

Boiler Feature Comparison Chart

RUUD® FT™ Series vs. RUUD® ThermaForce®



FEATURE	RUUD FT™ SERIES BOILER	RUUD THERMAFORCE® BOILER
Models	FT110, FT150, FT199, FT260, FT399	L99i, L120i
Type	Space Heating Boiler	Space Heating Boiler
AFUE Efficiency* or Thermal Efficiency**	FT399: 96%** and FT110, FT150, FT199, FT260: 95%*	L99i: 96%* L120i: 95%*
ENERGY STAR® Certified	Yes	Yes
Heat Exchanger	ASME 439 stainless steel fire tube	Patented (labyrinth) aluminum block with copper waterways
Turndown Ratio	FT110, FT150, FT199: 6.5:1, FT260, FT399: 10:1	L99i 6.4:1 L120i 8.8:1
Domestic Hot Water (DHW) Output	No, but is compatible with RUUD indirect tanks to get DHW	No, but is compatible with RUUD indirect tanks to get DHW
Boiler Input Range (Heating Mode) BTU/h Min. - Max.	FT110: 16,900 - 110,000, FT150: 23,000 - 150,000 FT199: 30,600 - 199,000, FT260: 26,000 - 260,000 FT399: 40,000 - 399,000	L99i: 15,500 - 99,000 L120i: 13,650 - 120,000
Boiler Output Range (Heating Mode) BTU/h Min. - Max.	FT110: 16,200 - 101,500, FT150: 22,000 - 138,500 FT199: 29,200 - 183,700, FT260: 24,900 - 239,000 FT399: 38,400 - 383,000	L99i: 14,800 - 89,000 L120i: 13,000 - 108,000
Built-in Pump	No – Sold separately	Yes – ECM variable speed pump
Zone Control	Yes – 4 Zones	No
Cascade Capability	Yes - up to 4 boilers (FT110, FT150, FT199) and up to 24 boilers (FT260, FT399)	Yes – Wireless cascading (no Wi-Fi required); up to 8 units
Control Interface	Full color LCD touchscreen display for easy setup and maintenance	Illuminated touchscreen with diagnostics
Parts Simplicity	2 Universal Shared Platform Parts: Fan, Gas Valve	4 Universal Shared Platform Parts: Fan, 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 200 ft (2" or 4") and 480 ft (3")	PVC/CPVC/PPs approved; up to 120 ft (3")
Ultra Low NOx	Yes	Yes
BACnet Interface Option Available	Yes	No
Size (L x W x H inches)	FT110: 17.8 x 16.9 x 28.1, FT150: 18.8 x 18.6 x 28.2 FT199: 20.4 x 19.6 x 28.2, FT260: 25 x 17.6 x 35.6 FT399: 27 x 19.5 x 39.9	17.7 x 10.9 x 32.5
Weight (lbs)	FT110: 67 lbs, FT150: 78 lbs, FT199: 88 lbs, FT260: 162 lbs, FT399: 240 lbs	L99i: 84 lbs, L120i: 85 lbs
Warranty	15-year heat exchanger, 5-year parts, 1-year labor	10-year heat exchanger, 5-year parts, 1-year labor

Boiler Feature Sheet

RUUD® FT™ Series vs. RUUD® ThermaForce®

RUUD® FT™ Series boilers deliver high performance and feature an intuitive touchscreen display and 4-zone control ideal for larger homes that require maximum control. **RUUD® ThermaForce® boilers** offer wireless cascading and a streamlined installation. Both are durable and built for long life in new construction and retrofit applications.



FT™ Series Super High Efficiency Condensing Boiler

Key Unique Features:

Maximum Control

- Intuitive touchscreen display simplifies setup, maintenance & troubleshooting
- 4-Zone control capability
- Up to 10:1 turndown ratio

Designed for Long Life

- Stainless steel fire tube heat exchanger with a 15-year warranty
- Moisture free zone (MFZ) technology
- Reverse flow detection



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| 1 Intake Duct | 7 Return Pipe | 12 Water Pressure Sensor |
| 2 Exhaust Duct | 8 Low Water Cutoff Probe | 13 Gas Line |
| 3 Stainless Steel Fire Tube Heat Exchanger | 9 Supply Temp. Sensor | 14 Gas Valve |
| 4 Ignition Module | 10 Return Temp. Sensor | 15 Ignitor |
| 5 Fan | 11 Full Color Intuitive Touchscreen Display | 16 Manual Air Vent |
| 6 Supply Pipe | | |

ThermaForce® Super High Efficiency Condensing Boiler

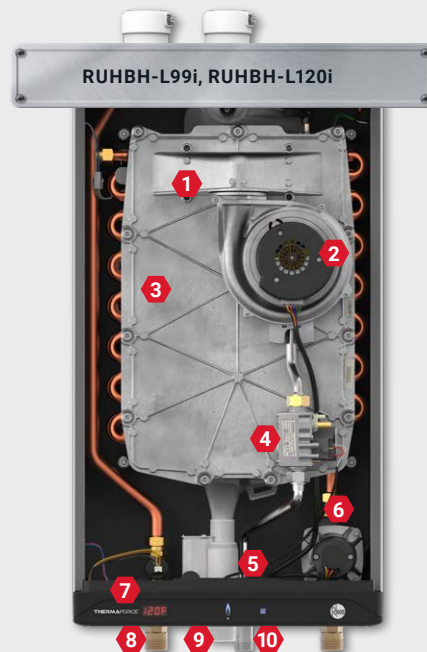
Key Unique Features:

Streamlined Installation and Service

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

Durable Design

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



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

*From Natural Gas to Liquid Propane

CONTACT US

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RUUD.com/Boiler

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

