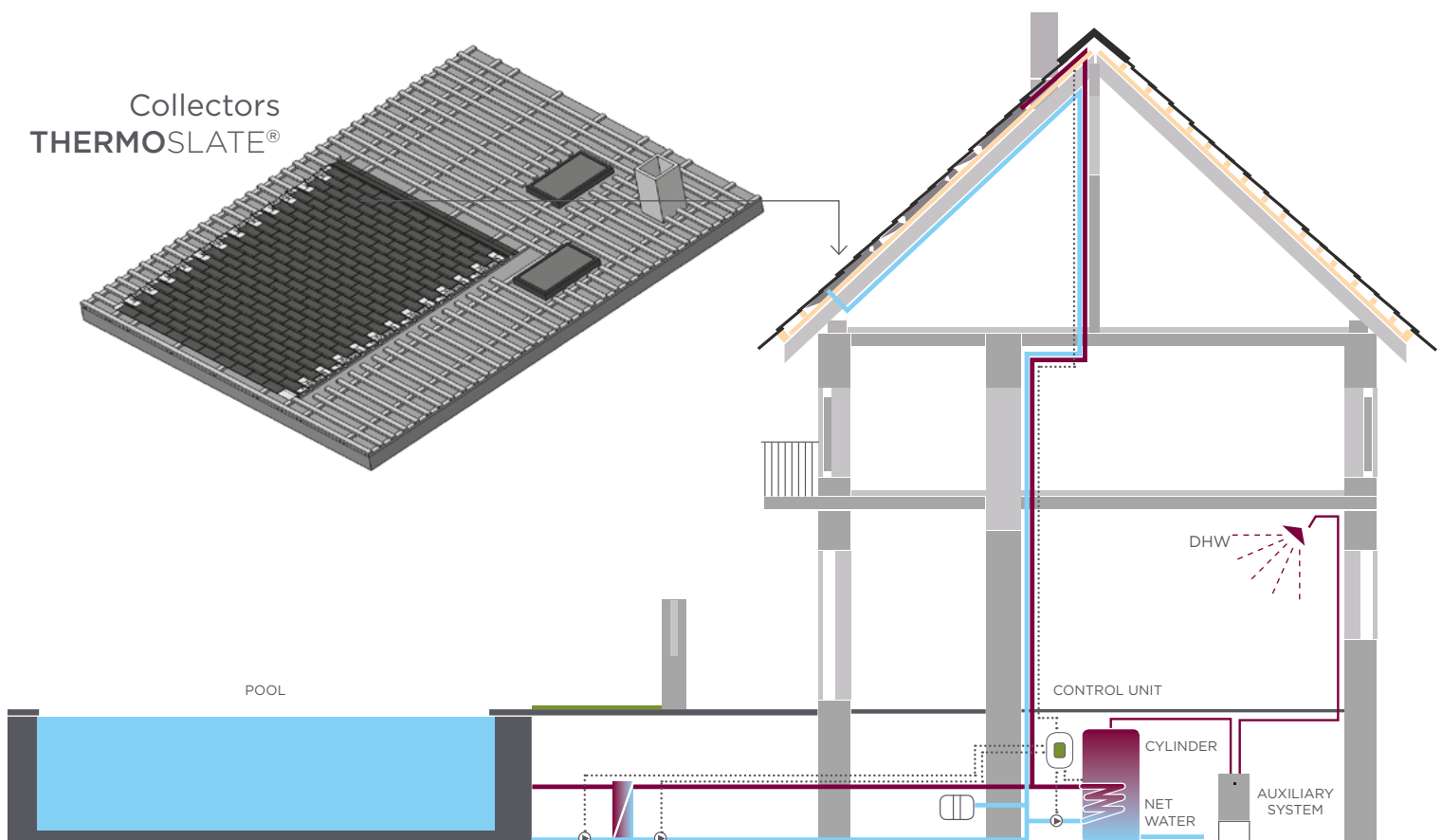
thermoslate CASE STUDY

PROJECT DESCRIPTION

FAMILY BUILDING. 5 PEOPLE.

THERMOSLATE®	7 x THS.5025.S10 (1,36 m ²) solar collectors
Hydraulic equipment	1 x Solar cylinder 400 L
	1 x Connection kit 8-10
Accessories	1x Bottom integration frame
	1 x Top integration frame
	1 x Waterproofing kit

Collectors
THERMOSLATE®



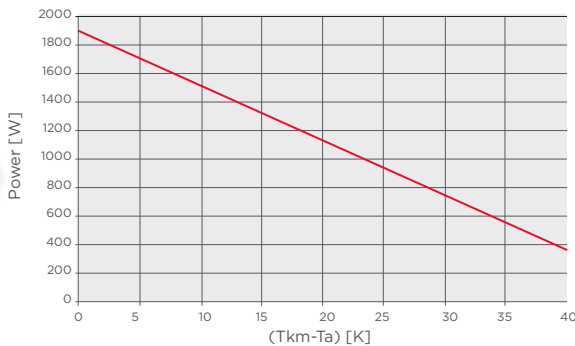


EFFICIENCY

GREEN ENERGY FOR EVERY PROJECT



SYSTEM YIELD GRAPH



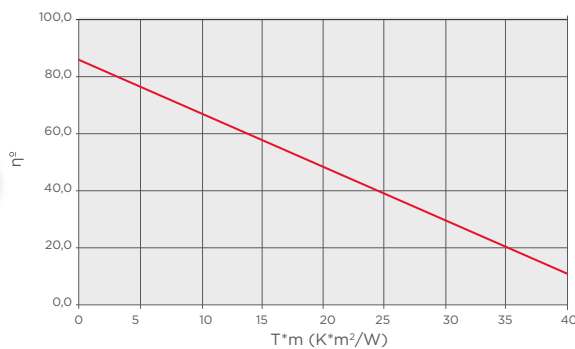
The yield graph can be calculated using the following formula:

$$\eta_0 = 0,861 \quad a_1 = 13,552 \quad a_2 = 0,054$$

(W/(m²k)) (W/(m²k))



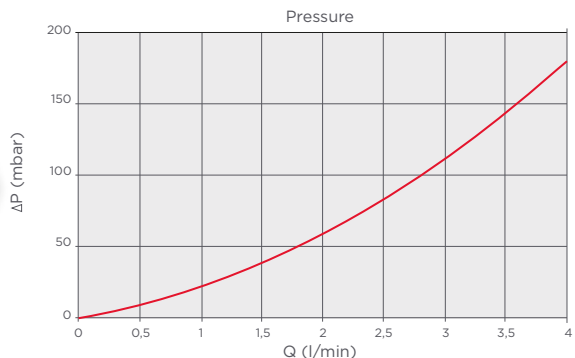
YIELD GRAPH PER PANEL



A **THERMOSLATE®** installation with 5 panels generates an average of 4000W which is enough to cover the requirements of a typical 4 person household whatever the climate zone.



PRESSURE LOSS GRAPH



The pressure loss of the panel at 3L/min and 25° is 130mbar/25KPa. Please consult the graph for pressure losses up to 4L/min.



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THERMOSLATE® systems have been designed and developed by CUPAGROUP

