



Intellihot
Endless water. Zero waste.™

COMMERCIAL

The Electron Series iE1

WORLD'S FIRST TANKLESS HEAT PUMP WATER HEATER

Intellihot offers a unique electric heat pump water heating system that is healthy and sustainable.

Our Electron series is the world's first electric tankless heat pump water heater that heats water on-demand by using energy stored in a thermal battery. It produces clean, healthy, and efficient hot water without storage while providing the utmost reliability.

- ♦ **CO₂ Refrigerant** – Lowest impact on the environment with a Global Warming Potential (GWP) of 1, zero Ozone Depleting Potential (ODP) and better cold weather performance.
- ♦ **On-Demand & Tankless** – Absorbs & stores energy from the air in a specially-designed thermal battery. This energy is used to heat water on-demand without any storage, thereby mitigating Legionella risks.
- ♦ **No Power Constraints** – Select a model that suits your electrical infrastructure the best:

iE1 Std | No Resistive Electric Heating Element

20 Amps circuit breaker required

iE1 Mid | One Resistive Electric Heating Element (6kW)

60 Amps circuit breaker required

iE1 Max | Two Resistive Electric Heating Elements (12kW total)

90 Amps circuit breaker required

KEY FEATURES

- ♦ **Ideal** for high-pressure, multi-storey buildings
- ♦ **Handles** tough hard-water scaling
- ♦ **Produces** hot water up to 170°F
- ♦ **Worry-free** 24/7 factory monitoring via cellular connectivity
- ♦ **Automatic** software updates over the air
- ♦ **Grid-enabled** via CTA-2045/JA-13/JA-14



- ♦ **Seamlessly cascade** using Bluetooth, up to 4 units, no wires
- ♦ **Free up space** install indoors or outdoors
- ♦ **Solar-ready** upgradable in minutes
- ♦ **Lightweight** & compact, 30% smaller
- ♦ **Intelligent leak sensor** Multi-fluid detection
- ♦ **Innovative** built-in Glycol Concentration Sensor (GCS)

iE1 Options

Model Number		iE1 Std	iE1 Mid	iE1 Max
Electric elements	kW	0	6	2x6 (12)
Input Voltage	VAC single phase	208	208	208
Current	Amps	17	46	75
Recommended Circuit Breaker	Amps	20	60	90

iE1 Specifications

Type	Indoor / Outdoor, Floor Mounted
Power Source	Electric
Electrical Input	Up to 15.4 kW
Heating Output	Up to 90,000 BTU/h
COP	Up to 4.2
Compressor Type	Rotary
Safety Devices	Pressure Switch, Thermal Cutout, Overheat Protection
Ambient Installation Temperature	-10°F to 110°F
Air Flow Requirement	3500 CFM
Outlet Water Temperature Range	100°F to 170°F
Temperature Stability	+/- 4°F
First Hour Rating	154 Gallons
Connectivity	Cellular and Bluetooth
Operational Modes	Efficiency, Hybrid, Electric, Self-learning
Grid Connectivity	Via CTA-2045 module (customer supplied)/JA13/JA14
Refrigerant	R744, CO ₂ refrigerant
Cascading Protocol	Masterless, Up to 4 units
Noise Level	Up to 55 dBA
Domestic Heat Exchanger	Stainless Steel, 316L
Energy Storage	Water-Propylene-Glycol based Thermal Battery
Water Inlet & Outlet Connections	1.5" NPT Female
Unit Dimensions H X W X D (Inches)	72 X 30 X 30
Shipping Weight / Unit Weight	620 lbs / 540 lbs
Water Pressure Min / Max (PSIG)	30 / 160
CLEARANCES	
Back	24"
Front	30"
Top	8"
Sides	12"
Certifications *	Energy Star, NSF 372, UL 60355-2-40, CSA C22.2
Warranty	1 Year on Parts and Compressor, 3 Years on Thermal Battery
* In Process † Delivering 110°F to the fixtures	

Note: Due to Intellihot's Policy of continuous product improvements, design and technical specifications are subject to change without notice. Version 5.23



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