



Commercial Condensing Boilers

Wall-hung and floor-mounted RCB • Volume water heaters RCW • Stocked in Las Vegas

10:1 TURNDOWN

Full modulation on every RCB model 301–1000 MBH, including the floor units.

316L WATER TUBE

ASME H-stamped stainless heat exchanger. Compact footprint, serviceable design.

CASCADE TO 8 UNITS

Interchangeable lead. No special cascade cables — thermostat wire. Common vent.

What is actually on the flyer — verified against Rinnai published specs

- RCB399AN wall: 39,900–399,000 Btuh, 10:1, 97% thermal (line marketed “up to 98%”; 98% is the 1000 MBH floor unit).
- RCB500AN floor: ~50,000–500,000 Btuh, 10:1, 97% thermal, 316L water-tube, casters on floor models.
- Full RCB line: 301 / 399 wall and 500 / 750 / 1000 floor. RCW volume heaters: 399 / 500 / 750 / 1000.
- Warranty: RCB 10-yr non-prorated HEX + 1-yr parts + 1-yr reasonable labor. RCW 5-yr HEX + 1-yr parts + 1-yr labor.
- Cascade technical max is 8 units (not just 2,000 MBH). $4 \times \text{RCB500} = 2,000$ MBH matches the flyer headline plant.
- CSD-1 items on the flyer (gas pressure switches, LWCO, high-limit) are the right accessories for commercial floor jobs.
- Flyer unit prices are local/stock pricing — not published national list. Confirm current AHS quote before you bid.

Rinnai RCB vs Lochinvar — where each one wins

	Rinnai RCB / RCW	Lochinvar (typical)
Modulation	10:1 on 301 through 1000	Knight wall 10:1; Knight XL 5:1; FTXL 10:1; Crest up to 25:1
HX style	316L water-tube, compact	Fire-tube on Knight/FTXL/Crest; water-tube on Knight XL
Range	301–1000 MBH + 8-unit cascade	55 MBH Knight through 6 MM Crest
Warranty HEX	10-yr non-prorated (RCB)	Often 10-yr limited; some Knight fire-tube 15-yr
Install	Light wall units; floor units roll on casters, ~28.5" wide	Heavier fire-tube floors; very familiar CSD-1 packages
Controls	7" touchscreen, Modbus, 0–10V, Wi-Fi	SMART SYSTEM / Con-X-US — spec language many engineers already write
Best fit	300–2,000 MBH plants, tight rooms, speed-to-stock	Named specs, large plants, 20:1+ turndown, fire-tube flow

BID RULE OF THUMB

Push RCB when the job is 300–2,000 MBH, the room is tight, they want 10:1 on a 500–1000, or you can ship from Las Vegas stock. Do not force RCB against a Crest 25:1 / 3–6 MM spec. Offer cascade only if the engineer will accept multiple modules.



First-pass crossover — confirm flow, ΔT , vent, gas, and CSD-1

Water-tube RCB is not a drop-in for fire-tube. Primary-secondary is required on RCB. Always size pumps and headers to Rinnai data.

Load	Rinnai offer	Lochinvar closest	Also see	Talk track
~300 MBH	RCB301AN wall	Knight WHN 285 / 399	Navien NFB-301	Space + 10:1 + stock
~399 MBH	RCB399AN wall *	Knight WHN399 or FTXL399	Navien NFB-399	Direct flyer SKU
~500 MBH	RCB500AN floor *	FTXL 500 or Knight XL 501	—	Rinnai 10:1 vs XL 5:1
~750 MBH	RCB750AN floor	FTXL 750 or Crest 750	Aerco Benchmark	Casters + 10:1 vs Crest size
~850–1000	RCB1000AN floor	FTXL 850 or Crest 1000	Aerco	98% thermal lives here
1.2–2.0 MM	2–4× RCB 500/750/1000	Crest 1500–2000 / multi FTXL	Aerco	Cascade simplicity vs one Crest
DHW volume	RCW 399–1000	Armor / Armor X2	Tankless racks	Same chassis as RCB, 5-yr HEX

* Units featured on the current AHS stock flyer. Cascade example: $4 \times \text{RCB500} = 2,000 \text{ MBH}$. Technical max = 8 units.

RCB / RCW lineup at a glance

Model	Mount	Input (Btuh)	TD	Therm. eff.	Notes
RCB301AN	Wall	30,100 – 301,000	10:1	97%	Lightest wall unit
RCB399AN	Wall	39,900 – 399,000	10:1	97%	Flyer stock model
RCB500AN	Floor / casters	50,000 – 500,000	10:1	97%	Flyer stock model
RCB750AN	Floor / casters	75,000 – 750,000	10:1	~97.5%	Fits std. doorway
RCB1000AN	Floor / casters	99,900 – 999,000	10:1	98%	Top of RCB line
RCW399–1000	Floor / casters	Same family inputs	10:1	up to 99%*	Volume water heater

* RCW efficiency is published by Rinnai as “up to 99%” on the volume-heater line. Confirm AHRI/submittal for the exact SKU.

Spec language that kills a swap

- “Fire-tube heat exchanger only” — RCB is water-tube.
- Named Lochinvar SMART SYSTEM / Con-X-US.
- Minimum turndown 15:1 or 20:1 (Crest territory).
- Single-unit plant over ~1.5–2 MM with no cascade allowed.
- Flow / pressure-drop tables written around fire-tube.
- Outdoor / rooftop without checking RCW outdoor kit.

How we help you win the job

- Las Vegas stock on featured 399 wall and 500 floor.
- Full RCB and RCW line direct from factory.
- CSD-1 package: gas switches, LWCO, high-limit.
- Cascade sensor, condensate neutralizer, vent accessories.
- Submittals, sizing, and primary-secondary layouts.
- Same desk that already quotes steam, PRVs, and PP-R.

NEXT STEP

Send the load, design ΔT , gas pressure, vent path, and whether CSD-1 applies. We will return a Rinnai selection, Lochinvar cross, accessory list, and a bid-ready number. Featured flyer units ship from Las Vegas stock.

Air & Hydronic Specialties

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