



# R32 **Hi-smbask**

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**

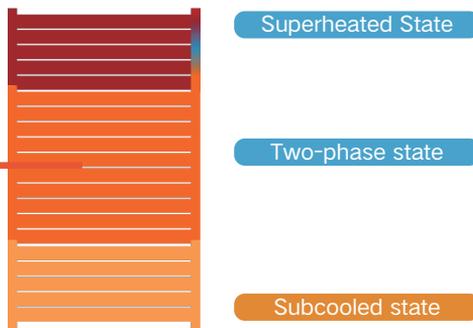
Individual heat exchange for superheated, two-phase, and subcooled refrigerant

- **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

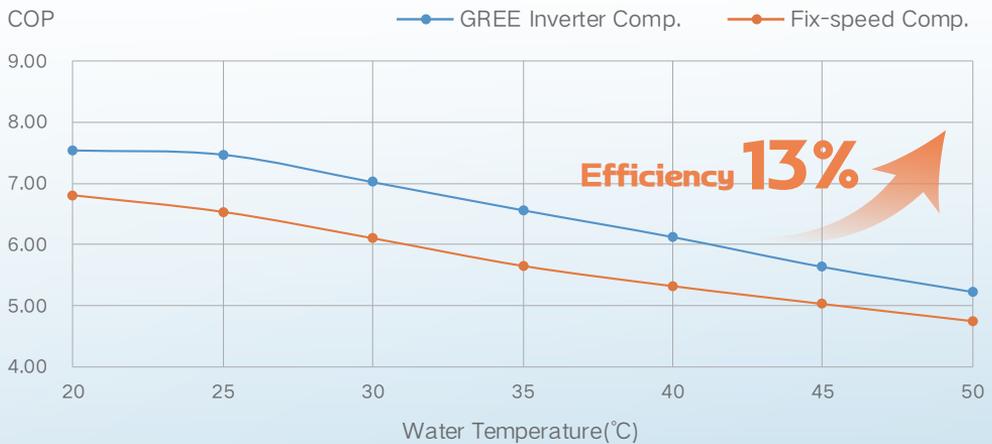
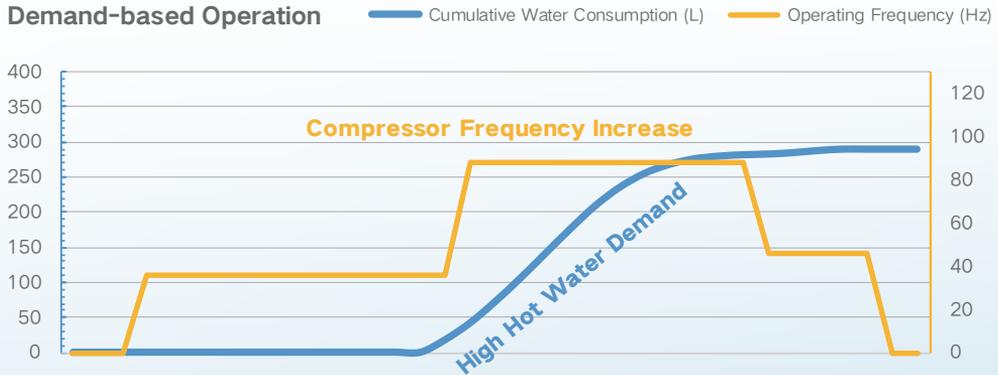
- **+15% FHR**

Delivers more usable hot water per cycle

# ● Intelligent Compressor, Unbeatable Efficiency

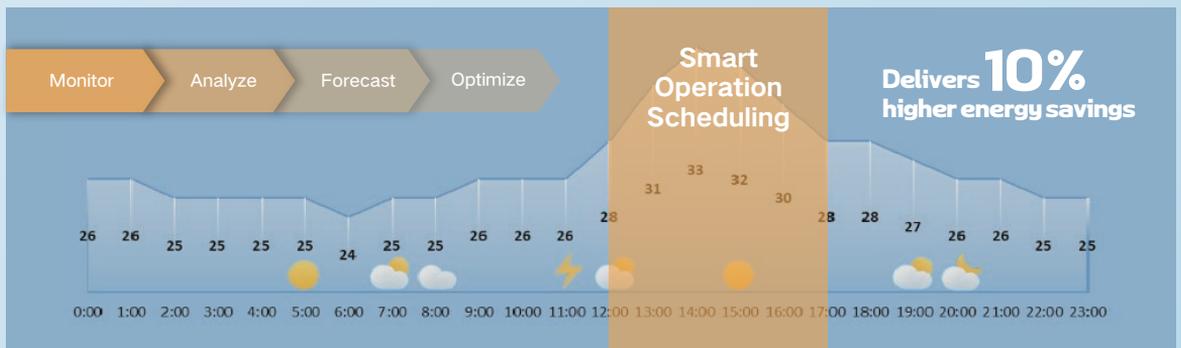
## Demand-Based Operation:

- 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.



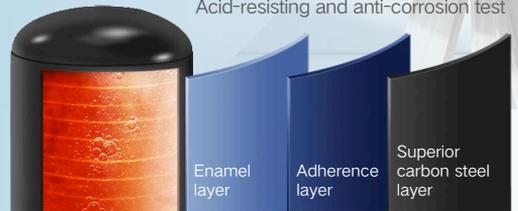
# RELIABLE & SAFE

- Crafted by **850°C**

Sintering forms a dense, pristine enamel surface

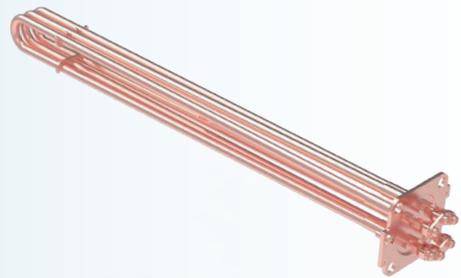
**1080<sup>h</sup>**

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

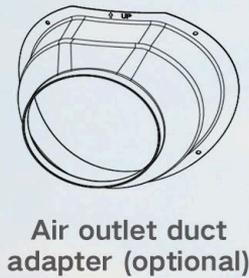
Enjoy Convenient and Comfortable Life

## • Easy Installation

Power Supply

Air Inlet

Air Outlet



## • Intelligent App Control



Timer

ON

OFF

Water Temp



# SPECS

Parameters\Model		GRS-3.0Pd/TD50GANhA-D		GRS-3.0Pd/TD70GANhA-D	
First Hour Rating(FHR) <sup>(1)</sup>	gal	77		95	
Uniform Energy Factor(UEF) <sup>(1)</sup>	-	4		4	
Heating capacity <sup>(2)</sup>	W	2400		2400	
Power input <sup>(2)</sup>	W	570		570	
COP <sup>(2)</sup>	-	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 <sup>(3)</sup>	dB(A)	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		26-1/8 × 25-1/2 × 76-1/8	
		(664 × 648 × 1700)		(664 × 648 × 1934)	
Ship dimensions(W × D × H)	in (mm)	29-1/4 × 29-1/4 × 74-3/16		29-1/4 × 29-1/4 × 83-1/4	
		(743 × 743 × 1885)		(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)	A	30	30	30	30
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.



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**Note:**

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**GC-2512-04**

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