



The new degree of comfort.™



Commercial Electric  
Surface Mounted  
Heavy Duty Water Heaters

## Surface Mounted EGS Series Heavy Duty electric commercial water heaters are available in 50 through 120 gallon capacities

### Features & Benefits

- 50, 85 and 120 gallon model can be shipped to your location in just a few days
- Ideal for general commercial use and point-of-use applications like eyewash stations, or used as a booster
- Inputs: 6 through 54 kW
- Voltages: 208 or 240 VAC in either single phase or 3-phase; 600 VAC 3-phase
- Element wattages: 2000, 3000, 4000, 5000 and 6000 in the 3 voltages
- Choose 3, 6 or 9 element models for your specific application
- Elements are Lifeguard™ stainless steel, screw-in type that resist burn out and corrosion
- Two anode rods are installed to ensure long life and corrosion resistance

### Efficiency

- 98% thermal efficiency
- Thick foam insulation for minimal standby heat loss

### Performance

- Recovery rate: Up to 223 gallons GPH at a 100 degree rise
- 160° F maximum delivered temperature

### Capacity & Shipping Weight

- 50 Gal/270 lbs.
- 85 Gal/350 lbs.
- 120 Gal/430 lbs.

### Easy Installation & Service

- Control box is located at the front of unit for easy wiring during installation – Multiple knockout holes accommodate a variety of conduit sizes
- **Exclusive!** Full-port, full-flow, brass drain valve for faster draining
- Minimum distance to combustible is zero inches from jacket and 18 inches from access door
- All models approved for installation on combustible flooring

### Plus

- Temperature and pressure relief valve at side on all models
- Water connections: hot and cold water inlets are 1-1/2" NPT dielectric nipples on all models

### Warranty

3-Year limited tank warranty, 1-year limited parts warranty

See Commercial Warranty Certificate for complete information.

**Efficiency** | These models have been tested according to DOE test procedures, and exceed the minimum energy factor requirements of current ASHRAE 90.1b Standard (Part of the federally mandated Energy Policy Act (EPAct)).

**Safety and Construction** | Safety and Construction: These products are design certified by CSA to meet CAN/CSA C22.2 No. 110-M90 construction and test standard. **Certified for a 150 PSI Maximum Working Pressure.**



**Rheem-Ruud Heavy Duty**  
50, 85 & 120-Gallon  
Capacities  
ASME Construction Option  
3-Year Limited Warranty  
Electric



(With  
Optional  
Seal Kit)



INTEGRATED AIR & WATER

**ELECTRICAL CHARACTERISTICS**

| INPUT KW | NO. OF ELEMENTS | ELEMENT WATTAGE | FULL LOAD CURRENT IN AMPERES |     |       |     |       |  |
|----------|-----------------|-----------------|------------------------------|-----|-------|-----|-------|--|
|          |                 |                 | 208V                         |     | 240V  |     | 600V  |  |
|          |                 |                 | Phase                        |     | Phase |     | Phase |  |
|          |                 |                 | 1                            | 3   | 1     | 3   | 3     |  |
| 6        | 3               | 2000            | 29                           | 17  | 25    | 14  | N/A   |  |
| 9        | 3               | 3000            | 43                           | 25  | 38    | 22  | 9     |  |
| 12       | 3               | 4000            | 58                           | 33  | 50    | 29  | 12    |  |
| 15       | 3               | 5000            | 72                           | 42  | 63    | 36  | 15    |  |
| 18       | 3               | 6000            | 87                           | 50  | 75    | 43  | 18    |  |
| 24       | 6               | 4000            | 116                          | 67  | 100   | 58  | 23    |  |
| 30       | 6               | 5000            | 144                          | 84  | 125   | 73  | 29    |  |
| 36       | 6               | 6000            | 173                          | 100 | 150   | 87  | 35    |  |
| 45       | 9               | 5000            | 217                          | 125 | 188   | 109 | 43    |  |
| 54       | 9               | 6000            | 260                          | 150 | 225   | 130 | 52    |  |

**RECOVERY CAPACITIES** Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temperature Rises

| INPUT KW | EQUIVALENT BTU/HR. | UNITS | 40°F (22°C) | 50°F (28°C) | 60°F (33°C) | 70°F (39°C) | 80°F (45°C) | 90°F (50°C) | 100°F (56°C) | 110°F (61°C) | 120°F (67°C) | 130°F (72°C) | 140°F (78°C) |
|----------|--------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 6        | 20,473             | GPH   | 62          | 50          | 41          | 35          | 31          | 28          | 25           | 23           | 21           | 19           | 18           |
|          |                    | LPH   | 235         | 188         | 157         | 134         | 117         | 104         | 94           | 85           | 78           | 72           | 67           |
| 9        | 30,709             | GPH   | 93          | 74          | 62          | 53          | 47          | 41          | 37           | 34           | 31           | 29           | 27           |
|          |                    | LPH   | 352         | 282         | 235         | 201         | 176         | 157         | 141          | 128          | 117          | 108          | 101          |
| 12       | 40,946             | GPH   | 124         | 99          | 83          | 71          | 62          | 55          | 50           | 45           | 41           | 38           | 35           |
|          |                    | LPH   | 470         | 376         | 313         | 268         | 235         | 209         | 188          | 171          | 157          | 145          | 134          |
| 15       | 51,183             | GPH   | 155         | 124         | 103         | 89          | 78          | 69          | 62           | 56           | 52           | 48           | 44           |
|          |                    | LPH   | 587         | 470         | 391         | 335         | 294         | 261         | 235          | 213          | 196          | 181          | 168          |
| 18       | 61,420             | GPH   | 186         | 149         | 124         | 106         | 93          | 83          | 74           | 68           | 62           | 57           | 53           |
|          |                    | LPH   | 705         | 564         | 470         | 403         | 352         | 313         | 282          | 256          | 235          | 217          | 201          |
| 24       | 81,893             | GPH   | 248         | 199         | 165         | 142         | 124         | 110         | 99           | 90           | 83           | 76           | 71           |
|          |                    | LPH   | 939         | 751         | 626         | 537         | 470         | 417         | 376          | 342          | 313          | 289          | 268          |
| 30       | 102,366            | GPH   | 310         | 248         | 207         | 177         | 155         | 138         | 124          | 113          | 103          | 95           | 89           |
|          |                    | LPH   | 1174        | 939         | 783         | 671         | 587         | 522         | 470          | 427          | 391          | 361          | 335          |
| 36       | 122,839            | GPH   | 372         | 298         | 248         | 213         | 186         | 165         | 149          | 135          | 124          | 115          | 106          |
|          |                    | LPH   | 1409        | 1127        | 939         | 805         | 705         | 626         | 564          | 512          | 470          | 434          | 403          |
| 45       | 153,549            | GPH   | 465         | 372         | 310         | 266         | 233         | 207         | 186          | 169          | 155          | 143          | 133          |
|          |                    | LPH   | 1761        | 1409        | 1174        | 1006        | 881         | 783         | 705          | 640          | 587          | 542          | 503          |
| 54       | 184,259            | GPH   | 558         | 447         | 372         | 319         | 279         | 248         | 223          | 203          | 186          | 172          | 160          |
|          |                    | LPH   | 2114        | 1691        | 1409        | 1208        | 1057        | 939         | 845          | 769          | 705          | 650          | 604          |

| WATER TEMPERATURE RATINGS |               |        |                 |                               |                               |                        |
|---------------------------|---------------|--------|-----------------|-------------------------------|-------------------------------|------------------------|
| MODEL NUMBER              | TANK CAPACITY |        | THERMOSTAT TYPE | MINIMUM DELIVERED TEMPERATURE | MAXIMUM DELIVERED TEMPERATURE | HIGH TEMPERATURE LIMIT |
|                           | GALLONS       | LITERS |                 |                               |                               |                        |
| EGS50                     | 50            | 189    | Surface         | 90°F                          | 160°F                         | 180°F                  |
|                           |               |        |                 | 32.2°C                        | 71.1°C                        | 82.2°C                 |
| EGS85                     | 85            | 322    | Surface         | 120°F                         | 160°F                         | 190°F                  |
|                           |               |        |                 | 48.8°C                        | 71.1°C                        | 87.8°C                 |
| EGS120                    | 119.9         | 454    | Surface         | 120°F                         | 160°F                         | 190°F                  |
|                           |               |        |                 | 48.8°C                        | 71.1°C                        | 87.8°C                 |

| MODEL NUMBERS |                             |            |             |
|---------------|-----------------------------|------------|-------------|
| INPUT KW      | SURFACE MOUNTED THERMOSTATS |            |             |
|               | TANK CAPACITY IN GALLONS    |            |             |
|               | 50                          | 85         | 120         |
| 6             | EGS50-6-G                   | EGS85-6-G  | EGS120-6-G  |
| 9             | EGS50-9-G                   | EGS85-9-G  | EGS120-9-G  |
| 12            | EGS50-12-G                  | EGS85-12-G | EGS120-12-G |
| 15            | EGS50-15-G                  | EGS85-15-G | EGS120-15-G |
| 18            | EGS50-18-G                  | EGS85-18-G | EGS120-18-G |
| 24            | EGS50-24-G                  | EGS85-24-G | EGS120-24-G |
| 30            | EGS50-30-G                  | EGS85-30-G | EGS120-30-G |
| 36            | EGS50-36-G                  | EGS85-36-G | EGS120-36-G |
| 45            | N/A                         | EGS85-45-G | EGS120-45-G |
| 54            | N/A                         | EGS85-54-G | EGS120-54-G |

**Temperature and Pressure Relief Valve** – CSA/ASME rated and factory installed.

**Electrical Connections** – pre-wired, accessible control box with multiple knock-outs on side in size selections to match the National Electric Code. Sizes range from 1/2" to 2-1/2". A grounding screw is provided for attaching an equipment grounding conductor.

**Terminal Block** – all models are equipped with U.L. listed terminal blocks for simplicity of installation. The terminal block will accept either copper or aluminum field connect wire.

**240 Volt Control Circuit** – all units are furnished with a fused 240 volt control circuit. All controls (thermostats, high temperature limit, etc.) are operated off of this basic 240 volt control circuit.

**Water Connections** – hot outlet and cold inlet for the 50, 85 & 120 gallon capacity models are 1-1/2" NPT dielectric nipples which prevent excessive turbulence of heated water and results in optimum tank draw.

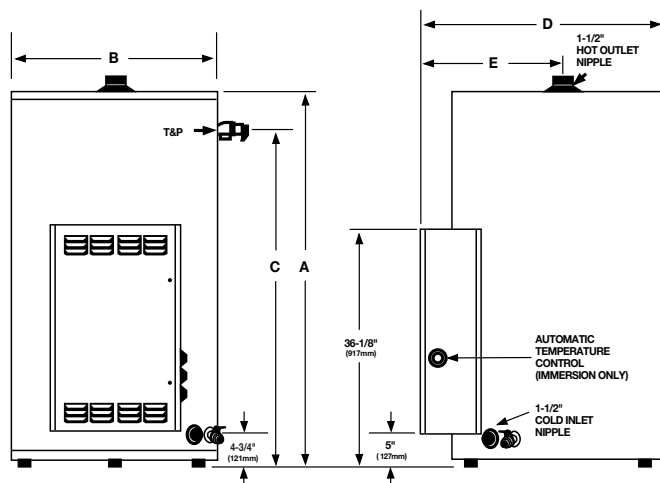


The new degree of comfort.™



Commercial Electric  
Surface Mounted  
Heavy Duty Water Heaters

| DIMENSIONAL INFORMATION All dimensions shown in English and Metric |        |          |        |        |     |     |                             |
|--------------------------------------------------------------------|--------|----------|--------|--------|-----|-----|-----------------------------|
| MODEL NUMBER                                                       | UNITS  | A        | B      | C      | D   | E   | APPROXIMATE SHIPPING WEIGHT |
| EGS50                                                              | inches | 43-5/8   | 26-1/4 | 36-1/4 | 32  | 19  | 270 lbs.                    |
|                                                                    | mm     | 1108     | 667    | 920    | 813 | 483 | 122 kgs.                    |
| EGS85                                                              | inches | 57-11/16 | 28-1/4 | 49-1/2 | 34  | 20  | 350 lbs.                    |
|                                                                    | mm     | 1465     | 718    | 1258   | 864 | 508 | 159 kgs.                    |
| EGS120                                                             | inches | 67-5/8   | 30-1/4 | 58-3/4 | 36  | 21  | 430 lbs.                    |
|                                                                    | mm     | 1718     | 768    | 1493   | 914 | 533 | 185 kgs.                    |



## Recommended Specifications (for trade reference only)

Water heater(s) shall be model \_\_\_\_\_, manufactured by Rheem-Ruud, having electrical input of \_\_\_\_\_ kW and a recovery rate of \_\_\_\_\_ GPH at a 100°F temperature rise. Water heater(s) shall have a storage capacity of \_\_\_\_\_ gallons. Water heater(s) shall have the CSA seal of certification and be factory equipped with an CSA/ASME rated temperature and pressure relief valve. Tank(s) shall have a double coating of high temperature porcelain enamel and furnished with magnesium anode rods

rigidly supported. Water heater(s) shall meet or exceed the standby loss requirements of ASHRAE. Tank(s) shall have a working pressure of 150 psi, and shall be completely assembled. Water heater(s) shall be equipped with stainless steel "screw-in" type elements. Tank shall be insulated with thick polyurethane foam insulation. Water heater(s) shall be provided with magnetic contactors, 240 volt control circuit transformer and surface mounted with manual reset high limit control. 1-1/2" inlet and outlet water connections for 50 through 120 gallon models shall be provided. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

*In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.*

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1  
Brampton, Ontario L6Y 0P5 • [www.rheem.com](http://www.rheem.com)



INTEGRATED AIR & WATER