

- Solar heat -

Introduction

Home Energy; decentralised power generation is now available!

Home Energy has launched a modular and expandable system of sustainable power generation for private households and small businesses. These are affordable, innovative products to generate sustainable electricity and heat, making the user self-supporting (to some extent).

We offer a large range of high-quality renewable energy products, specifically aimed at your situation and needs, including:

- Central Heating units running on biomass (wood pellets; pellets); savings around 38%;
- Solar collectors especially designed for optimising the generation of heat, even in areas with a low number of sunshine hours (like in our region); efficiency on average 70-80% both in summer and in winter;
- PV Panels: power generators using solar energy;
- Energy Ball V100, a small windmill with an artistic look for private households, very quiet and generates 15% of the annual electricity need for the average household.

Solar heat

Savings at times when fuel prices skyrocket!

Home heating through solar power is no longer a distant fantasy for our region. Home Energy provides specifically developed vacuum solar collectors for that purpose. This is a very efficient method of generating solar heat for domestic use.

The average family will be able to generate around 70% of their overall average hot water need, using a solar collector measuring only four square metres. During summer it will even provide the total (100%) of their average hot water need. In winter or during cold spells, the system gives an economical and efficient method of pre-heating hot water. Generating heat to boost the central heating system is one of the other options that are available.

CO² reduction

A sensible choice!

The Home Energy collectors not only reduce your power bill but also the CO² emission. These collectors will save some 34 ton of CO² a year for the average household. Thanks to the extremely long life and the high operational safety of our systems, you will also help to use fewer base materials.

Benefits at a glance

- Very high efficiency (also in our region)
- CO² reduction
- Very high quality boron-silica glass
- Long life
- Maintaining vacuum with patented system
- Very simple installation
- Can be used in any existing situation



Specifications

Vacuum tube collector

Type		DF	HP - 16	HP - 12	HP - 8
Number of tubes		6	16	12	8
Collector surface area	m ²	1,6	4,20	3,10	2,10
Absorber surface area	m ²	1,10	3,00	2,25	1,50
Length x Width x Height	mm	2160 x 720 x 120	2140 x 1930 x 140	2140 x 1450 x 140	2140 x 970 x 140
Weight	kg	35	90	67	45
Fluid circulation of each collector	l/h	45-75	min. /opt. /max. 150 / 250 / 350	min. /opt. /max. 120 / 190 / 270	min. /opt. /max. 75 / 125 / 175
Loss of pressure at	mbar	< 30	5	5	5
Fluid content	l	0,98	2,30	1,80	1,15
Frost protection up to	°C	-35	-35	-35	-35
Base material glass		High-quality Boron Silica			
Vacuum tube diameter	mm	100	100	100	100
Wall thickness	mm	2,5	2,5	2,5	2,5
Lengthy high vacuum	bar	10 ⁻⁸	10 ⁻⁸	10 ⁻⁸	10 ⁻⁸
Absorber base material		Copper			
Intermediate layer		Sunselect			
Absorption coefficient	%	95% + -2%	95% + -2%	95% + -2%	95% + -2%
Emission coefficient	%	5% + -2%	5% + -2%	5% + -2%	5% + -2%
Placement angle	°	0° - 90°	20° - 70°	20° - 70°	20° - 70°
Fill overpressure	bar	4			
Max. working pressure	bar	10	6	6	6
Max. standstill temp. Collector	°C	190	180	180	180
Max. standstill temp. vacuum tube	°C	247			
Warranty		5 years			

Home Energy has launched two models of vacuum collectors for private and project applications. The HP model is ideal for installation under an angle of 20°-70°. The main benefit of the system is the easy installation. The HP system only requires the collector to be attached to a frame; the loose vacuum tubes are attached afterwards.

The DF model is most suitable for flat roof situations, e.g. for project development. It has been developed specifically for this purpose and can be installed under any angle. The DF model can be installed horizontally onto a flat roof while maintaining its high efficiency, or even vertically against an outside wall or a balcony. These properties also allow this model to become part of an aesthetic structure in almost any situation.

Further technical details of the models on hand are available in separate product data sheets. All Home Energy products are coordinated and easy to combine.





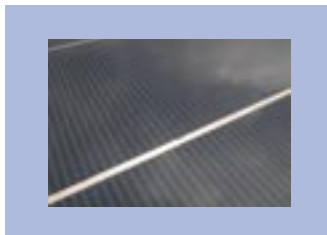
Windenergie



Biomassa



Zonne warmte



Zonne elektriciteit



HomeEnergy Indicator

Home Energy

Via its dealer network, Home Energy is able to give every conceivable advice and information to the consumer in terms of new technologies on renewable energy. Qualified and reliable service engineers from your region are called in for installation of our products.

Go to our web site for more information on our suppliers and installers. Home Energy supports local councils and authorities, not only in their efforts to apply renewable energy themselves, but also to promote and introduce the concept to their residents.

Saving energy and decentralised sustainable power generation will become significantly more important in the future. The conclusion of a recent Belgian study commissioned by ANRE (2005/EET-IMS/R) also clearly supports this point of view. It says that a considerable increase in the independent generation of sustainable energy is expected to keep energy consumption in the Netherlands and in Belgium affordable and environmentally friendly.

Government subsidies are available for a variety of our products. For further information on subsidies in the Netherlands, go to www.senternovem.nl; in Belgium, go to www.energysparen.be.

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