

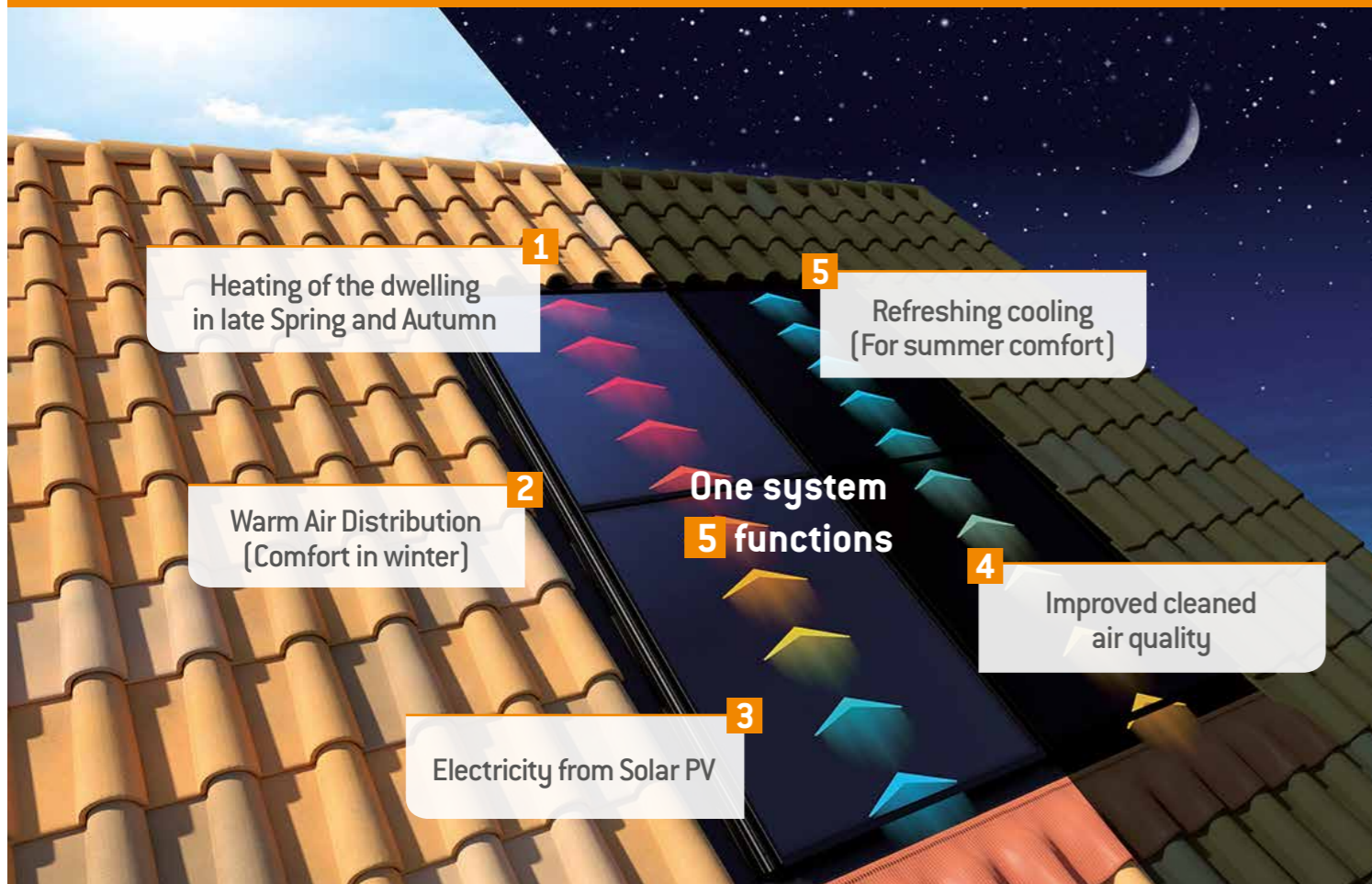


*sun*wood

Combine solar and wood for a new generation of heating



SUNWOOD, a new generation of heating



SOLAR Panel HEATING MODE



WOOD STOVE radiated heat mode



sunwood-R

Warm Air Distribution system moving air heated from the combination of solar panel and wood stove.

sunwood-PV

PV generated Electricity & Warm Air Distribution system moving air heated from the combination of solar panel and wood stove.

THE CHIMNEY HEAT EXCHANGER



The thermal comfort up to your bedroom

- > **Heat from the solar panels** : efficient in late Spring & Autumn, lowering the use of the main heating system and heating bills.
- > **Heat from Wood stove**: this optimises the use of the heat produced by the stove with the addition of heat from the chimney, then evenly distributing the warmer air around the home.
- > **Night cooling** : for summer months the system can lower the ambient air temperature of the house by 3°C*.
- > **All year round** :
 - the home's air quality is controlled and improved by introducing refreshed air changes within the home.
 - electricity production by solar PV

*Based on the analysis of the results by Laboratory CERIC, monitoring an air tight house of 120 m² equipped with SUNWOOD since May 2015.



SUNWOOD is a Fully Automatic Remote Controlled system



FUNCTIONALITY OF THE SYSTEM

SUNWOOD - Can either heat or cool the home to the home owners desired temperature, which will improve their personal comfort.

The Block-R - is an air distribution mixer and fan unit optimizing the use of the heated air produced by the solar panels and/or the wood stove.

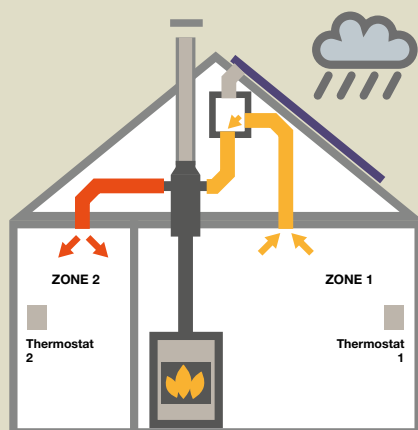
SUNWOOD-PV - Has the added functionality of producing additional electricity from the solar PV panels to promote energy independence and the electrical need of the home.

TECHNICAL CHARACTERISTICS

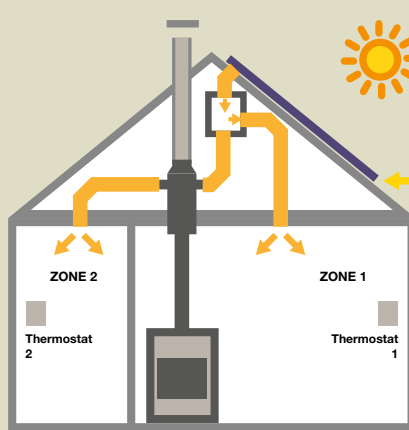
	Heat output, solar thermal system Wth	Electricity output, PV system WC	Heat output, Chimney Heat exchanger Wth	Solar + wood heating	Electricity production PV	Air Refreshing & Cooling
SUNWOOD-R 4 panels R	3 000		1 000	X		X
SUNWOOD-PV 2 R + 2 PV	2 800	500	1 000	X	X	X
SUNWOOD-PV 2 R + 4 PV	4 100	1 000	1 000	X	X	X
SUNWOOD-PV 4 PV	2 600	1 000	1 000	X	X	X

WINTER

Heating using the wood appliance



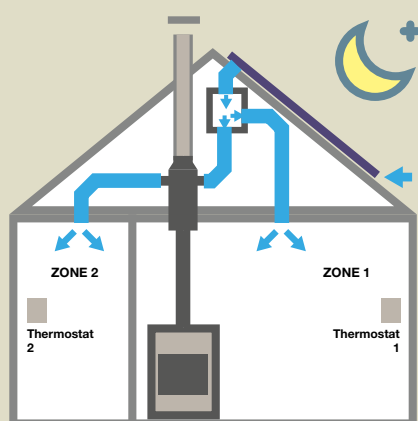
Heating using the solar panels



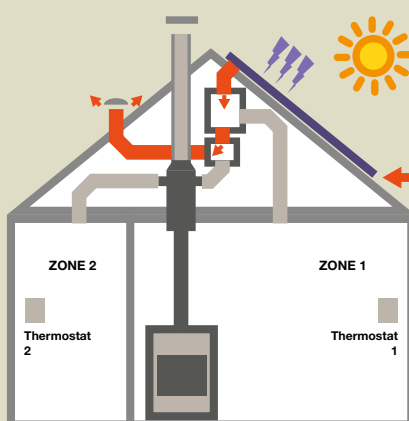
The wood stove can be running at the same time

IN SUMMER

Night cooling system



Solar panel electricity production



Thermal solar panel R

Dimensions(H,L,I): 1518x1011x43mm

Weight: 20,6kg

Orientation: portrait

Roof Tiles: All types

Roof Pitch: 15° to 60°

Minimum Length pitch: 1,7m

Thermal output: 750W (th)

IAB

PV and thermal solar panels

Dimensions(H,L,I): 1518x1011x43mm

Weight: 17,5kg

Orientation: portrait

Roof Tiles: All types

Roof Pitch: 15° to 60°

Minimum Length pitch: 1,7m

Thermal output: 650Wth

PV power: 250Wc

Monocrystalline structure

IAB

Inverter

Micro-inverter - 250Wc-OMNIK

Bloc-R

Dimensions(H,L,I): 380x550x500mm

Weight: 10kg

Ventilator / fan: low power consumption with variable flow rate 100 m³/h to 400 m³/h

Thermostat: digital with radio control

Operating Modes: heating (regulated at max 50°C), Air Changes / Refresh, PV cooling, Frost stat.

Vents

In the Living area: 200 m³/hour for a 50 m² space

In the bedrooms: 50 m³/hour for a 15 m² space

Heat exchanger

PELLET STOVE VERSION PGI

Dimension: ECH PGI -> H=2 m

Chimney Ø = Ø80/130 or 100/150 mm

Air distribution branch Ø = 160 mm

WOOD STOVE VERSION TI

Dimension: ECH TI -> H=900 mm

Chimney Ø = 150 mm

For additional information and quotations for SUNWOOD, please contact us : export@poujoulat.fr



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