



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**

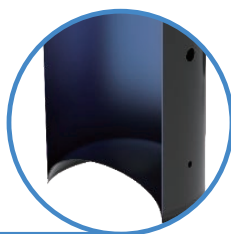
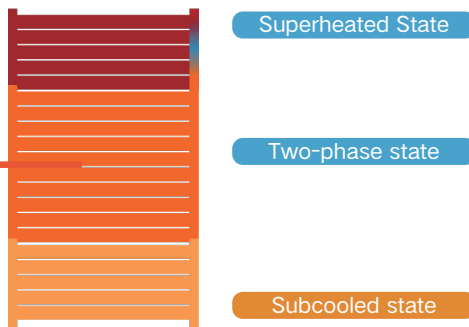
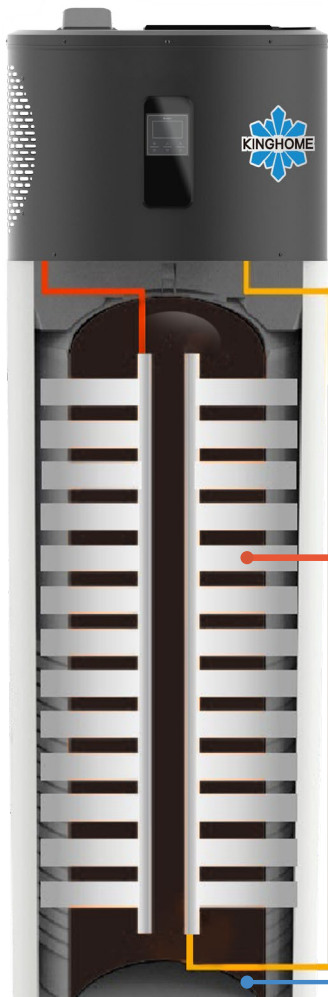
Individual heat exchange for superheated, two-phase, and subcooled refrigerant

- **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

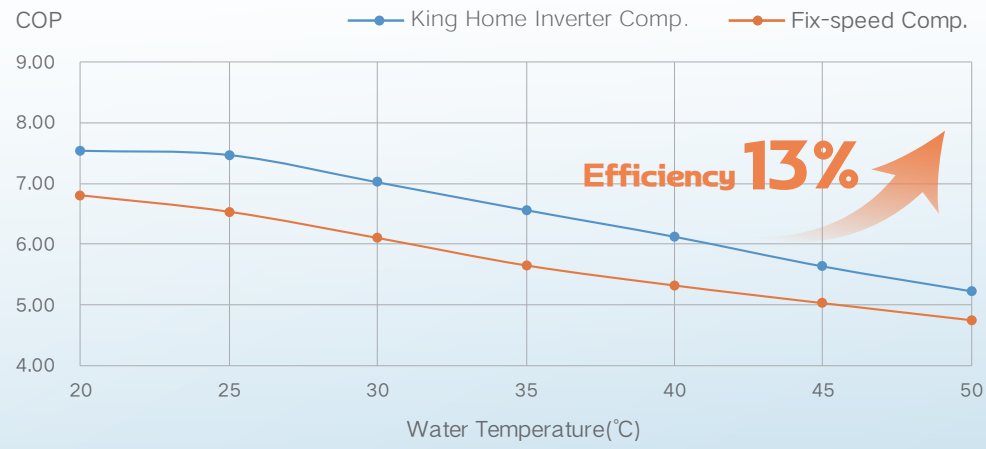
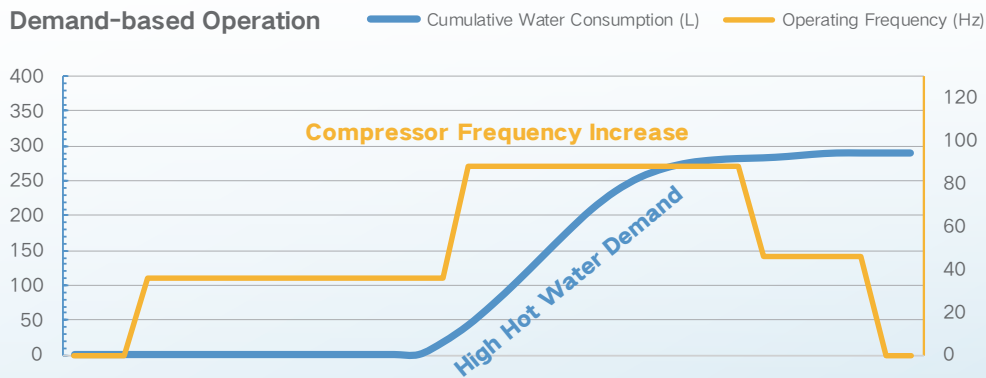
- **+15% FHR**

Delivers more usable hot water per cycle

Intelligent Compressor, Unbeatable Efficiency

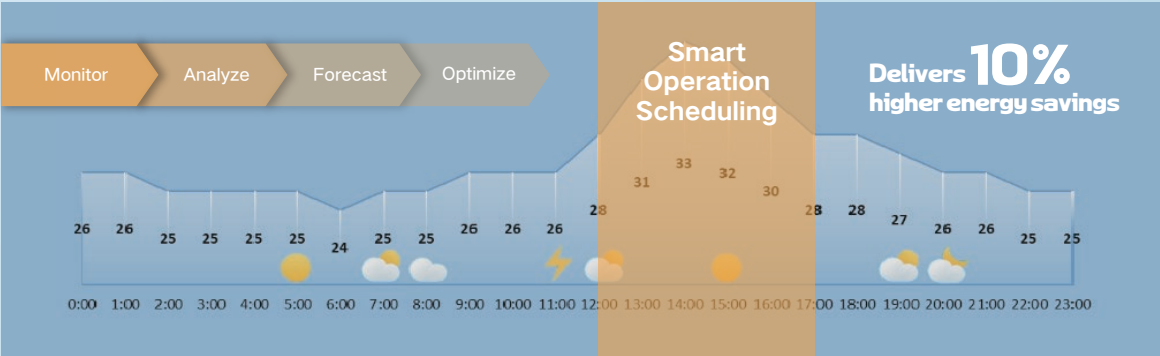
Demand-Based Operation:

- 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.



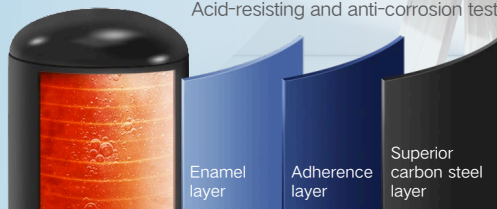
RELIABLE & SAFE

- Crafted by **850°C**

Sintering forms a dense, pristine enamel surface

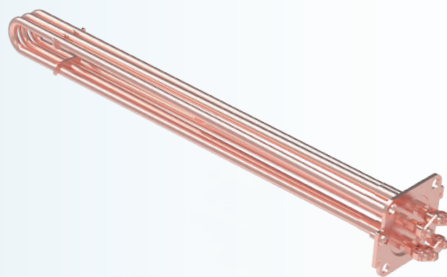
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Acid-resisting and anti-corrosion test



- 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

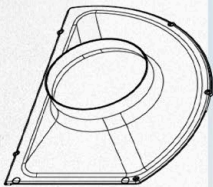


Thermostat

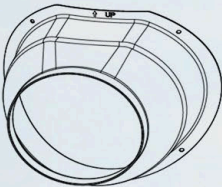
CONVENIENT

Enjoy Convenient and Comfortable Life

• Easy Installation



Air inlet duct adapter(optional)



Air outlet duct adapter (optional)

Power Supply

Air Outlet

Air Inlet

Hot Water Outlet

Cold Water Inlet



• Intelligent App Control



Standard



ECO



BOOST



Electric Heating

Timer

ON

OFF

Water Temp



SPECS

Parameters/ Model	Unit	KHW50R32		KHW70R32	
First Hour Rating (FHR) ⁽¹⁾	gal	80		100	
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⁾	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	26-1/8×25-1/2×66-15/16		26-1/8×25-1/2×76-1/8	
	(mm)	(664×648×1700)		(664×648×1934)	
Ship Dimensions (W×D×H)	in	29-1/4×29-1/4×74-3/16		29-1/4×29-1/4×83-1/4	
	(mm)	(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			
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°C DB/15°C WB and water temperature from 15°C to 55°C.
- (3) Sound pressure levels are tested in a semi-anechoic chamber.

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