

## Item Number: IP090S

Attribute	Value
Featured Image	<a href="https://rinnai.widen.net/content/crwazzthsn/web/I-Series%20Plus_straight_CoverON.jpg?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/crwazzthsn/web/I-Series%20Plus_straight_CoverON.jpg?u=vmp7gq&amp;download=true</a>
Product Category	Heating Systems>Boilers>I-Series+
Active for Ecommerce	Yes
AFUE % Rating	96.0
Amazon Alexa Compatible	No
Android Compatible	Yes
Apple HomeKit Compatible	No
Audience	Residential
Automatic Gas-Leak Detector	No
AvidWidgetDiv1	7423JEB
Bluetooth Compatible	Yes
California Energy Commission (CEC) Model Registration Number	REB-B2600FFUS
Cascading (Y/N)	Yes
Central Heating Turn Down Ratio	6.0:1
Certifications	ASME,ANSIZ21.13,CSA 4.9
Certified CSA	Yes
Certified SCAQMD Approved	Ultra Low NOx
Cold Water Inlet Connection	3/4" MNPT / (19 mm)
Color	Gray
Condensate Line Connection	1/2" NPT / (13 mm)
Country of Origin	Japan
Domestic Hot Water Activation Rate	0.4 GPM / (1.5 l/min)
Domestic Hot Water Natural Gas (Btuh/kW) - Input Minimum	15000 BTU / (4.39 kW)
Domestic Hot Water Temperature Range (Standard) (°F/°C)	98F-120F / (37C-49C)
Domestic Water Supply Pressure: Maximum	150 PSI
Domestic Water Supply Pressure: Minimum	2 PSI
Electrical Amperage - Maximum	14 Amps
Electrical Consumption (Normal)	53 watts
Electrical Consumption (Standby)	8 watts
Electrical Voltage	120V, 60Hz
Energy / Fuel Type	Propane Gas,Natural Gas
Energy Star - Commercial	No
Energy Star - Residential	Yes
Feature/Benefit Bullet 1	Smart Sense™ Gas Adaptive Technology

Attribute	Value
Feature/Benefit Bullet 10	Smart Sense™ Gas Adaptive Technology
Feature/Benefit Bullet 2	<p>Smart Connect™ – Bluetooth access through the Rinnai Central™ App</p>
Feature/Benefit Bullet 3	7 Heating Reset Curves
Feature/Benefit Bullet 4	High Altitude Approved up to 10,100 ft.
Feature/Benefit Bullet 5	Advanced Controls with Quick Set-Up Screen
Feature/Benefit Bullet 6	Improved Front Panel Display
Feature/Benefit Bullet 7	4 Built-in Zones
Feature/Benefit Bullet 8	Space Heating
Feature/Benefit Bullet 9	Common Venting up to 8 Units
Gas Supply Connection	3/4" MNPT / (19 mm)
Google Assistant Compatible	No
Hazmat Y/N	No
Heating - Fuel Gage Available	No
Heating Input Natural Gas (Btu/h &kW) - Maximum	90000 BTU / ( 26.3 kW)
Heating Input Natural Gas (Btu/h &kW) - Minimum	15000 BTU / (4.39 kW)
Ignition System	Direct Electronic Ignition
Image - Bottom	<a href="https://rinnai.widen.net/content/yesl7vejst/web/I-SERIES%20Plus_CoverON.Bottom.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/yesl7vejst/web/I-SERIES%20Plus_CoverON.Bottom.png?u=vmp7gq&amp;download=true</a>
Image - Corporate Logo	<a href="https://rinnai.widen.net/content/bjw5z2ex3z/web/Rinnailogo.PMS186.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/bjw5z2ex3z/web/Rinnailogo.PMS186.png?u=vmp7gq&amp;download=true</a>
Image - Front	<a href="https://rinnai.widen.net/content/undnz5lblv/web/I-SERIES%20Plus.straight.uncovered.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/undnz5lblv/web/I-SERIES%20Plus.straight.uncovered.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/2hhrlj7mmc/web/I-SERIES%20Plus.straight.uncovered.pc%20board.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/2hhrlj7mmc/web/I-SERIES%20Plus.straight.uncovered.pc%20board.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/ozzdxio4a4/web/I-Series%20Plus_straight_CoverON.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/ozzdxio4a4/web/I-Series%20Plus_straight_CoverON.png?u=vmp7gq&amp;download=true</a>
Image - Left	<a href="https://rinnai.widen.net/content/zcry5vrhdk/web/I-SERIES%20Plus.left%20side.uncovered.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/zcry5vrhdk/web/I-SERIES%20Plus.left%20side.uncovered.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/r2akt76kis/web/I-SERIES%20Plus.left%20side.uncovered.pc%20board.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/r2akt76kis/web/I-SERIES%20Plus.left%20side.uncovered.pc%20board.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/py7kmlui4/web/I-Series%20Plus_left_CoverON.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/py7kmlui4/web/I-Series%20Plus_left_CoverON.png?u=vmp7gq&amp;download=true</a>
Image - Lifestyle	<a href="https://rinnai.widen.net/content/hib3g9zqby/web/I-Series%20Plus_Basement_pump.jpg?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/hib3g9zqby/web/I-Series%20Plus_Basement_pump.jpg?u=vmp7gq&amp;download=true</a>
Image - Right	<a href="https://rinnai.widen.net/content/zefxwa4lgr/web/I-Series%20Plus_right_CoverON.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/zefxwa4lgr/web/I-Series%20Plus_right_CoverON.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/b7wfjwbgg4/web/I-SERIES%20Plus.right%20side.uncovered.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/b7wfjwbgg4/web/I-SERIES%20Plus.right%20side.uncovered.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/t5czhtpwut/web/I-SERIES%20Plus.right%20side.uncovered.pc%20board.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/t5czhtpwut/web/I-SERIES%20Plus.right%20side.uncovered.pc%20board.png?u=vmp7gq&amp;download=true</a>
Image - Top	<a href="https://rinnai.widen.net/content/7jekoup0rg/web/I-Series%20Plus_Top.CoverOFF.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/7jekoup0rg/web/I-Series%20Plus_Top.CoverOFF.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/9tnoligzpq/web/I-SERIES%20Plus_CoverON_Top.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/9tnoligzpq/web/I-SERIES%20Plus_CoverON_Top.png?u=vmp7gq&amp;download=true</a>
Installation Location	Indoor
IOS Compatible	Yes
Isolation Valves Included	No
Kit (Yes/NO)	Yes
Kit Content Description	Gas Conv. Kit, Wall Mount Bracket, PRV, OAT Sensor

Attribute	Value
Literature - Trade Brochure	<a href="https://rinnai.widen.net/content/1r1kynhkbv/original/FRENCH%20-SERIES%20%20%20Plus%20Brochure.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/1r1kynhkbv/original/FRENCH%20-SERIES%20%20%20Plus%20Brochure.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/eyauvpdp/original/Canada%20-SERIES%20%20%20%20Plus%20Brochure.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/eyauvpdp/original/Canada%20-SERIES%20%20%20%20Plus%20Brochure.pdf?u=vmp7gq&amp;download=true</a>
Manufacturer	Rinnai America Corporation
Mounting Type	Wall or floor mounted rack
MSDS (Y/N)	No
Product Catalog Title (SEO)	Solo Boiler CH 90K BTU
Product Class	Residential Boiler
Product Code	IP090S
Product Depth	11.5 in / (292.1 mm)
Product Description - Long	I-SERIES Plus™ line of Solo Condensing Gas Boilers offers unmatched value and performance with an expanded product line that features Smart Sense™ Adaptive Gas Valve technology. Solo Boiler CH 90k, NG
Product Description - Short	Solo Boiler CH 90K BTU
Product Group	Residential Boiler
Product Height	26.4 inch / (670.56 mm)
Product Info Document - Component Replacement	<a href="https://rinnai.widen.net/content/t6ebwsofhz/original/800000291%20PVC%20and%20CPVC%20Common%20Venting%20Installation%20Instructions%20for%20I-Series%20Plus%20Boilers-English.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/t6ebwsofhz/original/800000291%20PVC%20and%20CPVC%20Common%20Venting%20Installation%20Instructions%20for%20I-Series%20Plus%20Boilers-English.pdf?u=vmp7gq&amp;download=true</a>
Product Info Document - Conversion Manual	<a href="https://rinnai.widen.net/content/m4hvi6qq3i/original/800000194%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Boiler%20Gas%20Conversion%20Manual.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/m4hvi6qq3i/original/800000194%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Boiler%20Gas%20Conversion%20Manual.pdf?u=vmp7gq&amp;download=true</a>
Product Info Document - Energy Guide Labels	<a href="https://rinnai.widen.net/content/m4ks0llsqw/original/IP090S%20-%20Energy%20Guide.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/m4ks0llsqw/original/IP090S%20-%20Energy%20Guide.pdf?u=vmp7gq&amp;download=true</a>
Product Info Document - Owners Installation and Operation Manuals	<a href="https://rinnai.widen.net/content/oc86h0vbnq/original/800000192%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Boiler%20User%20Manual.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/oc86h0vbnq/original/800000192%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Boiler%20User%20Manual.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/36gntjbc/original/800000204%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Boiler%20User%20Manual_French.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/36gntjbc/original/800000204%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Boiler%20User%20Manual_French.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/zcteojtaax/original/800000219%20I-Series%20Plus%20Condensing%20Boiler%20User%20Manual-French.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/zcteojtaax/original/800000219%20I-Series%20Plus%20Condensing%20Boiler%20User%20Manual-French.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/o3smpapey6/original/800000218%20I-Series%20Plus%20150K%20and%20175K%20Boiler%20User%20Manual-ENGLISH.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/o3smpapey6/original/800000218%20I-Series%20Plus%20150K%20and%20175K%20Boiler%20User%20Manual-ENGLISH.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/mxsmgbwk7v/original/800000314%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Installation%20and%20Operation%20Manual-Spanish.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/mxsmgbwk7v/original/800000314%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Installation%20and%20Operation%20Manual-Spanish.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/zzpznr5cb/original/800000207%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Installation%20and%20Operation%20Manual_French.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/zzpznr5cb/original/800000207%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Installation%20and%20Operation%20Manual_French.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/ms3mek5vpi/original/800000315%20I-Series%20Plus%20150K%20and%20175K%20Boiler%20User%20Manual-Spanish.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/ms3mek5vpi/original/800000315%20I-Series%20Plus%20150K%20and%20175K%20Boiler%20User%20Manual-Spanish.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/svichio802/original/800000191%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Installation%20and%20Operation%20Manual.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/svichio802/original/800000191%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Installation%20and%20Operation%20Manual.pdf?u=vmp7gq&amp;download=true</a>

Attribute	Value
Product Info Document - Specification Sheets	<a href="https://rinnai.widen.net/content/ug1neejgza/original/800000279%20I-Series%20Solo%20Boiler%20Plumbing%20Kit%20Spec%20Sheet-Spanish.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/ug1neejgza/original/800000279%20I-Series%20Solo%20Boiler%20Plumbing%20Kit%20Spec%20Sheet-Spanish.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/b0ogo2r2rg/original/800000250%2802%29%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Spec%20Sheet.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/b0ogo2r2rg/original/800000250%2802%29%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Spec%20Sheet.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/8nuaydijhn/original/800000278%20I-Series%20Solo%20Boiler%20Plumbing%20Kit%20Spec%20Sheet-French.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/8nuaydijhn/original/800000278%20I-Series%20Solo%20Boiler%20Plumbing%20Kit%20Spec%20Sheet-French.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/1i2ezjbzjc/original/800000318%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Spec%20Sheet-French.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/1i2ezjbzjc/original/800000318%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Spec%20Sheet-French.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/itutbidfoo/original/800000319%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Spec%20Sheet-Spanish.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/itutbidfoo/original/800000319%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Spec%20Sheet-Spanish.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/pnk478am6t/original/800000139%20I-Series%20Solo%20Boiler%20Plumbing%20Kit%20Spec%20Sheet.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/pnk478am6t/original/800000139%20I-Series%20Solo%20Boiler%20Plumbing%20Kit%20Spec%20Sheet.pdf?u=vmp7gq&amp;download=true</a>
Product Info Document - Technical Bulletins	<a href="https://rinnai.widen.net/content/pa1mwmvqls/original/TB-073%20Condensing%20Termination%20Rain%20Ingress.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/pa1mwmvqls/original/TB-073%20Condensing%20Termination%20Rain%20Ingress.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/erk3epaaqp/original/TB-162%2802%29%20Announcing%20IPEX%20System%201738%20PVC%20Approval.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/erk3epaaqp/original/TB-162%2802%29%20Announcing%20IPEX%20System%201738%20PVC%20Approval.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/30onckqzym/original/TB-079%20Rinnai%20Ubbink%20Venting.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/30onckqzym/original/TB-079%20Rinnai%20Ubbink%20Venting.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/pc4icbm4nk/original/TB-080%20Termination%20Diverter%20Kit.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/pc4icbm4nk/original/TB-080%20Termination%20Diverter%20Kit.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/o8rbhenx8x/original/TB-200%20I-Series%20Plus%20Boiler%20Manual%20Revisions%20for%20Termination%20Clearances%20and%20Maintenance%20Warning.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/o8rbhenx8x/original/TB-200%20I-Series%20Plus%20Boiler%20Manual%20Revisions%20for%20Termination%20Clearances%20and%20Maintenance%20Warning.pdf?u=vmp7gq&amp;download=true</a>
Product Info Document - Technical Data Sheets	<a href="https://rinnai.widen.net/content/ijuakm1jpx/original/800000197%2801%29%20I-Series%20Plus%20150K%20and%20175K%20BTU%20Condensing%20Boiler%20Check%20Sheet.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/ijuakm1jpx/original/800000197%2801%29%20I-Series%20Plus%20150K%20and%20175K%20BTU%20Condensing%20Boiler%20Check%20Sheet.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/bideblbli/original/800000196%2801%29%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Tech%20Sheet.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/bideblbli/original/800000196%2801%29%20I-Series%20Plus%20150K%20BTU%20and%20Smaller%20Solo%20Boiler%20Tech%20Sheet.pdf?u=vmp7gq&amp;download=true</a>
Product Returnable Y/N	No
Product Series	Condensing Boiler
Product Status	Active
Product Sub Series	I-SERIES_Plus_S
Product Weight	62.6 lb / (28.3 kg)
Product Width	18.5 inch / (470 mm)
Prop 65 Chemicals (CAS)	lead, lead compounds, carbon disulfide
Prop 65 Warning Required	Yes
Prop 65 Warning Statement	California law requires this notice to be provided: California Proposition 65: This product can expose you to chemicals including Di (2-ethylhexyl) phthalate (DEHP) and carbon bisulfide which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, visit <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
Publish to RAC Website	Yes
Recirculation Capable	No
RevitWidgetID	58696
Sellable Country	US/CAN
Shipping Height (inches/cm)	33.5 inch / (852 mm)
Shipping Length (inches/cm)	14.6 inch / (370 mm)
Shipping Weight (lbs/kg)	69.1 lb / (31.4 kg)

Attribute	Value
Shipping Width (inches/cm)	20.9 inch / (532 mm)
SmartThings Compatible	No
Sound Level	40.0
UL Listed	Yes
UPC Code	766156017247
Venting diameters	2in: PVC, CPVC, PP, SS; 3in PVC, CPVC, PP, SS, 2/4in, 3/5in
Venting Material	Polypropylene, Stainless Steel, PVC, CPVC
Venting Type	Concentric, Twin Pipe, Room Air
Video - 360 Spin	<a href="https://rinnai.widen.net/content/dntk82omxw/original/I-Series%2BPlus%20360%20spin.mp4?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/dntk82omxw/original/I-Series%2BPlus%20360%20spin.mp4?u=vmp7gq&amp;download=true</a>
Video - For Trade Professionals	<a href="https://rinnai.widen.net/content/t77qncldz8/original/I-Series%20Innovative%20Logic.mp4?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/t77qncldz8/original/I-Series%20Innovative%20Logic.mp4?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/pdt8rtwds3/original/I-Series%20combined.mp4?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/pdt8rtwds3/original/I-Series%20combined.mp4?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/e7gfjcy3pn/original/I-Series%20SmartSense.mp4?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/e7gfjcy3pn/original/I-Series%20SmartSense.mp4?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/0rboyz9fn1/original/I-Series%20SmartConnect.mp4?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/0rboyz9fn1/original/I-Series%20SmartConnect.mp4?u=vmp7gq&amp;download=true</a>
Video - How It Works	<a href="https://rinnai.widen.net/content/1nfwigiwwa/original/I-SERIES%20General%20Marketing%20Video.mp4?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/1nfwigiwwa/original/I-SERIES%20General%20Marketing%20Video.mp4?u=vmp7gq&amp;download=true</a>
Voice Activation Enabled	No
Warranty - Standard for Commercial	1 Year on Labor / 5 Years on Parts / 5 Years on Heat Exchanger
Warranty - Standard for Residential	1 Year on Labor / 5 Years on Parts / 12 Years on Heat Exchanger
Water Content	0.75 Gallons / (2.83 L)