

SOLAR ENGINES AND THERMODYNAMIC SYSTEMS WITH VOLATILE GASES

**We raise water from wells, lakes, canals
and reservoirs with direct energy from the sun**

SOLAR PUMP NS1

water at zero environmental impact

It is a “gentle” approach with very low environmental impact throughout the product’s life cycle. During use the impact is equal to zero, because no fuel is burnt, no electricity is used and it does not emit any climate-changing gases. Only in the case of night use or cloudy skies, it burns “poor” fuel: that is agricultural waste or a little wood. During the construction phase, it is necessary to use lathes, machines for moulding the components and other conventional machines for precision mechanics, in the context of environmentally friendly companies. During the disposal phase, everything can be separated and recycled, without the typical problems of photovoltaic solar panels. The volatile gas is recovered together with the small amount of lubricating oil used and there are no other pollutants. It is also a product made entirely in Italy.



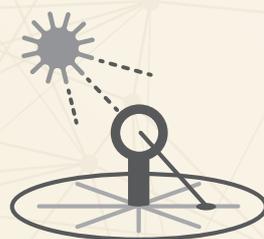
Connection

The solar pump may be comfortably transported to the water source, thanks to its wheels and push handles, and then the intake and flow hoses are connected.



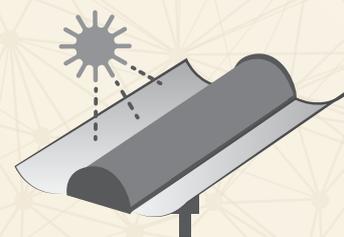
Positioning

A solar collimator is provided for proper positioning. No electric component is “on board”: there is no GPS!



Activation

Once the solar pump is “north – south” oriented, tilted perpendicular to the sun and raised off the ground on its appropriate supports, you can remove the top cover from the solar collector and let the solar pump start when it reaches its operating temperature.



Pumping

The NS1 solar pump works with the sun’s energy or, thanks to an accessory, with a little wood or agricultural waste. It turns itself on when there is enough sun and it turns itself off if there is no sun or no water.



What should I use it for?



FIELDS, GARDENS
AND GREENHOUSES



AQUACULTURE
AND AQUAPONICS



RESERVOIRS
AND CIVIL USE

NS1 SOLAR PUMP: STRENGTHS



1. It is practical, easy to move and place, ideal for watering gardens of all kinds, small fields, for filling reservoirs or containers for agricultural or civilian use.

2. No electricity or fuel! The Nova Somor thermodynamic solar pump runs with the energy of the sun and is ideal even in isolated places with no connection to power sources.

3. Thanks to a small accessory, with very little wood or agricultural waste, the solar thermodynamic Nova Somor pump works even if it is cloudy and even at night!

4. No electric component is “on board” the Nova Somor solar thermodynamic pump: a solar collimator is supplied for correct positioning, not a GPS!

5. Ideal for filling reservoirs or containers for drip irrigation, the thermodynamic Nova Somor solar pump is the right equipment for synergistic vegetable gardens, greenhouses and biodynamic cultivation.

6. No CO2 emissions, no electricity or fuel, no solar panels or other materials difficult to dispose of at the end of life, built to last many decades, the thermodynamic Nova Somor solar pump is unmatched in terms of low environmental impact.

7. Safe and reliable, the thermodynamic Nova Somor solar pump does not need to be manned: just uncover the panel and it will turn itself on when the sun is hot enough and turn itself off if there is no sun or no water, with no damage.

8. The cost is competitive, both when purchased, and whilst using it because it does not use any pay-energy sources and does not require any maintenance, apart from being stored indoors or under a tarp in the winter.



LIVESTOCK

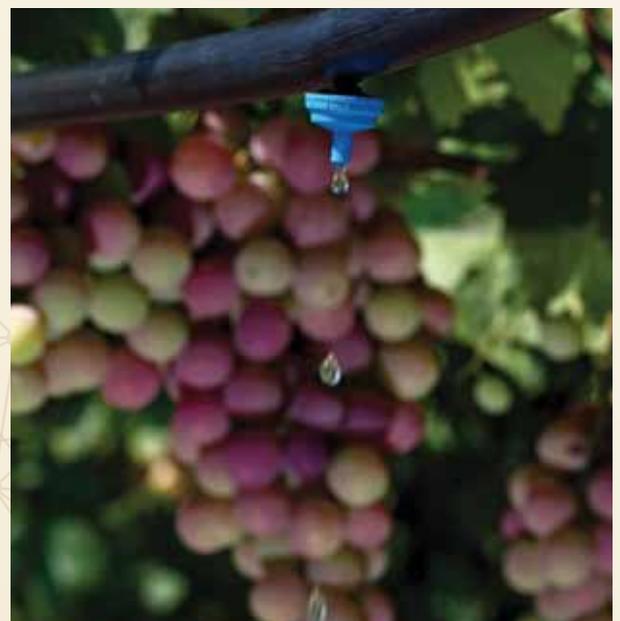
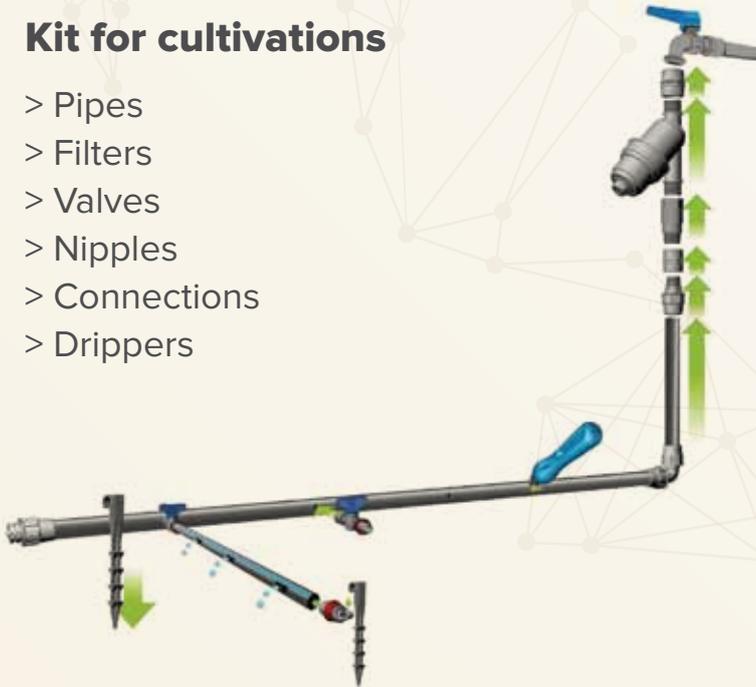
ACCESSORIES

Various irrigation kits and water filter systems provided by our partner Plast Project complete the range of products offered.



Kit for cultivations

- > Pipes
- > Filters
- > Valves
- > Nipples
- > Connections
- > Drippers



ABOUT US

NOVA SOMOR SRL WAS FOUNDED WITH THE INTENTION OF DESIGNING, CREATING, BUILDING AND MARKETING PRODUCTS CAPABLE OF FIGHTING THE UNACCEPTABLE ENERGY WASTE THAT HAS BEEN GOING ON FOR MANY DECADES

Thanks to a careful and innovative application of low-temperature thermodynamics, in many areas it is possible to replace electricity with sunlight, which is plentiful and free. In other situations, wasted and thus squandered heat may be used to increase the efficiency and ecology of existing systems, without forcing demanding changes. The area is that of bio-economy; that is an economy that for its actions takes into account any impact it generates on the ecosystem, the biosphere and people, and that especially focuses on the impact it has on future generations. The Somor of the 50s, of which we have picked up the history, carried its vision in its name: "Engines for recovering wasted and solar heat Company". This is our inspiration as is fully described in our Manifesto. To Somor's old slogan "cost effectiveness, practicality, utility and simplicity" we add "ecology and ethics".

NOVA Somor srl is a company and as such operates following the rules and laws that relate to its legal form and the type of organisation that it has implemented. However it is a new kind of company, one that no one has ever seen! It is a for-profit entity, but very close to social business.

WE ARE A GROUP OF PEOPLE WHO HAS DECIDED TO ESTABLISH A COMPANY THAT TOGETHER WITH PROFIT ALSO BRINGS CHANGE AND IMPROVEMENT, BOTH SO MUCH NEEDED DURING THESE DIFFICULT TIMES

This is an adventure which was born at the end of 2013 thanks to Giordano Mancini and Roberto Belardinelli, who share the awareness that direct action is required in order to improve things, without waiting for actions or decisions that come from above or from others.

So in July 2014, we began a start up with the innovative style and creative ability that only Italians have. We also had the good fortune of having roots on which to rely. We retied the threads of a history spanning more than 100 years of inventions in the field of low-temperature thermodynamics, which had been interrupted for 50 years by the sheer madness and illusions of consumerism.

Business Management

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Roberto Belardinelli - *Technical direction and Research / Adm. Officer / roberto@novasomor.it*

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