

# Sol-R-Therm

SOLAR THERMAL DOMESTIC HOT WATER HEATING



Capture the sun to  
save the planet,  
and your wallet.



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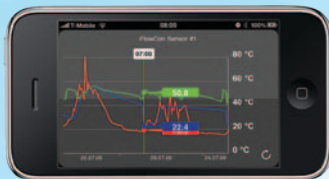
Never before has the need for affordable and sustainable energy been so urgent. High fuel prices do not mean you have to sacrifice your lifestyle, or comfort, but it does mean you have to consider an alternate method which contributes to a more environmentally friendly planet.

Solar Thermal systems have been used for thousands of years, and with today's innovations have become a viable option for even the coldest North American regions. The **NTI Sol-R-Therm** combines advanced renewable energy technology with state-of-the-art NTI heating products to offer optimum energy efficiency and carbon reduction without sacrificing comfort or convenience.

The **NTI Sol-R-Therm** utilizes the most efficient and advanced flat plate technology available on the market today. Our selection of stainlesssteel and stone lined solar tanks, and solar pumping station, allows for maximum system flexibility. Combined with the award winning Matrix or Trinity series of ultra efficient heating appliances, the **NTI Sol-R-Therm** system is the ultimate in efficiency and operation.

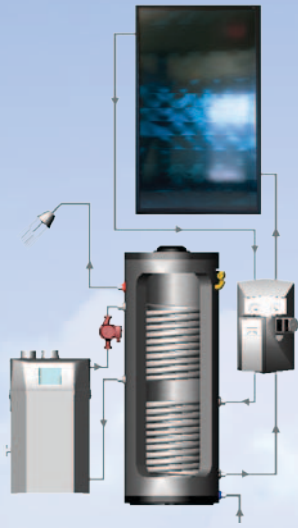
### VBus Touch Mobile System

monitoring worldwide is available as an option on the standard SRT-su115 package for all iPhone and iPod touch users. This feature allows users a new way to visualize the data of a solar thermal system.



[www.nythermal.com](http://www.nythermal.com)





**The Sol-R-Therm** is a domestic hot water system, which can supply almost all\* of your homes potable hot water needs, in addition to providing water heating for pools and spas during the summer months.

The NTI Sol-R-Therm System consists of SRT-215 flat plate collectors, Trin & Stor solar tank (with or without electric backup), and SRT-su2115 pumping station.

Depending on the package selected, an NTI Sol-R-Therm system will consist of two or three **flat plate collectors** which should be installed in a southerly facing direction, typically on a roof. Due to the efficiency of the collector, the pitch of most sloped roofs is sufficient and surface roof mounting is adequate. The heat transfer fluid used by the NTI Sol-R-Therm prevents freezing, reduces overheating and allows the collector to be used all year round regardless of the climate type. The heat transfer fluid is circulated through the collector and transfers the heat captured by the absorber plate to the **Trin & Stor** solar tank.

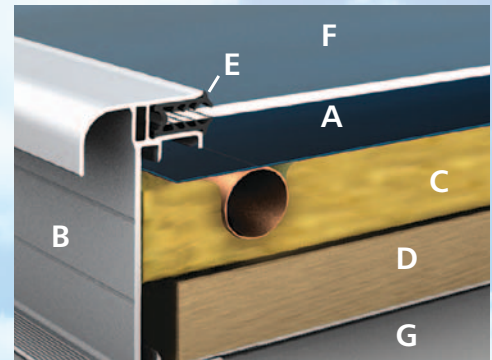
The pumping station calculates the availability of the energy from the sun and if adequate, circulates it to the bottom of the storage tank. If the available solar energy is not sufficient to provide the required domestic hot water load, the controller will activate an auxiliary heat source to automatically supplement the load, either via an electric element, or an NTI high efficiency heating appliance.

*\*Capacity depends on water usage, configuration and solar availability. NTI reserves the right to change specifications without notice.*

**The SRT-215 Flat Plate Collector** is engineered to capture an enormous amount of the sun's energy, while being able to withstand the rigors of our diverse North American climates.

Our panel is so advanced, we are proud to show you our construction:

- A** Highly efficient absorber plate with laser welded copper tubing.
- B** Anodized aluminum frame/railing system for superior strength and easy handling.
- C** Rock wool insulation.
- D** Temperature resistant foam insulation.
- E** EPDM gasket system which seals in all weather conditions and protects glass from breakage.
- F** Low iron, impact resistant glass.
- G** Robust aluminum back plate.



**The SRT-su21 Pumping Station** continuously monitors all aspects of the solar system. The control displays the current operational status and is easily programmed to obtain the optimal system efficiency.

The SRT-su21 contains all the necessary plumbing for the system including: a circulation pump, balancing valves, air scoop, relief valve, thermometers, manometer, and flow meter.



Optional wall start display that can be remotely mounted anywhere in the building. The display is also available in a large format for training institutions.

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The **NTI Sol-R-Therm** system puts Mother Nature to work for you and provides years of domestic hot water to you, your children and your grandchildren. *Select the correct system for your family and lifestyle.*

## COLLECTOR SPECIFICATIONS

Height	2.088 m
Width	1.031 m
Depth	0.081 m
Weight	32 kg
Total Surface Area	2.15 m <sup>2</sup>
Absorber Surface Area	1.99 m <sup>2</sup>
Aperture Area	1.91 m <sup>2</sup>
Optical Efficiency	80.6%
Stagnation Temperature	191.2 °C
Installation	Vertical or Horizontal
Maximum Working Pressure	145 psi
Heat Transfer Medium	Propylene Glycol – Water Mixture
Fluid Volume	1.65 Litres
Inclination	20-70°

## SYSTEM SPECIFICATIONS

Model		SRT-PK1	SRT-PK2
Collectors	Model	SRT215	
	Quantity	2	3
Storage Tank	Model	S80SR	S120SR
	Volume	80gal	120gal
	Heat Exchange Coil	2	2
	Supplemental Heat Exchanger Coil Recovery Rate	358*	393*
	Pumping/Filling Station and Control	SRT-SU21	

*As we continue to improve our products, we reserve the right to change specifications without notice.*

*\* One hour at 115°F DHW supply water.*

## THE NTI COMMITMENT TO SERVICE

- Established in 1966 in Sussex, NB, today's NTI remains a privately owned family business with the same original mandate to manufacture top-quality central heating equipment.
- We design our products with easy installation and servicing in mind.
- NTI maintains a strong commitment to providing installer leadership and ongoing support through our training programs and technical assistance available to contractors.



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