



### Rinnai EnergySaver® **Direct Vent Wall Furnaces** put you in control

As a cost-effective heating solution for nearly any living space, or even the whole home, Rinnai EnergySaver® Direct Vent Wall Furnaces' advanced heating technology puts you in control of your comfort, completely and efficiently.

### Rinnai Vent-Free Fan **Convectors heat rooms** and lower bills

For a room or area that is hard to heat, Rinnai Vent-Free Fan Convectors are the perfect solution. They can be installed practically anywhere you need them, thanks to their vent-free design. Using either natural gas or propane, they're also one of the most fuel-efficient heating products on the market. So you can enjoy more comfort and smaller energy bills.

### **Rinnai Condensing Boilers deliver more** heating and less energy waste

Rinnai's Condensing Boilers are compact, reliable and economical. They can provide high volumes of hot water and more efficient home heating by recovering heat energy that's typically lost with traditional boilers.



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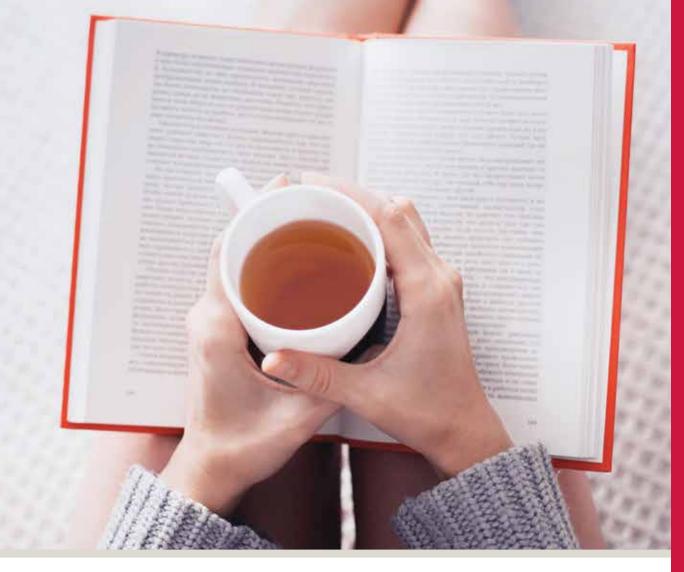
## 100 years of innovation

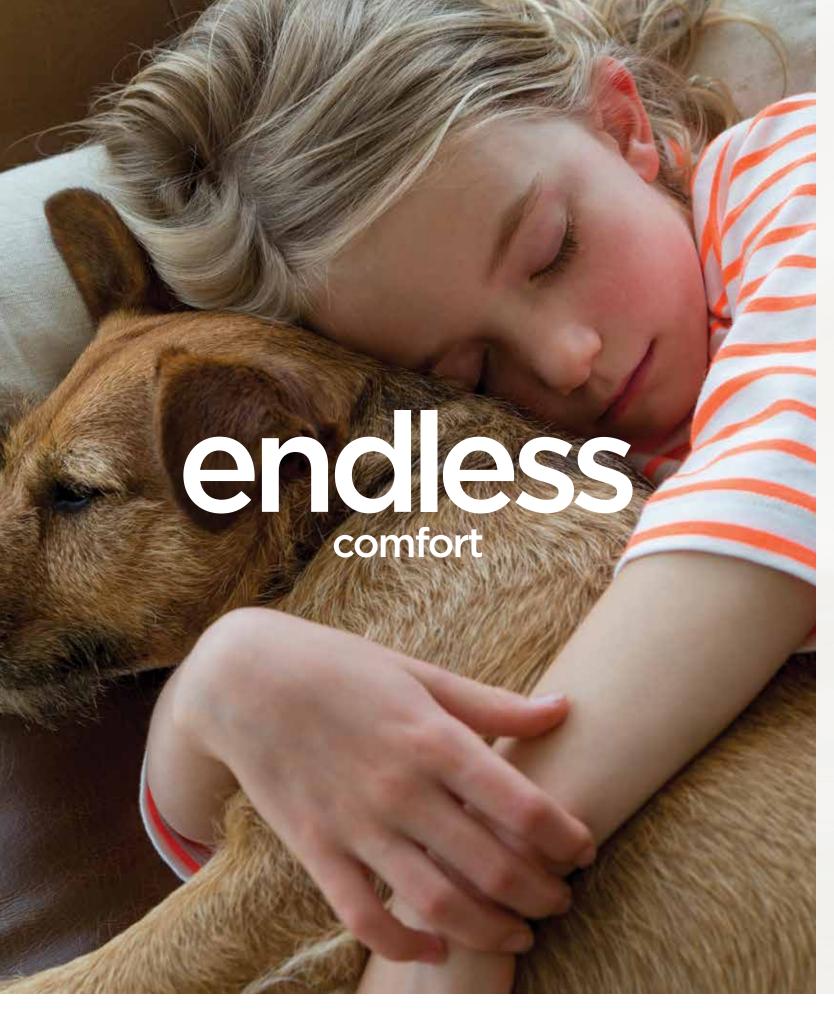
For nearly 100 years, Rinnai has been fiercely committed to delivering nothing less than our absolute best. With headquarters in Japan and a network of 20 subsidiaries and 86 sales offices in 13 countries, this commitment has made us one of the world's largest gas appliance manufacturers, specializing in highefficiency 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.

All our products have been approved by the Canadian Standards Association (CSA) and adhere to the strict standards of the American National Standards Institute (ANSI). In fact, Rinnai America is one of the few providers with our own state-of-the-art Certified Testing Laboratory, including CSA accredited lab technicians. Throughout the world, our standards for quality remain unsurpassed.





### **ENERGYSAVER® DIRECT VENT WALL FURNACES**

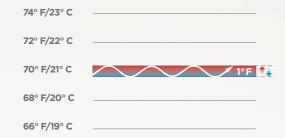
### Efficiency sure feels good

With a Rinnai EnergySaver® Direct Vent Wall Furnace, you'll be as comfortable with your energy bill as you are with your 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

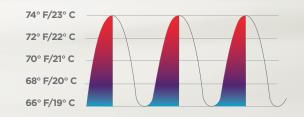


### RINNAI MODULATING TECHNOLOGY



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.



### **Customized for heating**

The easy-to-use programmable thermostat lets you automatically operate your model at the perfect temperature, even when you're away. You can set a comfortable temperature for when you're home and a lower setting for when you're gone. Attach to a Wi-Fi enabled thermostat for additional flexibility and comfort. You can customize supplemental or zone heating according to your family's usage, habits and needs. With multiple sizes, Rinnai EnergySaver® Direct Vent Wall Furnaces can be used in a variety of configurations. That's the kind of flexibility that brings added efficiency.



### **Quick, flexible installation**

With Rinnai EnergySaver® Direct Vent Wall Furnaces, no ductwork means quick installation, while flexible venting placement allows positioning along almost any outside wall.

# 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







We designed the Rinnai Vent-Free Fan Convector with your family 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 and power failure protection If the power or the burner flame goes out, the heater will automatically shut itself off and discontinue all operations.

### 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.

FC510 VENT-FREE FAN CONVECTOR



### **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. Using 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.



### MODEL CHART AND SPECIFICATIONS

### **DIRECT VENT WALL FURNACES**

### MODEL CHART AND SPECIFICATIONS **VENT-FREE CONVECTORS**

#### ENERGYSAVER® DIRECT VENT WALL FURNACES **VENT-FREE FAN CONVECTORS** EX22CT (RHFE-559FTA) / EX38CT (RHFE-1005FTA) / MODEL EX08CT (RHFE-202FTA) EX11CT (RHFE-265FTA) EX17CT (RHFE-434FTA) EX22CTW (RHFE-559FTA-W) EX38CTW (RHFE-1005FTA-W) FC510 (RCE-391A-H) FC824 (RCE-691TA-H) COLOR BEIGE BEIGE/WHITE OFF-WHITE OFF-WHITE BEIGE BEIGE BEIGE GAS TYPE LP LP LP LP NG NG NG NG LP NG LP NG LP NG INPUT RANGE (BTU) 8,000/ 5,500/ 5,700 / 8,200/ 8,200/ 13,200 / 13,200 / 5,500/ 5,600/ 8,400/ 3,000/8,000 8,200 / 16,700 (LOW/HIGH) 21,500 20,700 38,400 24,000 DIMENSIONS (W,H,D) 18.3 X 27.4 X 10.1 18.3 X 27.4 X 10.1 29.9 X 22.9 X 10.1 29.9 X 22.9 X 10.1 36.6 X 26.4 X 13 19.2 X 19.4 X 9.6 24 X 19 X 9.4 (464.8 X 695.96 X 256.54) (609.6 X 482.6 X 238.76) (464.8 X 695.96 X 256.54) (759.4 X 581.6 X 256.54) (759.4 X 581.6 X 256.54) (929.6 X 670.5 X 330.2) (487.6 X 492.7 X 243.8) POWER CONSUMPTION 41 WATTS 44 WATTS 46 WATTS 56 WATTS 117 WATTS 19 WATTS 29 WATTS (ELECTRONIC IGNITION) NOISE LEVEL dB(A) 27 - 36 31 - 38 33 - 38 33 - 42 39 - 46 28 - 38 30-44 WARRANTY\* 10 YEAR HEAT EXCHANGER, FIVE YEARS ON PARTS, 2 YEARS ON LABOR 3 YEARS ON PARTS ALTITUDE APPROVED 10.200 5.200 5.200 **VENTING OPTION** CONCENTRIC N/A N/A



<sup>•</sup> Chart should not be used as the sole document for making final product selection. Consult



#### VENT-FREE FAN CONVECTOR AND DIRECT VENT SELECTION GUIDE

	ROOM VOLUME / HEATING AREA SIZE		
BTU ZONE	MODEL	CUBIC FEET	SQUARE FEET*
ı	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
	EX38CT	7,901 - 14,000	991 - 1,750
III	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
	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
IV	EX11CT	2,101 - 2,800	261 - 350
	EX17CT	2,801 - 4,300	351 - 540
	EX22CT	4,301 - 5,500	541 - 690
	EX38CT	5,501 - 9,800	691 - 1,230
V**	FC510	UP TO 2,600	UP TO 330
	FC824	2,601 - 6,200	331 - 800
	EX08CT	UP TO 1,700	UP TO 210
	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	4,501 - 8,000 UP TO 4,500	UP TO 560
VI	FC824	4,501 - 10,900	561 - 1,400
	EX08CT	4,501 - 10,900 UP TO 3,000	561 - 1,400 UP TO 380
	EX11CT	3,001 - 4,100	381 - 510 511 - 760
	EX17CT	4,101 - 6,100	511 - 760 761 - 000
	EX22CT EX38CT	6,101 - 7,900 7,901 - 14,000	761 - 990 991 - 1,750

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



with your Rinnai independent dealer. The guidelines apply to average house construction.

This is intended to be used as a guide and not a replacement for a professionally

<sup>•</sup> Rinnai has not been to the location so this guidance is for your assistance only and should not be the sole factor in making a sizing selection.

<sup>•</sup> Sizing does not describe a complete system

<sup>•</sup> The contractor/engineer must determine the necessary components for and configuration of the particular system being installed.

<sup>·</sup> Sizing does not imply compliance with local building codes.

It is the responsibility of the engineer/contractor to ensure the installation is in accordance with all local building codes.

Confer with local building officials before installation.

RAC, its agents, employees, directors, officers, parent or affiliate companies assume no liability for damages arising from information provided herein to or by consumers or third parties or for damages arising from or associated with water quality, compliance with local codes, installation methods, materials or other circumstances related to application or installation.

Chart is to be used for supplemental heat applications only.

Information based on Sizing Guidelines for Vent-Free Gas Products found on http://www.ventfree.org.

<sup>\*</sup>Square footage column based off of an 8ft ceiling height.

<sup>\*</sup> Selection is based on installation locations at 2,000 ft or below. If the installation

is above 2,000 ft please contact Rinnai.
• In bathrooms, select a product equal to or less than 6,000 BTUH.

<sup>•</sup> In bedrooms, select a product equal to or less than 10,000 BTUH.

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

### **CONDENSING BOILERS**

### Comfort you can count on

Whether it's consistent heat throughout a home or continuous hot water, Rinnai's line of Condensing Boilers keeps comfort coming with unparalleled reliability and efficiency. With a wide range of options for both existing homes and new construction, you'll find that Rinnai Condensing Boilers feature performance you can rely on for years and years.

### Quality from the inside out

With over 100 years of superior engineering and safety at every level, Rinnai's quality is evident throughout our boiler construction. For example, our stainless steel heat exchanger has industryleading performance and durability backed by a 12-year warranty\*.



Conventional heating systems waste energy through heat loss vented into the atmosphere. Rinnai Condensing Gas Boilers are designed to recover heat energy that's discharged into the flue and return it to the heat exchanger for maximum efficiency. Thanks to Rinnai's advanced technology, our condensing boilers were awarded the ENERGY STAR® Most Efficient mark in 2016 with up to 95.6% **AFUE (Annual Fuel Utilization Efficiency).** 

### **Easy to install**

We offer 10 models to provide a wide range of options for both existing homes and new construction. With each model you'll find reduced space requirements compared to traditional boilers. Plus, our multiple venting options allow for installation in a variety of locations.



'The Rinnai boiler has been an excellent addition. The userfriendly programming features ensure that my house is always at the temperature I want it."

- NICK C., HOMEOWNER

### **E Series**

These compact, wall-mounted designs can be easily installed as a retro-fit application to replace traditional, less efficient boilers. Our E Series Combi models have the power to deliver wholehouse heating and domestic hot water for homes with one to two bathrooms.



### **Q** Series

Unparalleled comfort and efficiency along with ease of installation and serviceability make the Q Series Boilers ideal for use in homes or light commercial applications. Q Series Boilers offer wholehouse heating or heating plus hot water.



### **Q Premier Series**

The perfect option for replacement or new construction, this complete, fully assembled space-saving floor-standing solution features a boiler and tank all in one.

"I was pleasantly surprised at how much my gas bill decreased during the winter months compared to the previous year and my old system."

- ANNE G., HOMEOWNER



\*Visit rinnai.us for more information





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.

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