



HYDRONIC HEAT (SH)

MICROPROCESSOR FLOW & TEMPERATURE CONTROL

ELECTRIC TANKLESS WATER HEATERS

| One Chamber | | kW | AMPS | Wire | Breaker | Qty. | BTU |
|------------------------|---------|------|------|--------|---------|------|--------|
| Model | Voltage | | | cu AWG | Amps | | |
| <u>240 Volt</u> | | | | | | | |
| SH-35-240 | 240 | 3.5 | 14.6 | 14 | 20 | 1 | 11,953 |
| | 208 | 2.6 | 12.6 | 14 | 20 | 1 | 8,964 |
| SH-55-240 | 240 | 5.5 | 22.9 | 10 | 30 | 1 | 18,783 |
| | 208 | 4.1 | 19.8 | 12 | 25 | 1 | 14,087 |
| SH-70-240 | 240 | 7.0 | 29.2 | 8 | 40 | 1 | 23,905 |
| | 208 | 5.3 | 25.2 | 8 | 40 | 1 | 17,929 |
| SH-140-240 | 240 | 14.0 | 58.3 | 8 | 40 | 2 | 47,810 |
| | 208 | 10.5 | 50.5 | 8 | 40 | 2 | 35,858 |
| <u>277 Volt</u> | | | | | | | |
| SH-40-277 | 277 | 4.0 | 14.4 | 14 | 20 | 2 | 13,660 |
| SH-60-277 | 277 | 6.0 | 21.7 | 10 | 30 | 2 | 20,490 |
| SH-73-277 | 277 | 7.0 | 25.3 | 8 | 40 | 2 | 23,905 |

* Maximum recommended wire size is #6 cu AWG - Use conductors rated for 75°C or greater

FEATURES:

- Digital microprocessor control provides precise temperature and flow control without flicker or other power quality issues
- Activates at less than 0.30 GPM - Saves energy and water: Activates only on demand
- UL listed and tested to UL499 Appliance and more stringent UL834 Space Heating standard
- Control tested by UL to meet temperature limit control requirements of UL 353 and CSA C22.2
- Standard ¾" NPT plumbing connections with no flow restrictions
- Compatible with all plumbing designs including recirculation, tubing and manifold systems
- Uses field-replaceable immersion heating elements
- Dry-Fire Protection – cannot dry fire elements
- Self-diagnostics including leak detection shut-down and Water level detect – No more heating element burnout
- Constructed of DuPont Engineering Polymers for strength and reduction of scaling potential
- UL Listed and certified to ANSI 61 and 372 to meet or exceed all current lead in drinking water requirements
- Five Year Limited Warranty (See written warranty for complete details)



HYDRONIC HEAT (SH)

MICROPROCESSOR FLOW & TEMPERATURE CONTROL

ELECTRIC TANKLESS WATER HEATERS

| 240 Volt Single Phase | | | Wire | Breaker | | | |
|---------------------------|---------|------|-------|---------|------|------|--------|
| Model | Voltage | kW | AMPS | cu AWG | Amps | Qty. | BTU |
| <u>Two Chamber</u> | | | | | | | |
| SH-05-2 | 240 | 5.0 | 20.8 | 10 | 30 | 1 | 17,075 |
| | 208 | 3.8 | 18.0 | 12 | 25 | 1 | 12,806 |
| SH-07-2 | 240 | 7.0 | 29.2 | 8 | 40 | 1 | 23,905 |
| | 208 | 5.3 | 25.2 | 8 | 40 | 1 | 17,929 |
| SH-09-2 | 240 | 9.0 | 37.5 | 6 | 50 | 1 | 30,735 |
| | 208 | 6.8 | 32.5 | 6 | 50 | 1 | 23,051 |
| SH-11-2 | 240 | 11.0 | 45.8 | * | 60 | 1 | 37,565 |
| | 208 | 8.3 | 39.7 | 6 | 50 | 1 | 28,174 |
| SH-18-240 | 240 | 18.0 | 75.0 | 6 | 50 | 2 | 61,470 |
| | 208 | 13.5 | 64.9 | 6 | 50 | 2 | 46,103 |
| SH-22-240 | 240 | 22.0 | 91.7 | * | 60 | 2 | 75,130 |
| | 208 | 16.5 | 79.3 | 6 | 50 | 2 | 56,348 |
| SH-28-240 | 240 | 28.0 | 116.7 | 8 | 40 | 4 | 95,620 |
| | 208 | 21.0 | 101.0 | 8 | 40 | 4 | 71,715 |

* Maximum recommended wire size is #6 cu AWG - Use conductors rated for 75°C or greater

FEATURES:

- Digital microprocessor control provides precise temperature and flow control without flicker or other power quality issues
- Activates at less than 0.30 GPM - Saves energy and water: Activates only on demand
- UL listed and tested to UL499 Appliance and more stringent UL834 Space Heating standard
- Control tested by UL to meet temperature limit control requirements of UL 353 and CSA C22.2
- Standard ¾" NPT plumbing connections with no flow restrictions
- Compatible with all plumbing designs including recirculation, tubing and manifold systems
- Uses field-replaceable immersion heating elements
- Dry-Fire Protection – cannot dry fire elements
- Self-diagnostics including leak detection shut-down and Water level detect – No more heating element burnout
- Constructed of DuPont Engineering Polymers for strength and reduction of scaling potential
- UL Listed and certified to ANSI 61 and 372 to meet or exceed all current lead in drinking water requirements
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HYDRONIC HEAT (SH)

MICROPROCESSOR FLOW & TEMPERATURE CONTROL

ELECTRIC TANKLESS WATER HEATERS

| 240 Volt Single Phase | | | | Wire | Breaker | | |
|----------------------------|---------|------|-------|--------|---------|------|--------|
| Model | Voltage | kW | AMPS | cu AWG | Amps | Qty. | BTU |
| <u>Four Chamber</u> | | | | | | | |
| SH-14-4 | 240 | 14.0 | 58.3 | 10 | 40 | 2 | 47,810 |
| | 208 | 10.5 | 50.5 | 12 | 40 | 2 | 35,858 |
| SH-18-4 | 240 | 18.0 | 75.0 | 8 | 60 | 2 | 61,470 |
| | 208 | 13.5 | 64.9 | 8 | 50 | 2 | 46,103 |
| SH-22-4 | 240 | 22.0 | 91.7 | 6 | 70 | 2 | 75,130 |
| | 208 | 16.5 | 79.3 | 8 | 60 | 2 | 56,348 |
| SH-28-4 | 240 | 28.0 | 116.7 | * | 80 | 2 | 95,620 |
| | 208 | 21.0 | 101.0 | 12 | 40 | 4 | 71,715 |

** Maximum recommended wire size is #6 cu AWG - Use conductors rated for 75°C or greater*

FEATURES:

- Digital microprocessor control provides precise temperature and flow control without flicker or other power quality issues
- Activates at less than 0.30 GPM - Saves energy and water: Activates only on demand
- UL listed and tested to UL499 Appliance and more stringent UL834 Space Heating standard
- Control tested by UL to meet temperature limit control requirements of UL 353 and CSA C22.2
- Standard ¾" NPT plumbing connections with no flow restrictions
- Compatible with all plumbing designs including recirculation, tubing and manifold systems
- Uses field-replaceable immersion heating elements
- Dry-Fire Protection – cannot dry fire elements
- Self-diagnostics including leak detection shut-down and Water level detect – No more heating element burnout
- Constructed of DuPont Engineering Polymers for strength and reduction of scaling potential
- UL Listed and certified to ANSI 61 and 372 to meet or exceed all current lead in drinking water requirements
- Ten Year Limited Warranty (See written warranty for complete details)



HYDRONIC HEAT (SH)

MICROPROCESSOR FLOW & TEMPERATURE CONTROL

Specifications:

| | 1CH | 2CH | 4CH |
|--------|-------------------|------------------|-------------------|
| Weight | 9 lbs. (4 kg) | 15 lbs. (7.0 kg) | 23 lbs. (10.4 kg) |
| Height | 7 1/2" (190.5 mm) | 16 1/8" (410mm) | 16 1/8" (410mm) |
| Width | 15" (381.0 mm) | 10 7/8" (276mm) | 15 3/4" (400 mm) |
| Depth | 6 1/2" (165.1 mm) | 6 1/4" (159 mm) | 6 1/4" (159 mm) |

Fittings: 3/4"NPT

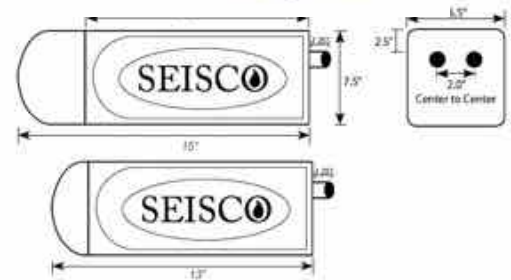
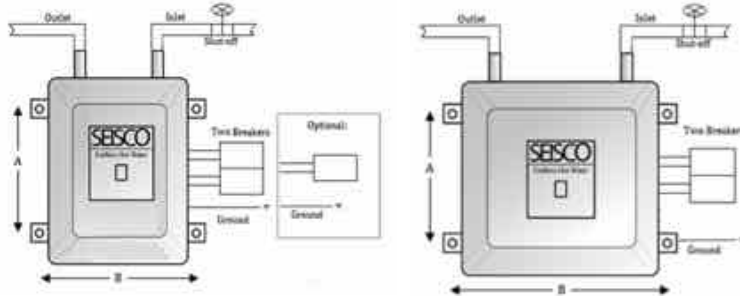
Power: 208-240V, 50/60Hz

Thermal Efficiency: 96%+

Temp. Output (dial): 90°F to 140°F (32°C – 60°C)

Factory Temp Setting: 120°F (49°C)

**Contact Seisco for custom temperature settings*



SUGGESTED WRITTEN SPECIFICATION

Seisco tankless water heater model _____ as manufactured by Seisco International, shall have a 5-year limited warranty. Heater shall have a rated input of _____ kW at _____ Volts. Heater shall be UL listed and tested to UL 499 Small Appliance standard *and* more stringent UL 834 Space Heating/Small Boiler standard and meet both NSF/ANSI 61 and 372. Electrical control of the heater must be accomplished using an integrated microprocessor that uses thermistors for sensing both temperature and flow without a mechanical flow switch. Heater shall use standard tank-style immersion heating elements. Internal piping and water path through heater must not reduce smaller than the external fittings or restrict flow. Heaters shall include water level sensing and temperature control via the microprocessor. Automatic high temperature shutoff shall be accomplished using its control tested by UL to meet the temperature limit control requirements of UL 353 and CSA C22.2. Heaters shall have built-in self-diagnostics with an LED and speaker and must visually and audibly signal the status of all monitored functions. Heaters shall have built-in water leak detection with automatic heating shutdown. Heater must have easy clean-out access for removing sediment.

**Limited Warranty-See written warranty for details.*

JOB SUBMITTAL FORM:

Engineer/Architect: _____

Date: _____

Job Name/Customer: _____

Phone: _____

Location: _____

Date Required: _____

Contractor: _____

Phone: _____

Water Heater Specifications:

Item: _____ Qty.: _____ kW: _____ Voltage: _____ Amperage: _____



HYDRONIC HEAT (SH)

MICROPROCESSOR FLOW & TEMPERATURE CONTROL



APPLICATIONS:

Ideal for use in residential and commercial applications for hydronic space heating and residential water heating. Suited for radiant floor heating, baseboard, hydro-heat pump and snow melting systems. With optional equipment, it can be used as a single heat source in combination systems for residential hot water and radiant heating. Designed as whole house alternative to traditional tank type water heaters or for use as supplement to renewable energy systems including solar and geothermal. *Visit Seisco.com for more information.*

Seisco founder and CEO, David Seitz spent over 30 years in real estate financing, development and construction. Seisco has been in business through a succession that began in 1986. Its first patent was filed in 1993 and followed by a strategic relationship with DuPont in 1994 that continues today.

Seisco was the first electric tankless to be recognized as a suitable replacement for a storage tank heater, the first tankless water heater to be accepted under HUD regulations for manufactured housing and over a period of 9 years received very special recognition from several federal government agencies including PATH; HUD; The NAHB research center; the National Renewable Energy Lab (NREL); the TVA; the DOE and EPRI. Seisco was recently chosen as the water heating partner for the new \$6.8 billion Midfield Terminal Complex at the Abu Dhabi Airport.

Seisco manufactures its tankless products at its factory in Houston, Texas from content sourced primarily from US suppliers with final assembly under NAFTA at its plant in Guadalajara, Mexico qualifying them as a "Buy American" product.

Visit Seisco.com for more information.



HYDRONIC HEAT (SH)

MICROPROCESSOR FLOW & TEMPERATURE CONTROL

TYPICAL SYSTEM DESIGN

