



endless
comfort

ENERGYSAVER® DIRECT VENT WALL FURNACES

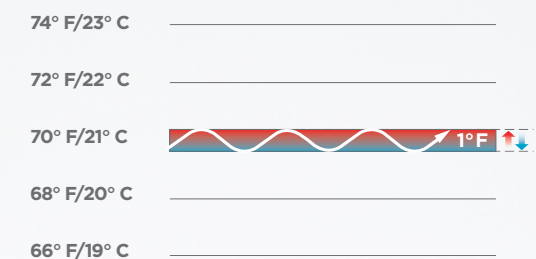
Comfortable home, comfortable energy bill

With a Rinnai EnergySaver® Direct Vent Wall Furnace, homeowners will be as comfortable with their energy bill as they will be with their room temperature.

- Modulates the usage of gas, optimizing energy efficiency
- Multiple models offer just the right size and configuration to heat a whole home or complement an existing heating system
- Unique modulating technology produces the specific level of heat needed at any given moment, responding to the smallest temperature changes

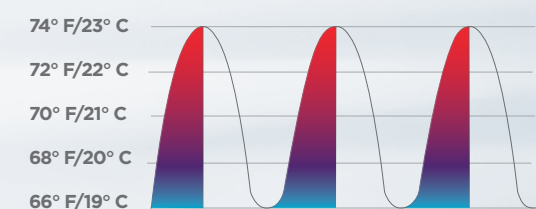


RINNAI MODULATING TECHNOLOGY



Rinnai's modulating technology responds to small temperature changes, resulting in higher levels of comfort.

SINGLE-STAGE HEATER (ON/OFF)



On/Off Single-Stage Heating Appliance.



HOW IT WORKS

- Constantly monitors room temperature 2" (5 cm) from the floor
- Consistently detects temperature changes of less than 1° F
- Within seconds, the Rinnai EnergySaver® Direct Vent Wall Furnace begins to gently heat the room
- Adjusts to increase or decrease fan speed and BTU output to reach desired preset temperature
- In case of a sudden influx of cold air, the EnergySaver® Direct Vent Wall Furnace automatically adjusts fan speed and BTU to quickly restore warmth to the room
- Heat loss is minimized since Rinnai EnergySaver® Direct Vent Wall Furnaces require no ductwork



Customized heating

The easy-to-use programmable thermostat lets homeowners automatically operate their model at the optimum temperature, even when they're away. They can set a comfortable temperature for when they're home and a lower setting for when they're gone through Wi-Fi connectivity. They can even customize supplemental or zone heating according to their usage, habits and needs. Rinnai EnergySaver® Direct Vent Wall Furnaces come in multiple sizes and can be used in a variety of configurations. That's the kind of flexibility that brings added efficiency.



USER-FRIENDLY CONTROL PANEL

Manage the temperature in your home with our user-friendly control panel. Simply choose a set temperature or customize heating during the day by programming the timers.

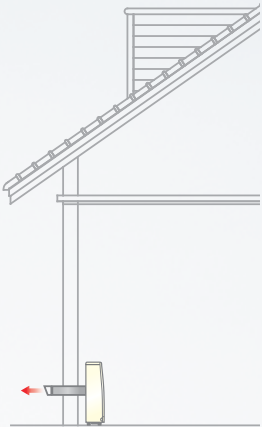
Quick, flexible installation

With Rinnai EnergySaver® Direct Vent Wall Furnaces, no ductwork means easy and quick installation. Versatile venting options allow you to install in a variety of locations. With flexible venting placement, a model can be positioned along almost any outside wall. Simple one-hole venting makes installation fast and straightforward. All the parts you need are included in the box with each model, and installation typically takes just four hours or less.

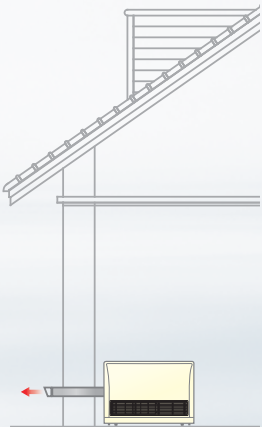
DIRECT VENT VENTING OPTIONS

Rinnai EnergySaver® Direct Vent Wall Furnaces vent directly through an outdoor wall, with discreet terminations only 4 inches in diameter. Available extension kits offer even more freedom for applications where the wall furnace isn't on the outdoor wall.

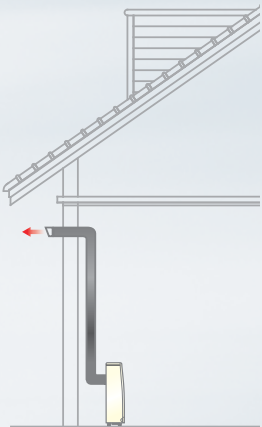
Direct, Through-Wall Vent Termination



Through-Wall Vent Termination with Extension Kit



Through-Wall Vent Termination with Extension Kit and Elbow



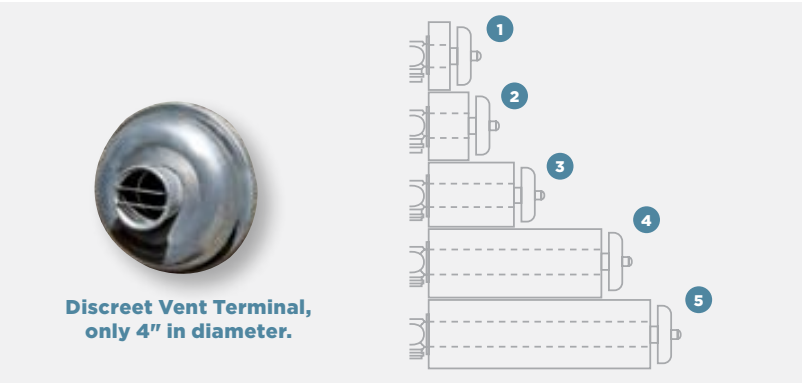
Please consult the Owner's Operation and Installation Manual for installation requirements.

ENERGYSAVER® DIRECT VENT WALL FURNACES

| | | | | | |
|--|---|---|---|---|---|
| |  |  |  |  |  |
| MODEL | EX08CT (RHFE-202FTA2) | EX11CT (RHFE-265FTA2) | EX17CT (RHFE-434FTA2) | EX22CT (RHFE-559FTA2) / EX22CTW (RHFE-559FTA2-W) | EX38CT (RHFE-1005FTA2) / EX38CTW (RHFE-1005FTA2-W) |
| COLOR | BEIGE | BEIGE | BEIGE | BEIGE/WHITE | BEIGE/WHITE |
| GAS TYPE | NGLP | NGLP | NGLP | NGLP | NGLP |
| INPUT RANGE (BTU) (LOW/HIGH) | 3,000 / 8,000 | 5,500 / 11,000 5,700 / 11,000 | 8,200 / 16,700 | 8,200 / 21,500 8,200 / 20,700 | 13,200 / 38,400 13,200 / 36,500 |
| AFUE RATING | 82% | 81% | 81% | 81% | 80% |
| FAN CFM OUTPUT (LOW/HIGH) | 48.3 / 78.6 | 96.4 / 128.5 | 111.3 / 191.3 | 111.3 / 162.7 | 190.7 / 263.0 |
| DIMENSIONS (W,H,D) (MM) | 18.3 X 27.4 X 10.1 (464.82 X 695.96 X 256.54) | 18.3 X 27.4 X 10.1 (464.82 X 695.96 X 256.54) | 29.9 X 22.9 X 10.1 (759.46 X 581.66 X 256.54) | 29.9 X 22.9 X 10.1 (759.46 X 581.66 X 256.54) | 36.6 X 26.4 X 13 (929.64 X 670.56 X 330.20) |
| SHIPPING WEIGHT (LBS/ KG) | 46 LBS / 21 KG | 46 LBS / 21 KG | 57 LBS / 26 KG | 57 LBS / 26 KG | 88 LBS / 40KG |
| POWER CONSUMPTION (ELECTRONIC IGNITION) | 41 WATTS | 44 WATTS | 46 WATTS | 56 WATTS | 117 WATTS |
| STANDBY POWER CONSUMPTION | LESS THAN 1 WATT | LESS THAN 1 WATT | LESS THAN 1 WATT | LESS THAN 1 WATT | LESS THAN 1 WATT |
| NOISE LEVEL dB(A) | 27 - 36 | 31 - 38 | 33 - 38 | 33- 42 | 39 - 46 |
| CERTIFICATIONS | CSA, ICC-ES-PMG | | | | |
| WARRANTY* | 5-YEARS ON PARTS, 2-YEARS ON LABOR | | | | |
| ALTITUDE APPROVED (FT)** | 10,200 | | | | |

* For complete information and details regarding Rinnai's warranty, please visit rinnai.us.
** Only 5' allowed above 2000' elevation.

| VENT TERMINATIONS | | | |
|-------------------|-------------|-------------|--------------------------|
| | PART NUMBER | DESCRIPTION | FITS WALL THICKNESS (IN) |
| 1 | FOT-150W | S VENT | 3 - 4.5 |
| 2 | FOT-151** | A VENT | 4.5 - 9.5 |
| 3 | FOT-152 | B VENT | 9.5 - 15.75 |
| 4 | FOT-153 | C VENT | 15.75 - 23.63 |
| 5 | FOT-154 | D VENT | 23.63 - 31.5 |



| VENT EXTENSION KITS | | | | | |
|---------------------|-----------------|--------|--------|--------------------|--------------------|
| PART NUMBER | EXTENSION KIT | EX11CT | EX17CT | EX22CT/ EX22CTW | EX38CT/ EX38CTW |
| FOT-155 | 12" TO 20" | • | | | |
| FOT-156 | 21" TO 40" | • | | | |
| FOT-157 | 61" TO 80" | • | | | |
| FOT-158* | STD BENT ELBOW | • | • | • | |
| FOT-201* | LONG BENT ELBOW | • | • | • | |
| FOT-219 | 12" TO 20" | | • | • | |
| FOT-220 | 21" TO 40" | | • | • | |
| FOT-221 | 61" TO 80" | | • | • | |
| FOT-102 | 12" TO 20" | | | | • |
| FOT-103 | 21" TO 40" | | | | • |
| FOT-114 | 61" TO 80" | | | | • |
| FOT-115 | STD BENT ELBOW | | | | • |

*Please consult the Owner's Operation and Installation Manual for complete venting information.

| CONVERSION KITS | | |
|-----------------|----------|-------------------|
| PART NUMBER | GAS TYPE | FITS MODEL NUMBER |
| 204000033 | NG | EX08CT |
| 204000037 | LP | |
| 204000034 | NG | EX11CT |
| 204000038 | LP | |
| 204000035 | NG | EX17CT |
| 204000039 | LP | |
| 204000036 | NG | EX22CT/EX22CTW |
| 204000040 | LP | |
| 204000026 | NG | EX38CT/EX38CTW |
| 204000027 | LP | |

| EXTENSION PIPE COVER KITS (LIMITED AVAILABILITY) | | | | | |
|--|--------------------|--------|--------|--------------------|--------------------|
| PART NUMBER | DESCRIPTION | EX11CT | EX17CT | EX22CT/ EX22CTW | EX38CT/ EX38CTW |
| FOT-132 | MANIFOLD COVER KIT | | | | • |
| FOT-133 | COVER KIT | | | | • |
| FOT-134 | ELBOW COVER KIT | | | | • |
| FOT-140 | MANIFOLD COVER KIT | • | • | • | |
| FOT-142 | ELBOW COVER KIT | • | • | • | |

endless

peace of mind



We designed the Rinnai Vent-Free Fan Convectors with families in mind. Simple and efficient, with safety features integrated into the technology:

- **Cool-touch cabinet**

While comfortably heating the space, the exterior remains cool to the touch.

- **Tilt switch**

The gas supply will automatically be disabled in the event the heater is knocked over. At the same time, the fan will continue to run to cool internal parts.

- **Flame failure protection**

If the burner flame goes out, the heater will automatically shut itself off and discontinue all operations.

- **Power failure protection**

The gas supply will be shut off automatically in the event of a power loss.

- **Oxygen Depletion Sensor (ODS)**

The model automatically shuts off if inadequate oxygen levels are detected.

- **Control panel lock**

A control panel locking feature allows you to lock controls to prevent unintended operation—especially by children.

- **Overheat switch**

A safeguard that monitors operating temperatures and automatically shuts the system down if temperatures exceed predetermined levels, preventing damage to system components.

- **Fuse protection**

Protect your model's electrical system with a 5-amp fuse.

VENT-FREE FAN CONVECTORS

More heat. Less fuel. More savings.

For rooms that are hard to heat, Rinnai Vent-Free Fan Convectors are the perfect solution. They incorporate a convection fan that evenly distributes warm air throughout the space, providing comfort even in faraway corners. Temperature output control maintains efficiency when heat isn't needed. By eliminating vents or ducts, places where heat typically gets lost, virtually all the warm air gets delivered to the room—making for a solution that's 99.9% efficient. In fact, the **Rinnai Vent-Free Fan Convector is one of the most fuel-efficient heating products on the market today.** Utilizing either natural gas or liquid propane fuel, it can significantly reduce energy bills.

Flexible, easy installation

With no vents or ducts, installation can be easily done in a variety of locations.

Onboard diagnostics

Quickly trouble-shoot and repair each system with onboard diagnostics.

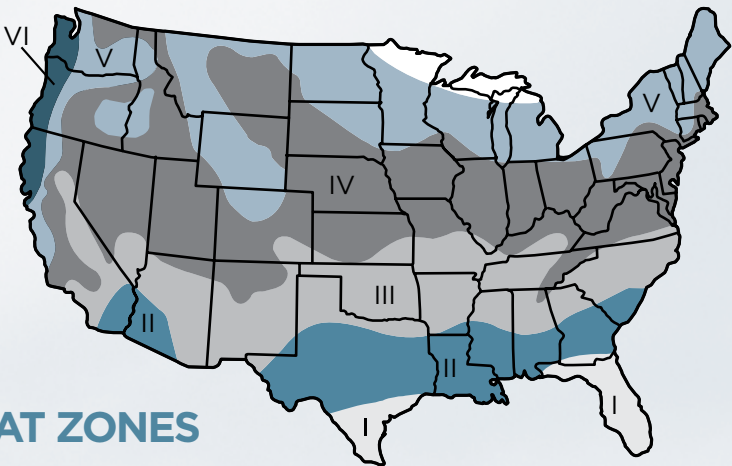




Select the right vent-free fan convector or direct vent furnace

- 1 Calculate the volume (cubic feet) or square footage of the space that will be heated.
- Calculate volume (in cubic feet) by multiplying the length (in feet) times the width (in feet) by the height (in feet)

• Calculate square feet by multiplying the length (in feet) times the width (in feet)
- 2 Choose your location on the map and the BTU Zone on the chart at right.
- 3 Select model based on either calculated cubic feet or square feet.



NATIONAL HEAT ZONES

| VENT-FREE FAN CONVECTOR AND DIRECT VENT SELECTION GUIDE | | | |
|---|---------------------------------|----------------|---------------|
| BTU ZONE | ROOM VOLUME / HEATING AREA SIZE | | |
| | MODEL | CUBIC FEET | SQUARE FEET* |
| I | FC510 | UP TO 5,400 | UP TO 680 |
| | FC824 | 5,401 - 13,000 | 681 - 1,600 |
| | EX08CT | UP TO 3,500 | UP TO 440 |
| | EX11CT | 3,501 - 4,800 | 441 - 600 |
| | EX17CT | 4,801 - 7,300 | 601 - 910 |
| | EX22CT | 7,301 - 9,400 | 911 - 1,180 |
| | EX38CT | 9,401 - 16,600 | 1,181 - 2,080 |
| II | FC510 | UP TO 4,500 | UP TO 560 |
| | FC824 | 4,501 - 10,900 | 561 - 1,400 |
| | EX08CT | UP TO 3,000 | UP TO 380 |
| | EX11CT | 3,001 - 4,100 | 381 - 510 |
| | EX17CT | 4,101 - 6,100 | 511 - 760 |
| | EX22CT | 6,101 - 7,900 | 761 - 990 |
| III | EX38CT | 7,901 - 14,000 | 991 - 1,750 |
| | FC510 | UP TO 3,800 | UP TO 480 |
| | FC824 | 3,801 - 9,200 | 481 - 1,200 |
| | EX08CT | UP TO 2,500 | UP TO 310 |
| | EX11CT | 2,501 - 3,400 | 311 - 430 |
| | EX17CT | 3,401 - 5,200 | 431 - 650 |
| IV | EX22CT | 5,201 - 6,700 | 651 - 840 |
| | EX38CT | 6,701 - 11,800 | 841 - 1,480 |
| | FC510 | UP TO 3,200 | UP TO 400 |
| | FC824 | 3,201 - 7,600 | 401 - 1,000 |
| | EX08CT | UP TO 2,100 | UP TO 260 |
| | EX11CT | 2,101 - 2,800 | 261 - 350 |
| V** | EX17CT | 2,801 - 4,300 | 351 - 540 |
| | EX22CT | 4,301 - 5,500 | 541 - 690 |
| | EX38CT | 5,501 - 9,800 | 691 - 1,230 |
| | FC510 | UP TO 2,600 | UP TO 330 |
| | FC824 | 2,601 - 6,200 | 331 - 800 |
| | EX08CT | UP TO 1,700 | UP TO 210 |
| VI | EX11CT | 1,701 - 2,300 | 211 - 290 |
| | EX17CT | 2,301 - 3,500 | 291 - 440 |
| | EX22CT | 3,501 - 4,500 | 441 - 560 |
| | EX38CT | 4,501 - 8,000 | 561 - 1,000 |
| | FC510 | UP TO 4,500 | UP TO 560 |
| | FC824 | 4,501 - 10,900 | 561 - 1,400 |
| | EX08CT | UP TO 3,000 | UP TO 380 |
| | EX11CT | 3,001 - 4,100 | 381 - 510 |
| | EX17CT | 4,101 - 6,100 | 511 - 760 |
| | EX22CT | 6,101 - 7,900 | 761 - 990 |
| | EX38CT | 7,901 - 14,000 | 991 - 1,750 |



* Chart should not be used as the sole document for making final product selection. Consult with your Rinnai independent dealer. Based on 8 ft. ceiling height. These guidelines apply to average house construction. Information based on Sizing Guidelines for Vent-Free Gas.

** In single rooms in Region V, multiply the room's volume by 3.20. The result is the maximum heat input (BTU/hr) of the product that you should consider.

NOTE: Rinnai Vent-Free Fan Convectors are intended for supplemental heating only, according to the International Fuel Gas Code (IFGC), and should be used in applications as such. Some states prohibit the use of unvented heaters. Check local codes for your area to verify approval of use.

MODEL CHART AND SPECIFICATIONS

VENT-FREE CONVECTORS

| VENT-FREE FAN CONVECTORS | | | | |
|---|---|----|---|----|
| |  | |  | |
| MODEL | FC510 (RCE-391A-H) | | FC824 (RCE-691TA-H) | |
| COLOR | OFF-WHITE | | OFF-WHITE | |
| GAS TYPE | NG | LP | NG | LP |
| INPUT RANGE (BTU) (LOW/HIGH) | 5,500 / 10,000 5,600/10,000 | | 8,400/24,000 8,000/22,000 | |
| AFUE RATING | 99.9% | | 99.9% | |
| FAN CFM OUTPUT (LOW/HIGH) | 67.8 / 97.8 | | 109.5 / 215.4 | |
| DIMENSIONS (W,H,D) (MM) | 19.2 X 19.4 X 9.6 (487.7 X 492.76 X 243.84) | | 24 X 19 X 9.4 (609.6 X 486.20 X 238.70) | |
| SHIPPING WEIGHT (LBS/KG) | 22.1 LBS / 10 KG | | 26.5 LBS / 12 KG | |
| POWER CONSUMPTION (ELECTRONIC IGNITION) | 19 WATTS | | 29 WATTS | |
| STANDBY POWER CONSUMPTION | N/A | | N/A | |
| NOISE LEVEL dB(A) | 28 – 38 | | 30-44 | |
| TOTAL EXTENDED VENT (FT/M) | N/A | | N/A | |
| TOTAL VERTICAL VENT (FT/M) | N/A | | N/A | |
| CERTIFICATIONS | CSA FOR U.S. ONLY | | CSA FOR U.S. ONLY | |
| WARRANTY* | 3 YEARS ON PARTS | | | |
| ALTITUDE APPROVED (FT) | 5,200 | | 5,200 | |

*For complete information and details regarding Rinnai's warranty, please visit rinnai.us. Check local code requirements for vent-free products

100 years of innovation

For nearly 100 years, Rinnai has been fiercely committed to delivering nothing less than our absolute best. With headquarters in Japan and a network of 20 subsidiaries and 86 sales offices in 13 countries, this commitment has made us one of the world's largest gas appliance manufacturers, specializing in high-efficiency home heating solutions. Our value-added products continue to stay in step with the demands of our changing world.

The highest standards of quality

Rinnai employs more than 600 research and development engineers, all focused on uncompromising quality in design and manufacturing. Advanced automation and precision assembly processes have made our manufacturing facilities an industry model for efficiency. Every product undergoes a series of live testing before shipping. In fact, Rinnai America is one of the few tankless water heater manufacturers with its own state-of-the-art Canadian Standards Association Certified Testing Laboratory, including CSA accredited lab technicians.

All our products have been approved by the CSA and adhere to the strict standards of the American National Standards Institute (ANSI). Throughout the world, our standards for quality remain unsurpassed.

A world of support behind you

Beyond manufacturing the highest-quality products, our people stand behind all that we make—before, during and long after installation. From the 24/7/365 technical support for professionals, to our national network of independent installers, to our on-staff engineers who can assist with choosing the right products and sizes—we're inspiring confidence as well as comfort.





Learn more about Rinnai high-performance Tankless Water Heaters, Hybrid Water Heating Systems, Boilers, Vent-Free Fan Convectors and EnergySaver® Direct Vent Wall Furnaces at:

rinnai.us | rinnai.ca



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Local, state, provincial, federal and national fuel gas codes must be adhered to prior to and upon installation.