

SOLAR AEROVOLTAIC

R-VOLT PLUS

Comfort and energy with double-sided effect



Meeting real needs for the home

From the most energy-consuming housing to the most recent houses, all housing shares the same problems. On the one hand, **the cost of traditional energy sources** is set to **rise exponentially** over the coming years. On the other, **comfort and health in housing have been neglected** to the detriment of pure energy performance. Today, these two aspects are exactly the needs that we must meet. **For our own well-being**, but also that of our family.

A more economical house is just the first step towards **a more comfortable and healthier home**. The ideal of a home which, as well as providing **a cheap and clean energy bill**, would provide **well-being and comfort every day**. Of course, the Earth already has **a natural and obvious solution: the Sun**. We only needed to work out how best to use it, in our homes. Now we need look no further, with the new renewable energy reference solution.

So, let's take advantage of it and find out just what the Sun has to offer us.

Let's discover R-VOLT PLUS.



R-VOLT PLUS

THE REFERENCE FOR HOME COMFORT AND ENERGY-SAVING

Eligible for the feed-in-tariff
(and other possible financial subsidies)

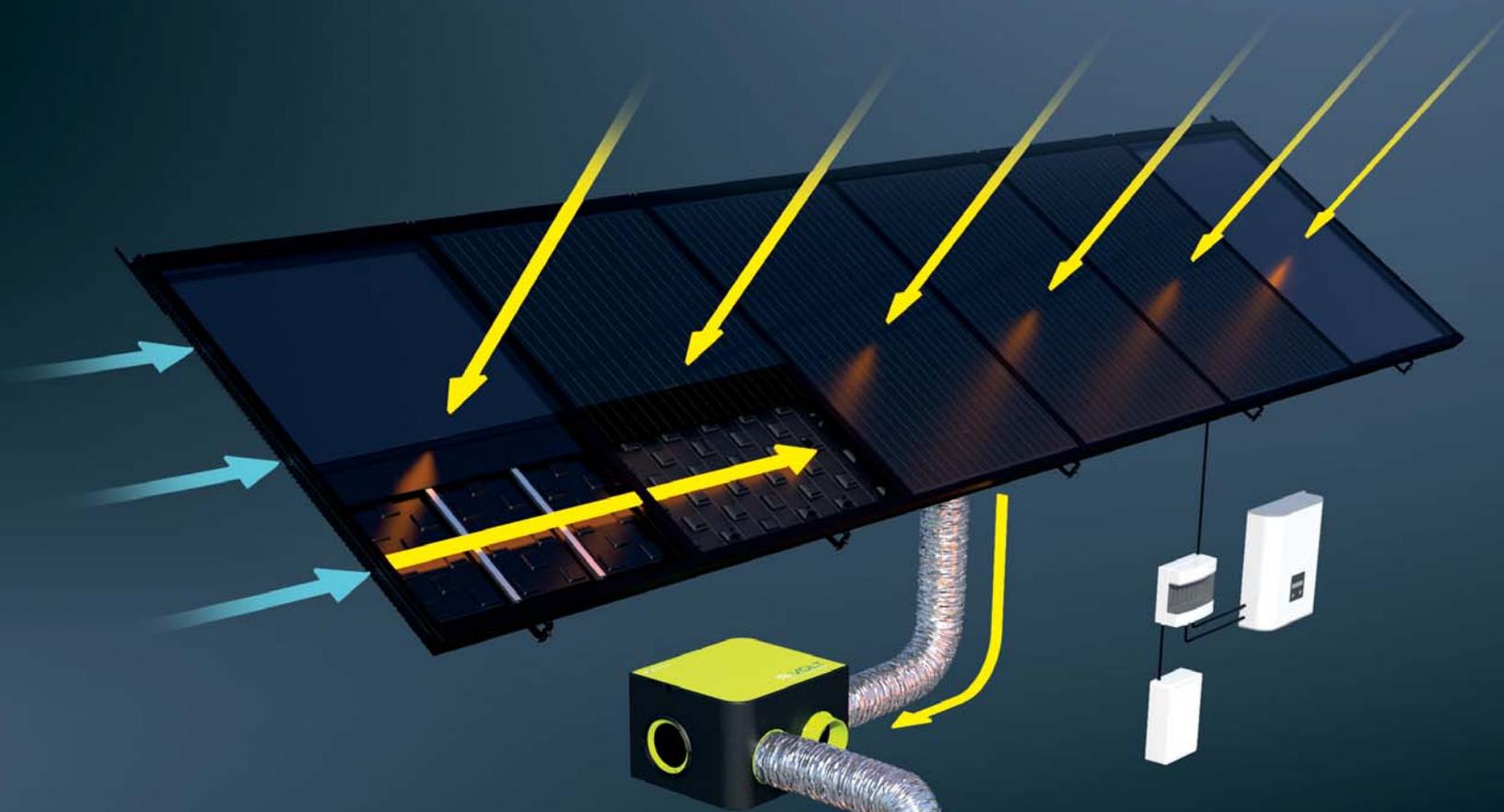
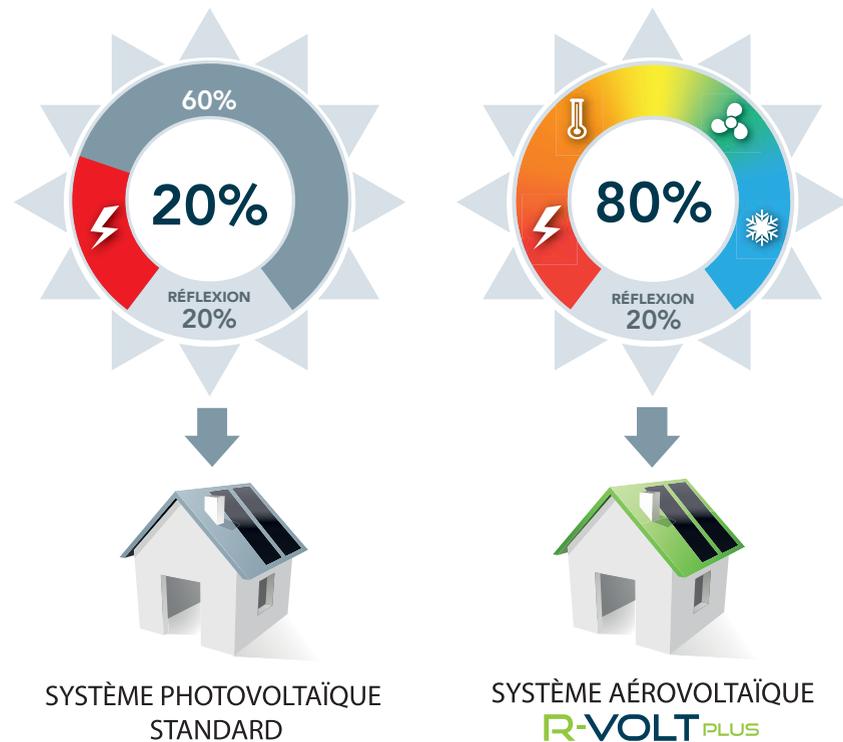


SOLAR AEROVOLTAIC

PATENTED SYSTEM

The magic of the double-sided effect!

When a photovoltaic panel produces electricity, it actually only uses 20% of the solar energy available to it. It abandons 60% of it, which is heat. But thanks to its innovative air recovery, the R-VOLT PLUS aerovoltaic system uses all the energy which is normally lost! This makes it **the most powerful solar panel in the world**, with **unrivalled output of 900 W** (250 Wc + 650 W)!

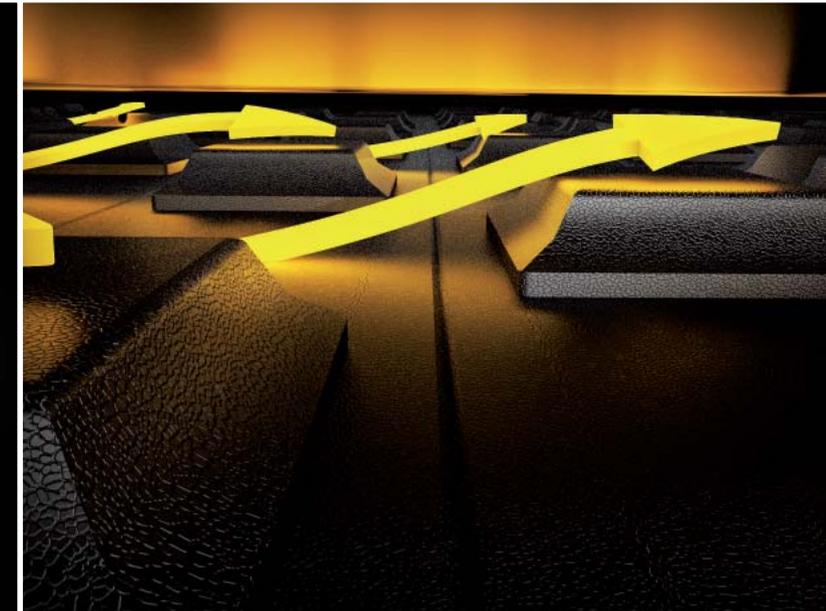
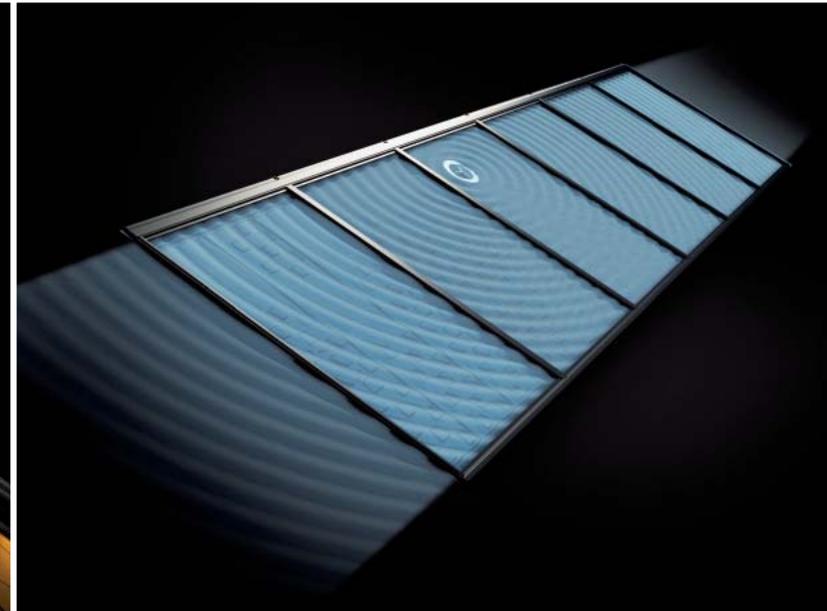
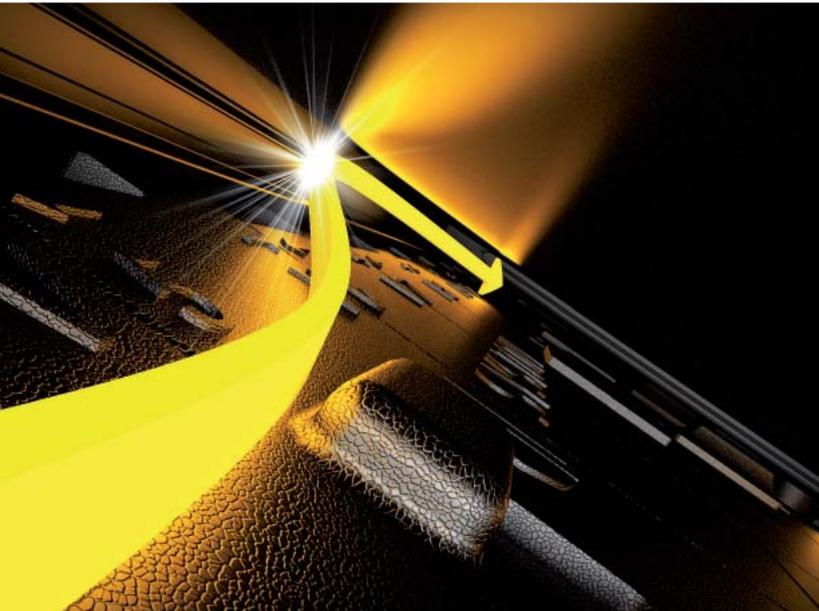


HOW DOES IT WORK?

At the front, the panels use the sun's rays to generate electricity. At the back, the air is captured by a collector and is heated by crossing the back of the panels. This hot air is then sucked in then filtered by the ventilation and energy management module (Modul-R) before being circulated around the home. This is a simple principle which no-one thought of before Systovi! But above all, it is a concept which provides significant energy savings and great heating comfort.

The authentic aerovoltaic formula

While the basic idea of aerovoltaic solar power is an extremely simple one, it is far more complex to implement! Systovi delivers you its formula which is full of innovations, and patented too!



COMPLETELY AIR TIGHT (Patented Systoétanche)

The R-VOLT PLUS panels are air tight. Once the air enters a collector, it is forced to heat up or cool down by travelling the whole panel line to suction. This maximises the quantity of hot or cold air obtained!

A SINGLE, MULTI-PANEL AIR BLADE

(Patented Single Air Blade)

For full temperature variation, the air must also travel the longest distance possible. This is why the air that an R-VOLT PLUS system collects is the same, from the entry grill to suction.

A TURBULENT FLOW (Patented Turbulent Flow)

The surface of the Systovi air collectors has lots of little pyramid shapes. These turbulators have one simple function: to disrupt the air flow to increase the temperature more quickly. Our laboratory tests have shown that this technology increases the thermal output by 30%.

OPTIMUM AIR SECTION

The thickness in which the air blade works is vital. If it were too high or too low, the air would have trouble rising in temperature or circulating. Having defined the optimum air section, R-VOLT PLUS easily adds an extra 20% production.

R-VOLT PLUS

USING THE SUN TO ITS FULL POTENTIAL!

R-VOLT PLUS is a true revolution in the renewable energies sector. Thanks to this innovative use of the sun and the air, your indoor living comfort is significantly improved. What's more, this system enables you to produce your own green energy and so reduce your energy bills. Join the aerovoltaic world and discover up to 5 functions in 1 single system!



Heat my home



Cool my summer nights



Clean my indoor air



Produce my electricity



Control my system



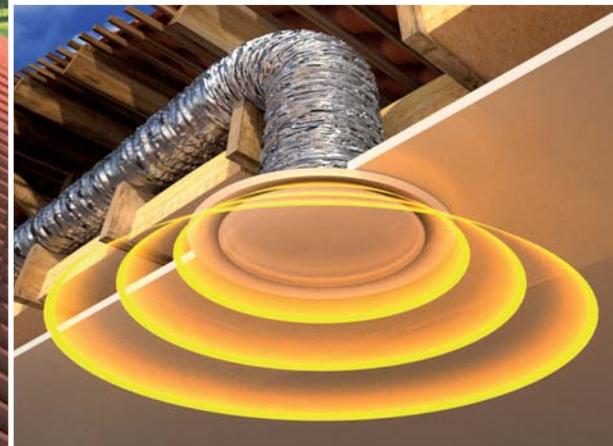


PRODUCE MY HEATING

Source of comfort & savings

A good indoor temperature is essential for a comfortable home, and this stands out on your energy bills: heating accounts for 2/3 of a home's energy spending. By using the heat that is normally lost, R-VOLT PLUS provides a solution for both these aspects. You get ideal heating comfort and reduce your heating expenses considerably at the same time!





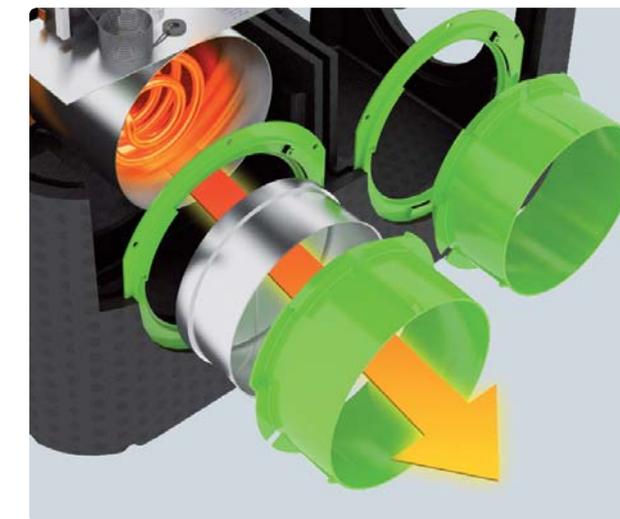
To generate heat, an R-VOLT PLUS system has an energy intake grill at the end of each row (or vent stack) of panels. **The indoor air enters and heats up quickly** by crossing the surface of the collectors. The heat is then sucked in then directed towards the **MODUL-R**. This central energy unit is the core of the system which **filters and centralises all the air flows**.

So, it adapts them to your needs, manages the air supply according to the heat available and works intelligently alongside your main heating system. In fact, **R-VOLT PLUS on its own is enough to heat your home for much of the day**.

What's more, you can still feel the heat supplied in the evening. So not only do you reduce the operating time of your central heating system, it will only be activated later on! Simply set the temperature you want on your thermostat, then feel the magic of R-VOLT PLUS at work.

R-VOLT PLUS even remains effective in winter and in cloudy weather. **Even if the outdoor temperatures are low**, the sun continues to provide its rays to the aerovoltaic panels, enabling them to generate heat. You'll save up to 50% on your bills!*

“Heat comfort and up to 50% in savings on my heating bill”



**ECOBOOST MODE:
+5 °C IN HEAT AVAILABLE**

The level of sunlight may be very limited, in particular from December to February. And yet R-VOLT PLUS is still able to supply 20 °C in heat even though the panels can't reach this temperature. A low consumption resistance provides a boost to the system's heat potential to enable this. Result: the comfort temperature is reached and the energy savings continue!

*: Non-contractual estimate. Energy-saving rate dependent on the building's permeability to air, the heating requirements and the use of the system.



The cold and damp indoor air is pushed outside thanks to the sun's hot air.



The cold outdoor air doesn't get in.

Fresh air to increase your comfort

By continually blowing hot air into your home, R-VOLT PLUS increases your indoor comfort. In fact, the heat provided by R-VOLT PLUS presents ideal qualities for your well-being!

- **Quick increase in temperature:** you'll start to feel the heat in just a few seconds thanks to MODUL-R high air supply flow (up to 400 m³/h).
- **Heat at the ideal humidity:** the air supplied comes from outdoors. It is heated but maintains an ideal humidity rate between 40 and 60%. This lets you reduce problems of humidity or air which is too dry, problems which many non air-based heating systems cannot resolve.
- **Even heat distribution:** most heating system generate one major discomfort: it's cold on the floor and hot on the ceiling. Thanks to air's inherent Coandă effect, the heat is mixed evenly throughout the room. Wherever you are, you'll feel a gentle and pleasant warmth.

UNDERSTANDING HEAT DISCOMFORT



Often, the lack of comfort indoors is not due to the lack of heating. On the contrary, the heat is there but you cannot feel it evenly. The bottom of your body is cold, the middle less so, you're hot around your chest and too hot around your head... This phenomenon is called thermal stratification.



But you won't have this problem with R-VOLT PLUS. The hot air supply mixes the heating in all areas of the room and prevents thermal strata from forming. So, your system provides you with completely even warmth, from the floor to the ceiling!

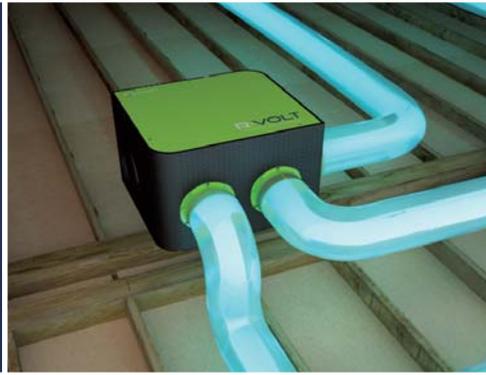


COOL MY SUMMER NIGHTS

Cool air for a peaceful night's sleep

Imagine a hot summer night: you're trying to sleep but it's 25°C in your home. You open the windows to try and find a little cool air. But this means your sleep is disrupted by outdoor noise and the little insects which enter your bedroom. Now, imagine that your aerovoltaic unit, which provides you with warmth in winter, also cools you down on hot summer nights. This is exactly the R-VOLT PLUS magic effect!





“- 4 °C in relation to the outdoor air, for ideal comfort at night, with the windows closed”

In the summer you can use the thermostat to set the system to night cooling mode. The R-VOLT PLUS panels then use another of their characteristics: the free-cooling effect. Thanks to this effect, the air collected which was warm in heating mode is now cool. For several hours, R-VOLT PLUS will quietly inject cool air into your home, on average 4 °C lower than the outdoor air. This will provide you with ideal comfort at night, with your windows closed.

THE FREE-COOLING EFFECT

At night, the air recovered under the panels is cooler than the outdoor air. This phenomenon is due to the presence of silicon on the glass and cells which make up the panels. Silicon is the base component of a material we know well: sand. In fact, have you never found that sand on the beach is red-hot during the day, while the same sand seems very cold at night? This is exactly the thermal contrast which R-VOLT PLUS uses to produce cool air at night.



CLEAN MY INDOOR AIR

A new world of well-being

Poor air quality has a detrimental effect both on your health and your home: allergies, humidity, asthma, internal pollutants and more. These attacks, of which we are often unaware, are the origin of illnesses such as asthma or bad smells. By constantly purifying and renewing the air, R-VOLT PLUS prevents problems at source and contributes to your well-being!

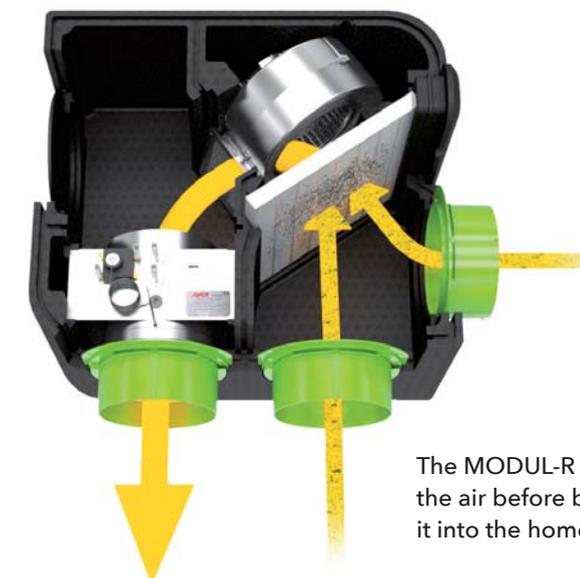




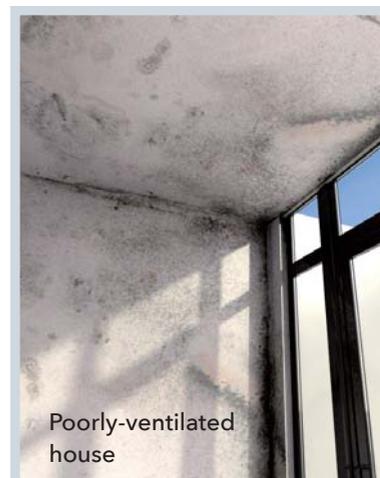
To preserve the health of the home and the people who live in it, an R-VOLT PLUS system doesn't try to extract bad air slowly like an HVAC system does. On the contrary, it will renew the indoor air by **blowing in fresh air at a quick rate** directly into the home. This is what we call solar ventilation by aeration. This method's air flow may be 4 times higher than the flow from a traditional HVAC system. What's better, it even increases its effectiveness! This power enables the air in a 100 m² house to be renewed in under 30 minutes! This high performance ventilation is perfectly **quiet and discreet**.

AIR PURIFIED UP TO 95%

On average, **the air inside** our homes is **5 times more polluted than the outdoor air**. To combat this worrying situation, the MODUL-R is equipped with an F5 filter. The air which is blown in is stripped of its pollutants and allergens and inside your home is purified. What's more, providing a high quantity of air inside your home will raise its pressure slightly. Result? **Indoor pollution is expelled outdoors** through the natural openings in your home and guarantees you even purer and healthier indoor air.



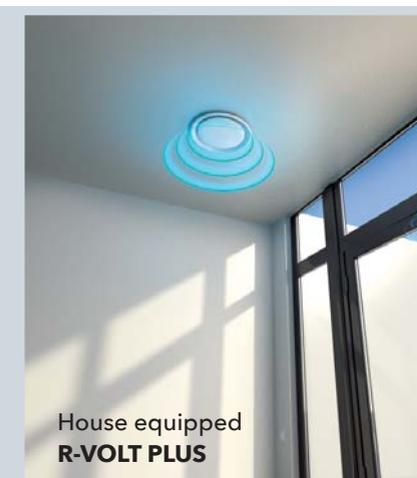
The MODUL-R filters the air before blowing it into the home.



Poorly-ventilated house

PRESERVE YOUR HOME: STOP POLLUTANTS!

There are certain signs which show that a home is in poor health: dampness which forms condensation, mould, allergy symptoms which are felt more strongly indoors than outdoors, to name just a few. Others are harder to see but are just as harmful: carbon dioxide, VOC, bio-contaminants, radon and so on. These pollutants are present in the air in all homes and threaten our health if they are not removed. So, R-VOLT PLUS provides an effective response to these problems and contributes to your well-being!



House equipped R-VOLT PLUS

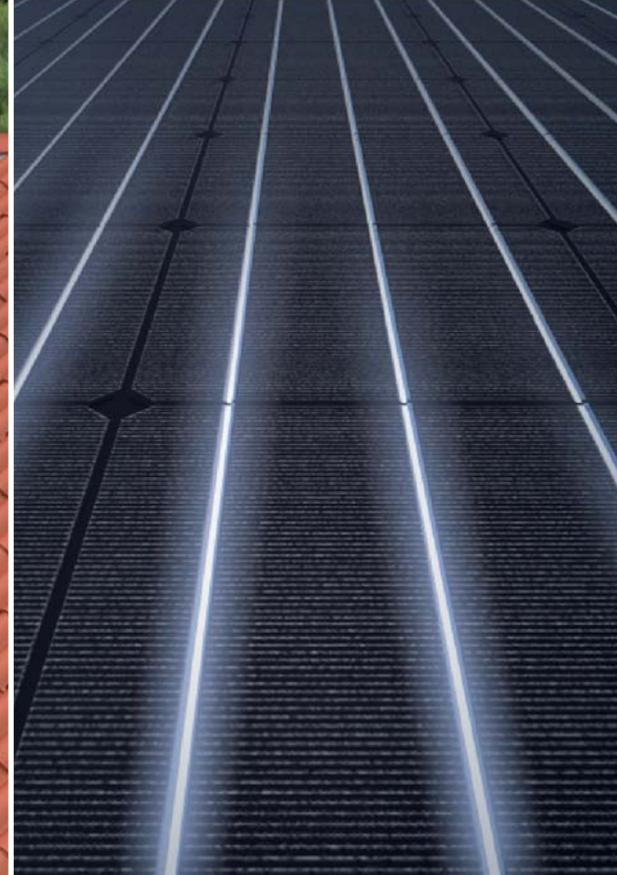


PRODUCE MY ELECTRICITY

The most useful energy
direct from my roof!

We consume electricity at all times. When we're cooking, when the dish washer is on, when we're watching television or just when the lights are on. By making active use of your roof, you're not just giving this unused surface a purpose. You can easily produce the energy your home needs, and in the end make lasting savings on your electricity bills!





When all energy sources are examined, photovoltaic energy is **the most successful source** worldwide, and there's no surprise about it. In 1 hour, the Sun sends more energy to the Earth than we need to consume in 1 year! This is why it is clear that tomorrow the whole world will run on solar power. So, why don't you start today?

Thanks to the photovoltaic cells on the front of the panels, an R-VOLT PLUS system converts sunlight into electricity. What's more, you get **high surface output (17%)** thanks to the highest quality components. This is the optimum way to produce your own electricity! And it's just as simple to use.

“By consuming the energy I produce myself, I cover an average of 40% of my annual requirements!”

HOW DO I USE THE ELECTRICITY I PRODUCE?

You have 3 possible choices:

- ❶ **Consuming your own energy:** you try to consume as much as possible of your own electricity production for your appliances. The energy you don't consume is discharged free of charge into the network. On average, this lets you cover 40% of your annual requirements!
- ❷ **Partial resale:** you consume the energy you produce for your own appliances as priority and sell your surplus to the network.
- ❸ **Total resale:** you sell 100% of the electricity produced to the network.



SMART-R

ENERGY REGULATION AND MONITORING SYSTEM

CONTROL MY SYSTEM

This innovative service lets you manage your SYSTOVI solar solutions and much more:



CONTROL
Manage your energy by remote, connected with our smart weather service



STATUS
View your energy production and consumption in real time (electricity, heating, DHW, cooling)



HISTORY
Learn to optimise your energy independence while consulting your income



NOTIFICATIONS
Manage accurately the operations and information related to your system



MEASURE

MANAGE

ANALYSE



Download the app now and see the performances of our show-home!

Service available as an option. Full connection pack including unlimited time subscription.

TAKE CONTROL OF YOUR ENERGY EQUIPMENT



AND MAKE EVEN MORE SAVINGS!



PRODUCE MY HOT WATER

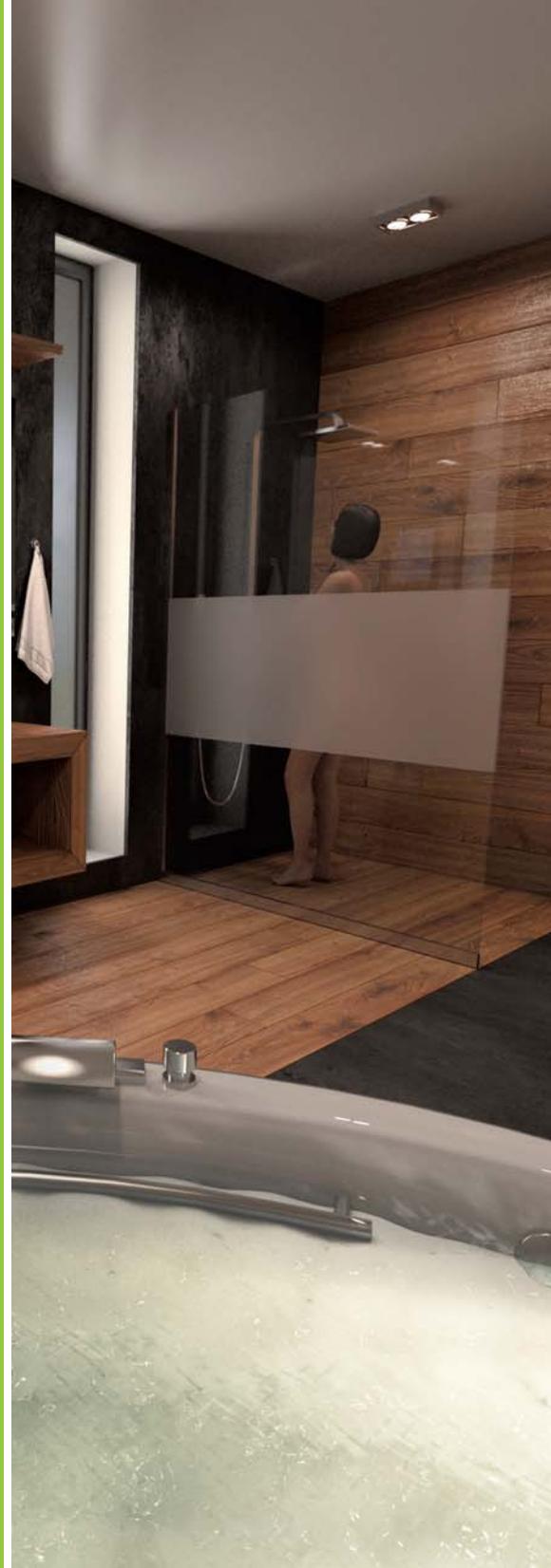
With the **R-VOLT ODYSSEE** option

By using pre-heated air from R-VOLT aerovoltaic panels, the ODYSSEE 2 R-VOLT solar air powered thermodynamic boiler provides 50% higher thermal output than a traditional thermodynamic tank.

The highest COP on the market!

What's more, in total or partial self-consumption mode, the electricity produced by the panels compensates for almost all of the tank's residual consumption.

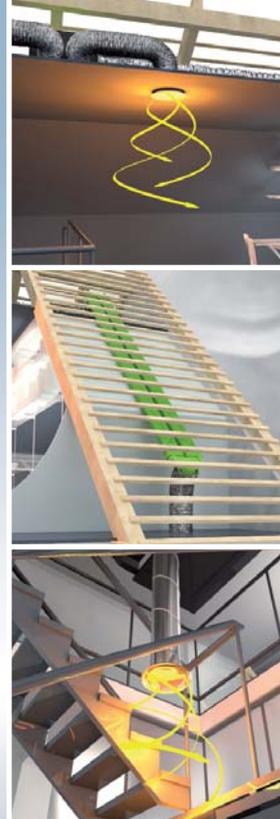
Objective: 100% free hot water all year round!



Flexible duct

Rigid and flat duct

Designed Galva duct



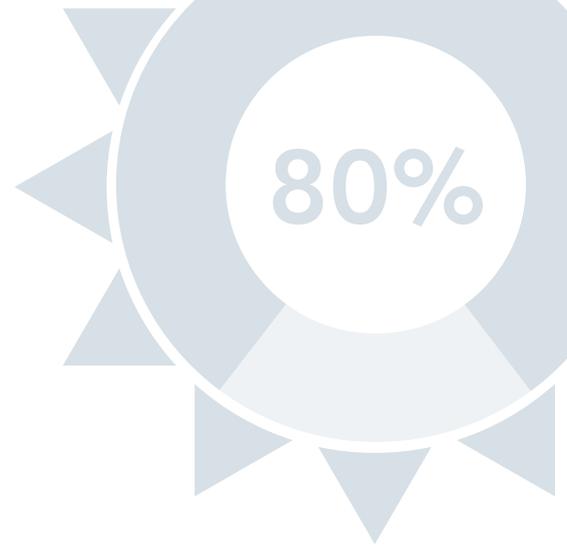
INTEGRATION COMPATIBLE WITH 100 % OF HOUSES

FOR WHICH TYPES OF HOME?

- Renovation or new
- All types of heating (electricity, gas, fuel, wood, fuel cell)
- Bungalow or with storeys
- Unused or converted roof spaces
- All slopes (flat roofs available soon)
- With or without existing ventilation system

WHICH INSTALLATIONS ARE POSSIBLE?

Even in unused roof spaces, R-VOLT PLUS can be installed easily in all houses, whether new or in renovation projects. From panels to air supply units, via the MODUL-R, their flexibility will enable you to adapt our systems to all configurations. Thanks to our complete connection range, there will always be an extremely simple solution available.



R-VOLT PLUS

The new solar power reference

MAXIMUM COMFORT FOR YOUR HOME

Each R-VOLT PLUS function has been designed to ensure that your daily experience is completely unlike anything you've known before. Take advantage of high heating comfort, breathe in pure air and feel unrivalled well-being in your home!



THE CHEAPEST ENERGY

In addition to the comfort functions it provides, R-VOLT PLUS reduces your energy bills considerably. Your system produces the clean energy which is the most useful for your home and at the lowest cost!



ISO 9001 & 14 001



Responsabilité civile
Garantie 10 ans



Lauréat du Trophée 2012
Catégorie Environnement



Lauréat du Grand Prix de
l'innovation 2013
Catégorie Efficacité énergétique



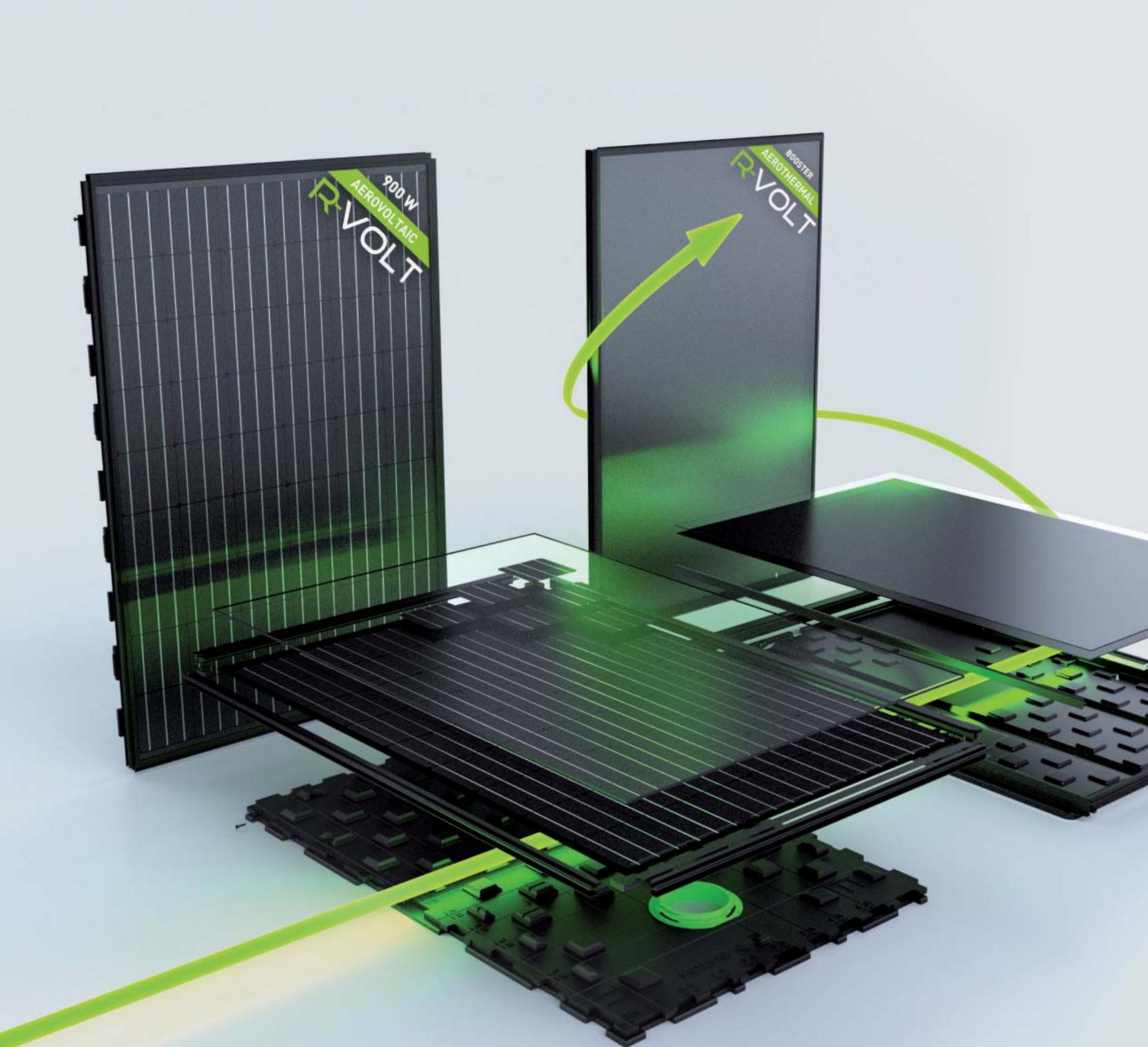
Recyclage de tous modules
en fin de vie

THE QUALITIES OF A FRENCH INDUSTRIAL COMPANY

An innovative creator and a French industrial company with an excellent reputation, Systovi is the leader in solar solutions dedicated to the home. Our systems reduce energy bills and improve the quality of life inside homes. The company invented the aerovoltaic technology, and is especially selective as regards its components and quality process. The company and its products are certified and approved by reference bodies in the solar power sector.

Systovi's solutions are designed and manufactured in France (Saint-Herblain) and distributed across Europe.





THE SENSORS

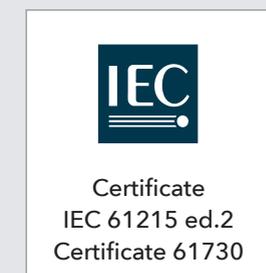


MECHANICAL SPECIFICATIONS	
Dimensions (H x L x D)	1,518 x 1,011 x 43 mm
Sensor weight	17.5 kg (16 kg/m ²)
Solar cells	Si 6.2" single crystal cells (156 x 156 mm)
Number of cells	54
Origin of the panels (encapsulation)	France (Saint-Herblain - 44)
Glass	3.2 mm anti-reflective
Rear side	Black composite film
Frame	Anodised black aluminium
Maximum load	Tested up to 5400 Pa according to IEC 61215
Resistance to hail	Up to a diameter of 25 mm with an impact speed of 23 m/s

AEROTHERMAL SPECIFICATIONS	
P_{MAX} (W)	750 W
Selective solar absorber	Selective aluminium (98% energy absorption, 5% emission)

AEROVOLTAIC SPECIFICATIONS	
P_{MAX} (W)	900 W
Inc. thermal:	650 W
Inc. electrical:	250 WC
Power tolerance	-2/+2 %
Efficiency	16.9 %
Max system voltage V _{max} (U)	1000 V
Max system current I _{max} (A)	17 A
V _{mpp} (V)	28.84
I _{mpp} (A)	8.502
V _{oc} (V)	34.40
I _{sc} (A)	8.811
Reverse current protection I _{rm} (A)	15
Normal operating temperature (NOCT)	47 °C
Operating temperature (OC)	-40 °C to 85 °C
Temperature coefficient (V _{oc})	-0.346 %/K
Temperature coefficient (I _{sc})	0.036 %/K
Temperature coefficient (P _{max})	-0.47 %/K

POWER (W) PER PANEL - RADIATION: 1,000 W/m ²				
Approved values SOLAR KEYMARK according to EN ISO 9806:2013 Licence 078/000227		Air flow / vent stack (m ³ /h)		
		75 m ³ /h	100 m ³ /h	150 m ³ /h
Wind speed < 1 m/s	AEROVOLTAIC	474 W	539 W	611 W
	AEROTHERMAL	652W	739 W	818 W



INTEGRATION SYSTEMS

Whatever your appearance or implementation requirements, R-VOLT PLUS can adapt to all your constraints. Two integration modes are available, each with their own specific features and designed with high quality materials.

ULTRA-INTEGRATED DESIGN

The solar field guarantees that the frame is sealed. The panels are joined edge to edge for a perfectly even appearance.



SYSTOétanche® technology: Patented mono-bloc rail and double-sealing frame. Proven durability and reliability in all conditions.

Orientation	Portrait
Roof coverage	All types
Roof pitch	15° to 60° (up to 6° if full coverage, depending on conditions)
Min. roof slope required (including flashing)	3.4 m (min. 2 panel rows)
Integration standard	IAB all roofs, including slate (< 2 cm)



CSTB Technical Note (No. 21/12-31).



MCS Certificate 10/12



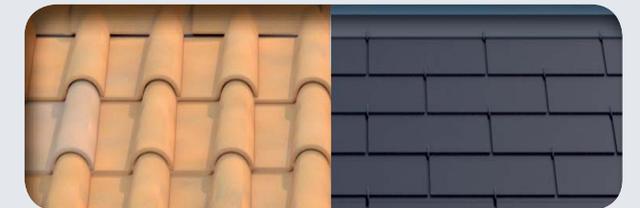
ON-ROOF DESIGN

The system is installed here on top of the roof. Simpler to implement, this mode offers a high degree of flexibility for positioning your panels!

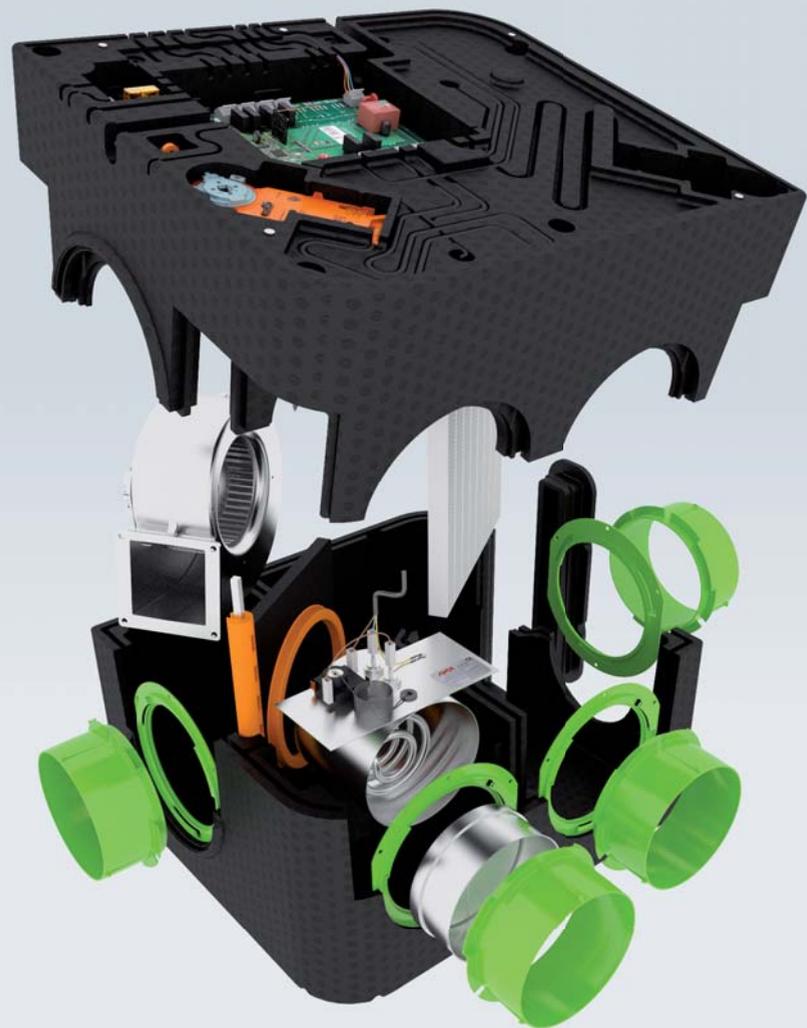
Orientation	Portrait/Landscape
Roof coverage	All types
Roof pitch	0° (flat roof) to 90° (in gable end)
Min. roof slope required	1 m (landscape installation) - 1.5 m (portrait installation)



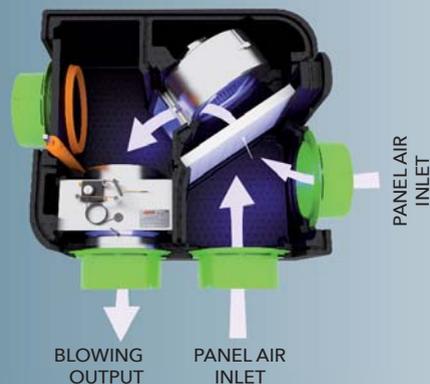
L-FRAME: Single L-shaped panel design. Installation in portrait or landscape).



Adaptable to all types of roof.



BLOWING MODE



EVACUATION MODE



THE MODUL-R



AIRFLOW SPECIFICATIONS

Modul-R design	Dimensions H x L x D (mm)	380 x 550 x 500
	Weight	10 kg
	Casing	EPP - expanded polypropylene
	Inner lining	EPP - expanded polypropylene
	Motors	Servomotor 2 Nm/230 VAC
	Fan	Low consumption, flow varying from 100 m ³ /h to 400 m ³ /h
	Filter	F5 located on air input between MODUL-R and the air supply vent
Regulation	Ecoboost	250 W - activation in heating mode if min temperature under panel >15 °C Stop when temperature under panel > 23 °C - Max rate Ecoboost active: 150 m ³ /h
	Thermostat	Digital radio
Operating temperature ranges	Operating modes	Heating, cooling, low speed ventilation, frost protection
	Location of the unit	-7 °C/ 60 °C
Air supply unit	Heating mode	65 °C
	Ceiling	400 m ³ /h: round vent diam. 330 mm - 200 m ³ /h: round cap
Electrical systems	Wall	Rectangular plenum 400 m ³ /h or 200 m ³ /h
	Power supply	230 VAC
	Electrical protection	Class II

ACOUSTIC SPECIFICATIONS

Open space - Measured at 1 m from the MODUL-R air supply vent

Air flow rate [m ³ /h]	100	200	300	400
Noise level (dB(A))	10	27	37	44

WHICH CONFIGURATION? WHICH PERFORMANCES?

There is a wide range of variables which have an influence on the performances of an R-VOLT PLUS system: the geographical area, the year the home was built, the orientation of the roof, the nature of the main heating and so on.

But regardless of your request, there will always be an economically-suitable and high energy performing R-VOLT PLUS configuration for you. In the following pages you can see what the ideal R-VOLT PLUS photovoltaic unit for you, might look like! Download the Systovi mobile app now to see just what R-VOLT PLUS can save you!



SIMULATE SYSTOVI SOLUTIONS IN YOUR HOME!

Free app. Search for 'Systovi' on:



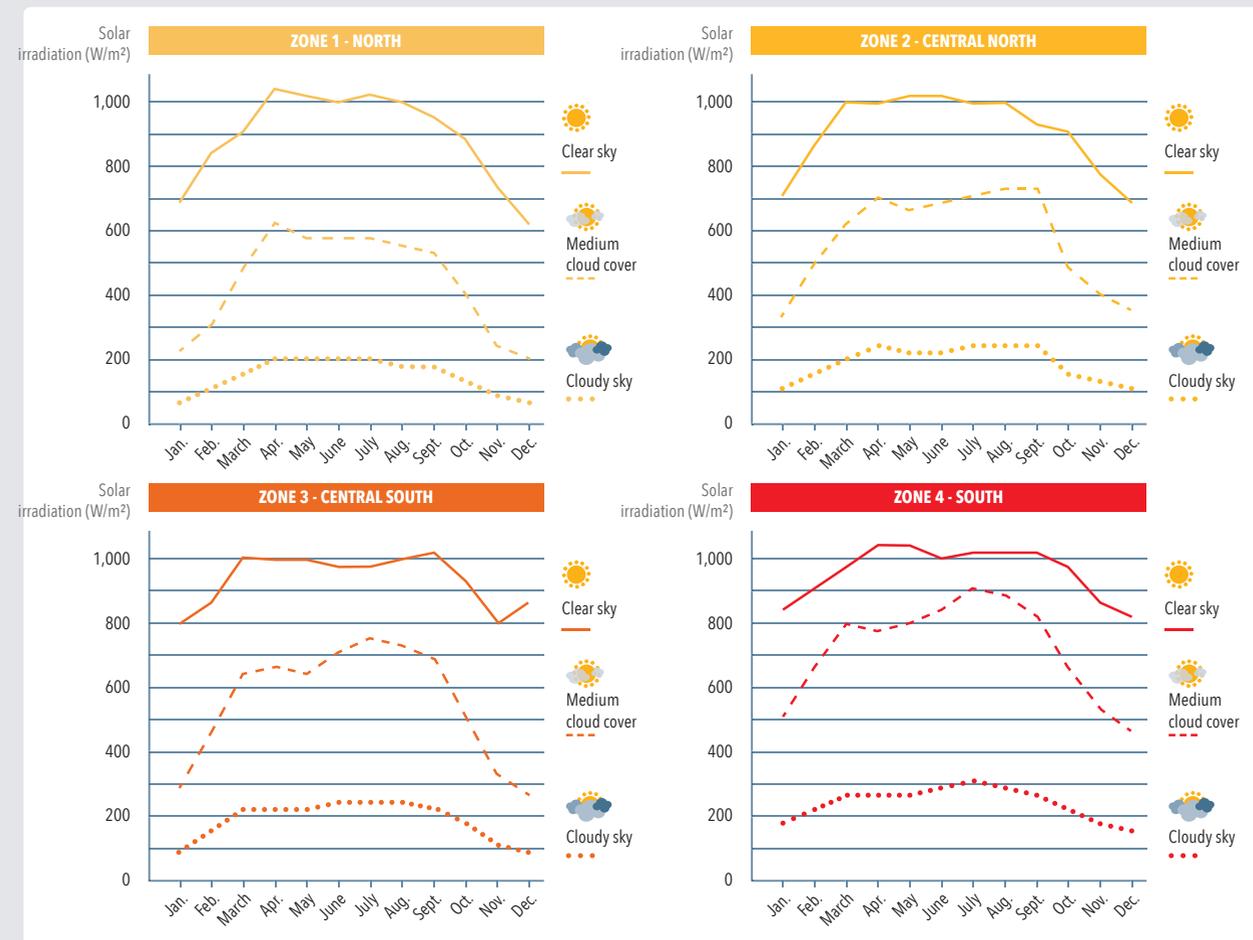
DETERMINE YOUR CLIMATE ZONE

The sun's radiation value enables the energy potential of a geographic area to be evaluated. This varies according to the area's location and is also affected by the cloud cover. The curves below present the average monthly values for Europe's 4 climate zones.

- ZONE 1 - NORTH** : Lille, London, Rotterdam, Brussel...
- ZONE 2 - CENTRAL NORTH** : Paris, Strasbourg, Zurich, Munich...
- ZONE 3 - CENTRAL SOUTH** : Lyon, Geneva, Milan, Venice...
- ZONE 4 - SOUTH** : Bilbao, Barcelona, Marseille, Florence...

Source: PVGIS - Measurements taken at noon.

AVERAGE MONTHLY SOLAR RADIATION (w/m²) AND IMPACT OF CLOUD COVER



DETERMINE YOUR CONFIGURATION

Here we suggest a few simple rules to you for configuring an R-VOLT PLUS kit according to your home and its climate zone. Of course, this is no substitute for the opinion of a specialist who studies your home precisely. To talk to one of our approved installers, "contact us" at www.systovi.com. We will be delighted to help you with your aerovoltaic project.

CONFIGURATION ACCORDING TO YOUR HOME

1 PANEL (1.5 m²)
=
10 m² liveable space (heating)

AIR SUPPLY UNITS (max flow: 400 m³/h)

LIVEABLE SURFACE	NUMBER OF UNITS
≤ 100 m ²	1 unit
101 to 149 m ²	2 units (2x200 m ³ /h)
≥ 150 m ²	3 units (2x200 m ³ /h)

Location: in the living rooms with the highest volume (e.g.: living room). For two-storey houses: stairwell.

1 MODUL-R
every 18 panels

RECOMMENDED SELF-CONSUMPTION CONFIGURATIONS ACCORDING TO THE CLIMATE ZONE

LIVEABLE SURFACE	ZONE 1 NORTH	ZONE 2 CENTRAL NORTH	ZONE 3 CENTRAL SOUTH	ZONE 4 SOUTH
Up to 100 m ² (3 residents)	6 aerovoltaic panels + 4 aérothermal boosters	6 aerovoltaic panels + 2 aérothermal boosters	6 aerovoltaic panels	
100 to 150 m ² (4 residents)	8 aerovoltaic panels + 4 aérothermal boosters	8 aerovoltaic panels + 2 aérothermal boosters	8 aerovoltaic panels	
Over 150 m ² (5 residents)	10 aerovoltaic panels + 4 aérothermal boosters	10 aerovoltaic panels + 2 aérothermal boosters	10 aerovoltaic panels	

ANALYSE YOUR THERMAL PERFORMANCES

To help you go further in your R-VOLT PLUS study, this page contains performance test results for heating and night-time cooling.

THERMAL PERFORMANCES ACCORDING TO SOLAR RADIATION

Air supply temperature (°C) according to the maximum heating power (W) - Configuration: 8 aerovoltaic panels + 4 aérothermal panels on top of the roof (2 rows x 6 vent stacks in portrait), orientation 180° south, slope 30°, wind 1.5 m/s. Example: when it is 5 °C, at 500 W/m² solar radiation, the temperature under the panels reaches 34 °C.

OUTDOOR TEMPERATURE	-5 °C		0 °C (-13°F)		5 °C		10 °C		15 °C	
SOLAR RADIATION	MAX. TEMP (°C)	MAX. POWER (W)								
200 W/m²	-	-	20.9	1034	25.9	1034	21.6	1533	26.6	1533
300 W/m²	23.8	1426	22.5	1483	22.4	2300	27.4	2300	32.4	2300
400 W/m²	21.6	2631	23.2	3066	28.2	3066	33.2	3066	38.2	3066
500 W/m²	24	3833	29	3833	34	3833	39	3833	44	3833
600 W/m²	29.8	4599	34.8	4599	39.8	4599	44.8	4599	49.8	4599
700 W/m²	35.7	5366	40.7	5366	45.7	5366	50.7	5366	55.7	5366
800 W/m²	41.5	6133	46.5	6133	51.5	6133	56.5	6133	61.5	6133
900 W/m²	47.3	6899	52.3	6899	57.3	6899	62.3	6899	67.3	6899
1,000 W/m²	53.1	7666	58.1	7666	63.1	7666	68.1	7666	-	-

EcoBoost activated: value including +5 °C added in relation to the temperature under the panels, up to 150 m³/h, (inactive between 150 and 400 m³/h).

EFFECTIVE IN WINTER AND IN CLOUDY WEATHER

While a fine, sunny day is still the ideal configuration, the presence of clouds will not prevent your system from operating effectively. For example, in cloudy weather and with an outdoor temperature of 5 °C in December, R-VOLT PLUS may supply air at over 22 °C! This means you can reduce your energy bills even in bad weather.

						
Outdoor temperatures	CLEAR & SUNNY WEATHER	MISTY	CLOUDY	VERY CLOUDY	COVERED	VERY COVERED
December: 5 °C	63.1 °C	51.5 °C	39.8 °C	28.2 °C	25.9 °C	12.9 °C
January: 0 °C	58.1 °C	46.5 °C	34.8 °C	23.2 °C	20.9 °C	7.9 °C

WARM IN WINTER, COOL IN SUMMER

Example: at 1am, on a typical July night with a clear sky, R-VOLT PLUS supplies cool air 3 °C lower than the outdoor air.

TIME	EXT. T°	INT. T°	PAN T°	COOLING*
12:00	35 °C	29 °C	60 °C	0 W
21:00	25 °C	27 °C	40 °C (-13°F)	0 W
23:00	20 °C	25 °C	22 °C	396 W
01:00	18 °C	24 °C	15 °C	1188 W
and the cooling continues...				
08:00	20 °C	21 °C	18 °C	396 W

* Cooling power for 1 modul-r (400 m³/h)

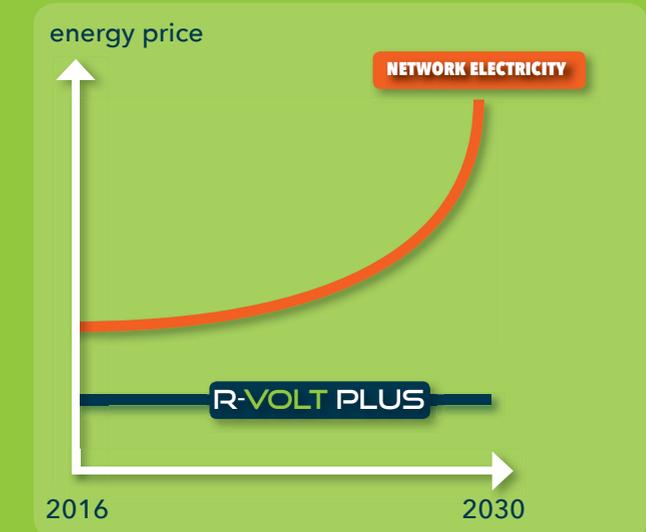
COOLING EFFECTIVENESS COEFFICIENT - COLD (EER)	
Night outdoor temperature (°C)	18°C
Panel output temperature (°C) - peak	15°C
Night indoor temperature (°C)	26°C
Air supply rate (m3/h)	200 m³/h 400 m³/h
System consumption (W)	27 W 122 W
Supplied cooling power (W)	660 W 1300 W
EER	24 11



R-VOLT PLUS

The cheapest and cleanest, energy, with no inflation, from now!

Development in energy costs over 20 years (c€/kWh)



ELIGIBLE FOR THE FEED-IN-TARIFF
(and other possible financial subsidies)

OVERALL PERFORMANCE GUARANTEED

Your R-VOLT PLUS solution is guaranteed, from the panels' electrical performance to the system's thermal performance! Switch to aerovoltaic solar power with SYSTOVI and make a reliable and long-term investment.

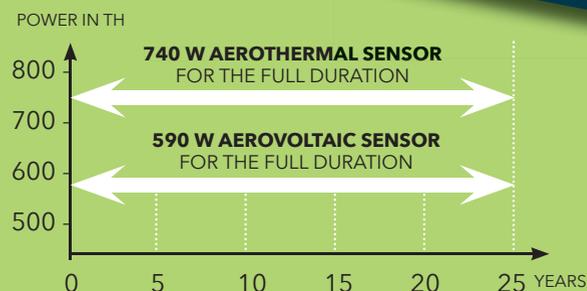
THERMAL GUARANTEE

EXCLUSIVE

90 % at 25 YEARS

1st thermal output guarantee in the solar power sector.
100 % linear over 25 years.

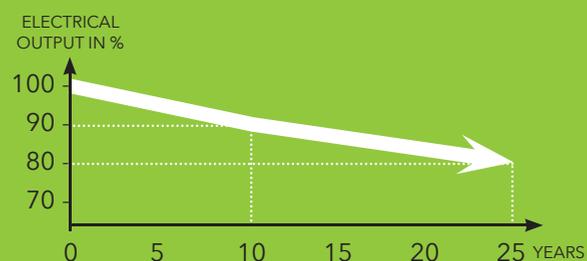
Guarantee related to the acquisition of a performance measurement mechanism (SMART-R - Conditions: 1000 W solar radiation, 100 m²/h air flow and wind of 1 m/s).



ELECTRICAL GUARANTEE

90 % at 10 years

80 % at 25 years



They have certified the performances of **R-VOLT PLUS**



Civil liability
10-year guarantee



CSTB Technical Note
(No. 21/12-31)



MCS Certificate 10/12



Solar Keymark
EN ISO 9806:2013
Licence 078/000227



ISO 9001 & 14 001



Energy independence for live

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