

Combi Boiler Feature Comparison Chart

Ruud® FT™ Series vs. Ruud® ThermaForce®



Feature	Ruud FT™ Series Combi Boiler	Ruud ThermaForce® Combi Boiler
Models	RUCBH-FT150, RUCBH-FT199	RUCBH-L125i, RUCBH-L160i, RUCBH-L199i
Type	Combi Boiler (Space & DHW)	Combi Boiler (Space & DHW)
AFUE Efficiency	95%	L160i 94%, L125i 95%, L199i 95%
ENERGY STAR® Certified	Yes	Yes
Heat Exchanger	ASME 439 stainless steel fire tube and combi block	Patented (labyrinth) aluminum block with copper waterways
Turndown Ratio	10:1	L125i: 6:1, L160i: 7:1, L199i: 7:1
Domestic Hot Water (DHW) Output	Yes	Yes
Boiler Input Range (Heating Mode) BTU/h Min. - Max.	FT150: 15,000 - 150,000 FT199: 20,000 - 199,000	L125i: 16,500 - 99,000 L160i: 23,000 - 125,000 L199i: 28,500 - 125,000
Boiler Output Range (Heating Mode) BTU/h Min. - Max.	FT150: 14,300 - 138,500 FT199: 19,100 - 183,700	L125i: 15,800 - 89,000 L160i: 22,000 - 111,000 L199i: 27,100 - 111,000
Input Range DHW BTU/h Min. - Max.	FT150: 15,000 - 150,000 FT199: 20,000 - 199,000	L125i: 16,500 - 125,000 L160i: 23,000 - 160,000 L199i: 28,500 - 199,000
Built-in Pump	Yes – Pre-installed and factory-wired	Yes – ECM variable speed pump
Zone Control	Yes – 4 Zones	No
Cascade Capability	Yes – up to 4 units (space heating only)	Yes – Wireless cascading (no Wi-Fi required); up to 8 units (for both space heating and DHW)
Control Interface	Full color LCD touchscreen display for easy setup and maintenance	Illuminated touchscreen with diagnostics
Parts Simplicity	4 Universal Shared Platform Parts: Fan, Gas Valve, Boiler Pump, Diverting Valve	5 Universal Shared Platform Parts: Fan, Bypass Valve, Boiler Pump, Gas Valve and Damper
Reverse Flow Detection	Yes	No
Outdoor Reset Sensor	Yes	Yes
CSA/UL Approved Low Water Cut-Off	Yes	No
Moisture Free Zone (MFZ) Technology	Yes	No – Not required with damper
Venting Options	PVC/CPVC/PPs approved; up to 170 ft (3")	PVC/CPVC/PPs approved; up to 120 ft (3")
Ultra Low NOx	Yes	Yes
Size (L x W x H Inches)	FT150: 18.6 x 17.1 x 34.8 FT199: 20 x 17.1 x 34.8	17.7 x 10.9 x 32.5
Weight (lbs)	FT150: 100 lbs, FT199: 113 lbs	85 lbs
Warranty	15-year heat exchanger, 5-year parts, 1 year labor	10-year heat exchanger, 5-year parts, 1 year labor

Combi Boiler Feature Sheet

Ruud® FT™ Series vs. Ruud® ThermaForce®

Ruud® FT™ Series combi boilers deliver high-efficiency heating and on-demand domestic hot water with intuitive touchscreen controls and built-in 4-zone control for precise, whole-home comfort. **Ruud® ThermaForce® combi boilers** provide dependable heating and domestic hot water with streamlined installation and wireless cascading for flexible, space-saving performance.



FT™ Series Super High Efficiency Condensing Combi Boiler

Key Unique Features:

Maximum Control

- Intuitive touchscreen display simplifies setup, maintenance & troubleshooting
- 4-zone temperature control capability
- Turndown ratio: 10:1

Designed for Long Life

- Stainless steel fire tube heat exchanger with a 15-year warranty
- Pre-installed and factory wired primary pump
- Moisture free zone (MFZ) technology



- 1 Fan
- 2 Safety Ignition Module (SIM+)
- 3 Gas Valve
- 4 Full Color Intuitive Touchscreen Display
- 5 Stainless Steel Fire Tube Heat Exchanger & Pump
- 6 Return Water Pipe
- 7 Supply Water Pipe
- 8 Diverting Valve

Models

RUCBH-FT150	RUCBH-FT199
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ThermaForce® Super High Efficiency Condensing Combi Boiler

Key Unique Features:

Streamlined Installation and Service

- Wireless cascading capability – up to 8 units
- 5 universal shared platform parts
- Built-in ECM variable speed pump

Durable Design

- Patented labyrinth aluminum heat exchanger with a 10-year warranty



- 1 Damper
- 2 Burner Fan
- 3 Labyrinth Aluminum Heat Exchanger
- 4 Field Convertible from Natural Gas to Liquid Propane
- 5 Bypass Valve
- 6 Built-In ECM Boiler Pump
- 7 Illuminated Touchscreen Control Panel
- 8 1" Space Heating Connection
- 9 Condensate Trap
- 10 3/4" Domestic Water Connections

Models

RUCBH-L125i	RUCBH-L160i	RUCBH-L199i
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CONTACT US

Customer Service, Warranty and Parts . . . 800.621.5622
 Technical Service 833.212.9276
 Plumber Support Group 866.339.2388

Ruud.com/Boiler

In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice.



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