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431WTA

Type of ApplianceDirect vent wall furnace suitable for homes including mobile and manufactured homes; forced combustion, forced convection

Rinnai Model Number RHFE-431WTA-N (Natural gas) RHFE-431WTA-P (Propane)

Gas Rate Input (BTU/hour) Low - 8,200 Low - 8,200

High - 16,700 High - 16,700

Gas Rate Output (BTU/hour)

Low - 6,640 Low - 6,640 High - 13,400 High - 13,400

AFUE Rating 80.8% 81.0%

Minimum Gas Supply Pressure3.5 in (89 mm) W.C.8 in (203 mm) W.C.Maximum Gas Supply Pressure10.5 in (267 mm) W.C13 in (330 mm) W.C.

Electrical Connection AC 120V, 60 Hz, 43 watts

Gas Connection 1/2 inch FNPT

Combustion System Stainless steel inshot burners

Ignition System Direct spark

Fan CFM Output: Low: 110.5 High: 141.3

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 3 pints (1.3 liters)

Weight Approximately 51 lbs (23 kg)

Clearance from Combustibles | Side: 2 inches (50 mm) | Top: 10 inches (250 mm)

Front: 40 inches (1 m)

Noise Level 32 - 38 dB(A)

Warm Air Outlet Bottom front louvers

FEATURES

Linear function modulation: provides precise gas flow

Negative coefficient thermistor: detects temperature change in 1/2 of a degree

Variable speed inducer motor: monitors and controls combustion fan

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





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Safety Devices

- Flame rod detects flame failure; results in auto shutdown to prevent escape of gas
- Bi-metal switch, thermal fuse, and thermistor detect overheat condition; results in auto shutdown
- 3 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)

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

Venting

Maximum Vent Length

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.

