



An Investment with Real Returns



THERMOPOWER

TITANPOWER

GRIDMAXX

CONNECTMAXX

FLOWMAXX

STORMAXX

UNIMAXX

SMARTMAXX

XMAXX

EDUPOWER

Company Information



The SunMaxx Advantage

- **World-leading products**
SunMaxx manufactures and distributes many of the industry's most cost-efficient, reliable and high-performance products.
- **Nationwide professional installer network**
Our authorized SunMaxx installers are trained in the most up-to-date solar thermal technology by our certified professional instructors.
- **In-house dedicated solar thermal experts (over 25 years experience)**
- **Over 100,000 systems installed worldwide**
- **Manufacturer direct supply chain**



ABOUT SUNMAXX SOLAR

History _____

Mission _____

Offices _____





“Innovating Today’s Solar Technologies for the Future of Tomorrow.”

We place great value on stable, long-term and mutually beneficial partnerships with our customer base ranging from homeowners to government affiliations. We provide experience and dedication in all our product categories.

OUR SERVICES

- Engineering support
- System design/sizing
- Customized product solutions
- Classroom & hands-on training
- Sales lead generation
- System project management & consulting

HISTORY

SunMaxx Solar is a leading, vertically integrated manufacturer of solar thermal systems and components. Inspired by a high school science project, SunMaxx Solar was established in 2006 by company CEO Adam Farrell, along with his brother, Matt Farrell, as the solar thermal division of Silicon Solar, Inc., a PV-based sales and distribution company, to meet the growing demand for solar thermal products in North America.

Since our inception, our operational excellence and product leadership in the industry has enabled us to pioneer the development and distribution of new solar technologies and services. We have also established one of the leading solar thermal installer training and educational programs, with a network of over 3,000 authorized SunMaxx installers nationwide. Our certified professional instructors are experts in the solar thermal industry, providing the most up-to-date education and training in solar technology.

SunMaxx Solar continues to grow its North American solar thermal operations as well as expanding operations outside of the United States.

MISSION

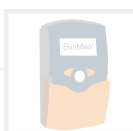
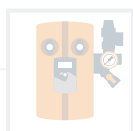
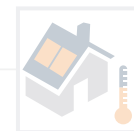
At SunMaxx Solar, we aim to build a sustainable future for our global community. In today’s energy consuming world, we offer world-class solar energy and renewable products, striving to meet the increasing need for alternative energy sources.

From the design room to product installation, the goal of our team is to provide an educational network and value chain with customer service as our number one priority.

Our forward-thinking model includes the establishment of multinational offices to better serve emerging markets and developing nations around the world. We work to build and maintain a cleaner energy-efficient world one satisfied customer at a time.

The mission of SunMaxx Solar is to:

- Help build a sustainable future for the global economy
- Offer world-class solar energy products
- Pioneer the development and distribution of new solar energy technologies
- Provide an educational and training network for our customers



OFFICE LOCATIONS

SunMaxx Solar maintains and operates a number of domestic and international sales and marketing, training, manufacturing and research facilities.

Conklin, NY

SunMaxx Solar's corporate headquarters is located in Conklin, NY, a community in upstate New York that continues to experience steady growth. The office is fully staffed with sales and marketing personnel as well as service and support staff. The Conklin office is also the center of SunMaxx Solar's IT and web support staff. A showroom is open to the public where many of our solar hot water heating and solar electric products are on display. It is also the main location for our east coast warehouse.

Denver, CO

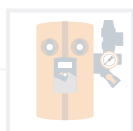
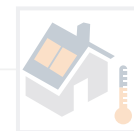
SunMaxx Solar's west coast operations and sales are run out of our Denver Office. They have a warehouse facility that ships out to our west coast customers and a fully stocked showroom is also open to customers and potential dealers.

Training Facilities

SunMaxx Solar conducts its solar thermal training seminars and workshops in our Bainbridge, NY and Denver, CO locations. The Bainbridge training facility hosts installer training programs monthly.

Offshore Manufacturing Facilities

SunMaxx Solar operates a flat plate collector manufacturing facility in partnership with GEO-TEC Solar Industries GmbH in Spittal, Austria, and an evacuated tube manufacturing facility in Lianyungang, China. Both facilities are fully staffed with assembly workers, as well as several technicians, electrical engineers, and a complete marketing staff.





EDUCATION & TRAINING

Nationwide Installer/Installation Training

Nationwide Installer Sales Training

Online Continuing Education Webinars





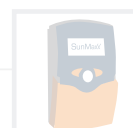
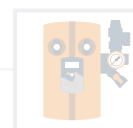
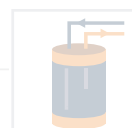
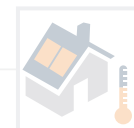
**SunMaxx
EduPower**

**Complete Solar Thermal
Education & Training**

The growing solar thermal industry provides an exciting opportunity for today's plumbing, HVAC and general construction professionals to expand their businesses and take advantage of the income potential that is available in solar thermal installations. SunMaxx has established ourselves as the solar thermal industry leader with our nationwide network of successful SunMaxx authorized installers that have completed our thorough and in-depth solar thermal training.

SunMaxx Solar holds training workshops and seminars across the United States and the world designed to offer today's leading professionals the most comprehensive and up-to-date education and training to become an authorized SunMaxx installer. Our unique workshop format provides training in many key areas, all geared to assist experienced and new solar hot water installers alike in getting the most out of their new business venture. At the completion of our workshop, you will:

- become an authorized SunMaxx solar hot water installer.
- have learned about SunMaxx solar collectors, components and systems.
- have learned the proper methods for designing, sizing and installation.
- become familiar with solar sales and marketing techniques.
- become familiar with financing options and solar incentives.
- become familiar with SRCC ratings and certification.
- become familiar with the SunMaxx dealer/installer program.





Why Become An Authorized SunMaxx Installer?

There are many reasons. First, SunMaxx Solar gives our installers not only the opportunity to thrive in the growing solar thermal industry, but also provides all the necessary tools they need to be successful. Becoming an authorized installer allows you to take advantage of wholesale pricing, and gives you access to marketing materials to help you promote your business, ongoing training for continuing education credits, and a technical and sales support staff ready to offer the best customer service.

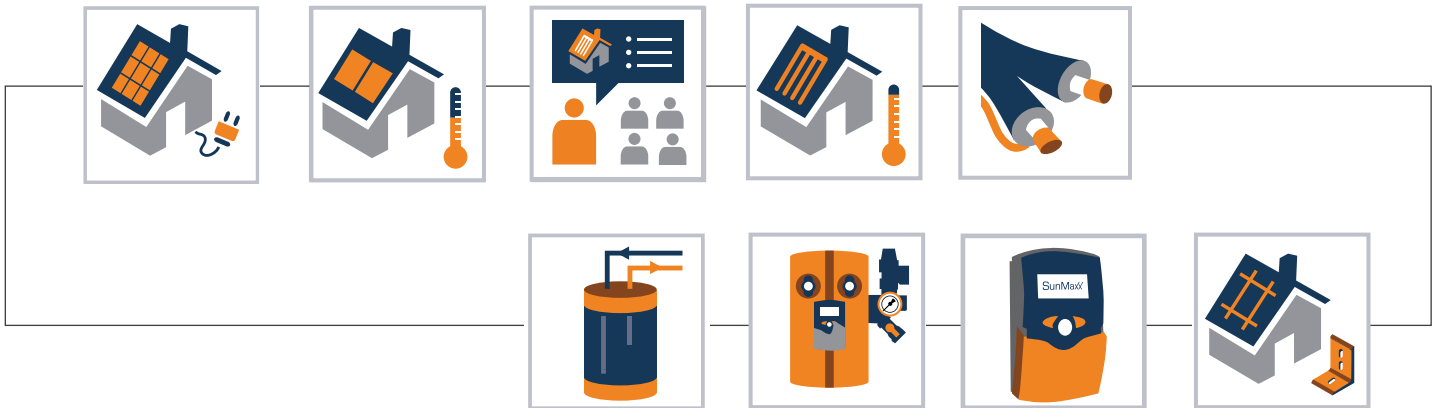
Next is our industry-leading turnkey solar thermal systems and products. As an authorized installer, you can be confident that the products you're offering your customers are among the most efficient and reliable products on the market today. We manufacture one of the highest SRCC-rated flat plate collector for energy output with our TitanPower Plus-SU2*. And our products do not sacrifice quality or performance for the purpose of affordability. SunMaxx collectors outperform many of our major competitors when comparing dollars spent per BTU produced.

Also, as an authorized installer you can be sure that your training and education in solar thermal technology and installation is the most up-to-date and comprehensive training available. From your participation in our initial classes, to continuing your education with our online solar thermal webinar series, our aim is to ensure that we provide you with the necessary training to make you a solar thermal expert in your local or regional market.

And nothing substitutes for experience. Over 3,000 successful nationwide installers have been trained through the SunMaxx EduPower Program. And those installers account for approximately 100,000 solar thermal installations across the country. Joining the SunMaxx team allows you to build your solar thermal business on a solid platform of success.

*Rating based on collectors using ethylene glycol as a heat transport medium.





PRODUCT LINE

HelioMaxx Series Prepackaged Kits

TitanPower Series Flat Plate Collector

ThermoPower Vacuum Tube Collector Series

GridMaxx PV Panel Series

FlowMaxx Line Set Series

StorMaxx Solar Storage Tank Series

UniMaxx Pump Station Series

SmartMaxx Controller Series

X-Maxx Accessories





SunMaxx Solar designs and manufactures the industry's leading solar thermal hot water and space heating systems. Our turnkey prepackaged systems provide customers with a complete solution for both residential and commercial applications. Our HelioMaxx Kits come with almost all the necessary components to help you start saving money on your hot water heating bill.

Beginning with our line of solar collectors, SunMaxx vacuum tube and flat plate solar collectors provide the best overall performance in the industry at affordable prices. Our TitanPower Plus-SU2 flat plate collector is actually one of the highest rated OG-100 certified collectors for energy output in the category of collectors using ethylene glycol as a heat transfer medium.

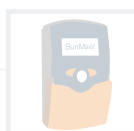
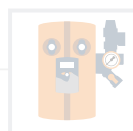
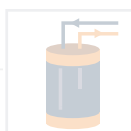
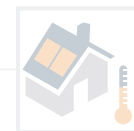


The unique combination of leading product performance along with our highly competitive pricing schedule make a SunMaxx solar hot water system one of the wisest investments a home or business owner can make. Our systems have short payback periods, low initial investments and higher overall return on your investment than any other solar hot water system on the market today.

Solar Hot Water Applications

SunMaxx solar collectors and solar hot water systems are ideal for use in any climate, and for a number of applications, including:

- domestic hot water.
- radiant floor and space heating.
- pool and spa heating.



HelioMaxx Series Prepackaged Kits

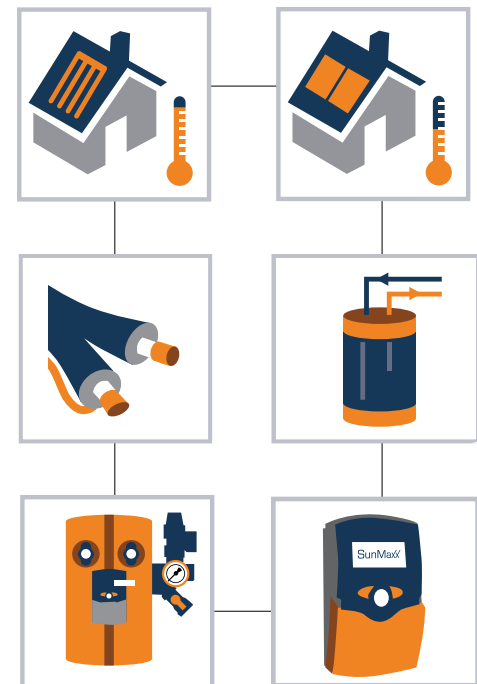
— Turnkey solar thermal hot water heating kits

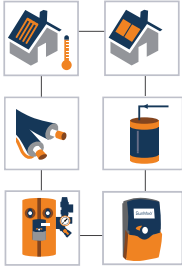
SunMaxx Solar's prepackaged solar thermal kits provide a turnkey solution for your hot water and space heating needs. Rather than having to purchase individual products to build your system, SunMaxx has conveniently prepackaged most of the necessary components to make the buying experience as easy as possible.

The kits are also designed so that they can be installed by do-it-yourselfers and professional installers alike.

The **HelioMaxx Prepackaged Hot Water Kit** is the solar industry's leading domestic hot water solution. The basic kit, complete with high-performance **ThermoPower** vacuum tube or **TitanPower** flat plate collectors, **StorMaxx** storage tank, **FlowMaxx** pre-insulated line sets, and **UniMaxx** pump station, is designed to provide more than 50% of a household's hot water needs. Developed by experienced industry professionals with installers in mind, these kits combine cutting-edge solar equipment and hydronic accessories to minimize set up-time resulting in a streamlined installation process.

SunMaxx collectors lie at the heart of the HelioMaxx kit's innovative design. Their industry-leading efficiency and proven reliability set the bar for the solar thermal industry. With these collector options, the HelioMaxx kit can meet the hot water needs of any home in any climate. Return on investment for these collectors is maximized by their OG-100 SRCC certification, which qualifies them for a variety of rebates and incentives. This, combined with their attractive price point, enables them to provide payback periods that are among the shortest in the industry.





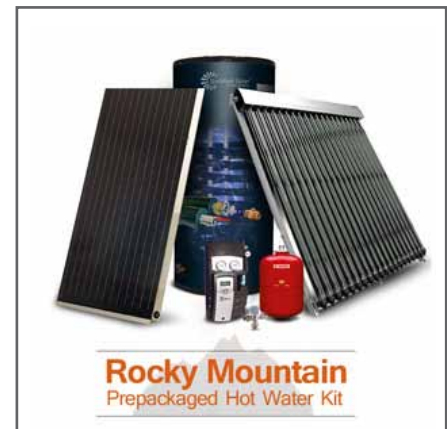
Prepackaged Kits

Turnkey solar thermal hot water heating kits

The SunMaxx Empire Kit is a complete solar thermal system especially designed for New York State. Kits come in either a flat plate (TitanPower) or evacuated tube (ThermoPower) fashion. Kits also include stainless steel line set, a UniMaxx Plus pump station, the StorMaxx SE glass lined storage tank and all the fittings necessary to connect all together. We have designed the kits to replace your existing electric hot water heater and save you up to 75% of you energy consumption for years to come!



The SunMaxx Rocky Mountain Kit is a complete solar thermal system especially designed for Colorado. Kits come in either a flat plate (TitanPower) or evacuated tube (ThermoPower) fashion. Kits also include stainless steel line set, a UniMaxx Plus pump station, the StorMaxx SE glass lined storage tank and all the fittings necessary to connect all together. We have designed the kits to replace your existing electric hot water heater and save you up to 75% of you energy consumption for years to come!



ButlerMaxx pre-packaged kits combine the legendary Butler Sun Solutions solar wand retrofit kit with SunMaxx evacuated tube or flat plate solar collectors.

Our ButlerMaxx pre-packaged kits are pre-sized and engineered to meet the needs of the majority of residential hot water heating systems — all you have to do is sell, install and turn on.





TitanPower Plus-SU2



TitanPower-AL2



TitanPower-AL2DH



SunMaxx TitanPower Series

High efficiency solar
flat plate collectors

SunMaxx has capitalized on the technology of the European solar market by making available a flat plate collector series that is second to none. The TitanPower series of flat plate collectors are among the most efficient in the industry. As mentioned earlier, our TitanPower Plus-SU2 collector is one of the highest SRCC-rated OG-100 collector for energy output when compared to other collectors using ethylene glycol as a heat transport medium.

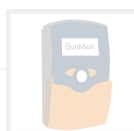
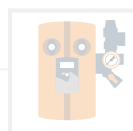
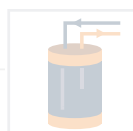
Flat plate collectors are the most efficient collectors available and offer many more mounting options than do vacuum tube collectors. Because of its increased mounting options and the way in which it is constructed, the aesthetic appearance of the collector(s), say how it would look mounted flushly on a residential roof, is more appealing to customers since it resembles a skylight when viewed from a distance.

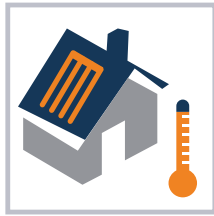
The SunMaxx TitanPower series of collectors are available in the following models:

- TitanPower Plus-SU2
- TitanPower-AL2
- TitanPower-AL2DH

All SunMaxx flat plate collectors come with a 10-year warranty and are SRCC and Solar Keymark certified. The TitanPower Plus-SU2 comes with an industry-leading 12-year warranty.

Regardless of the model you choose for your system, you can be sure of the quality and performance that the SunMaxx product line is known for.





SunMaxx ThermoPower Series

Cutting-edge designed
vacuum tube collectors

Through numerous design innovations, SunMaxx has ensured that each customer receives the best solar thermal product available. Vacuum tube collectors use a vacuum space within each tube's borosilicate glass shell to offer unsurpassed efficiency and heat loss protection. In the event of a tube breaking, it can be removed and the entire system will continue to function.

The benefit of vacuum tube solar collectors is their versatility in virtually any climate. Another added bonus is that our vacuum tube collectors are available in different quantities of tubes per collector, from as few as 10, and as many as 30. This allows for our vacuum tube collectors to be used in any size application, from a small residential project to a large commercial installation.

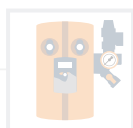
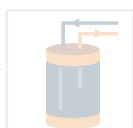
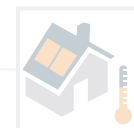
SunMaxx vacuum tube collectors are available in the following product lines:

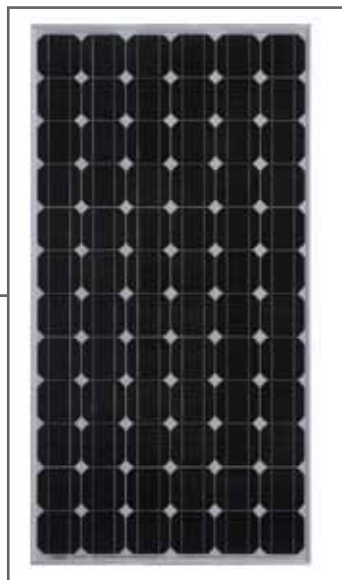
- ThermoPower-VHP (10, 20, 25 & 30 tube models)
- ThermoPower-VDF (20 & 30 tube models)
- ThermoPower-VTS (20 & 30 tube models)

SunMaxx vacuum tube collectors come with a 10-year warranty and are among the most efficient vacuum tube collectors in the industry. Couple this fact with our affordable pricing and you have a solar thermal product that stands alone against any competitor.



ThermoPower-VHP25





GridMaxx-180W



GridMaxx-230W



GridMaxx Series

High performance PV modules with industry-leading warranties

Photovoltaic (PV) panels differ from solar flat plate and vacuum tube collectors in both function and construction.

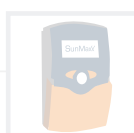
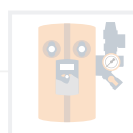
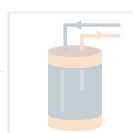
Unlike vacuum tubes and flat plate collectors, which utilize the sun's energy to heat up and transport fluid which then is used for either hot water or space heating, PV panels take that same energy and convert it into usable electricity.

SunMaxx offers the following PV panel products:

- GridMaxx-180W
- GridMaxx-230W

Reliability is at the core of all of our solar energy systems. So is power. To that end, **GridMaxx-180W** modules use monocrystalline cell technology, and operate with an electrical efficiency of up to 17.29%. The **GridMaxx-230W** uses polycrystalline cell technology, with an electrical efficiency of up to 15.75%. Both models keep the energy flowing and boast allowable tolerances of up to +5 watts, which guarantees maximum power without compromise. Nominal power is always obtained and often exceeded. This gives us a distinct advantage over our competitors, whose modules may actually deliver less than the wattage they claim.

Our GridMaxx PV modules go far beyond competitors standards with the guarantee that they will produce 90% of their nominal power for 12 years and 80% for 30 years.





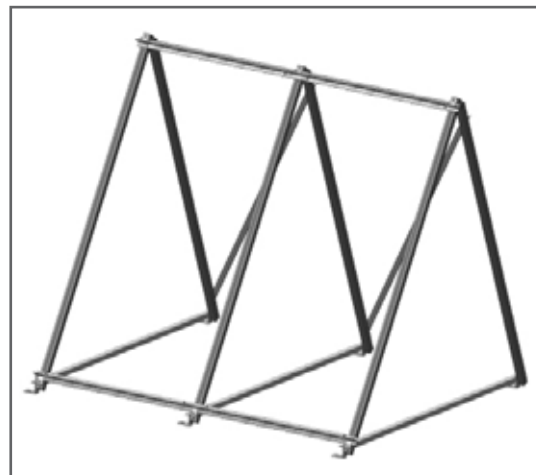
ConnectMaxx

Universal racking systems for thermal & PV installations

An aspect of your solar thermal system installation that is not to be overlooked is the mounting hardware for your solar collectors.

Through our partnership with MAGE-Sunfixings, a long-standing name in the European solar market for their roof mounting systems, SunMaxx offers the **ConnectMaxx** line of solar mounting hardware.

ConnectMaxx mounting systems and hardware assure the secure and safe installation of your solar thermal collectors and allow for a variety of mounting options. Flush and free standing mounting systems are available for both residential and commercial applications.



ConnectMaxx Mounting Hardware



FlowMaxx

Insulated solar flexible stainless steel piping

The **FlowMaxx Line Set** makes the installation of our solar thermal systems easier than ever. Advanced German engineering has brought us a flexible line set which includes top-performing insulation, a solar flow loop, solar return loop and sensor line all included in one easy-to-install product. You'll be amazed at how much faster, easier and more reliable your solar installations will become.

The following products are available in the series:

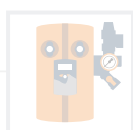
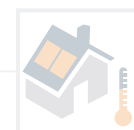
- **FlowMaxx Standard Line Set**
- **FlowMaxx-BFL Line Set (for buried applications)**



FlowMaxx Line Set

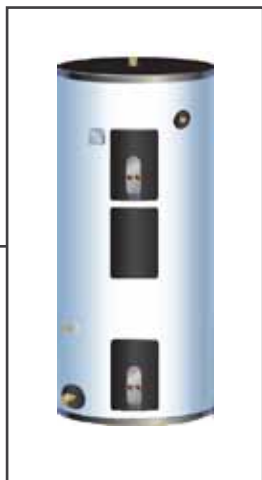


FlowMaxx-BFL Line Set





StorMaxx-Ptec Solar Storage Tank



StorMaxx-DW Solar Storage Tank



StorMaxx-NP Solar Storage Tank



StorMaxx Series

Glass-lined, stainless steel & non-pressurized tanks

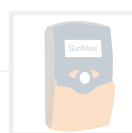
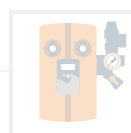
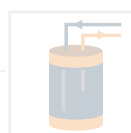
Our StorMaxx line of solar storage tanks feature cutting-edge advancements in internal heat ex-changers and energy conserving insulation. These tanks flawlessly integrate SunMaxx solar collectors with any existing domestic hot water or radiant heating system.

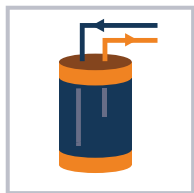
Purchasing a SunMaxx storage tank specifically designed for a solar thermal system ensures that your system reaches its full potential. The heat exchanger and storage method within these tanks are the single most effective way to transfer solar heat to your building's heating or hot water system. These high performing solar storage tanks come in a wide variety of sizes for either residential or commercial applications.

SunMaxx offers the following StorMaxx tanks:

- StorMaxx-Ptec: 50 gal., 80 gal., 105 gal., 130 gal.
- StorMaxx-DW: 65 gal., 80 gal., 120 gal.
- StorMaxx-NP: 184 - 2500 gal.

The tank or tanks that best fit your needs will be determined by the size requirements of your system. You can count on our solar thermal experts and system designers to make this determination for you. As part of our system sizing and design services, you can be sure that we will recommend the best option for you and never suggest something that is more than what you need. Our goal is to provide the most efficient and cost-saving solutions available.





StorMaxx Series

Glass-lined, stainless steel & non-pressurized tanks

StorMaxx CTec solar hot water storage tanks are large 211 gallon, low pressure solar thermal storage tanks. CTec tanks have three internal exchanger coils and enough insulation to earn them an R-value of 16.

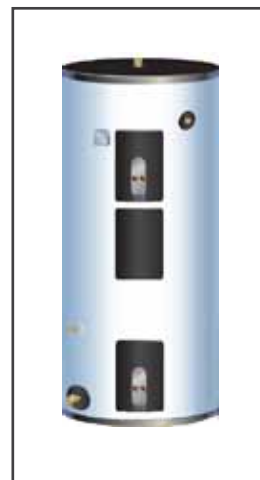
- * 2 bare tube steel coil heat exchangers
- * 1 corrugated stainless steel coil heat exchanger for DHW
- * 6 ports for supply, return, stratification and recirculation
- * Sensor ports Included
- * 4" CFC Free soft foam insulation with PVC coating

The StorMaxx SE is a durable porcelain enamel, glass-lined tank. Highly resistant to abrasive water. Not susceptible to damage due to the presence of chloride in the water. Built to last – Inner tank is hand-crafted from heavy gauge steel. Longer life equals a higher “Return on Investment”. Outer jacket made from steel and powder coated for a lasting, durable finish.

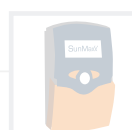
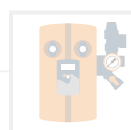
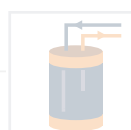
- * Automatic controls – immersion aquastat used.
- * Factory installed brass drain valve – accessible, tamper-proof.
- * Factory installed T&P valve – CSA listed.
- * 2" Non-CFC foam insulation – decreases standby heat loss.

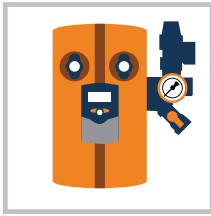


StorMaxx-CTec Solar Storage Tank



StorMaxx-SE Solar Storage Tank





UniMaxx Series

Turnkey solar pumping & HVAC solutions

The **UniMaxx** series of pump stations represent a new leap in piping and pumping design, ease of installation, ease of maintenance and overall reliability. Hailing from the most mature solar thermal markets of the world, these systems have been fine tuned by some of the world's leading engineers and designers to make solar thermal systems as sleek and streamlined as possible.

These modular systems make design changes and customization easy. Commercial pumping stations are also available. The following products are included in the series:

- UniMaxx Plus
- UniMaxx PlusB Helio
- UniMaxx-DB-10D



UniMaxx Plus Series Pump Stations



SmartMaxx

Plug & play solar controllers

Our **SmartMaxx** series of digital controllers is the brain of a SunMaxx solar hot water or heating system. Controllers read the temperatures at the solar collector and inside the storage tank. When heating of the tank is needed, and the collectors can provide the heat, the controller will activate the circulator pump(s) automatically, and vice-versa.

Our industry-leading controllers include:

- SmartMaxx-DHW
- SmartMaxx-DHW Plus
- SmartMaxx-Combi
- SmartMaxx-Combi Plus
- SmartMaxx-DTC



SmartMaxx-DHW



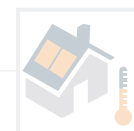
SmartMaxx-DHW Plus

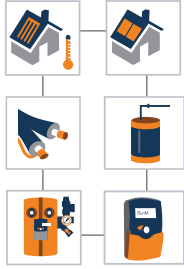


SmartMaxx-Combi



SmartMaxx-Combi Plus





X-Maxx Series

Solar Hot Water Accessories

The SunMaxx Solar Filling Station allows you to easily fill, flush and drain a solar thermal system in less than half the time of manual pumping. The powerful, dry self-priming impeller pump produces the high flow rate and amount of pressure necessary to dramatically reduce the occurrence of air enclosures in the system, ensuring the solar system operates at maximum efficiency. The SunMaxx Filling Station is a very powerful tool every installer should have.

External heat exchangers are the key to retrofitting an existing hot water, radiant space or pool heating system effectively. To have an efficient solar system it is essential that you have a properly sized and fitted heat exchanger. That's why SunMaxx offers one of the largest varieties of heat exchangers for any application. Our product line includes brazed plate heat exchangers for standard applications, shell-and-tube heat exchangers for pool heating, air-to-water heat exchangers for forced hot air heating, and the innovative butler wand, actually bringing the external heat exchanger inside the hot water tank.

The right circulator pump can make or break your new SunMaxx solar hot water system. The solar hot water circulator pump is the heart of your SunMaxx solar hot water or solar heating system.

SunMaxx knows that different solar hot water circulator pumps work great with one type, or size, of solar hot water system...while others do not.



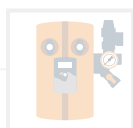
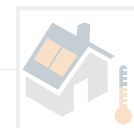
Filling Station

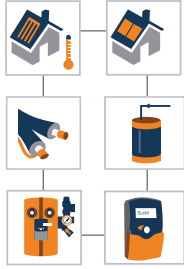


Water to Air Heat Exchanger



Circulator Pumps





X-Maxx Series

Solar Hot Water Accessories

SunMaxx carries a variety of solar expansion tanks that are used in a variety of the most popular solar hot water and solar heating applications. Tanks come in a range of many sizes. You will also find the necessary mounting hardware involved in adding an expansion tank to your system and can be purchased together with the tank itself or separately for your convenience.

Drainback Tanks offer the drainback solution you need for a solar hot water system. 10-20 gallon capacity With or without heat exchangers When a Drainback tank is necessary for a system, SunMaxx can offer those options. With sizes ranging from 10 to 20 gallons with or without Heat Exchangers.

When a system produces more heat than necessary, a heat dump is needed to prevent damage to the system. Heat dumps not only prevent damage to system components but also keep the system running at its highest efficiency. Heat Dumps offer you the solution you need to remove excess heat from a solar hot water system. Removing excess heat prevents damage to system components and allows the system to run at its highest efficiency.

Glycol is essential for some solar hot water systems. SunMaxx is proud to offer several choices when it comes to glycol for your solar hot water systems. Whether you need high temperature or food grade glycol for your system the choices are all there.



Expansion Tank



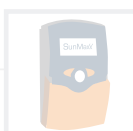
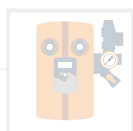
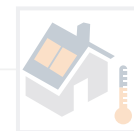
Drainback Tank



Heat Dumps



Glycol





NOTABLE PROJECTS

St. Regis Aspen Resort
Aspen CO
2009

Walkill Correctional Facility
Walkill NY
2009

Cornell University Heat & Power Plant
Ithaca NY
2010



Walkill Correctional Institute, Walkill NY 2009

Project Summary

- Domestic hot water
- On-demand solar exchanger- no storage tank
- Estimated solar fraction ~20%
- Annual BTU production - 766 mmBTU

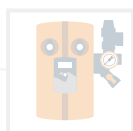
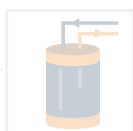
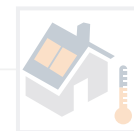
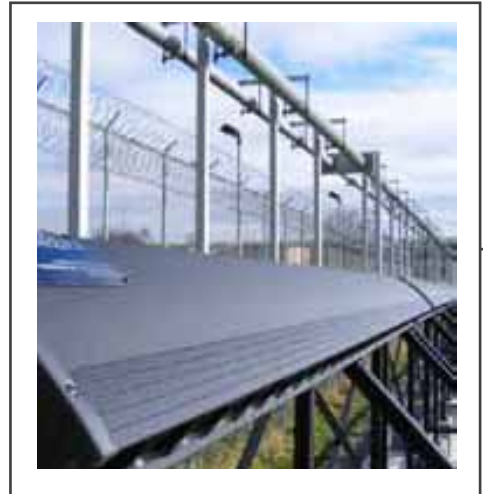


“Project Sunshine” is a pilot demonstration of solar technology jointly developed by the New York State Office of General Services (OGS), the Department of Correctional Services and the New York Power Authority. SunMaxx Solar was chosen as the developer and designer for the first installation site at Walkill Correctional Facility, a 608-bed medium security men’s prison located near New Paltz, NY. The system was designed to improve energy efficiency and meet the hot water needs of the entire facility.

Located on the perimeter of the 48-acre site are 48 SunMaxx ThermoPower-VHP30 solar thermal collectors (totaling 1,440 vacuum heat pipes), which circulate a glycol/water solution through a closed-loop system to preheat vast amounts of water used for showers, laundry and kitchen facilities. Daily power output averages 1.6 mmBTU per day. The size of the system makes it one of the largest installations in New York State. The facility is expected to see a reduction in its current annual oil consumption by 160,000 gallons. Over 60 New York state prisons are set to follow, leading to a reduction of millions of tons of carbon emissions and millions of dollars from the state’s energy budget.



In 2010, the system won Best In State for government solar projects.





St. Regis Aspen Resort, Aspen CO 2009

Project Summary

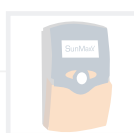
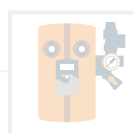
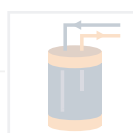
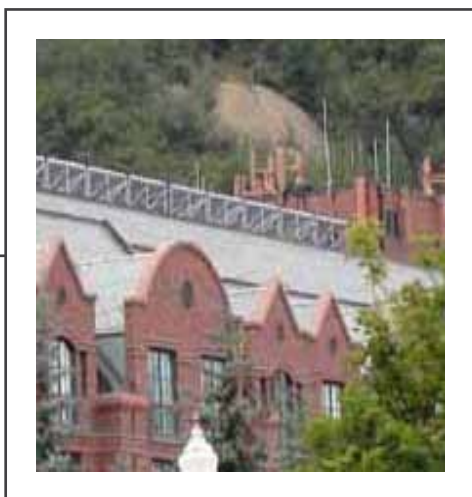
- Domestic hot water
- Space heating
- Pool heating
- Avg. BTU production/tube = 1200 BTU
- BTU production/day = 1.62 mmBTU



Hotels and resorts have very high operating costs. Among the largest operating expenses are hot water and heating. As the prices of traditional heating sources such as oil, natural gas, propane and electricity continue to increase and remain volatile, the cost of operating a hotel or resort will continue to rise with them. This leaves hotel operators with two choices; find a way to reduce these costs, or pass these costs along to their customers through price increases and a competitive loss.

A SunMaxx solar hot water and heating system helped the St. Regis to dramatically lower these costs and to become a green leader in Aspen. Colorado's first commercial solar thermal system is used to provide heat for the facility's pool, domestic hot water and space heating demands. With over 45 SunMaxx ThermoPower-VHP30 solar thermal collectors, the system tops the charts for the largest solar thermal system in Aspen.

The St. Regis Aspen Resort is making major strides in decreasing its carbon footprint with this installation. The system is expected to decrease the hotel's natural gas usage by as much as 50 percent, and carbon dioxide emissions by 39 tons per year.



Cornell University Heat & Power Plant, Ithaca NY 2010

Project Summary

- Combisystem
- Domestic hot water & radiant floor heating
- (15) SunMaxx ThermoPower-VHP30 evacuated tube solar collectors
- Coal consumption reduced by 80%

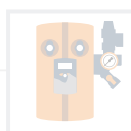
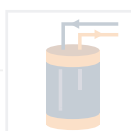
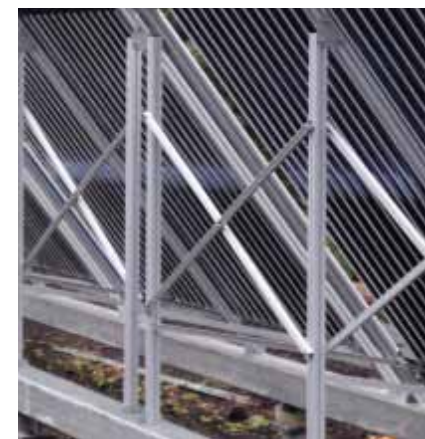


In 2007, Cornell University President David Skorton signed a letter of intent pledging his support for the American College and University Presidents Climate Commitment. The commitment requires that Cornell develop a Climate Action Plan to guide the university toward zero carbon emissions. The Combined Heat and Power Project was part of that commitment.

The project utilized a SunMaxx evacuated tube combi-system consisting of 15 ThermoPower-VHP30 vacuum tube solar collectors. The solar thermal system ties into the radiant floor heating and domestic hot water heating system in the building. Overall, there are a total of 450 vacuum tubes converting energy from the sun into heat to provide the heating needs of the facility.

Immediately, the university reduced coal consumption by 80%, with the new solar thermal system providing the majority of the campus' need for heat and electricity.

SunMaxx was proud and excited to help Cornell University, a leader in sustainability, achieve it's goal of moving beyond coal.





New York

- Combisystem (DHW, space heating)
- (13) TitanPower Plus-SU2 flat plate collectors
- 533 gal. non-pressurized tank
- DHW & space heating provided for 2500 sq. ft. house



Syracuse, NY

- Combisystem (heat, dhw, pool)
- (10) TitanPower Plus-SU2 flat plate collectors
- 130 gal. dual coil storage tank
- ~42% solar fraction



Phoenix, AZ

- Heating system
- (5) ThermoPower-VHP30 evacuate tube collectors (150 tubes total)
- Drainback system using 328 gal. non-pressurized tank
- Estimated solar fraction=75%



Colorado

- Domestic hot water system
- (2) ThermoPower-VHP20 evacuated tube collectors (40 tubes total)
- 80 gal. pressurized storage tank with dual heat exchangers
- Top coil ties into boiler for heat backup; bottom coil ties into solar



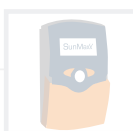
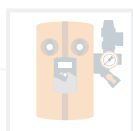
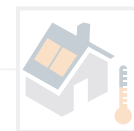
Ohio

- Domestic hot water system
- (2) ThermoPower-VHP25 evacuated tube collectors (50 tubes total)
- Estimated solar fraction = 85%



New Berlin, NY

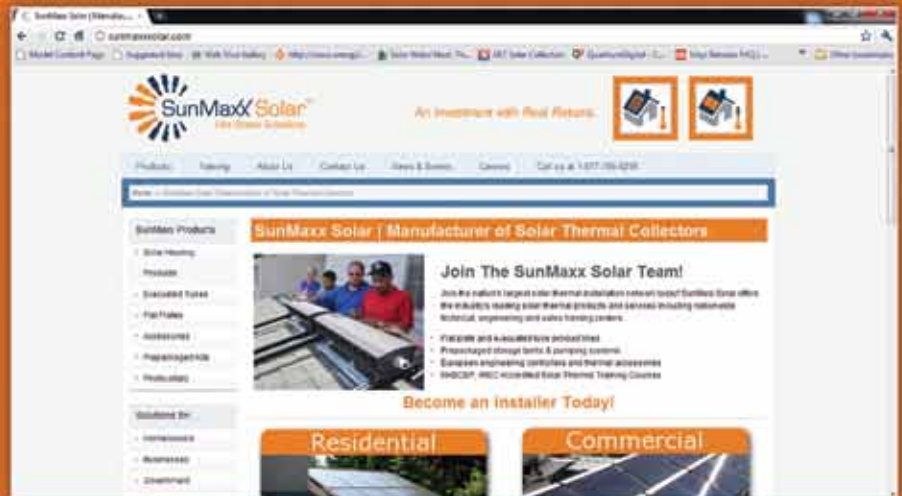
- Combisystem
- (6) ThermoPower-VHP30 evacuated tube collectors (180 tubes total)
- 428 gal. non-pressurized storage tank
- Tied into boiler with high temperature baseboard heat & indirect hot water tank



SunMaxx Solar Online Resources

SunMaxxSolar.com

- Information on solar thermal systems & products
- Commercial & residential turnkey solutions
- How to become an authorized SunMaxx installer
- Downloadable product brochures & technical data sheets
- SunMaxx EduPower training program & class schedule information
- News & latest projects



SolarWebinars.com

- Part of SunMaxx EduPower solar thermal training program
- Free webinars on various solar thermal installation topics
- Schedule, archives, Q&A, & additional videos
- Free downloadable training materials
- Webinars for both solar thermal & PV installs



SolarThermalTraining.org

- How to become an authorized SunMaxx installer
- Training information for both solar thermal & PV installs
- Training course overview and schedule
- Advantages of joining the nationwide SunMaxx network of installers
- Free downloadable product brochures & solar information





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ThermoPower



SunMaxx
TitanPower



GridMaxx



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SunMaxx
EduPower

Complete solar thermal training
and education



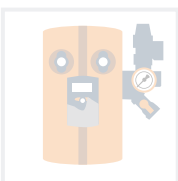
FlowMaxx



StorMaxx



SmartMaxx



UniMaxx

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