



R32 Hombask
Hybrid Electric Heat Pump Water Heater

ECO-FRIENDLY



Drinking Water System
Components - Lead Content
[NSF/ANSI/CAN 372:2024]



- **The Smarter Refrigerant: R32**

Superior Eco-Profile: GWP of 675 is less than half that of R134a (GWP 1430), significantly reducing environmental impact.

Enhanced Efficiency: Higher latent heat enables more effective heat transfer for better performance.

- **Less Refrigerant Used**

Charge volume is reduced by **40%** compared with conventional refrigerant

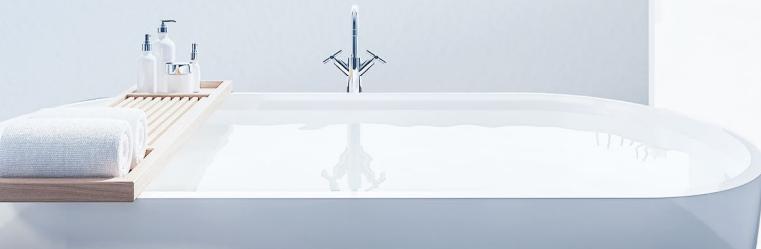


Note: Comparison based on 50-gallon model specifications

ENERGY-SAVING

• Compressor Dedicated for R32 Heat Pump

- High-Efficiency PM Motor with low torque ripple. Reinforced discharge valve: 20% higher impact fatigue strength.
- Diamond-Like Coating (DLC) on sliding vane: 2x harder surface.
- Robust pump body: 35% less deformation for stable, long-life performance.



• Maximum Heat, Minimum Space

■ Triple-Efficiency Heat Transfer

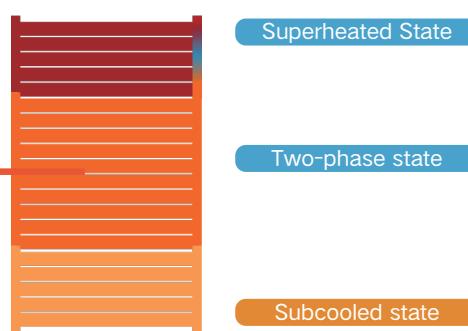
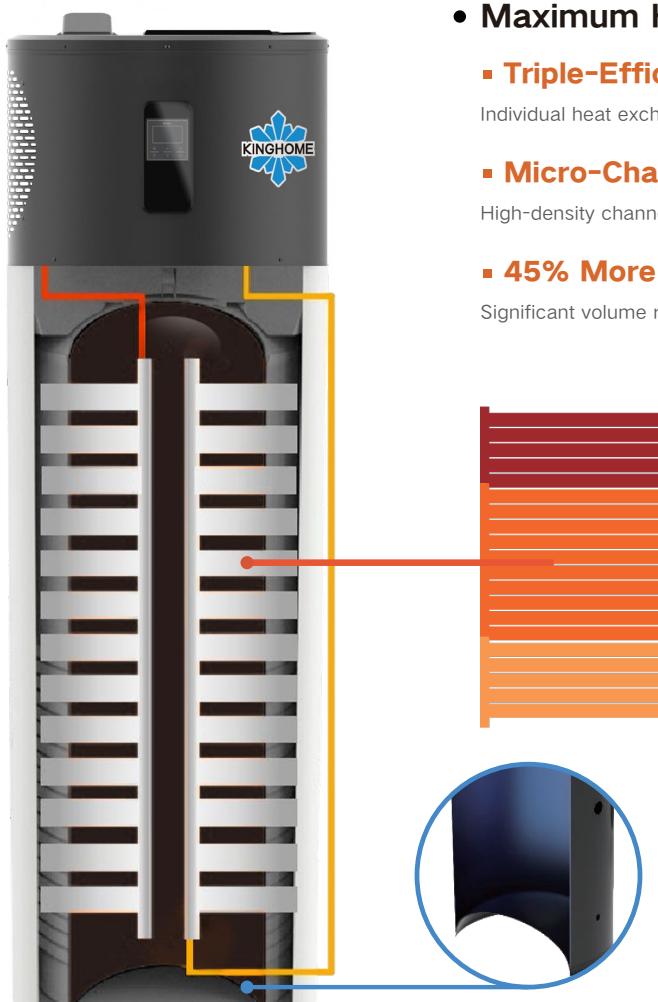
Individual heat exchange for superheated, two-phase, and subcooled refrigerant

■ Micro-Channel Technology

High-density channels maximize heat transfer efficiency

■ 45% More Compact

Significant volume reduction versus standard copper tube systems



• Domed Tank Bottom

■ Convex Design

Eliminates stagnant cold water

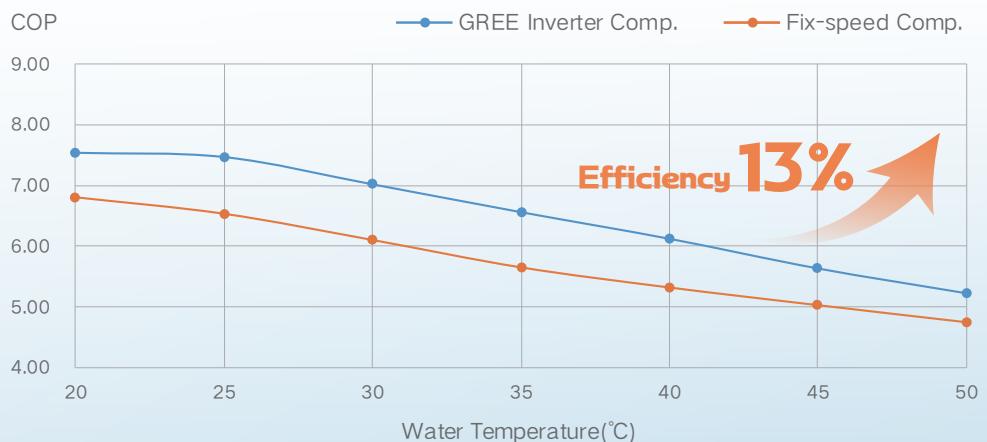
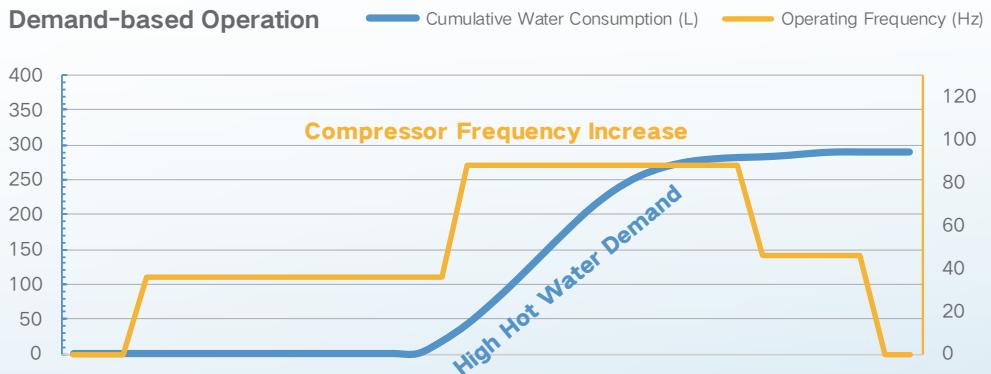
■ +15% FHR

Delivers more usable hot water per cycle

• Intelligent Compressor, Unbeatable Efficiency

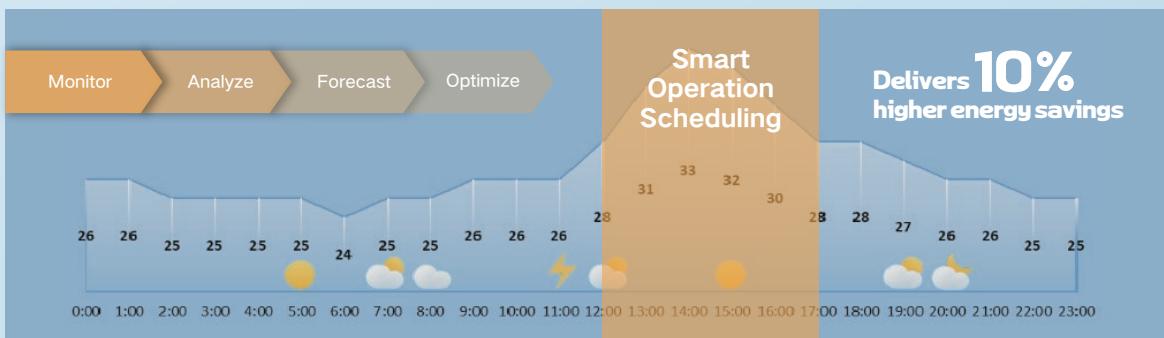
Demand-Based Operation:

- Optimizes frequency for the perfect balance of power and efficiency.
- Boosted Heating: Automatically activates high-capacity mode during heavy use.
- 13% More Efficient: Superior energy savings compared to fixed-speed units.



• Intelligent Energy-Saving

Thanks to self-learning and self-forecasting functions, the intelligent operation is more energy-saving.



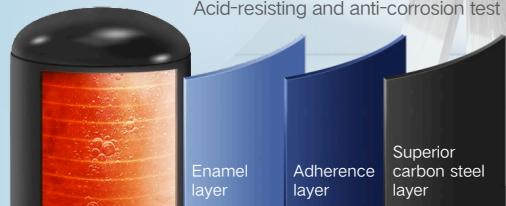
RELIABLE & SAFE

- Crafted by **850°C**

Sintering forms a dense, pristine enamel surface

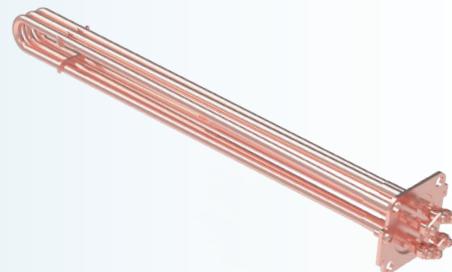
1080h

Acid-resisting and anti-corrosion test



- Long-life, Scale-Resisting Heater

Incoloy 825 elements with optimized surface load.



- Comprehensive Safety

Triple-Layer Insulation: Prevents electrical contact with moisture

Featuring: dry-fire, overpressure, overflow, leak, and auto-diagnosis protections.



- 70°C Auto-Sanitize

Programmable cycle eliminates harmful bacteria like *Staphylococcus aureus* and *Escherichia coli*



- Critical Hazard Prevention

Sealed potential ignition source & isolated design



Relay



Electrical control enclosure



Thermostat

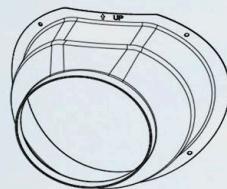
CONVENIENT

Enjoy Convenient and Comfortable Life

- Easy Installation



Air inlet duct
adapter(optional)



Air outlet duct
adapter (optional)



- Intelligent App Control



Standard



ECO



BOOST



Electric Heating

Timer

ON

OFF

Water Temp



SPECS

| Parameters\Model | | GRS-3.0Pd/TD50GANhA-D | | GRS-3.0Pd/TD70GANhA-D | | | |
|--|-----------|--|------|--|------|--|--|
| First Hour Rating(FHR) ⁽¹⁾ | gal | 77 | | 95 | | | |
| Uniform Energy Factor(UEF) ⁽¹⁾ | - | 4 | | 4 | | | |
| Heating capacity ⁽²⁾ | W | 2400 | | 2400 | | | |
| Power input ⁽²⁾ | W | 570 | | 570 | | | |
| COP ⁽²⁾ | - | 4.2 | | 4.2 | | | |
| Refrigerant Charge | oz (kg) | R32 / 19.4 (0.55) | | | | | |
| Heat pump operating range | °F (°C) | 35.6~113 (2~45) | | | | | |
| Maximum and minimum set water temperatures(The heat pump can heat water up to 60 °C) | °F (°C) | 95~149 (35~65) | | | | | |
| Sound pressure level ⁽³⁾ | | 49 | | 49 | | | |
| Nominal volume of the tank | gal | 50 | | 70 | | | |
| Rated volume of the tank | gal | 54 | | 68 | | | |
| Dimensions(W × D × H) | in (mm) | 26-1/8 × 25-1/2 × 66-15/16 (664 × 648 × 1700) | | 26-1/8 × 25-1/2 × 76-1/8 (664 × 648 × 1934) | | | |
| Ship dimensions(W × D × H) | | 29-1/4 × 29-1/4 × 74-3/16 (743 × 743 × 1885) | | 29-1/4 × 29-1/4 × 83-1/4 (743 × 743 × 2115) | | | |
| Unit Wt | LBS | 240 | | 265 | | | |
| Approx. Ship Wt. | LBS | 289 | | 315 | | | |
| Tank maximum working pressure | psi | 150 | | | | | |
| Power supply | - | 208/240V ~ 60Hz | | | | | |
| Fan Motor Horsepower | HP | 0.042 | | | | | |
| | | 208V | 240V | 208V | 240V | | |
| Rated Input Current of Compressor | A | 5.95 | 4.85 | 5.95 | 4.85 | | |
| MOP (Max. Rating of Overcurrent Protective Device) | A | 30 | 30 | 30 | 30 | | |
| MCA (Min. Circuit Ampacity) | | | | | | | |
| Upper Electric Heater | W | 3380 | 4500 | 3380 | 4500 | | |
| Lower Electric Heater | W | 3380 | 4500 | 3380 | 4500 | | |
| Maximum Allowable Ratings | W | 5728 | | | | | |
| Connections for the domestic water circuit | - | 3/4" | | 3/4" | | | |

Note:

(1) FHR and UEF ratings are certified per 10 CFR Part 430 (updated as of 12/21/2023), tested in factory-default standard heating mode.

(2) Heating capacity and COP are measured under ECO mode at outdoor conditions of 20°CDB/15°CWB and water temperature from 15°C to 55°C.

(3) Sound pressure levels are tested in a semi-anechoic chamber.

**Note:**

Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

All features and specifications are subject to change without prior notice.

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