

Type of Appliance	Direct vent wall furnace suitable for homes including mobile and manufactured homes; forced combustion, forced convection	
Rinnai Model Number	RHFE-1004FA-N (Natural gas)	RHFE-1004FA-P (Propane)
Gas Rate Input (BTU/hour)	Low - 10,500 High - 38,400	Low - 10,500 High - 36,500
Gas Rate Output (BTU/hour)	Low - 8,400 High - 30,900	Low - 8,400 High - 29,200
AFUE Rating	80.6%	82.0%
Minimum Gas Supply Pressure	5 in (127 mm) W.C.	11 in (279 mm) W.C.
Maximum Gas Supply Pressure	10.5 in (267 mm) W.C.	13 in (330 mm) W.C.
Electrical Connection	AC 120V, 60 Hz, 121 watts	
Gas Connection	1/2 inch FNPT	
Combustion System	Stainless steel inshot burners	
Ignition System	Direct spark	
Temperature Settings	Low (LO): minimum combustion 60° - 80° F in 2° increments High (HI): maximum combustion	
Temperature Control	Electronic thermostat	
Humidifier Tray	Enameled tray with capacity of 7 pints (3 liters)	
Weight	Approximately 90 lbs (41 kg)	
Clearance from Combustibles	Side: 2 inches (50 mm) Front: 40 inches (1 m)	Top: 10 inches (250 mm)
Noise Level	37 - 47 dB(A)	
Warm Air Outlet	Bottom front louvers	

FEATURES

Seven-stage modulating gas valve:	provides precise gas flow by operating from one to seven stages
Negative coefficient thermistor:	detects temperature change in 1/2 of a degree
Variable speed inducer motor with pressure switch:	monitors and controls combustion fan and allows the appliance to overcome winds of up to 40 mph
Quiet operation:	reduces noise through use of swept blades in convection fan; and through the design of the combustion chamber and heat exchanger which silently expand or contract due to temperature changes
Self diagnostic electronics:	continually monitors functions; provides auto shutdown codes; indicates when air filter needs cleaning

Safety Devices

- Flame rod detects flame failure; results in auto shutdown to prevent escape of gas
- Bi-metal switch, thermal fuse, and thermistor detect overhear condition; results in auto shutdown
- 5 amp fuse protects against power surge; results in auto shutdown
- Abnormal spark at time of ignition results in auto shutdown
- Combustion fan purges any gas from the combustion chamber before ignition
- Convection fan continues to run after burner shutdown to cool internal parts
- Function lock prevents inadvertent operation
- Appliance shuts down if room reaches 104° F (40° C)

Venting

Maximum Vent Length

concentric; 3 1/8 inch (80 mm) wall hole
13 feet (4 m) with a maximum of 2 bends; maximum 8 feet (2.4 m) vertically

Wall Thickness and Flue Manifold Kits (the "A" vent kit is included with the appliance)

Name	Kit No.	fits walls
S Vent Kit	FOT-150	3 - 4 1/2 in (75 - 115 mm)
A Vent Kit	FOT-151	4 1/2 - 9 1/2 in (115 - 240 mm)
B Vent Kit	FOT-152	9 1/2 - 15 3/4 in (240 - 400mm)
C Vent Kit	FOT-153	15 3/4 - 23 5/8 in (400 - 600 mm)
D Vent Kit	FOT-154	23 5/8 - 31 1/2 in (600 - 800 mm)

Warranty

Labor: 2 years; Parts: 5 years; Heat Exchanger: 10 years with years 6-10 prorated

Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to installation.

DIMENSIONS

