

THERMAFORCE®



Boilers

The Complete Whole Home Heating

solution.

Rheem® ThermaForce® Super High Efficiency Condensing Boilers, Combi Boilers and Tankless Gas Water Heaters

UP TO
96% AFUE
EFFICIENCY

**TANKLESS GAS
WATER HEATERS**

COMBI BOILERS

BOILERS



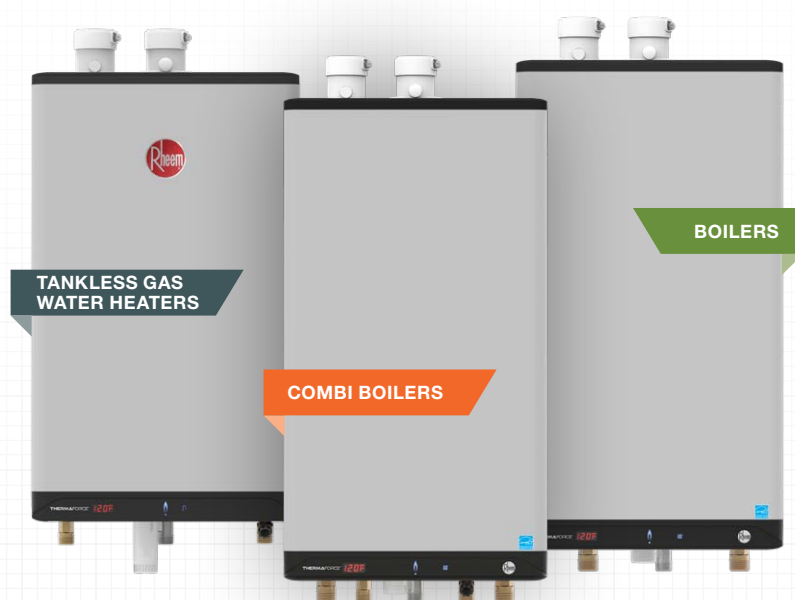
Rheem.com/Boiler

Rheem® ThermaForce® Super High Efficiency Condensing Platform: A Complete Whole Home Heating Solution

The Rheem® ThermaForce® platform makes it easier than ever to deliver a complete whole home comfort solution, from space heating and domestic hot water to continuous hot water on demand.

The super high efficiency condensing platform includes boilers, combi boilers, and tankless gas water heaters engineered for dependable performance, simplified serviceability, and installation flexibility.

Designed with only four or five moving parts, a patented labyrinth heat exchanger, sleek European-inspired styling, and advanced wireless cascading technology, ThermaForce® products provide reliable comfort, simplified installation, space-saving performance, and long-lasting value for both new construction and retrofit applications.



Key Platform Features

Innovative Technology

Patented labyrinth heat exchanger - aluminum block heat exchanger with integrated copper waterways ensures maximum heat transfer with minimal heat loss

Advanced modulation and redundancy - enhances cascade system efficiency with multiple units operating at low fire versus one unit operating at high fire to satisfy demand

Super High Efficiency

Reduces carbon footprint by using less energy compared to standard units

Improves air quality boiler and combi boilers reduce NOx emissions up to 75% compared to standard efficiency boilers¹, 65% reduction with tankless compared to standard gas tank²

Ultimate Serviceability

Universal shared platform parts make it easy to diagnose and service with common parts for all ThermaForce units

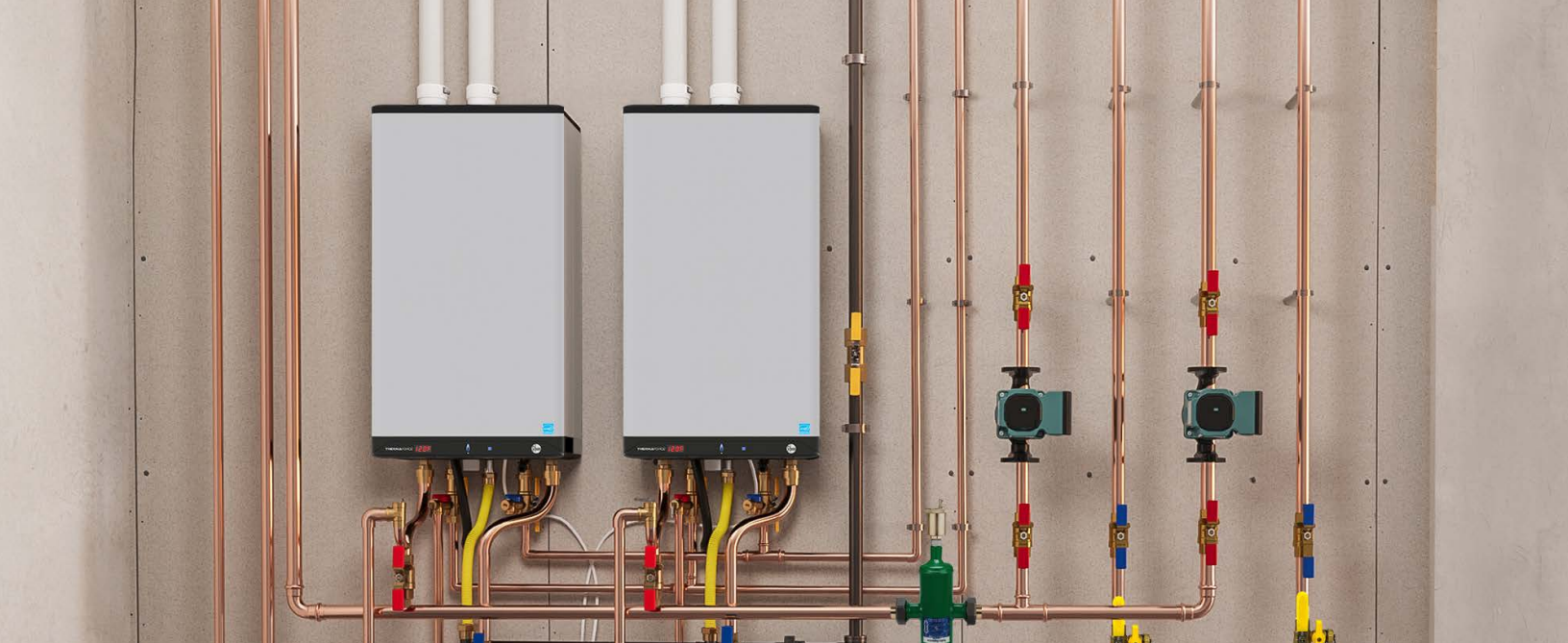
Unmatched streamlined design - fewer components to maintain. A total of four or five moving parts, unmatched in the industry, simplifies servicing. Fan, gas valve, damper, boiler pump (boiler/combi only) and bypass valve (select models)

Illuminated touchscreen control panel provides operational status, troubleshooting information, and allows setting adjustments

Field fuel convertible - easily convert from natural gas to liquid propane with included kit

Versatile venting options - provides installation flexibility with moveable combustion air intake (left/right), ability to flex vent in existing B vent, and 2" inlet and exhaust with band connections

Easy grip connections - extra long pipe fittings with notched sides for easy gripping with a wrench



First-to-Market Combi-to-Combi Wireless Cascading for Space Heating and Domestic Hot Water

The Rheem® ThermaForce® platform includes unique wireless cascading capabilities to meet the most demanding space heating and domestic hot water needs. The ThermaForce wireless cascade system is easy to set up, flexible and improves system efficiency and individual unit life.

Wireless Cascading

Cascade up to 8 ThermaForce units for demanding space heating and domestic hot water applications.

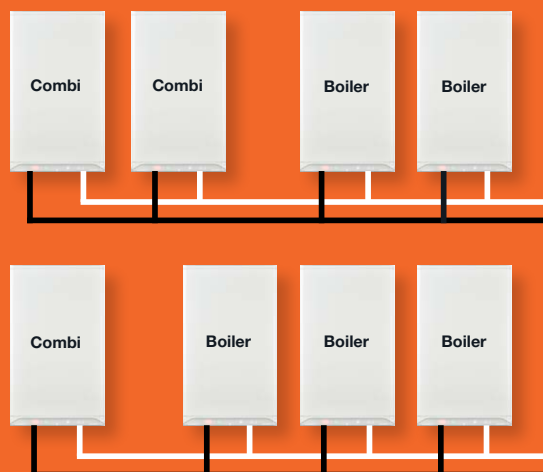
Wi-Fi not required - system uses radio frequency to communicate wirelessly.

Simple system setup - enable the built-in cascade function on the unit's display panel and connect the system sensor. No communication cables required.

Easy to scale - size and add units later when demand increases.

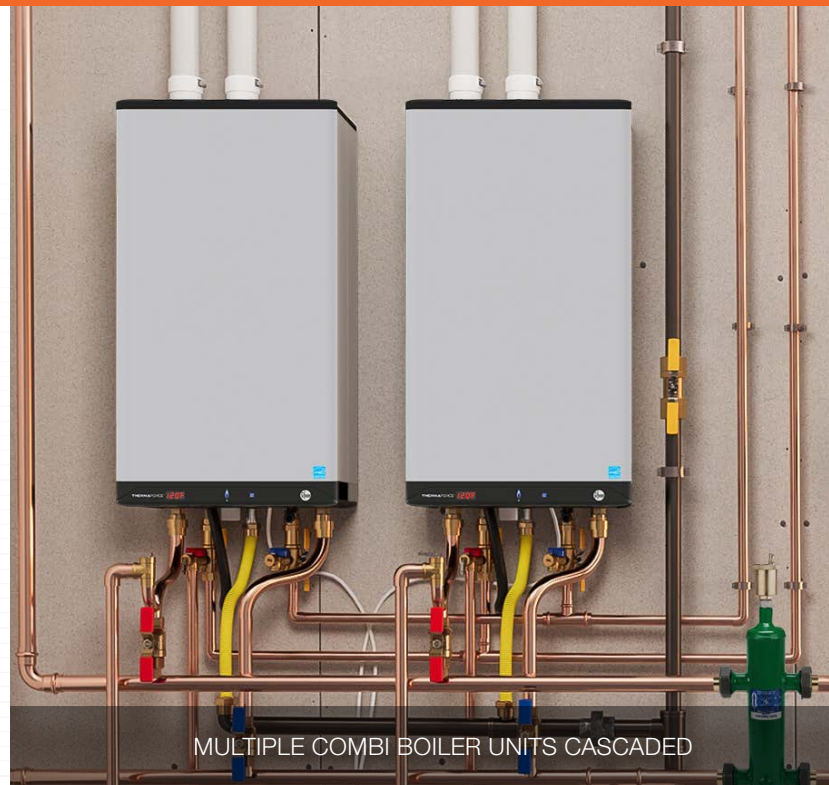
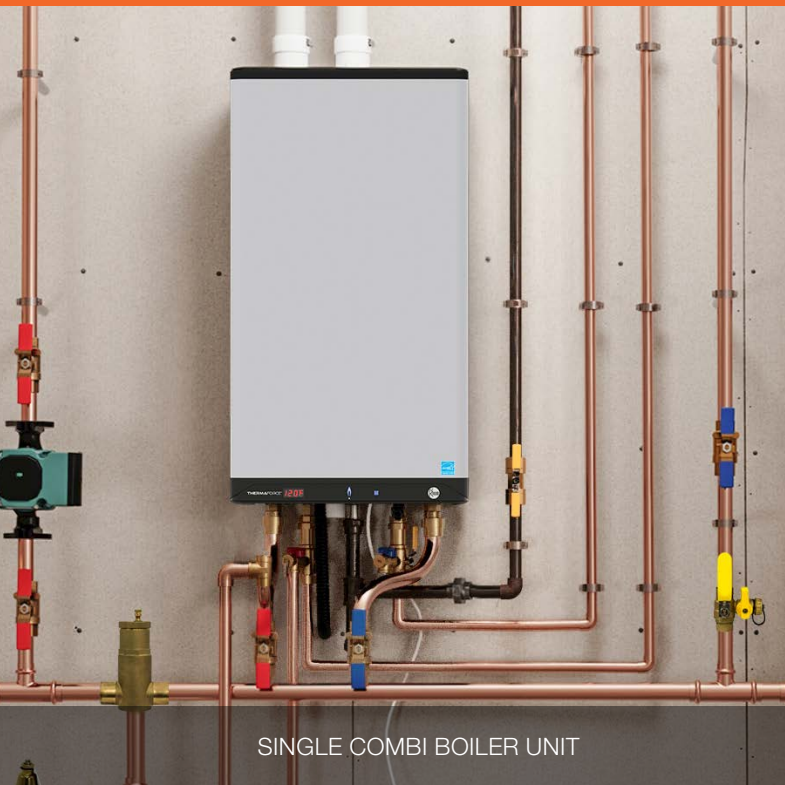
Ultimate system redundancy - system continues to operate during maintenance or repair of a cascaded unit.

Wirelessly cascade up to 8 units in multiple configurations



All ThermaForce® Models Deliver Proven Durability. The innovative heat exchanger reduces thermal stress on copper tubing limiting lime scale and damage.

THERMAFORCE® COMBI BOILERS



Combi Boilers

**RCBH-L125i, RCBH-L160i
& RCBH-L199i**

Indoor Direct Vent
125,000-199,000 BTU/h
Natural Gas/LP Convertible



2 -in-1 design for space and water heating

Combi Boiler Key Benefits

ThermaForce® combi boilers are packed with efficiency improving features in addition to a super high efficiency condensing heat exchanger.

Built-in high efficiency variable speed boiler pump uses less electricity than a standard pump.

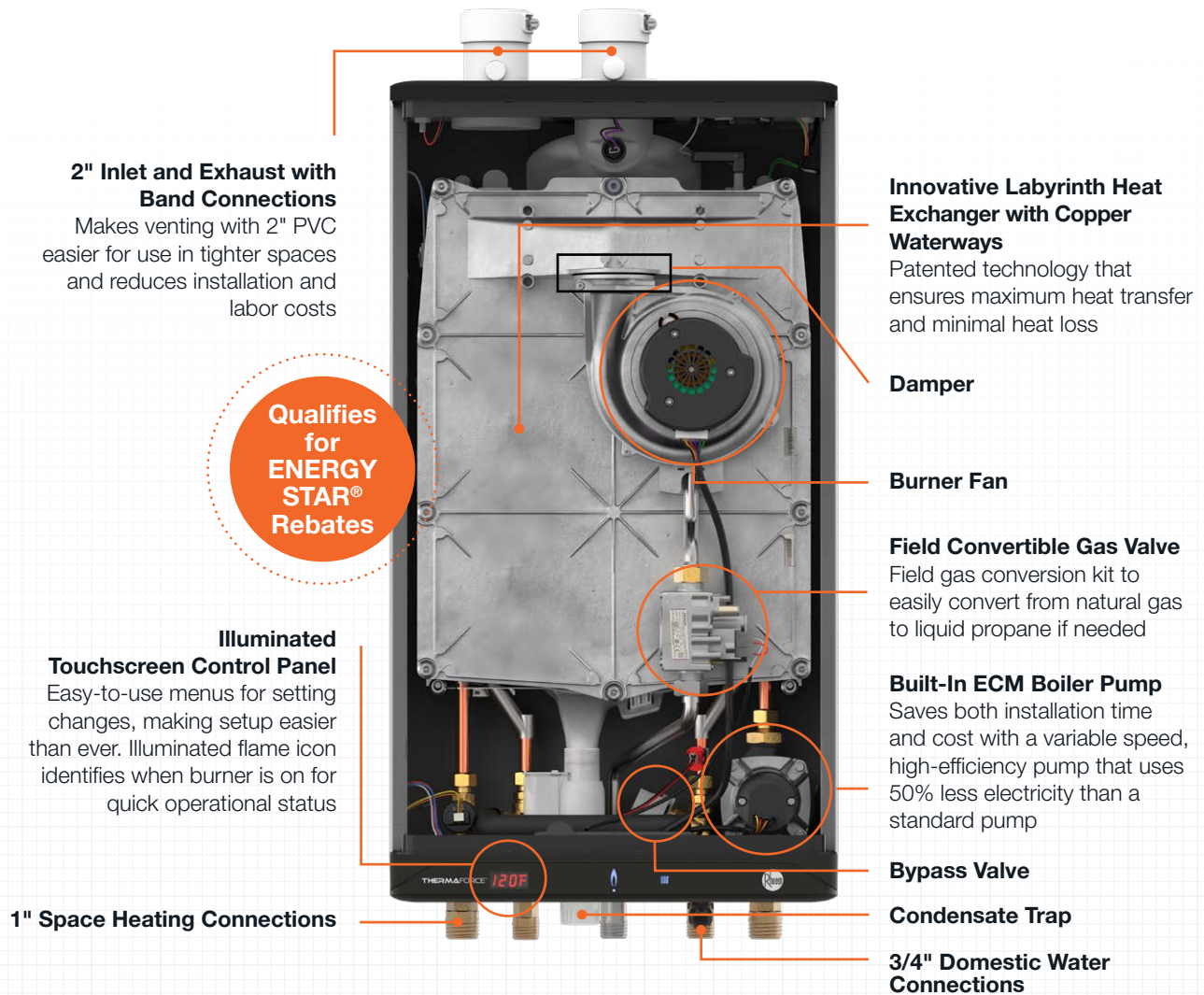
Outdoor reset technology adjusts the boiler supply temperature automatically based on outdoor temperature fluctuations.

ENERGY STAR® certified with up to 95% AFUE.

Combi Exclusives

Saves space and money with one appliance instead of two.

First-to-Market Combi-to-Combi Wireless Cascading for Space Heating and Domestic Hot Water.



All ThermaForce® Models Simplify Installation
by offering the same versatile venting options and flexible gas connections.



**Top View
Combustion Air Intake**
Ability to move either to the left or right side for flexible installation

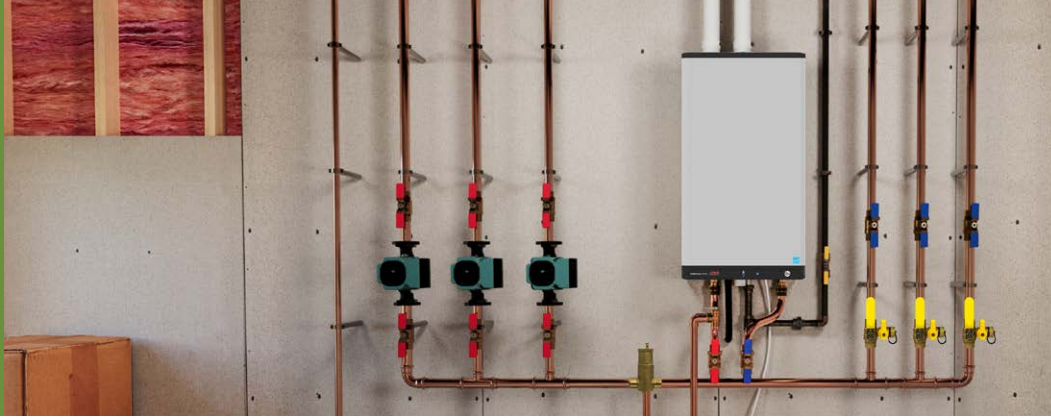


Alternate Top View



**Bottom View
3/4" Gas Line Connection**
Compatibility with a 1/2" gas line helps avoid the need for a new gas line (combi boiler and tankless 10' and under, boiler 30' and under)

THERMAFORCE® BOILERS



Boilers For Efficient Space Heating

RHBH-L99i & RHBH-L120i

Indoor Direct Vent, 99,000-120,000 BTU/h,
Natural Gas/LP Convertible

*See Available Models section for breakdown
of what is included in the box for each model.*



Boiler Key Benefits

ThermaForce® boilers offer the ultimate efficiency for home space heating through the innovative labyrinth heat exchanger and additional efficiency improving features.

Built-in high efficiency variable speed boiler pump uses less electricity than a standard pump.

Outdoor reset technology adjusts the boiler supply temperature automatically based on outdoor temperature fluctuations.

ENERGY STAR® certified with up to 96% AFUE.

Seamlessly operates with Rheem indirect tanks for consistent domestic hot water.

2" Inlet and Exhaust
with Band Connections

Flexible
Indirect Tank
Support

Illuminated Touchscreen
Control Panel

1" Space Heating Connections

Innovative Labyrinth
Heat Exchanger with
Copper Waterways

Damper

Burner Fan

Field Convertible Gas Valve

Built-In ECM Boiler Pump

Condensate Trap
3/4" Gas Line Connection



THERMAFORCE® TANKLESS GAS WATER HEATERS



Tankless Water Heaters Built for Hard Water Performance

RTGH-L199i

Indoor Direct Vent, 199,000 BTU/h,
Natural Gas/LP Convertible

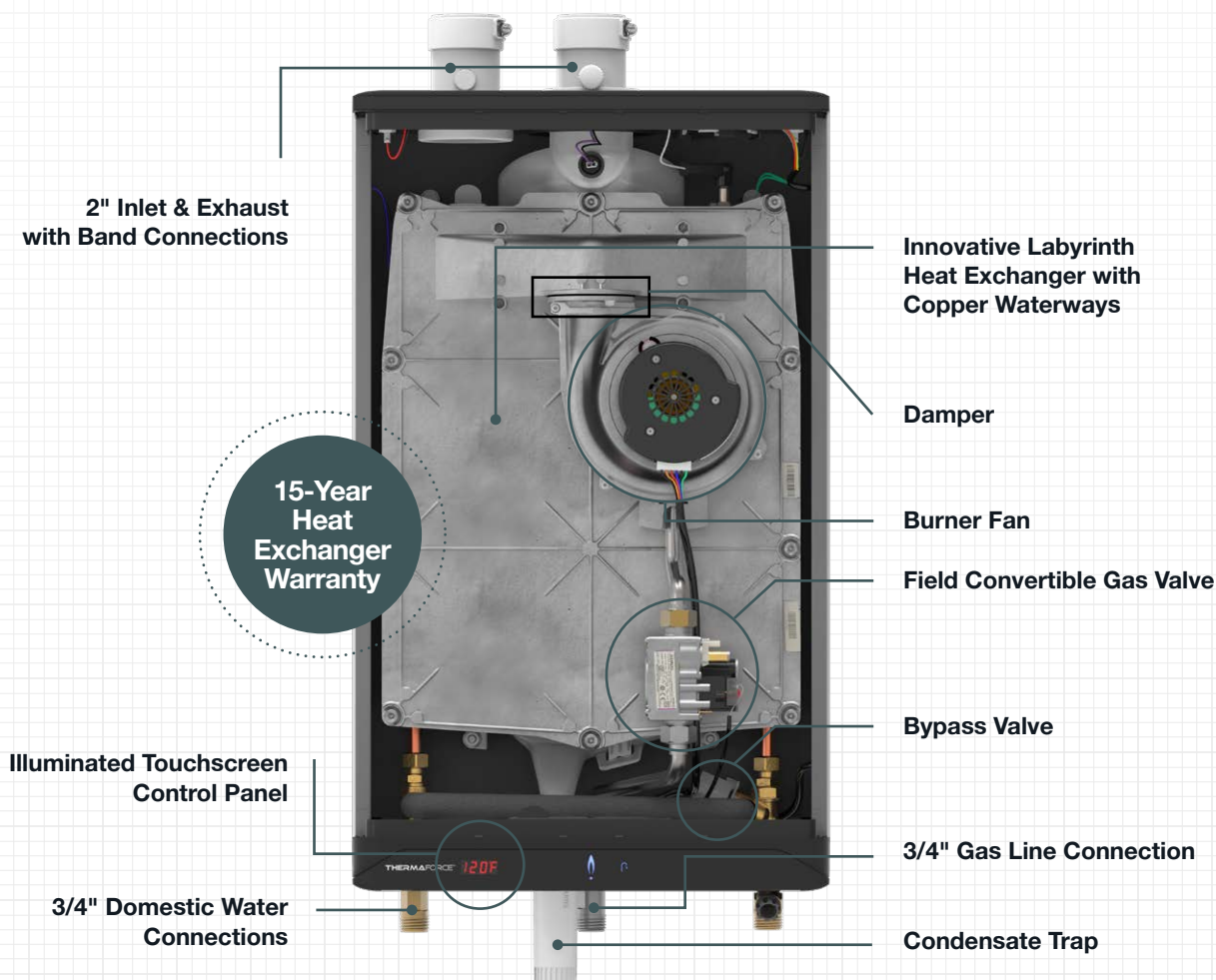
*See Available Models section for breakdown
of what is included in the box for each model.*

Tankless Key Benefits

Premium performance in extreme hard water regions cast aluminum heat exchanger protects copper water ways and minimizes lime formation.

Industry's most comprehensive warranty
Enjoy peace of mind with a 15-year heat exchanger (replace entire unit not just heat exchanger) and 5-year parts warranty.

Save up to 32% per year in energy costs over a standard 50-gallon gas residential tank water heater.





MODEL NUMBER		RCBH-L125i	RCBH-L160i	RCBH-L199i
Input Rate (Heating Mode)	MAX	99,000 BTU/h	125,000 BTU/h	125,000 BTU/h
	MIN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h
Output Rate (Heating Mode)	MAX	89,000 BTU/h	111,000 BTU/h	111,000 BTU/h
	MIN	15,800 BTU/h	22,000 BTU/h	27,100 BTU/h
Input Rate (Domestic Hot Water)	MAX	125,000 BTU/h	160,000 BTU/h	199,000 BTU/h
	MIN	16,500 BTU/h	23,000 BTU/h	28,500 BTU/h
AFUE		95%	94%	95%
Weight (Lbs.)		85	84	
Boiler Flow Rate - GPM	MAX	10	11	12
	MIN		2	
Max Relative Humidity (Non-Condensing)		90%		
Temp Range	Heating Mode	51°F-194°F		
	Domestic Hot Water	105°F-149°F		
Minimum Activation Flow Rate (DHW)		0.5 GPM		
Gallons Per Minute - GPM (Domestic Hot Water)	MAX	4	7	
	67°F Rise	3.2	4.1	5
Max equivalent vent length 2" (each side) ³		65'		
Max equivalent vent length 3" (each side) ³		120'		
Warranty ⁴		10-Year Heat Exchanger, 5-Year Parts, 1-Year Labor		

MODEL NUMBER		RHBH-L99i	RHBH-L120i
Input Rate	MAX	99,000 BTU/h	120,000 BTU/h
	MIN	15,500 BTU/h	13,650 BTU/h
Output Rate	MAX	89,000 BTU/h	108,000 BTU/h
	MIN	14,800 BTU/h	13,000 BTU/h
AFUE		96%	95%
Gas Pressure	MAX	14" WC	
	MIN	4" WC	
Weight (Lbs.)		85	
Boiler Flow Rate - GPM	MAX	10	11
	MIN	2	
Max Relative Humidity (Non-Condensing)		90%	
Temp Range		51°F-194°F	
Max equivalent vent length 2" (each side) ³		65'	
Max equivalent vent length 3" (each side) ³		120'	
Warranty ⁴		10-Year Heat Exchanger, 5-Year Parts, 1-Year Labor	

¹Based on comparison of ThermaForce® combi and boiler against a minimum efficiency boiler with like fuel type

²Based on comparison of ThermaForce® tankless against a standard residential 50 gallon tank type model with like fuel type not to exceed 75,000 BTU

³Based on comparison of ThermaForce® combi and boiler against a minimum efficiency boiler with like fuel type.

⁴See Warranty Certificate for complete information.

MODEL NUMBER		RTGH-L199i
Input Rate	MAX	199,000 BTU/h
	MIN	28,500 BTU/h
Uniform Energy Factor (UEF)		0.90
Gallons Per Minute - GPM	MAX (35°F)	10.1
	45°F Rise	7.9
	67°F Rise	5.4
Set Point Temperature Range		105°F - 149°F
Fuel Type		Compatible with Natural Gas and LP (Ships NG with LP Conversion kit included)
Max Relative Humidity (Non-Condensing)		90%
Max equivalent vent length 2" (each side) ³		65'
Max equivalent vent length 3" (each side) ³		120'
Warranty ⁴		15-Year Heat Exchanger, 5-Year Parts, 1-Year Labor - Residential 5-Year Heat Exchanger, 5-Year Parts - Commercial

CONTACT US

**Customer Service,
Warranty and Parts**
800.621.5622

**Technical
Service**
833-212-9276

**Plumber
Support Group**
866.339.2388

Scan to learn more or visit
Rheem.com/Boiler

