



The Electron Series iB^T3

GRID-ENABLED THERMAL BATTERY / ELECTRIC TANKLESS WATER HEATER

Intellihot's Electron iB3 is a grid-enabled thermal battery and a commercial-scale electric tankless water heater. The iB3 can be paired with Intellihot's CO₂ heat-pump model (iE6) as a thermal battery to produce hot water on-demand. The iB3 can also operate as a stand-alone grid-enabled commercial-scale electric tankless water heater.

Here is how it works: When paired with Intellihot's iE6 heat pump, the iB3 receives heat energy via two simple fluid connections. This heat energy is stored and utilized to heat domestic hot water on-demand.

Power Large Properties - Can be scaled to meet the demand of larger commercial properties by seamlessly cascading multiple units via bluetooth.

Simplify Installation - The iB3 connects to the iE6 heat pump via two simple fluid connections, similar to a boiler-tank system. Plus, no special heat tracing is needed.

Eliminate complicated swing tanks and piping - The iB3 has built-in self-learning and self-adjusting thermal storage. Thus, it provides the same benefits as swing tanks without the additional complexity or sizing guesswork. Building recirculation ties simply to the cold inlet.

KEY FEATURES

- ◆ **On Demand & Tankless** - Uses stored thermal energy to heat water on-demand without any water storage, thereby mitigating Legionella risks.
- ◆ **Ideal** for high-pressure, multi-storey buildings
- ◆ **Handles** tough hard-water scale
- ◆ **Produces** hot water up to 170°F
- ◆ **Worry-free** – 24/7 factory monitoring via telliCare messaging
- ◆ **Smart Grid Ready** - Grid-enabled via CTA-2045/JA-14 which allows it to store energy when its most cost-effective, maximizing return on investment and cutting operational costs
- ◆ **Automatic** software updates over the air
- ◆ **Seamlessly cascade** 4 iB3 units via Bluetooth
- ◆ **Solar-ready** and can be upgraded quickly



iB^T3

iBT3 Specifications

Model:	iBT3
Type	Indoor, Floor Mounted
Power Source	Electric
Supply Voltage	208 VAC, 60 Hz 3 phase
Supply Current	Max 104.1 Amps (Minimum 110 Amp Breaker Required)
Electrical Input	Maximum 36.7 kW
Safety Devices	Thermal Cutout, Overheat Protection
Resistive Heating Elements	0kW, 6kW, 12kW, 18kW, 24kW, 30kW, 36kW (Based on user-selected configuration)
Ambient Installation Temperature	40°F to 110°F
Outlet Water Temperature Range	100°F to 170°F
Temperature Stability	+/- 4°F
First Hour Rating†	570 gallons when paired with one iE6
Connectivity	Cellular and Bluetooth
Operational Modes	Efficiency, Hybrid, Electric, Self-learning
Grid Connectivity	Via CTA-2045 module (customer supplied)/JA14
Cascading Protocol	Via Bluetooth, Masterless, Up to 4 units
Domestic Heat Exchanger	Stainless Steel, 316L
Energy Storage Medium	Water-Propylene-Glycol
Water Inlet & Outlet Connections	2" NPT Female
Thermal Fluid Inlet & Outlet Connections	2" NPT Female
Unit Dimensions H X W X D (Inches)	70.8 X 30.5 X 94.5
Shipping Weight / Unit Weight	600 lbs / 500 lbs
Water Pressure Min / Max (PSIG)	30 / 160
CLEARANCES	
Back	24"
Front	30"
Top	8"
Sides	24"
Certifications *	Energy Star, NSF 372, UL 60355-2-40, CSA C22.2

Note: Due to Intellihot's Policy of continuous product improvements, design and technical specifications are subject to change without notice. Version 8.24

* In Process

† Delivering 110°F to the fixtures

HOW IT WORKS:

