# Intellihot

## On-Demand Water Heaters & IoT Innovations

# i Series, Gen II
# i250 | i200

| Model: | i250 | i200 |
|---|---|---|
| Minimum Input (BTU/hr) | 30,000 | 30,000 |
| Maximum Input (BTU/hr) | 250,000 | 199,950 |
| Maximum Output (BTU/hr) | 230,000 | 188,000 |
| Thermal Efficiency | 92% | 94% |
| Dimensions H X W X D (Inches) | 26.2 X 17.7 X 15 (3.9 CU. FT) | 26.2 X 17.7 X 15 (3.9 CU. FT) |
| Weight (LBS) | 93 LBS | 93 LBS |
| Water Pressure Min / Max (PSI) | 30 / 150 | 30 / 150 |
| Vent Size (Diameter) | 3" Ø | 3" Ø |
| NG/LP - Maximum Static Gas Pressure Range | 2.5" - 14" | 2.5" - 14" |
| Electrical | 120V AC, 60Hz, (Max 4.2 Amps) | 120V AC, 60Hz, (Max 4.2 Amps) |

i250

i200

## TECHNOLOGY OVERVIEW

With unparalleled performance and reliability, our Gen II i Series tankless water heaters are ideal for highly variable applications using potable hot water. Each unit is constructed for maximum durability – even in the most demanding commercial applications.

· *i200 delivers nearly 200,000 BTU/hr and i250 delivers 250,000 BTU/hr.*
· *Decreases capital cost by up to 50% and reduces operational cost up to 30% (compared to traditional tank-type systems).*
· *Takes up 80% less space than a typical tank water heater.*

## KEY FEATURES

♦ **Revolutionary Heat Exchanger** – Features our revolutionary 316L stainless steel heat exchanger that can withstand all thermal shocks and stresses, and provides superior corrosion and erosion resistance.

♦ **Masterless Cascading** – Cascade up to 10 units together and eliminate single-point failure with our patented Masterless Cascading technology.

♦ **Efficient Burner** – Features a radially fired, downward-blowing, premixed burner with a negative pressure gas valve and plenum design.

♦ **Self-Descaling** – Patented self-descaling design prevents lime-scale buildup.

♦ **Eliminate Mixing Valves & Legionella** – With no storage tanks there's no risk for Legionella growth. By eliminating the need for mixing valves, this feature also eliminates their associated unreliability and costs.

♦ **Multiple Venting Configurations** – Include concentric, snorkeling terminations in different pressure zones and single-pipe vent, with smart common venting.

♦ **Numerous Levels of Built-in Safety Features** – Prevent flue from back drafting, including fan speed control, a mechanical damper, and intelligent unit loss detection algorithms.

## APPLICATIONS
Retail, Laundromats, Restaurants, Salons, Commercial Kitchens.

Endless water. Zero waste.™

# iQ Series, Gen II
# iQ251 | iQ251D (Deionized)

| Model: | iQ251 | iQ251D |
|---|---|---|
| Minimum Input (BTU/hr) | 30,000 | 30,000 |
| Maximum Input (BTU/hr) | 251,000 | 251,000 |
| Maximum Output (BTU/hr) | 240,960 | 240,960 |
| Thermal Efficiency | 96% | 96% |
| Dimensions H X W X D (Inches) | 26.2 X 17.7 X 15 (3.9 CU. FT) | 26.2 X 17.7 X 15 (3.9 CU. FT) |
| Weight (LBS) | 90 LBS | 90 LBS |
| Water Pressure Min / Max (PSI) | 30 / 160 | 30 / 160 |
| Vent Size (Diameter) | 3" Ø | 3" Ø |
| NG/LP - Maximum Static Gas Pressure Range | 2.5" - 14" | 2.5" - 14" |
| Electrical | 120V AC, 60Hz, (Max 4.2 Amps) | 120V AC, 60Hz, (Max 4.2 Amps) |

**iQ251**

**iQ251D**

## TECHNOLOGY OVERVIEW

With 96% thermal efficiency and flexible design and circuit options, iQ251 and iQ251D models are the best in class wall-hung, ASME-compliant, tankless water heaters. These wall-hung iQ models are constructed for maximum durability and the most demanding commercial and industrial applications. The iQ251D is the **only gas-fired, deionized on-demand water heater on the market.**

· *Both iQ251 and iQ251D deliver 251,000 BTU/hr.*

## KEY FEATURES

- ◆ **Wi-Fi and 3G/4G Connectivity** – Real-time monitoring of your Gen II unit is available through the unit's 3.5" touch-screen – and accessible remotely via a mobile app. Each unit can be easily connected to your building's Wi-Fi router or to Intellihot's internet hub.
- ◆ **Masterless Cascading** – Eliminate single-point failure with our patented Masterless Cascading technology. If one cascaded unit is offline for servicing, all other units regroup and continue to operate. Cascade up to 2,510,000 BTU/hour (10 units) for larger applications.
- ◆ **Eliminate Mixing Valves & Legionella** – With no storage tanks there's no risk for Legionella growth. By eliminating the need for mixing valves, this feature also eliminates their associated unreliability and costs.
- ◆ **Full Modulation** – Smart units deliver maximum BTU/hr input when needed and zero BTU/hr the rest of the time.
- ◆ **Gas-Fired** – By using natural gas our systems lower operating costs and improve ROI vs. electric water heaters. 73KW of heating capacity available with low pressure drop; capable of 9.6 GPM at 50F temperature rise.
- ◆ **Common Venting Capabilities** – The iQ251 and iQ251D units transform common venting into smart–common venting.
- ◆ **ASME-HLW Compliant** – Suitable for applications managed by engineers, specifiers and contractors.

## APPLICATIONS

The iQ251 is ideal for diverse commercial applications using potable hot water. The iQ251D is ideal for Industrial Finishing/Cleaning, Electronic Parts Fabrications, Food Processing, Water Purification, Reverse Osmosis Systems, Aerospace, Cosmetics, Pharmaceutical and Glass Industries.

# iQ Series, Gen II
# iQ1501 | iQ1001 | iQ751

| Model: | iQ1501 | iQ1001 | iQ751 |
|---|---|---|---|
| Minimum Input (BTU/hr) | 30,000 | 30,000 | 30,000 |
| Maximum Input (BTU/hr) | 1,501,000 | 1,001,000 | 751,000 |
| Maximum Output (BTU/hr) | 1,380,920 | 940,940 | 705,940 |
| Thermal Efficiency | 92% | 94% | 94% |
| Dimensions H X W X D (Inches) | 67.7 X 30 X 60.4 (66 CU. FT) | 67.7 X 30 X 44.3 (48 CU. FT) | 67.7 X 30 X 44.3 (48 CU. FT) |
| Weight (LBS) | 1025 LBS | 800 LBS | 730 LBS |
| Water Pressure Min / Max (PSI) | 30 / 160 | 30 / 160 | 30 / 160 |
| Vent Size (Diameter) | 6" Ø | 6" Ø | 6" Ø |
| NG/LP - Maximum Static Gas Pressure Range | 2.5" - 14" | 2.5" - 14" | 2.5" - 14" |
| Electrical | 120V AC, 60Hz, (Max 29 Amps) | 120V AC, 60Hz, (Max 20 Amps) | 120V AC, 60Hz, (Max 16 Amps) |

**iQ1501**

**iQ1001 | iQ751**

## TECHNOLOGY OVERVIEW

Our iQ Series floor-standing units deliver the highest capacity in the industry – up to 1.5 million BTUs – with no storage tanks required. Designed for very large volume, commercial applications, these high-input units **slash capital costs by up to 50%, and decrease operational costs by up to 40%,** when compared to traditional tank-type systems.

· *iQ1501 delivers 1,501,000 BTU/hr, iQ1001 delivers 1,001,000 BTU/hr, and iQ751 delivers 751,000 BTU/hr.*

## KEY FEATURES

◆ **High Capacity in a Compact Size** – At 1025 lbs. and 30" width (fits elevator doors), iQ1501s supply 40 GPM at 70°F temperature rise non-stop.

◆ **Masterless Cascading** – Eliminate single-point failure with our patented Masterless Cascading technology. Up to four iQ floor units can be cascaded for unprecedented capacity up to 160 GPM at a 70°F rise.

◆ **Wi-Fi and 3G/4G Connectivity** – Real-time monitoring of your Gen II unit is available through the unit's 7" touch-screen – and accessible remotely via a mobile app. Each unit can be easily connected to your building's Wi-Fi router or to Intellihot's internet hub.

◆ **Eliminate Mixing Valves & Legionella** – With no storage tanks there's no risk for Legionella growth. By eliminating the need for mixing valves, this feature also eliminates their associated unreliability and costs.

◆ **Competitive Turndown Ratio** – Unparalleled gas savings with an industry leading turndown ratio, 50:1 for iQ1501, 33:1 for iQ1001, and 25:1 for iQ751.

◆ **Common Venting Capabilities** – The iQ floor units transform common venting into smart–common venting.

◆ **ASME-HLW Compliant** – Suitable for applications managed by engineers, specifiers and contractors.

◆ **Guaranteed** – Backed by a 10 year non-prorated heat exchanger warranty.

## APPLICATIONS

Hotels, Multi-Family Complexes, Sky-Rise and High-Rise Buildings, Stadiums.

Endless water. Zero waste.™

# telli**Bot**
# **iB**3001 | **iB**301
# The World's First Boiler Room Smartifier.

| Model: | **iB**3001 | **iB**301 |
|---|---|---|
| Maximum Rated (BTU/hr) | Up to 3,000,000 BTU/hr | Up to 300,000 BTU/hr |
| Gallons per Hour (GPH) Maximum | 25 | 2.5 |
| Dimensions H X W X D (Inches) | 7.2" x 6.5" x 14" | 7.2" x 6.5" x 9.6" |
| Weight (LBS) | 4.5 LBS | 3.5 LBS |
| Weight of Media Bag (LBS) | 3 LBS | 2 LBS |
| Electrical Voltage | 120V AC, 60 Hz | |
| Electrical Power Consumption | 75W (Max) | |
| Boiler Interlock Contacts | 100 mA, 60 Volts AC/DC | |
| Safety Alarms | Carbon Monoxide Alarm, Natural Gas Leak Alarm, Water Leak Alarm, pH Alarm | |
| Wi-Fi Enabled | 802.11 b/g | |
| Notifications | Email, SMS, App | |
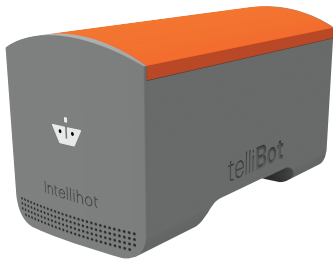


**iB**3001

## TECHNOLOGY OVERVIEW

**Smartify your boiler room.** telliBot is a state-of-the-art, IoT and Wi-Fi enabled, smart condensate neutralizer that allows you to transform any water heater or boiler into a smart device – regardless of the make or model. Through robotic controls, telliBot monitors the vitals of your boiler room and sends you alerts if there is a problem.

· *iB3001 can be used with water heating systems up to 3,000,000 BTU/hr, and iB301 can be used with water heating systems up to 300,000 BTU/hr.*

## KEY FEATURES

· Sensor to ensure gas and carbon monoxide safety
· Sensor to prevent water leak damages
· Neutralizer media provided timely to prevent corrosion damage
· Monitor hot water demand and calculate cost savings opportunities
· Monitor water temperatures and life of equipment
· Audible and visual buzzer/alarm to alert personnel of any issues
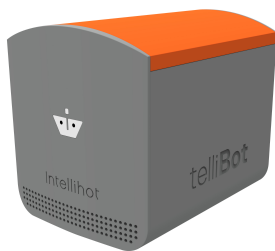


**iB**301

## TELLIBOT SERVICE

One year of telliBot service comes free with the purchase of every telliBot. After the first year, the telliBot subscription service can be renewed annually. The telliBot service provides the following data on a monthly and annual basis:

· Monitoring & Predictive Analytics reports provide your water heating data on a monthly and annual basis. The reports also predict the health of your equipment, and offer suggestions on improving their efficiency.
· Mobile app notifications provide real-time monitoring data of your boiler/ heating system, and alerts immediately if there are any CO, gas or water leaks.
· Neutralizer media shipped timely, at no additional cost.

# telli**Care** Service
# Zero Downtime. Zero Worries. Zero Problems.™



Building's
Wi-Fi router

Intellihot Cloud

Your Mobile Device
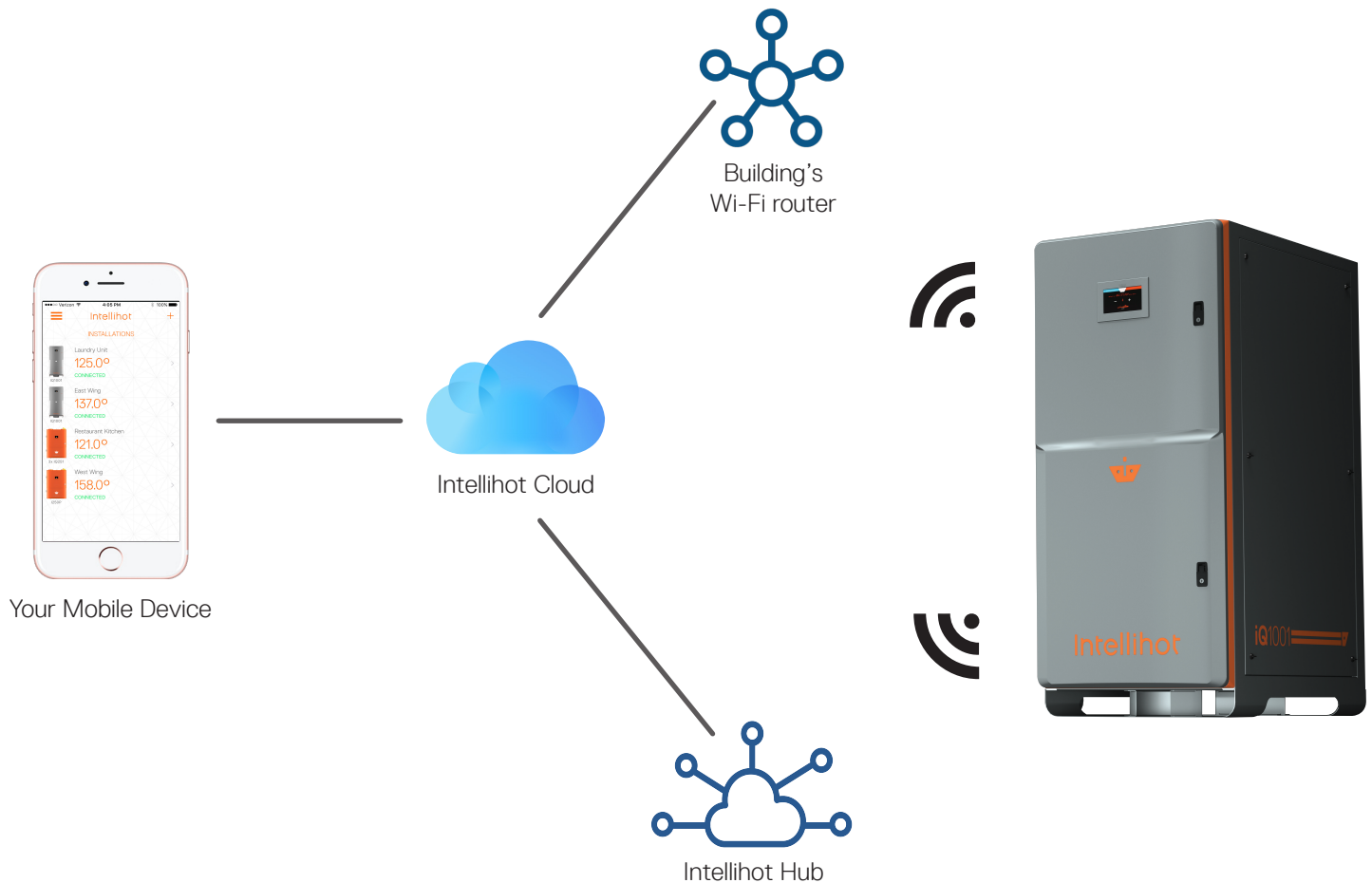
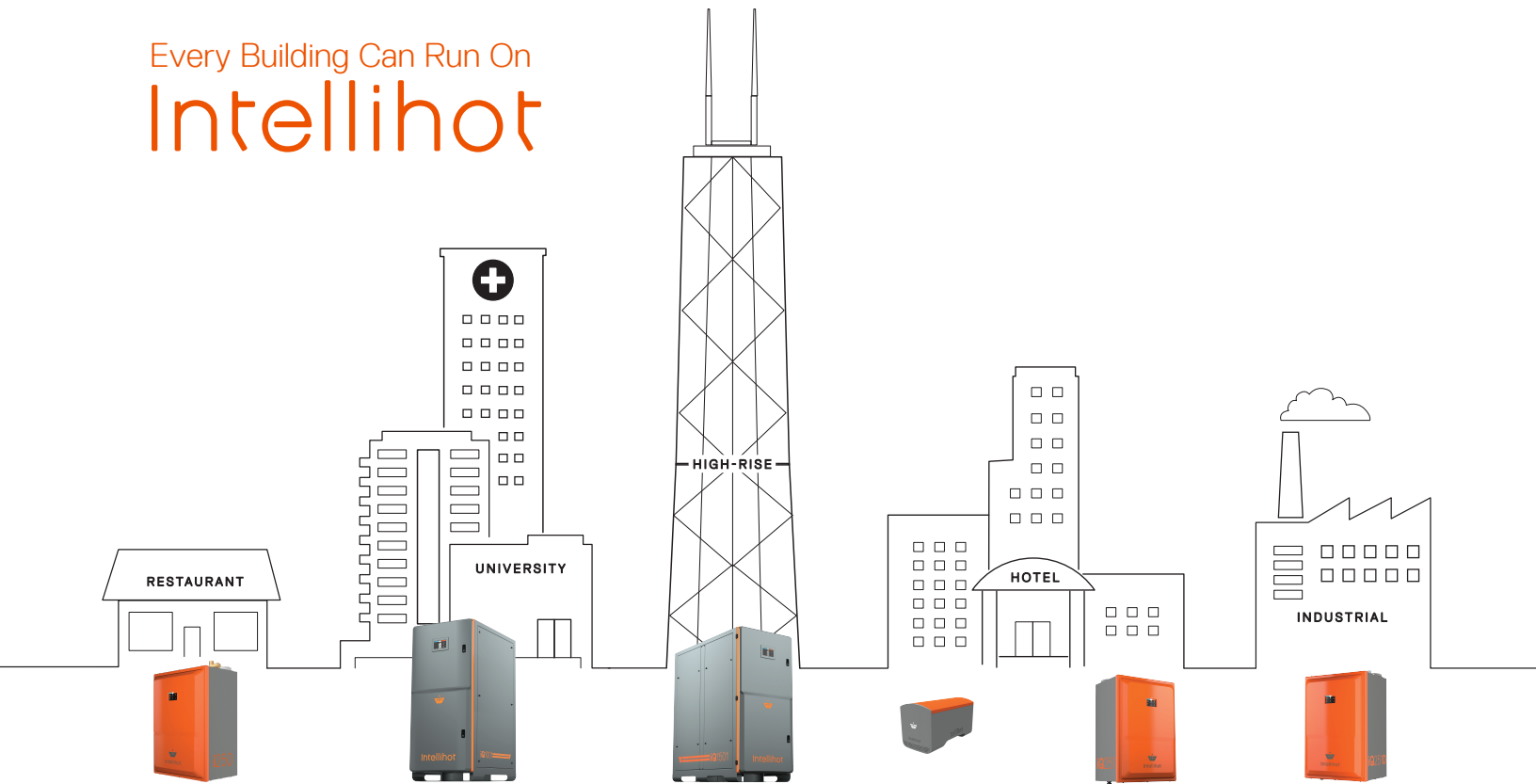Intellihot Hub

## TECHNOLOGY OVERVIEW

**Real-time Remote Access Made Easy.** telliCare is our innovative Wi-Fi enabled, prognostics and predictive maintenance service for Intellihot's Gen II iQ tankless water heaters. This service allows your Intellihot water heaters to be monitored and controlled via an app on your iOS mobile device, so that you have control on the go. Whether you are on-site or remote, your telliCare plan provides you with valuable benefits and data at your fingertips.

- **24/7/365 Monitoring** by factory personnel who can take appropriate action remotely, if needed.
- **Free Parts** shipped ahead of time, so that service can be scheduled when convenient for your business.
- **Notifications** sent with the right information, to the right people at the right time.
- **Automatic Firmware Updates** published to units.
- **Prognostics and Predictive Analytics** reports available on your mobile device.
- **BTUs, Firing Rate, and Flue Gases** monitored on a daily, weekly, and monthly basis.
- **Inlet/Outlet Temperatures Monitored** on an hourly, daily, weekly, and monthly basis.
- **Flow Rates** monitored on an hourly, daily, weekly, and monthly basis.

## IT'S AS SIMPLE AS ONE-TWO-THREE!

1. Your Intellihot unit connects to the Intellihot cloud via the building's Wi-Fi router or Intellihot's 4G/LTE hub.
2. Your unit sends its monitoring data to the cloud.
3. You access the telliCare app on your iOS mobile device to tap into ALL of the data streaming to the Intellihot cloud.

Endless water. Zero waste.™

Every Building Can Run On

# Intellihot

RESTAURANT

UNIVERSITY

HIGH-RISE

HOTEL

INDUSTRIAL

## Powered by Intellihot.

Intellihot is at home wherever people live, work or play. From wall-hung units that help restaurants, hotels and other businesses cut their energy bills to floor units robust enough for hotels, sky-rises, schools, stadiums, apartment buildings and hospitals – **we're committed to progress and helping to improve the way people live.**

We're setting the benchmark for superior performance and efficiency. From the moment they start running, Intellihot water heating units begin to learn your facility's typical usage patterns. Then they adapt, heating up the amount of water you need – no more, no less.  – Improving your facility's energy efficiency by up to 40%.

We are building a waste-free future – without a drop of sacrifice.

## We call that progress.

Intellihot products have the following certifications, as applicable.

ETL
c LISTED us
Intertek

L H W

Ultra Low NOx
certified
2012 SCAQMD

NSF
Certified to
NSF/ANSI 372

energy
ENERGY STAR

## ENDLESS PROGRESS

Intellihot water heating systems deliver the endless water, heat, and comfort people expect – and we do it the smart way. Our systems are designed for extraordinary performance, ease of use, and ROI while virtually eliminating waste and environmental impact. From the moment they start running, Intellihot water heating units begin to learn your facility's typical usage patterns. Then they adapt, heating up the amount of water you need – no more; no less. From homes to hotels, schools to stadiums, we are building a waste-free future here in the U.S.A. – without a drop of sacrifice.

## WATER HEATING & DELIVERY REINVENTED

Founded in 2009, after a traditional water heater broke down and flooded our founder, Sridhar Deivasigamani's basement, Intellihot is leading the industry in tankless water heaters for commercial and industrial applications – **And we were the first to design, manufacture and build them entirely in the United States.** As a result of years of extensive research, quality and innovation are ingrained into each and every one of our products.

## FOUNDERS

### Sridhar Deivasigamani, CEO/Founder

Growing up, Sridhar could be found tinkering with ham radios, amplifiers, model aeroplanes and electrical wiring. His boyish curiosity for how-things-work and inventing new gizmos eventually grew into a passion for innovation and led him to earning a bachelor's degree in Mechanical Engineering from Manipal Institute of Technology, India and a master's degree in Mechanical Engineering from Clemson University, USA. Sridhar worked for many years in the fields of robotics and marine engines. Today, Sridhar's continued dedication to innovation has led our company to become industry thought leaders and develop 60+ awarded and pending patents – all aiming to build a waste-free future in the USA.

### Sivaprasad Akasam, CTO/Co-founder

Ever since he can remember, Sivaprasad has had a passion for creating. As a youngster, he spent much of his time building complex Lego configurations or tinkering with homemade inventions. While earning a bachelor's degree from the Indian Institute of Technology in Mumbai, Sivaprasad developed a deep interest in robotics. From there he went on to earn a master's in Mechanical Engineering from Florida State University. At Intellihot, Sivaprasad taps into his creative spirit to drive the development of products that meet our impossible standards and are too smart to fail.

### RECOGNITION AND AWARDS

Chicago's Top Ten Founders Over 40 Award (2016)
Top Chicago Clean-tech Startup company (2014)
Top 20 High Growth Company in Illinois (2011)
Top 24 Companies Outside Silicon Valley (2010)
Top 6 Most Innovative Companies in Illinois (2009)

Designed in the heartland. Built for the world.™

www.intellihot.com