



SioGreen Quartz Infrared Electric Tankless Water Heaters

SioGreen Pro Series – No Maintenance!

What makes this technology different?

No Metal Heating Elements – No Corrosion – No Maintenance



The difference between the **SioGreen Infrared Tankless** design and the technology that's been in existence for over 100 years, is how the water is heated. **SioGreen** has developed and patented a revolutionary way to use **Space Age Quartz and Infrared Energy** to heat an unlimited supply of water through a maintenance free heat exchanger.

The SioGreen Quartz Infrared Electric Tankless Water Heaters are unlike anything on the market. We have eliminated the number one cause of water heater failure...metal heating elements. Instead, water flows through banks of four **quartz heat exchanging elements**: clear tubes with a patented nanotech carbon coating that conducts and accelerates infrared energy. When you put power to the unit, the internal temperature of the tube heats up to 275° F in a matter of seconds!



Typical electric water heaters utilize **metal heating elements** to heat water in a large storage tank. The metal elements attract minerals in the water and develop a corrosive scale that reduces the efficiency of the water heater. If you don't spend hundreds of dollars each year to flush and descale the water heater, it will eventually fail. In addition, electricity is also used during the day and night to maintain the temperature of the water in the tank whether you are using it or not.

In most electric **tankless** designs, water flows past similar metal heating coils to produce the on-demand hot water. But the concept and problems are the same. The common problem is that the water is still in contact with the heated metal elements that will eventually develop corrosion and scale. In time, the elements will need to be replaced.



The **SioGreen** Performance Difference

24,637 Hours...that's how long this **SioGreen Quartz Infrared Heat Exchanger** was performing before it was removed for inspection at a nail salon. Constant on/off operation running 9 hours/day...365 days/year...for 7 1/2 years...That's equivalent to **22 1/2 years** in a typical household!!



No corrosion...No maintenance...No failures.

The Power of SioGreen Quartz Infrared - The Magnifying Glass Effect.



The sun's infrared energy is amplified and intensified through the magnifying glass to burn paper.



Infrared energy is amplified through the patented carbon coated SioGreen Quartz Tube to heat the water.

It's really that Simple!

POU Pro Models (Point of Use)

IR-30 POU Pro - 3.4 kW 110 V - 1.0 GPM - 30 AMP Single Pole Breaker #10 AWG Wire - Single Sink - Hand wash only - Individual lavatory or exam room sinks - RV's and Boats - Complies with UL 499

IR-260 POU Pro - 6.0 kW 220 V - 1.5 GPM - 30 AMP Double Pole Breaker #10 AWG Wires - Single Sink - Hand Wash Stations - Outdoor kitchens and Pool showers - Workshops- Complies with UL 499

IR-288 POU Pro - 8.8 kW 220 V - 3.0 GPM - 40 AMP Double Pole Breaker #8 AWG Wire - Small single bath house - Single Bath Apartment/Mobile Homes and Modulars- Complies with UL 499

Warranty: 2 Year Full Replacement/5 Year Electronic/5 Year Heat Exchanger

SIO Pro Flex Model (Multi-Bath)

SIO 18 Pro Flex - 18 kW 220 V - 4.6 GPM - 80 Amp (2) 40 Amp DP Breakers (2) pair #8 AWG Wires - Switchable to energy saving 14 kW. Whole House 2+ baths - Larger homes and condos -Larger commercial applications. Tested and Certified to DOE CFR Title 10 Energy Standards - Conforms to NSF/ANSI/CAN STD 372 - Complies with UL 499 CSA C22.2 No. 64-10 E212625 - Listed with California Energy Commission

Warranty: 2 Year Full Replacement/5 Year Electronics/10 Year Heat Exchanger

SioGreen Specifications

MFG SKU	Product Description	Amperage	Cable Required	Water Connection	Dimensions	Warranty
IR-30 POU Pro	Point of Use 3.4 kW/120V	30 AMP	10 AWG	½" NPS	11.5" x 9" x 2.75"	2 Year/5 Year/5 Year
IR-260 POU Pro	Point of Use 6.0 kW/220V	30 AMP Double Pole	(2) 10 AWG	½" NPS	11.5" x 9" x 2.75"	2 Year/5 Year/5 Year
IR-288 POU Pro	Point of Use 8.8 kW/220V	40 AMP Double Pole	8 AWG	¾" NPT	17.5" x 11.5" x 2.75"	2 Year/5 Year/5 Year
SIO 18 Pro Flex	Whole House 18 kW/220V	2 - 40 AMP Double Pole	(2) 8 AWG	¾" NPT	20" x 14" x 6"	2 Year/5 Year/10 Year

Flow Rates – Temperature Rise

MFG SKU	Maximum kW	75° F	65° F	55°	45°	35°
IR-30 POU Pro	3.4	-	0.5	0.6	0.7	1.0
IR-260 POU Pro	6.0	0.5	0.8	1.0	1.2	1.5
IR-288 POU Pro	8.8	1.0	1.3	1.5	1.7	3.0
SIO Flex Mode 14 kW	14	1.7	2.0	2.3	2.8	3.6
SIO Flex Mode 18 kW	18	2.2	2.5	3.0	3.6	4.6

Gallons Per Minute based on 110° Exit temperature



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SioGreen vs Competitors

Stiebel Eltron*

Spec	SIO 18 Pro	Tempra Trend 20	Tempra Trend 24
Max Power	18 kW	20 kW	24 kW
Amperage	80 AMP	80 AMP	100 AMP
Voltage	240	240	240
Breakers	(2) 40 AMP DP	(2) 40 AMP DP	(2) 50 AMP DP
Cabling	2 Pair 8 AWG	2 Pair 8 AWG	(2) Pair 8 AWG
GPM – 75° Rise	2.2	1.76	1.84
GPM – 55° Rise	3.0	2.37	2.95
GPM – 45° Rise	3.6	2.93	3.60
GPM – 35° Rise	4.6	3.73	4.76

Eemax*

Spec	SIO 18 Pro	Eemax HA018240	Eemax HA024240
Max Power	18 kW	18 kW	24 kW
Amperage	80 AMP	75 AMP	100 AMP
Voltage	240	240	240
Breakers	(2) 40 AMP DP	(2) 36 AMP DP	(2) 50 AMP DP
Cabling	2 Pair 8 AWG	2 Pair 8 AWG	(2) Pair 8 AWG
GPM – 75° Rise	2.2	1.64	2.18
GPM – 55° Rise	3.0	2.24	3.00
GPM – 45° Rise	3.6	2.76	3.64
GPM – 35° Rise	4.6	3.57	4.71

Titan*

Spec	SIO 18 Pro	Titan N-180	Titan N-270
Max Power	18 kW	18 kW	27 kW
Amperage	80 AMP	75 AMP	120 AMP
Voltage	240	240	240
Breakers	(2) 40 AMP DP	(2) 40 AMP DP	(2) 60 AMP DP
Cabling	2 Pair 8 AWG	2 Pair 8 AWG	(2) Pair 6 AWG
GPM – 75° Rise	2.2	1.62	2.13
GPM – 55° Rise	3.0	2.23	2.95
GPM – 45° Rise	3.6	2.73	3.58
GPM – 35° Rise	4.6	3.5	4.71

TruTankless*

Spec	SIO 18 Pro	TruTankless 20 kW	TruTankless 24 kW
Max Power	18 kW	20 kW	24 kW
Amperage	80 AMP	80 AMP	100 AMP
Voltage	240	240	240
Breakers	(2) 40 AMP DP	(2) 40 AMP DP	(2) 50 AMP DP
Cabling	2 Pair 8 AWG	2 Pair 8 AWG	(2) Pair 6 AWG
GPM – 75° Rise	2.2	1.70	2.00
GPM – 55° Rise	3.0	2.20	2.40
GPM – 45° Rise	3.6	2.60	3.30
GPM – 35° Rise	4.6	3.90	4.90

Rheem*

Spec	SIO 18 Pro	RTEX - 18	RTEX - 24
Max Power	18 kW	20 kW	24 kW
Amperage	80 AMP	75 AMP	100 AMP
Voltage	240	240	240
Breakers	(2) 40 AMP DP	(2) 40 AMP DP	(3) 40 AMP DP
Cabling	2 Pair 8 AWG	2 Pair 8 AWG	(3) Pair 8 AWG
GPM – 75° Rise	2.2	1.64	2.19
GPM – 55° Rise	3.0	2.23	3.00
GPM – 45° Rise	3.6	2.73	3.64
GPM – 35° Rise	4.6	3.54	4.71

*All competitor specifications taken from the manufacturer's published information.

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SioGreen Quartz Infrared Tankless Water Heaters

THE FIRST MAJOR BREAKTHROUGH IN WATER HEATER TECHNOLOGY IN OVER 100 YEARS!

SioGreen IR-30 POU Pro - Point of Use



All SioGreen Quartz Infrared Electric Tankless Water Heaters utilize the latest technology in Quartz Infrared heating elements to provide instant and continuous hot water. This small, portable unit can be used anywhere you have access to a water supply and electricity.

No metal heating elements that corrode and fail and it is **MAINTENANCE FREE!**

The **IR-30 POU Pro** uses 110 V – 30 Amp household circuit and 3.4 kW to heat the water faster. It has a maximum flow rate of 1.0 GPM (gallons per minute) and includes a gate valve. This product is recommended for use with a **single sink only. Do not use with a shower or multiple applications.**

Flow rates at various temperature rise – Outlet Temperature of 110°

Model Number	Max kW	75°	65°	55°	45°	35°
IR-30 POU Pro	3.4	-	.5	.6	.7	1.0
Full Replacement Warranty – 2 Year/5 Year/5Year						

Applications:

- Single Sink Point-Of-Use Applications
- Outdoor showers
- Outdoor kitchen sinks
- Campers, RV's and Boats

Features:

- Multiple Redundant High-Power Quartz Heating Elements
- Thermostatic Intelligent Temperature Controller
- Fully Modulating Power Control
- LED Temperature Outlet/Set Display
- No Dry Fire
- Compact Design for Space Saving
- Superior Energy Efficient (98%)
- Continuous Hot Water On-Demand
- Self-Cleaning Design for **MAINTENANCE FREE** Operations

Power Requirements and Specs:

- 100 AMP Service or Higher – Single Phase
- 30 AMP - 110 Volt – 30 AMP Circuit Breaker with #10 AWG Wire
- 11.5" x 9" x 2.75"



Complies with UL 499



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SioGreen Quartz Infrared Tankless Water Heaters

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SioGreen IR-260 POU Pro – Point of Use



All SioGreen Quartz Infrared Electric Tankless Water Heaters utilize the latest technology in Quartz Infrared heating elements to provide instant and continuous hot water. This small, portable unit can be used anywhere you have access to a water supply and electricity.

No metal heating elements that corrode and fail and it is **MAINTENANCE FREE!**

The **IR-260 POU Pro** uses 240 V – 30 Amp household circuit and 6.0 kW to heat the water faster. It has a maximum flow rate of 1.5 GPM (gallons per minute) and includes a gate valve. This product is recommended for use with a **single sink** only. **Do not use with a shower or multiple applications.**

Flow rates at various temperature rise – Outlet Temperature of 110°

Model Number	Max kW	75°	65°	55°	45°	35°
IR-260 POU Pro	6.0	.5	.8	1.0	1.2	1.5
Full Replacement Warranty – 2 Year/5 Year/5 Year						

Applications:

- Single Sink Point-Of-Use Applications
- Outdoor showers
- Outdoor kitchen sinks
- Campers, RV's and Boats

Features:

- Multiple Redundant High-Power Quartz Heating Elements
- Thermostatic Intelligent Temperature Controller
- Fully Modulating Power Control
- LED Temperature Outlet/Set Display
- No Dry Fire
- Compact Design for Space Saving
- Superior Energy Efficient (98%)
- Continuous Hot Water On-Demand
- Self-Cleaning Design for **MAINTENANCE FREE** Operations



Power Requirements and Specs:

- 100 AMP Service or Higher – Single Phase
- 30 AMP - 240 Volt – 30 AMP Double Pole Circuit Breaker with (2) #10 AWG Wire
- 11.5" x 9" x 2.75"



Complies with UL 499

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SioGreen Quartz Infrared Tankless Water Heaters

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SioGreen IR-288 POU Pro – Point of Use



The **SioGreen IR-288POU** is the ideal solution for water heating needs in Single Bath applications. This compact unit easily mounts on a wall, freeing up valuable storage space. No tanks...No pans...No vents...just attach the plumbing and electrical hook-ups for an endless supply of hot water on demand.

No metal heating elements that corrode and fail and it is **MAINTENANCE FREE!**

The **IR-288 POU Pro** uses 220 V – 40 Amp household circuit and 8.8 kW to heat the water faster. It has a maximum flow rate of 3.0 GPM (gallons per minute) and includes a gate valve. This product is recommended for use with a **single bath, kitchen and laundry**.

Flow rates at various temperature rise – Outlet Temperature of 110°

Model Number	Max kW	75°	65°	55°	45°	35°
IR-288 POU Pro	8.8	1.0	1.3	1.5	1.7	3.0
Full Replacement Warranty – 2 Year/5 Year/5 Year						

Applications:

- Mobile Homes/Manufactured Homes
- Single Bath House
- Pet Groomers and clinics
- Apartment/Condo
- Office and workplace
- Remote bathrooms in large homes

Features:

- Multiple Redundant High-Power Quartz Heating Elements
- Thermostatic Intelligent Temperature Controller
- Fully Modulating Power Control
- LED Temperature Outlet/Set Display
- No Dry Fire
- Compact Design for Space Saving
- Superior Energy Efficient (98%)
- Continuous Hot Water On-Demand
- Self-Cleaning Design for **MAINTENANCE FREE** Operations



Power Requirements and Specs:

- 120 AMP Service or Higher – Single Phase
- 40 AMP - 220 Volt – 40 AMP Double Pole Circuit Breaker with #8 AWG Wire
- 17.5" x 11.5" x 2.75"

Complies with UL 499



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SIOGREEN WARRANTY ADDENDUM

Model: IR-30 POU Pro/IR-260 POU Pro/IR-288 POU Pro

Effective March 1, 2022, the terms of the SioGreen Warranty is modified as follows:

TWO (2) YEAR BASIC REPLACEMENT LIMITED WARRANTY:

During the two (2) year warranty period beginning at the date the product was originally purchased, if Buyer submits a claim to Manufacturer, Manufacturer will replace the defective model with the same or equivalent model formed from new and/or previously used and/or refurbished parts that are equivalent to new in performance and reliability.

FIVE (5) YEAR LIMITED ELECTRONICS WARRANTY:

In addition to the basic two (2) year warranty, the Electronic PC Board portion of the product shall have an additional Three (3) year limited warranty beginning at the expiration of the above two year limited warranty. The Electronic PC Board as referred to herein shall mean the actual circuit board component only and does not include wiring harnesses or connectors. Under this additional warranty, Manufacturer will replace the defective Electronic PC Board should a repair be required. Manufacturer is not liable for any costs incurred by Owner, including, without limitation, the cost of any labor.

FIVE (5) YEAR LIMITED HEAT EXCHANGER WARRANTY:

In addition to the basic two (2) year warranty, the Heat Exchanger portion of the product shall have an additional Three (3) year limited warranty beginning at the expiration of the above two year limited warranty. The Heat Exchanger as referred to herein shall mean the body of the heat exchanger, including the composite plastic component parts attached to the body of the heat exchanger, and the Quartz Tube components. Under this additional warranty, Manufacturer will replace the defective Heat Exchanger should a repair be required. Manufacturer is not liable for any costs incurred by Owner, including, without limitation, the cost of any labor.

Manufacturer reserves the right to deny warranty coverage upon manufacturer's examination of unit.

All other Terms and Conditions remain in full force and effect.



SioGreen Quartz Infrared Tankless Water Heaters

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SioGreen SIO 18 Pro Flex – Multi-Bath



All SioGreen Quartz Infrared Electric Tankless Water Heaters utilize the latest technology in Quartz Infrared heating elements to provide instant and continuous hot water. **SIO 18 Pro Flex** is designed for **large house and condo applications and medium to large commercial installations.**

No metal heating elements that corrode and fail and it is **MAINTENANCE FREE!**

SIO 18 Pro Flex includes an installer controlled switchable setting to set the unit to an energy saving 14 kW or full power 18 kW. It is designed for multi bath homes and can support multiple showers in simultaneous use. The unit uses 220 V – 80 Amp household circuit and 18 kW to heat the water faster. It has a maximum flow rate of 4.6 GPM (gallons per minute).

Flow rates at various temperature rise – Outlet Temperature of 110°

Flex Mode	Max kW	75°	65°	55°	45°	35°
14 kW Mode	14	1.70	2.0	2.3	2.8	3.6
18 kW Mode	18	2.2	2.5	3.0	3.6	4.6

Full Replacement Warranty – 2 Year/5 Year/10 Year

Applications:

- Large Residential/Commercial
- Hybrid System with Storage Tank
- Hydronic Heating
- Hot Water Recirculation Loop
- Radiant Heating
- Solar Heating Backup

Features:

- Multiple Redundant High-Power Quartz Heating Elements
- Thermostatic Intelligent Temperature Controller
- Fully Modulating Power Control
- LED Temperature Outlet/Set Display
- No Dry Fire
- Internal Circuit Breaker Surge Protection
- Superior Energy Efficiency (98%)
- Continuous Hot Water On-Demand
- Self-Cleaning Design for **MAINTENANCE FREE** Operations



Power Requirements and Specs:

- 200 AMP Service or Higher – Single Phase
- 80 AMP - 220 Volt – (2) 40 AMP DP Circuit Breakers with (2) Pair #8 AWG Wires
- 20" x 14" x 6.5"

Tested and Certified to DOE CFR Title 10 Energy Standards
Conforms to NSF/ANSI/CAN STD 372

Complies with UL 499 CSA C22.2 No. 64-10 E212625



Listed with California Energy Commission

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SIOGREEN WARRANTY ADDENDUM

Model: SIO 18 PRO/SIO 18 PRO FLEX

Effective March 1, 2022, the terms of the SioGreen Warranty is modified as follows:

TWO (2) YEAR BASIC REPLACEMENT LIMITED WARRANTY:

During the two (2) year warranty period beginning at the date the product was originally purchased, if Buyer submits a claim to Manufacturer, Manufacturer will replace the defective model with the same or equivalent model formed from new and/or previously used and/or refurbished parts that are equivalent to new in performance and reliability.

FIVE (5) YEAR LIMITED ELECTRONICS WARRANTY:

In addition to the basic two (2) year warranty, the Electronic PC Board portion of the product shall have an additional Three (3) year limited warranty beginning at the expiration of the above two year limited warranty. The Electronic PC Board as referred to herein shall mean the actual circuit board component only and does not include wiring harnesses or connectors. Under this additional warranty, Manufacturer will replace the defective Electronic PC Board should a repair be required. Manufacturer is not liable for any costs incurred by Owner, including, without limitation, the cost of any labor.

TEN (10) YEAR LIMITED HEAT EXCHANGER WARRANTY:

In addition to the basic two (2) year warranty, the Heat Exchanger portion of the product shall have an additional Eight (8) year limited warranty beginning at the expiration of the above two year limited warranty. The Heat Exchanger as referred to herein shall mean the body of the heat exchanger, including the composite plastic component parts attached to the body of the heat exchanger, and the Quartz Tube components. Under this additional warranty, Manufacturer will replace the defective Heat Exchanger should a repair be required. Manufacturer is not liable for any costs incurred by Owner, including, without limitation, the cost of any labor.

Manufacturer reserves the right to deny warranty coverage upon manufacturer's examination of unit.

All other Terms and Conditions remain in full force and effect.