Whole House Tankless
Residential Electric Water Heater
RA- 5, 7, 9, 11, 14, 18, 22, 28 & 32-KW Models

10-Year Limited Warranty*

Chamber and Parts

Features & Benefits

High Efficiency Compact Design Provides Unlimited Hot Water-Residential models provide unlimited hot water while operating within their designed gallons per minute range, immediately heating water when a hot water outlet is opened. Seisco models install inside closets, or on almost any wall. Water is only heated on demand, virtually eliminating standby heat loss and providing over 99% efficiency.

Microprocessor Control-On-board computer logic controls temperature through a modified proportional, integral, derivative (PID) control scheme. The control also provides self-diagnostics, alerts the homeowner in case of a water leak inside the heater, incorporates optional off-peak metering capabilities for local utilities, and intelligently controls power distribution to the heating elements while continuously monitoring critical functions in order to shut down the water heater if a failure occurs.

PowerShare™ Technology-Patented power distribution control technology utilizes computer algorithms and electronic triacs with patented cooling technology to pulse power on and off to all heating elements resulting in uniform temperature modulation between 1-100% of the element’s range. PowerShare along with constantly flowing water across heating elements ensure that heating elements operate at the lowest possible temperature. When the elements are turned off, low sheath temperature prevents boiling minerals out of the water causing buildup on the heating elements, prolonging element life. PowerShare also eliminates electrical disturbances in the home from the water heater, such as flickering lights.

Thermistor Temperature Sensing-Five thermistors continuously monitor inlet/outlet water temperature and the water temperature in each heating element chamber. Outlet water temperature is factory set to 120°F and is field adjustable between 90-130°F. In addition, water flow is sensed using the same thermistors, eliminating the need for troublesome flow switches.

Heating Elements-Industry standard 1 ½” hex head, direct immersion, heating elements utilize PowerShare technology to help eliminate scale build-up and prolong element life far beyond that of tank type water heaters. If an element fails, a replacement can be purchased from virtually any plumbing distributor.

Redundant Safety Features-Two water level sensors are located at the top of the water heater’s chambers to prevent powering on the heating elements if sufficient water is not detected inside the water heater. In addition, two safety cutoff switches, one manual and one automatic reset, shut down power to the heating elements should an unsafe condition occur.

Built-in Leak Detector and Alarm-A switch located inside the water heater’s cover along the bottom of the mounting plate activates an alarm when contacted by water.

Code Approvals-UL/CUL 499/64, HUD Mobile Home, ISRAEL, NOM, and NEC. Hydrostatically tested to 300 psi.

*Limited Warranty—See written warranty for details.

For Additional Features See Inside Page
Do You Know?
- A standard 40-gallon tank type electric water heater has a first hour rating of approximately 50-54 gallons at a 90°F rise....Seisco RA-28 is rated at 127 gallons at a 90°F rise!
- Independent data from an electric utility company shows that in a 127 unit senior living facility Seisco RA-28s in every unit, peak electrical KW usage per unit was less than 1KW!
- One RA-28 can provide more than enough unlimited hot water for a 2.5 gpm shower (103°F) with 40°F inlet temperature...or two showers with an inlet water temperature of 65°F...or three showers with an inlet water temperature of 85°F!
- Seisco models virtually eliminate standby heat loss and are over 99% efficient compared to industry standard 40-gallon electric water heaters rated at about 92%. A standard 40-gallon tank type electric water heater loses about 2% of its stored energy to the surrounding environment every hour!
- The average home wastes approximately 6,000 - 10,000 gallons of water every year waiting for hot water to reach the faucet! Seisco can help eliminate wasted water by being located closer to hot water outlets and through special control logic.

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Do You Know?
- With 55°F inlet water and 135°F stored water, a 50-gallon electric water heater can fill a 50-gallon jetted tub in 10 minutes, 2 hours later it can refill the tub....a Seisco RA-28 can fill the same tub in 13 minutes, and another one in the next 13 minutes, and another one in the next 13 minutes, etc., forever!
- Residential peak demand for heating water occurs in the morning before commercial and industrial electricity usage pushes the electric utility's capacity limits!
- Standard tank type gas water heaters lose up to 5% of their energy every hour due to standby heat loss.
- The most common failure mode for tank type electric water heaters is heating element failure...Seisco's design prolongs the life of heating elements through the use of PowerShare™ technology, greatly reducing scale formation, the cause of virtually every failure in heating elements.
- The cost of professionally replacing a heating element in a tank type water heater can easily exceed $150...Seisco reduces the cost of repairs by prolonging element life and eliminating a large tank to drain as part of the service call.

Four Chamber Design-Inside View

1. Cold Water Inlet
2. Hot Water Outlet
3. Heating Elements
4. Microprocessor
5. Thermistor Temperature Sensors
6. Safety Cutout Switches
7. Temperature Control Knob
8. Off Peak Control Connection
9. Water Leak Detector
10. Cleanout Plates
11. LED Indicator Light
12. Speaker
13. Service Button
14. Power Lugs
15. Triacs
16. 3/4” Conduit Connections
17. Non-Ferrous Water Passages
18. Heavy Gauge Steel Mounting Panel

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Suggested Written Specification

Residential electric water heater(s) shall be Seisco tankless water heater model __________ as manufactured by Seisco International Limited, or an approved equal and shall have a 10-year limited warranty* when installed in a residential application. Heater(s) shall have a rated input of ___ KW at 240 Volts. Electrical control of the heater must be accomplished using an integrated microprocessor that employs a proportional/integral/derivative (PID) control scheme using thermostats for sensing temperature and flow. Heating elements must use PowerShare technology to simultaneously vary KW input across all heating elements from 1% to maximum input. Stepping individual elements on and off at full power is not acceptable. Flow switches that restrict the flow of water in any way are not acceptable. (Optional-Heater(s) shall include an electrical connection for off-peak control by local utility companies.) Heater(s) shall have a built-in water leak detector. All water passages must be constructed of a high temperature resistant DuPont® resin. Clean-cut access for removing sediment must be provided without removing plumbing connections or exposing electrical components of the water heater. Heater(s) must be UL/CUL 499, CSA, NSF, HUD Mobile Home, ISRAEL, NOM, and NEC approved.

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

Written specifications subject to change without notice.

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