

RCB • SERIES

Commercial Wall-Hung & Floor-Standing Hydronic Boilers

Advanced Performance

The **RCB•SERIES**[™] boiler offers a complete line of condensing, gas-fired Wall-Hung and Floor-Standing Hydronic Boilers that act as a primary or secondary building heat source in any size commercial application.

Rely on the **RCB•SERIES**[™] to deliver reliable, energy saving performance for your building with a ground breaking feature set that outperforms other boilers in its class.

Intuitive 7" LCD Touchscreen Display



Intuitive Controls for simple start up, maintenance and monitoring.

QR code available on **SERVICE** menu goes directly to manuals.

All **RCB•SERIES**[™] models make it easy to program, access and monitor your boiler performance data onsite or with multiple connectivity features.

- 7" LCD Touchscreen puts total control at your fingertips
- Simple set-up lets you adjust and customize parameters to maximize performance
- Demand Screen gives you critical information with color coded boiler status messages
- Built-in Pump Control indirect pump, boiler pump, system pump
- Standard Integrated Wi-Fi Connectivity
 Monitor boiler performance data via Wi-Fi
- Built-In BMS Capability 0-10V input for Building Management System (BMS)
- Built-In Modbus (optional BACnet and Lon Works)



Features Common to All RCB Models

- Up to 98% Thermal Efficiency
- 10:1 Turndown Ratio
- 316L SS WaterTube Heat Exchanger
- 2 Pump Controls Plus Indirect Tank
- Outdoor Reset Included
- No Special Cascade Cables (T-Stat Wire)
- Primary Secondary Piping Required
- Warranty: 10 Year HEX (Non-Prorated)
 1-year Parts and Labor
- Smart Service Access with 270 degrees of access with removable panels

- Transport with ease, fits into freight elevators or through standard doorways
- Field Conversion Kit available
- ASME Certified, "H" stamped and National Board listed





Easy Installation & Service of Wall-Hung Boilers

- Light weight at 170 lbs (301 model) or 183 lbs (399 model)
- Small footprint, only 7.9 cubic feet saves space in mechanical room
- Easy-Hang Wall Mount bracket speeds installation
- · No special tools required



Easy-Hang Wall Mount Bracket

Easy Installation & Service of Floor-Standing Boilers

- Roll onto job site with locking casters and leveling feet
- Only 28.5" wide, fits through a standard commercial doorway
- · Maximum weight of 567 lbs.
- Secure Access with Service Panel Key
- Common Vent up to 2MM Btu
- Integrated 3 pump relays, up to 5 Amps each





Wall-Hung Model		RCB301AN	RCB399AN	
Input Rate		Max: 301,000 Btu/Hr Min: 30,100 Btu/Hr	Max: 399,000 Btu/Hr Min: 39,900 Btu/Hr	
Thermal Efficiency		97% 97%		
Dimensions - Width x Height x Depth		19.4 in. x 35.75 in. x 21.8 in. (493 mm x 908 mm x 554 mm)		
Weight (Appliance)		170 lb (77 kg) 183 lb (83 kg)		
Weight (Shipping)		194 lb (88 kg)	207 lb (94 kg)	
Appliance Type		Condensing Wall-Hung Gas-Fired, Heat-Only (Solo) Boiler		
Installation Type		Indoor Wall-Hung		
Flue System		Category IV Forced Draft Direct Vent, Power Vent		
Ignition System		Direct Electronic Ignition		
Heat Exchanger		316L Stainless Steel Water Tube		
Heat Exchanger Surface	e Area	24.6 sq ft	30.7 sq ft	
Gas	Minimum	30,100	39,900	
Consumption (Btu/Hr)	Maxium	301,000	399,000	
Temperature Setting	Central Heating	(Minimum - Maximum) 86°F - 180°F (30°C - 82°C)		
	Indirect Tank (DHW)	104°F - 176°F (40°C - 80°C)		
Water Content		1.8 gal (6.8 lt)	2.2 gal (8.3 lt)	
Water Pressure	Central Heating (CH)	Minimum: 14.5 PSI (1 bar) Maximum: 87 PSI (6 bar) Maximum Allowable Water Pressure (MAWP): 160 PSI (1103 kPa)		
	Pressure Relief Valve (PRV) included with system	75 PSI (5.2 bar)		
Sound Level		55 dB(A)	56 dB(A)	
	Gas Inlet	1 inch NPT		
Connection Sizes	Supply/Return	1.25 inch NPT		
	Intake/Exhaust	4 inch PVC		
	Normal	133 W	210 W	
Electrical Data	Standby	10 W		
	Max Current	6.3 Amps		
	Fuse	2 X 6.3 Amps		
Gas Supply Pressue ¹	Natural Gas	3.5 in 10.5 in. W.C. (0.87 - 2.61 kPa)		
	Propane	8.0 in 13.5 in. W.C. (1.99 - 3.36 kPa)		
Electric Connections		AC 120 Volts, 60 Hz		
Certifications		ANSI Z21.13, CSA 4.9, ASME		
Canada CRN		Y6325.2C		
Warranty		Heat Exchanger: 10 years All other pats and components: 1 year Reasonable labor: 1 year See the Rinnai Commercial Boiler Warrant y for complete details.		
Venting 45° elbow is equivalent to 3 ft (1m) 90° elbow is equivalent to 6 ft (2m)	Options	Direct Vent Non-Direct Vent (room air)		
	Materials	PVC, CPVC, PP, and Stainless Steel		
	Vent Size	4 in. PVC/CPVC		
	Exhaust ²	Vent Run (Min-Max): 10 ft (3 m) - 140 ft (43 m)		
	Intake ²	Vent Run (Min-Max): 0 ft (0 m) - 140 ft (43 m)		
	High Altitude	• 0-2,000 ft (0-609 m) - 140 ft (43 m) • For altitudes above 2,000 ft (609 m), vent length is reduced to 90 ft (27 m)		
Safety Devices		Flame Ionization Probe, Water Temperature High Limit, Exhaust Temperature High Limit, Water Pressure Sensor, Blocked Vent Pressure Switch, Condensate Trap, Burner Door Switch, Thermal Fuse, Freeze Protection		
	ure must not exceed the value specifie lly being updated and improved, there	d by the manufacturer. fore, specifications are subject to change without prior r	notice.	

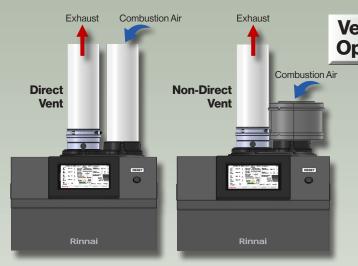
Floor-Standing Model		RCB500AN	RCB750AN	RCB1000AN		
Input Rate		Max: 500,000 Btu/Hr Min: 50,00 Btu/Hr	Max: 750,000 Btu/Hr Min: 75,000 Btu/Hr	Max: 999,000 Btu/Hr Min: 99,900 Btu/Hr		
Thermal Efficiency		97%	97.5%	98%		
Dimensions - Width x Height x Depth		21.75 in. x 39.5 in. x 30.75 in. (550 mm x 1004 mm x 781 mm)	28.5 in. x 44.5 in. x 51.75 in. (723 mm x 1127 mm x 1312 mm)			
Weight (Appliance)		243 lb (110 kg)	525 lb (238 kg)	567 lb (257 kg)		
Weight (Shipping)		300 lb (136 kg)	591 lb (268 kg)	633 lb (287 kg)		
Appliance Type		Condensing Floor-Standing Gas-Fired, Heat-Only (Solo) Boiler				
Installation Type		Indoor Floor-Standing				
Ignition System		Direct Electronic Ignition				
Heat Exchanger		316L Stainless Steel Water Tube				
Heat Exchanger Surface Area		36.8 sq ft	60.9 sqft	75.4 sq ft		
Gas Consumption (Btu/Hr)	Minimum	50,000	75,000	99,000		
	Maxium	500,000	750,000	999,000		
Temperature Setting	Central Heating	(Minimum - Maximum) 86°F - 180°F (30°C - 82°C)				
	Indirect Tank (DHW)	104°F - 176°F (40°C - 80°C)				
Water Content		12.7 gal (10.1 lt)	6.6 gal (24.8 lt)	8.1 gal (30.6 lt)		
Water Pressure	Central Heating (CH)	Minimum: 14.5 PSI (1 bar) Maximum Allowable Water Pressure (MAWP): 160 PSI (1103 kPa)				
	Pressure Relief Valve (PRV) included with system	75 PSI (5.2 bar)				
Connection Sizes	Gas Inlet	1 inch NPT	1.25 inch NPT	2 inch NPT		
	Supply/Return	1.5 inch NPT	2 inch NPT	2 inch NPT		
	Intake/Exhaust	4 inch PVC	6 inch PVC	6 inch PVC		
	Normal	350 W	484 W	605 W		
Electrical Data	Standby	10 W				
Electrical Data	Max Current	20 Amps				
Fuse		Main Controller: 2 X 6.3 Amps Each Pump (Boiler, CH, DHW),Fan: 5 Amps				
Sound Level		59 dB(A) 63 dB(A) 65 dB(A)				
Gas Supply	Natural Gas	3.5 in 10.5 in. W.C. (0.87 - 2.61 kPa)				
Pressue ¹	Propane	8.0 in 13.5 in. W.C. (1.99 - 3.36 kPa)				
Electric Connections		AC 120 Volts, 60 Hz				
Certifications		ANSI Z21.13, CSA 4.9, ASME				
Canada CRN		Y6325.2C R5402.5C				
Warranty		Heat Exchanger: 10 years All other pats and components: 1 year Reasonable labor: 1 year See the Rinnai Commercial Boiler Warranty for complete details.				
Venting 45° elbow is equivalent to 3 ft (1m)	Options	Direct Vent Non-Direct Vent (room air)				
	Materials	PVC, CPVC, PP, and Stainless Steel				
	Vent Size	4 in. PVC/CPVC	6 in. PVC/CPVC			
	Exhaust ²	Vent F	Vent Run (Min-Max): 10 ft (3 m) - 140 ft (43 m)			
	Intake ²	Vent Run (Min-Max): 0 ft (0 m) - 140 ft (43 m)				
Maximun Installation Altitude		10,200 ft (3,109 m)				
Safety Devices		Flame Ionization Probe, Water Temperature High Limit, Exhaust Temperature High Limit, Water Pressure Sensor, Blocked Vent Pressure Switch, Condensate Trap, Burner Door Switch, Thermal Fuse, Freeze Protection				

²RCB500AN Model ONLY: For altitudes above 2,000 ft (609 m), vent length is reduced to 110 ft (33 m).
Rinnai products are continually being updated and improved, therefore, specifications are subject to change without prior notice.

Integrated Cascade Connection

Multiple boiler configurations are accommodated with our Integrated Cascade Logic that distributes runtimes equally for optimal application diversity.

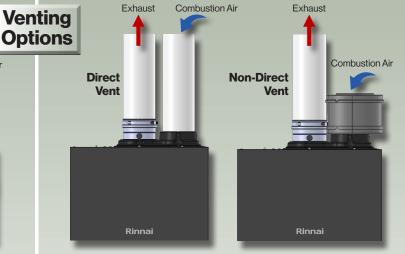
- Runtimes are equally distributed on up to 8 units (wall-hung or floor-standing models) with interchangeable lead unit
- Simplifies operation and interchangeability of units in a system, One SKU for each Btu size
- No special cables required, uses industry standard thermostat wire



Floor-Standing Models

- Multiple venting options in either twin pipe or room air allows you to locate units where you want to within the building
- Concentric side wall or vertical termination configurations optional to minimize building penetrations
- Model RCB500AN. Use 4" PVC or PP for maximum vent runs of 140 feet in both twin pipe and room air applications
- Models RCB750AN and RCB1000AN. Use 6" PVC or PP for maximum vent runs of 140 feet in both twin pipe and room air applications
- Model RCB500AN. Common Vent up to 4 units on 8" PVC or PP
- Models RCB750AN and RCB1000AN. Common Vent up to 2 units on 8" PVC or PP
- Industry-leading Common Vent runs (see install manual for details)
- Vent Material options are PVC, CPVC, PP and Stainless Steel





Wall-Hung Models

- Multiple venting options in either twin pipe or room air allows you to locate units where you want to within the building
- Concentric side wall or vertical termination configurations optional to minimize building penetrations
- Models RCB301AN, RCB399AN. Use 4" PVC or PP for maximum vent runs of 140 feet in both twin pipe and room air applications
- Models 301 and 399. Common Vent up to 4 units on 6" PVC or PP
- Industry-leading Common Vent runs (see install manual for details)
- Vent Material options are PVC, CPVC, PP and Stainless Steel



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Included Accessories

- · Wall Mounting Bracket w/Screws
- Pressure Relief Valve: 75 PSI (5.2 bar)
- Outdoor Temperature Sensor
- Documentation: Installation and Operation Manual, User Manual, Warranty Card

Wall-Hung Models



RCB301AN

Optional Accessories

- Condensate Neutralizer
- Air Inlet Filter
- · Cascade System Sensor
- Boiler Rack
- · Gas Conversion Kit
- BACnet Adapter
- BACnet Adapter w/ LonWorks



Included Accessories

- Pressure Relief Valve: 75 PSI (5.2 bar)
- Outdoor Temperature Sensor
- Pressure and Temperature Gauge
- Documentation: Installation & Operation Manual, User Manual, Warranty Card



Floor-Standing Models RCB1000AN RCB750AN **Optional Accessories** Condensate Neutralizer **Air Inlet Filter** • Cascade System Sensor Gas Conversion Kit BACnet Adapter BACnet Adapter w/ LonWorks • Water Temperature High Limit **ASME CSD-1** · High & Low Gas Pressure Switches ASME CSD-1 Low Water Cut-Off ASME CSD-1

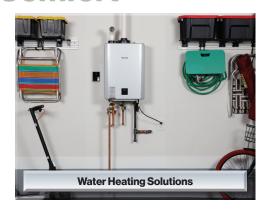
Rinnai_®

Over 100 Years of Smart Comfort



With headquarters in Japan and a global network of subsidiaries and sales offices, Rinnai has enhanced the way businesses and residences heat their water.

Dedicated to a smarter kind of comfort, our value-added products continue to stay in step with demands of a changing world.





Proudly assembling Tankless Water Heaters at our state-of-the-art factory located in Griffin, Georgia, USA

Rinnai established its US operations in 1974 and introduced Tankless Water Heating to the North American Market in 1999.



RE-SERIES™ Non-Condensing Tankless Water Heaters beginning in 2022.

Rinnai continues to make significant investments in expanding its operations and product portfolio.







Creating a healthier way of living.®

Learn more about Rinnai high-performance Tankless Water Heaters, Hybrid Water Heating Systems, Boilers, Vent-Free Fan Convectors, EnergySaver® Direct Vent Wall Heaters, Hydronic Air Handlers, Electric Heat Pump Water Heaters, and Accessories.

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Official Water Heater of Tony Stewart Racing

