

endless

heating solutions





endless
quality and support

Why partner with Rinnai?

HELPING YOU GROW YOUR BUSINESS

- Opportunity to receive lead referrals from Rinnai
- Convenient flexible consumer financing options available
- Listing on our dealer locator
- Added benefits as part of our Advanced Comfort Expert program

TRAINING

- Access to a complete library of online courses through Rinnai's Learning Management System
- Hands-on factory training available in Peachtree City, Georgia, with experts and professionals
- Field training available through extensive network of manufacturer reps and Rinnai training experts

SUPPORT

- Use of Rinnai branded advertising materials
- 24/7/365 technical support for professionals
- Share of voice leadership from national advertising

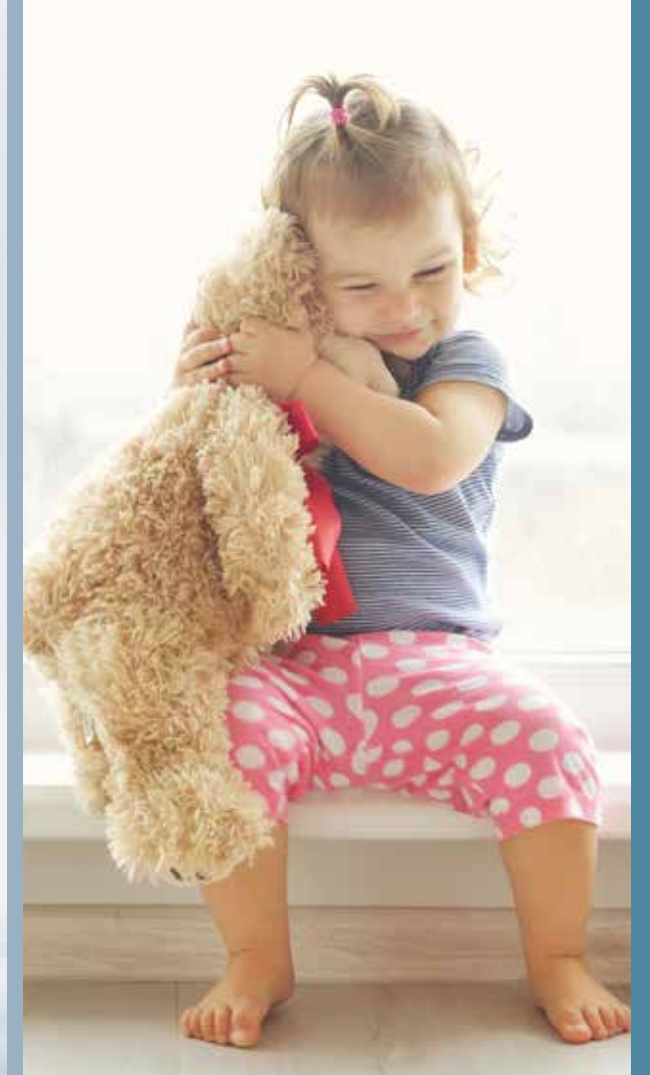


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endless

heating innovation



FC510
VENT-FREE FAN
CONVECTOR

M120CN
CONDENSING BOILER

EX17CT
DIRECT VENT
WALL FURNACE

Better, smarter home heating

At Rinnai, we design smarter home heating products that deliver superior comfort, convenience and reliability. Our solutions truly enhance people's lives — from the efficiency of our Condensing Boilers to the small-space warmth of our Vent-Free Fan Convector and EnergySaver® Direct Vent Wall Furnaces. Whether it's whole-house comfort, supplemental heating for nearly any room, or a single, energy-efficient source for home and water heating, you'll find that Rinnai offers the best-in-class solution.

Rinnai Condensing Boilers deliver more heating in less space

Rinnai's Condensing Boilers are both economical and reliable. They can provide higher volumes of hot water and more efficient home heating compared to traditional boilers.

Rinnai EnergySaver® Direct Vent Wall Furnaces put owners in control

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

Rinnai Vent-Free Fan Convector for year-round heating

For a room or area that needs extra heating, Rinnai Vent-Free Fan Convector are the perfect solution. Simple to install, thanks to their vent-free design. Easy to operate and designed to be safe. Now any space can have extremely comfortable.



CONDENSING BOILERS

Smarter is better

Whether it's consistent heat throughout a home or continuous hot water, Rinnai's line of Condensing Boilers keeps comfort coming with **exceptional performance and efficiency**. Our advanced smart system technology even includes an outdoor reset sensor that continually adjusts to changing temperatures.

Quality from the inside out

- Proprietary self-cleaning stainless steel heat exchanger is backed by a 12-year warranty*
- Boiler modulating pump maximizes performance of boiler to match system requirements



Efficient warmth

- Conventional heating systems waste energy through heat loss vented into the atmosphere
- Rinnai Condensing Gas Boilers recover heat energy discharged into the flue and return it to the heat exchanger for maximum efficiency
- One of the highest AFUEs (Annual Fuel Utilization Efficiency) in the industry
- Fully modulation pump saves energy adding to the savings year after year - for many years

Easy to install

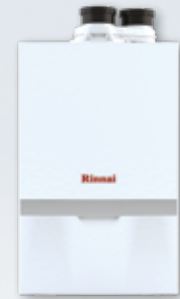
- Wide range of options for existing homes and new construction
- Each model offers compact solution compared to traditional boilers
- Multiple venting options for installation in a variety of locations
- Built-in modulating pump saves on installation cost and time

- Condensing boilers ship with an outdoor reset sensor

M-Series

More efficiency for you and your customers

Why the "M" Series? For maximum momentum. Using proven technology, these boilers are designed to keep your work day moving quickly and your customers happy.



E Series

An economical solution for home heating

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 whole-house heating and domestic hot water for homes with one to two bathrooms.



Q Series

Compact, easy-to-install solution for residential and light commercial

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 whole-house heating or heating plus hot water.



Q Premier Series

All-in-one residential heating and domestic hot water

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.



*Visit rinnai.us for complete warranty details.

M-SERIES

More Efficiency For You and Your Customers



THE ADVANTAGES



**EASY
INSTALLATION**



**OPERATIONAL
PERFORMANCE**



SERVICEABILITY

Faster, Easier Installation

- Compact and lightweight design
- Convenient mounting bracket
- NPT threads for connection points
- More flexible venting options
- Simplified parameters for commissioning and setup



Efficient Heating

- More heating output
- More heat transfer for domestic hot water
- Consistently lower utility costs
- Modulating pump optimizes heat transfer to the home while saving on electrical consumption
- Integrated bypass to ensure proper flow to the heat exchanger
- Quiet Operation - comparable to ambient noise in a library

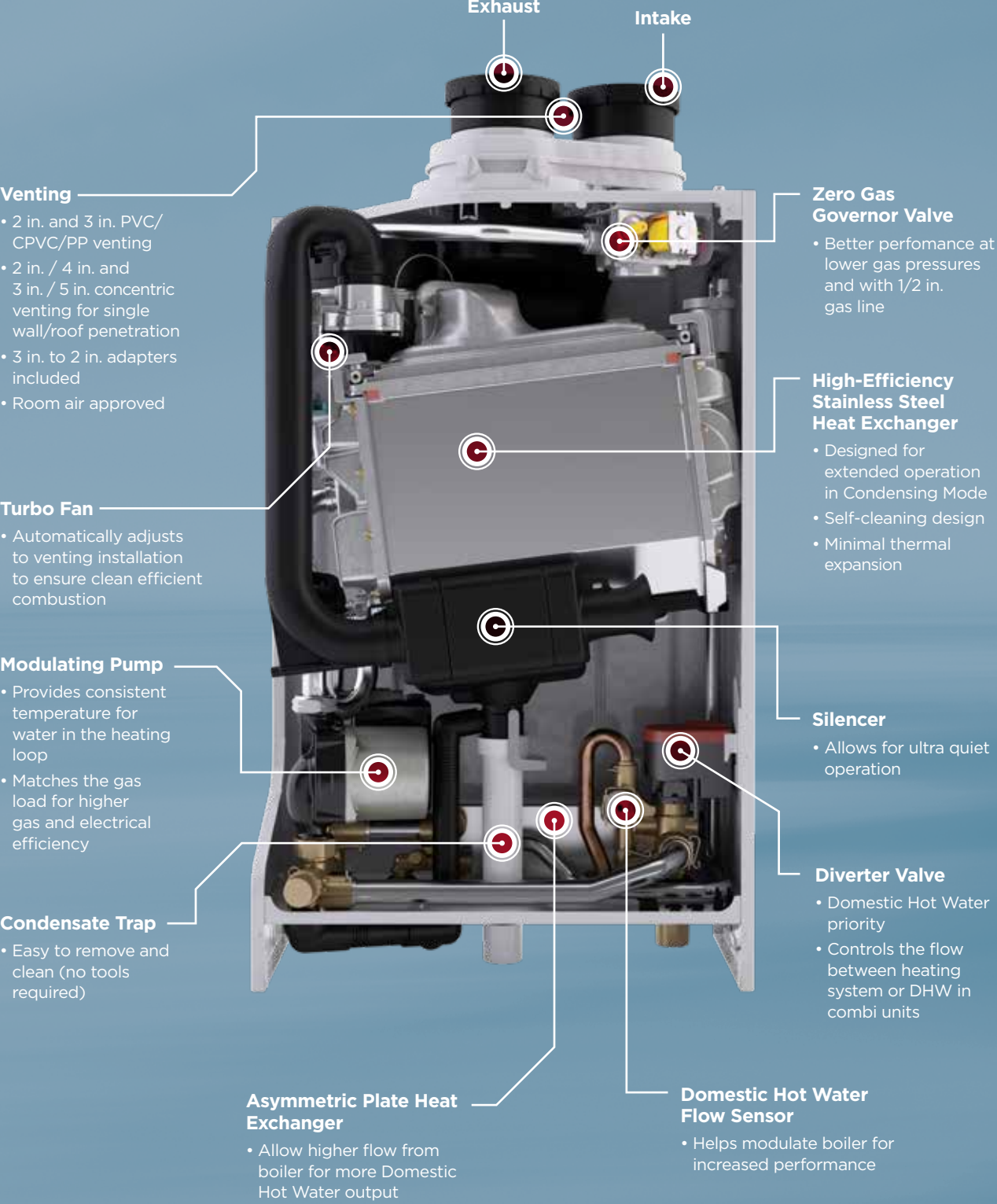


Simplified Service









- Simple control interface with large display
- Simplified parameters and menu navigation
- Easy to service



Look Inside M-SERIES




CONDENSING BOILERS SERIES REFERENCE GUIDE

M-SERIES		E SERIES		Q SERIES			Q PREMIER SERIES	
	HEAT ONLY	COMBI	HEAT ONLY	COMBI	HEAT ONLY		COMBI	COMBI
								
MODELS	M060SN, M090SN, M120SN, M160SN	M060CN, M090CN, M120CN, M160CN	E60SR, E855R, E110SR	E50CR, E75CR, E110CR	Q85S, Q130S	Q175S, Q205S	Q175C	QP130
MAX INPUT (BTU/H)	60,000 - 120,000	HEATING: 60,000 - 160,000 DHW: 103,000 - 160,000	60,000 - 110,000	50,000 - 110,000	85,000 - 130,000	175,000 - 205,000	175,000	130,000
FULLY MODULATING BOILER CIRCULATION PUMP	✓	✓	✓	✓	✓	✓	✓	✓
SELF-CLEANING STAINLESS STEEL HEAT EXCHANGER	✓	✓	✓	✓	✓	✓	✓	✓
APPROVED VENTING MATERIAL	POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC					POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC		
OUTDOOR RESET SENSOR INCLUDED	✓	✓	✓	✓	✓	✓	✓	✓
PLUG-AND-PLAY WIRING	✓	✓	✓	✓	✓	✓	✓	✓
ON-BOARD DISPLAY	MULTI-LINE, ICON BASED TEXT		NUMERIC					
STORAGE CAPACITY								✓
INTEGRATED LOW-LOSS HEADER AND EXPANSION TANK								✓
RESIDENTIAL	✓	✓	✓	✓	✓	✓	✓	✓
LIGHT COMMERCIAL	✓	✓			✓	✓	✓	

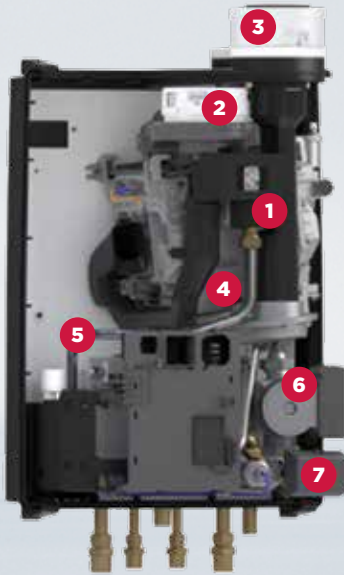
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M-SERIES COMBI



- 1 Exhaust
- 2 Intake
- 3 Venting
- 4 Turbo fan
- 5 Modulating pump
- 6 Condensate trap
- 7 Zero gas governor valve
- 8 High-efficiency stainless steel heat exchanger
- 9 Silencer
- 10 Diverter valve
- 11 Asymmetric plate heat exchanger
- 12 DHW flow sensor

E SERIES COMBI




- 1 Gas valve
- 2 Fan
- 3 Exhaust/intake
- 4 Stainless steel heat exchanger
- 5 DHW plate heat exchanger
- 6 Boiler pump
- 7 Three-way motorized valve allows Combi boiler to switch between heating and DHW

Q SERIES COMBI



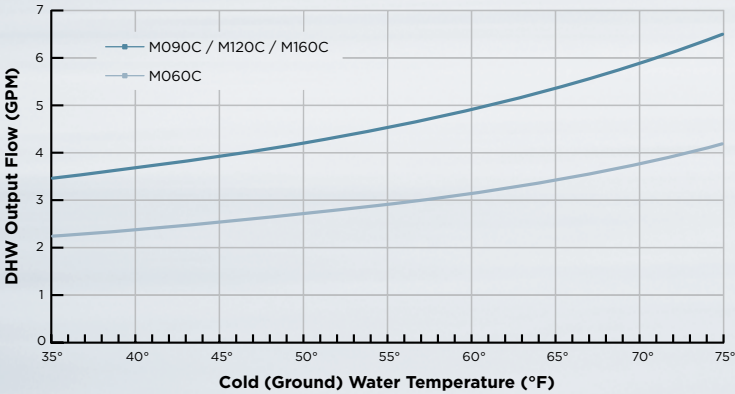
- 1 Gas valve
- 2 Fan
- 3 Exhaust/intake
- 4 Stainless steel heat exchanger
- 5 6.6 gallon DHW indirect tank (Q175C model)
- 6 Boiler pump
- 7 Integrated thermostatic mixing valve for DHW

Q PREMIER SERIES COMBI



- 1 Stainless steel heat exchanger
- 2 Boiler pump
- 3 Three-way diverting valve
- 4 Expansion tank (heating loop)
- 5 Domestic tank pump
- 6 Plate HEX (behind tank pump)
- 7 Temperature and pressure relief valve
- 8 24-gallon stainless steel charged tank
- 9 Tank drain valve

M-SERIES BOILER DHW PERFORMANCE



Note: DHW flow based on target hot water temperature of 110°F













Q PREMIER DOMESTIC WATER COMPARISON

MODEL	QP130	TRADITIONAL BOILER INSTALLATION
TANK SIZE	24 GAL (90 L)	45 GAL (170 L)
BTU	130 K	157 K*
FIRST HOUR	211 GAL (799 L)**	212 GAL (803 L)***
CONTINUOUS	3.2 GPM (12.1 L/MIN)	N/A
PEAK DEMAND	5.6 GPM (22.2 L/MIN)	4.5 GPM (17.0 L/MIN)

*141,000 output for domestic.
**Based on AHRI testing standard for indirect-fired water heaters.
***Based on 90° rise.

MODEL CHART AND SPECIFICATIONS
















M-SERIES CONDENSING BOILERS

M-SERIES HEAT ONLY					M-SERIES COMBI			
								
MODELS	M060SN	M090SN	M120SN	M160SN	M060CN	M090CN	M120CN	M160CN
Dimensions - w, h, d Inches (mm)	17 X 28 X 10 (439 X 699 X 264)	17 X 28 X 10 (439 X 699 X 264)	17 X 28 X 10 (439 X 699 X 264)	17 X 28 X 10 (439 X 699 X 264)	17 X 28 X 10 (439 X 699 X 264)	17 X 28 X 10 (439 X 699 X 264)	17 X 28 X 10 (439 X 699 X 264)	17 X 28 X 10 (439 X 699 X 264)
Unit Weight (lbs/kg)	64 LBS (29 KG)		70 LBS (32 KG)		77 LBS (35 KG)		84 LB (38 KG)	
Fuel Type	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE
Max. Capacity - Heating (MBH)	57 (17 kW)	84 (25 kW)	112 (33 kW)	148 (43 kW)	57 (17 kW)	84 (25 kW)	112 (33 kW)	148 (43 kW)
Gas Consumption: Max. Input - Heating (MBH)	60	90	120	160	60	90	120	160
Gas Consumption: Max. Input - DHW (MBH)	N/A	N/A	N/A	N/A	103,000	160,000		
Gas Consumption: Min Input - Heating (MBH)	NG: 17 / LP: 31.5		NG: 23.5 / LP: 73.5		NG: 17 / LP: 31.5		NG: 23.5 / LP: 73.5	
Electrical Consumption	155 W	177 W	164 W	191 W	185 W	191 W	191 W	191 W
Turn Down Ratio (NG)	3.5:1 / 1.9:1	5.3:1 / 2.9:1	5.1:1 / 1.6:1	6.8:1 / 2.2:1	3.5:1 / 1.9:1	3.8:1 / 1.2:1	5.1:1 / 1.6:1	6.8:1 / 2.2:1
DHW Activation Rate	N/A	N/A	N/A	N/A	0.4 GPM	0.4 GPM	0.4 GPM	0.4 GPM
Max. DHW @ 70° F ΔT	N/A	N/A	N/A	N/A	2.6 GPM	4.2 GPM	4.2 GPM	4.2 GPM
AFUE Rating	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
Circulating Pump	MODULATING	MODULATING	MODULATING	MODULATING	MODULATING	MODULATING	MODULATING	MODULATING
Storage Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Approved Venting Material	POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC					POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC		
Warranty*	STANDARD WARRANTY (SOME RESTRICTIONS APPLY): RESIDENTIAL: 12-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR. COMMERCIAL: 5-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR.					STANDARD WARRANTY (SOME RESTRICTIONS APPLY): RESIDENTIAL: 12-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR. COMMERCIAL: 5-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR.		
Certifications	     SCAQMD, LOW LEAD					     SCAQMD, LOW LEAD		
Included in the box	• Liquid Propane Field Conversion Kit • Wall Mounting Bracket • Temperature Pressure Gauge • Pressure Relief Valve		• Condensate Collector Kit • Outdoor Reset Sensor • Vent Top with Integrated 3 in. (80 mm) PP Adapters		• 3 in. (80 mm) PP to 3" PVC Adapter (Qty 2) • 3 in. PVC to 2 in. PVC or 2 in. (60 mm) PP Adapter (Qty 2) • 3 in. X 5 in. Concentric Vent Adapter		• NPT Adapters: – 1 in. (Qty 2) – 3/4 in. (Qty 1 for Gas Supply Connection)	

* For complete information and details regarding Rinnai's warranty, please visit rinnai.us.

MODEL CHART AND SPECIFICATIONS

















E SERIES CONDENSING BOILERS

E SERIES HEAT ONLY				E SERIES COMBI	
					
MODELS	E60SR	E85SR	E110SR	E50CR	E75CR
Dimensions - w, h, d Inches (mm)	19.7 X 25.6 X 15.6 (500 X 650 X 395)	19.7 X 25.6 X 15.6 (500 X 650 X 395)	19.7 X 25.6 X 15.6 (500 X 650 X 395)	19.7 X 25.6 X 15.6 (500 X 650 X 395)	19.7 X 25.6 X 15.6 (500 X 650 X 395)
Weight (lbs/kg)	75 LBS (34 KG)	75 LBS (34 KG)	81 LBS (37 KG)	81 LBS (37 KG)	82 LBS (37 KG)
Fuel Type	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE
Max. Heating Capacity (MBH)	56 (16.4 kW)	78 (22.9 kW)	101 (29.6 kW)	47 (13.8 kW)	69 (20.2 kW)
Min. Input (MBH)	13.6-NG / 37-LP (4 kW-NG / 11 kW-LP)	13.6-NG / 37-LP (4 kW-NG / 11 kW-LP)	26-NG / 59-LP (8 kW-NG / 17 kW-LP)	13.6 (4 kW)	13.6-NG / 37-LP (4 kW-NG / 11 kW-LP)
Max. Input - DHW (MBH)	N/A	N/A	N/A	85 (24.9 kW)	85 (24.9 kW)
Max. Input - Heating (MBH)	60 (18 kW)	85 (25 kW)	110 (32 kW)	50 (15 kW)	75 (22 kW)
Turn Down Ratio (NG)	4.4:1	6.3:1	4.2:1	3.7:1	5.5:1
DHW Activation Rate	N/A	N/A	N/A	0.5 GPM (2 LPM)	0.5 GPM (2 LPM)
Max. DHW @ 75° F ΔT	N/A	N/A	N/A	2.1 GPM (7.9 LPM)	2.1 GPM (7.9 LPM)
Max. DHW @ 60° F ΔT	N/A	N/A	N/A	3.1 GPM (11.7 LPM)	3.1 GPM (11.7 LPM)
Max. DHW @ 33° C ΔT	N/A	N/A	N/A	4.4 GPM (16.7 LPM)	4.4 GPM (16.7 LPM)
AFUE Rating	95.5%	95.4%	95.5%	95.6%	95.5%
Circulating Pump	MODULATING	MODULATING	MODULATING	MODULATING	MODULATING
Storage Capacity	N/A	N/A	N/A	N/A	N/A
Approved Venting Material	POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC			POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC	
Warranty*	STANDARD WARRANTY (SOME RESTRICTIONS APPLY): RESIDENTIAL: 12-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR. COMMERCIAL: 5-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR.			STANDARD WARRANTY (SOME RESTRICTIONS APPLY): RESIDENTIAL: 12-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR. COMMERCIAL: 5-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR.	
Certifications	     SCAQMD, LOW LEAD			     SCAQMD, LOW LEAD	
Included in the box	<ul style="list-style-type: none">• 3" (80 mm) twin pipe adapters for venting (PVC and PP)• Wall mounting bracket• Outdoor reset sensor• 3/4" gas shut-off valve			<ul style="list-style-type: none">• Wall mounting bracket• Outdoor reset sensor• 3" (80 mm) twin pipe adapters for venting (PVC and PP)• Outdoor reset sensor• 3/4" gas shut-off valve	

* For complete information and details regarding Rinnai's warranty, please visit rinnai.us.

MODEL CHART AND SPECIFICATIONS

Q SERIES CONDENSING BOILERS

Q SERIES (HEAT ONLY MODELS)				Q SERIES (COMBI MODELS)	Q PREMIER SERIES	
						
MODELS	Q85S	Q130S	Q175S	Q205S	Q175C	QP130
Dimensions - w, h, d Inches (mm)	19.7 X 26.8 X 15.2 (500 X 680 X 385)	19.7 X 26.8 X 15.2 (500 X 680 X 385)	26 X 26.8 X 15.2 (660 X 680 X 385)	26 X 26.8 X 15.2 (660 X 680 X 385)	39.4 X 26.8 X 15.2 (1,000 X 680 X 385)	23.6 X 61.8 X 25.2 (600 X 1,570 X 640)
Weight (lbs/kg)	110 LBS (50 KG)	117 LBS (53 KG)	141 LBS (64 KG)	141 LBS (64 KG)	196 LBS (89 KG)	243 LBS (110.2 KG)
Fuel Type	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG OR LP, FIELD CONVERTIBLE	NG, LP WITH CONVERSION KIT
Max. Heating Capacity (MBH)	78 (23 kW)	119 (35 kW)	161 (47 kW)	186 (55 kW)	162 (47 kW)	119 (35 kW)
Min. Input (MBH)	17-NG / 37-LP (5 kW-NG / 11 kW-LP)	26-NG / 59-LP (8 kW-NG / 17 kW-LP)	35-NG / 74-LP (10 kW-NG / 22 kW-LP)	41-NG / 74-LP (12 kW-NG / 22 kW)	35-NG / 74-LP (10 kW-NG / 22 kW-LP)	26 (8 kW)
Max. Input - DHW (MBH)	N/A	N/A	N/A	N/A	175 (51 kW)	130 (38 kW)
Max. Input - Heating (MBH)	85 (25 kW)	130 (38 kW)	175 (51 kW)	205 (60 kW)	175 (51 kW)	130 (38 kW)
Turn Down Ratio (NG)	5:1	5:1	5:1	5:1	5:1	5:1
DHW Activation Rate	INDIRECT TANK COMPATIBLE	INDIRECT TANK COMPATIBLE	INDIRECT TANK COMPATIBLE	INDIRECT TANK COMPATIBLE	N/A	N/A
Max. DHW @ 75° F ΔT					4.1 GPM	211 GALLON / FIRST HR*
Max. DHW @ 41.7° C ΔT					15.5 LPM	794 LITER / FIRST HR*
AFUE Rating	95.4%	95.4%	95.0%	95.0%	95.0%	95.4%
Circulating Pump	MODULATING				MODULATING	
Storage Capacity	N/A	N/A	N/A	N/A	6.6 GAL (25 L)	24 GAL (90 L)
Approved Venting Material	POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC				POLYPROPYLENE, STAINLESS STEEL, PVC, CPVC	
Warranty**	STANDARD WARRANTY (SOME RESTRICTIONS APPLY): RESIDENTIAL: 12-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR. COMMERCIAL: 5-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR.			STANDARD WARRANTY (SOME RESTRICTIONS APPLY): RESIDENTIAL: 12-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR. COMMERCIAL: 5-YEAR HEAT EXCHANGER, 2-YEAR PARTS, 1-YEAR LABOR.		12-YEAR HEAT EXCHANGER, 12-YEAR TANK, 2-YEAR PARTS, 1-YEAR LABOR.
Certifications	     SCAQMD, LOW LEAD				     SCAQMD, LOW LEAD	
Included in the box	<ul style="list-style-type: none">• PRV• 3" (80 mm) twin pipe adapters for venting (PVC and PP)• Temperature and pressure gauge• Outdoor reset sensor• 3/4" gas shut-off valve		<ul style="list-style-type: none">• Plumbing kit—including pre-assembled low-loss header with isolation valves, PRV, boiler drain, temperature and pressure gauge, unions and insulation• 3" (80 mm) twin pipe adapters for venting (PVC and PP)• Wall mounting bracket• Outdoor reset sensor• 3/4" gas shut-off valve• Flow restrictor (Combi models only)			

***Based on AHRI testing standard for indirect-fired water heaters.
*For complete information and details regarding Rinnai's warranty, please visit rinnai.us.

RINNAI CONDENSING BOILERS ACCESSORIES

PLUMBING BOILER KITS*		
KIT NUMBER	FITS MODEL NUMBER	BENEFITS
804000071	E75C / E110C, E60SR, E85SR, E110SR, E50CR, E75CR, E110CR	<ul style="list-style-type: none">• SOLUTION FOR APPLICATIONS WITH HEIGHT LIMITATIONS• ALLOWS INSTALLER TO CONNECT SYSTEM COMPONENTS AT AN OPTIMAL HEIGHT• SAVES ON TIME AND LABOR• MOUNTS TO LEFT SIDE OF BOILER ONLY
804000072	Q85S / Q130S	
804000073	Q175C / Q175S / Q205S	
803000023	PLUMBING KIT - M-SERIES BOILER	<ul style="list-style-type: none">• SAVES ON TIME AND LABOR

CONDENSATE NEUTRALIZER		
PART NUMBER	DESCRIPTION	
804000074	KIT, CONDENSATE NEUTRALIZER (ALL MODELS)	<ul style="list-style-type: none">• RAISES PH BEFORE DISCHARGE INTO DRAIN• 1.6 GALLONS/HOUR (6.05 LITERS/HOUR)• MOUNTS VERTICALLY OR HORIZONTALLY• FAST, SIMPLE INSTALLATION• CLEAR CAPSULE• REFILLABLE• PARTS INCLUDED
809000114	REFILL, CONDENSATE NEUTRALIZER (ALL MODELS)	

RS100 CONTROLLER**	
PART NUMBER	
RS100	<ul style="list-style-type: none">• SIMPLE DIGITAL CONTROLLER WITH BACKLIT DISPLAY• DIRECT COMMUNICATION WITH BOILER• ADAPTIVE INDOOR RESET CONTROL• ERROR REPORTING AND AUTO SERVICE MESSAGE• LOCAL OVERRIDE OF THE ROOM TEMPERATURE• FEATURES THREE FACTORY PRESET PROGRAMS; PROGRAMMABLE FOR HOLIDAYS• CUSTOMIZED PROGRAM/PROFILE CAN BE CREATED BY USER OR INSTALLER TO FIT INDIVIDUAL NEEDS

SCALECUTTER®		
PART NUMBER	DESCRIPTION	FEED
103000038	SCALECUTTER SYSTEM 3/4" FEED	3/4"
103000039	SCALECUTTER SYSTEM REFILL	3/4"

REPLACEMENT KITS FOR M-SERIES		
PART NUMBER	DESCRIPTION	FITS MODEL NUMBER
804000100	8K HR SERVICE KIT (M-60C/60S/90S)	M-60C/60S/90S
804000101	FAN VENTURI KIT (M-60C/60S/90S)	M-60C/60S/90S
804000102	FLAT PLATE HEX KIT (M-60C/60S/90S)	M-60C/60S/90S
804000103	GAS VALVE KIT (M-SERIES)	M-SERIES
804000104	PUMP KIT (M-SERIES)	M-SERIES
804000105	PRIMARY HEX KIT (M-60C/60S/90S)	M-60C/60S/90S
804000107	8K HR SERVICE KIT (M-90C/120C/160C/120S/160S)	M-90C/120C/160C/120S/160S
804000108	FAN VENTURI KIT (M-90C/120C/160C/120S/160S)	M-90C/120C/160C/120S/160S
804000109	FLATPLATE HEX KIT (M-90C/120C/160C/120S/160S)	M-90C/120C/160C/120S/160S
804000110	PRIMARY HEX KIT (M-90C/120C/160C/120S/160S)	M-90C/120C/160C/120S/160S

*Pre-bent pipes only, low-loss header not included in kit.
**Available for E Series and Q Series models; not available for M and QP Series.

FLEXIBLE VENTING OPTIONS



M-Series Plumbing Kit



Condensate Neutralizer Kit

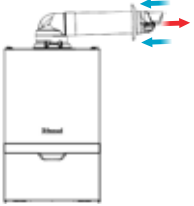


RS100 Controller



ScaleCutter System

VENTING EXAMPLES FOR M-SERIES



2 in. x 4 in. and 3 in. x 5 in. Concentric pipe with horizontal wall termination



2 in. or 3 in. Schedule 40 PVC/CPVC Tee Vertical Termination Configuration

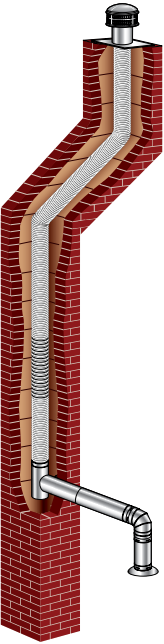


2 in. x 4 in. and 3 in. x 5 in. Concentric pipe with roof termination

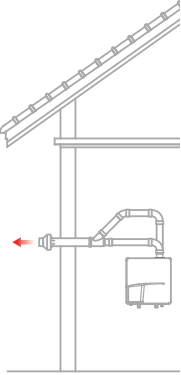


Room-air with vertical termination

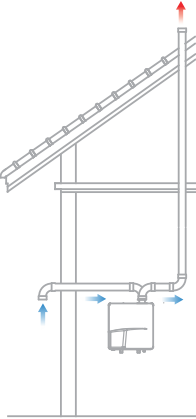
Rinnai Condensing Wall-Mounted Gas Boilers (E, Q and QP Series) ensure a simple installation in any home, and are ready for direct-vent right out of the box—through either a wall or roof penetration. The twin-pipe adapter included allows venting with outside air intake. A comforting combination of safety and flexibility is available with concentric venting, which permits outside air intake through a single wall or roof penetration.



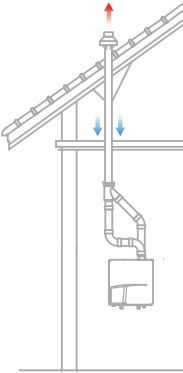
Chimney Liner: Simpson Fas-n-seal Duravent flex liner



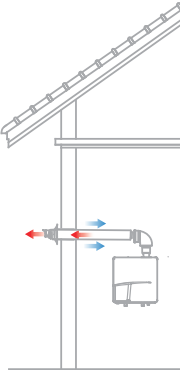
Twin-pipe with concentric sidewall termination



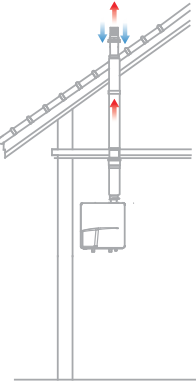
Vertical vent and horizontal air intake



Twin-pipe with concentric vertical termination



Concentric pipe with horizontal sidewall termination



Concentric pipe with roof termination

INSTALLATION & VENTING COMPONENTS

2 in. VENTING FOR ROOM AIR AND TWIN PIPE				
PART NUMBER	IMAGE	DESCRIPTION	INNER EXHAUST MATERIAL	OUTER INTAKE MATERIAL
222715NPP	1	2 in. CONDENSING FIXING CLIP METAL QTY 10	PP	PLASTIC
223085NPP	2	2 in. CONDENSING WALL TERMINAL TWIN PIPE	PP	PLASTIC
222710NPP	3	2 in. CONDENSING 45 DEGREE ELBOW (20/ BOX)	PP	PLASTIC
222711NPP	4	2 in. CONDENSING 90 DEGREE ELBOW (20/ BOX)	PP	PLASTIC
222712NPP	5	2 in. CONDENSING VENT PIPE EXTENSION 39 in. (4/ BOX)	PP	PLASTIC
222714NPP	5	2 in. CONDENSING VENT PIPE EXTENSION 79 in. (4/ BOX)	PP	PLASTIC

2 in. / 4 in. INSTALLATION VENTING COMPONENTS FOR M-SERIES BOILERS				
PART NUMBER	IMAGE	DESCRIPTION	INNER EXHAUST MATERIAL	OUTER INTAKE MATERIAL
710202NPP	6	2 in. / 4 in. CONDENSING 90 DEGREE DIVERTER NOSE	PP	PLASTIC
710215NPP	7	2 in. / 4 in. CONDENSING 45 DEGREE DIVERTER NOSE	PP	PLASTIC
229011NPP	8	2 in. / 4 in. CONDENSING HORIZONTAL TERMINATION KIT 8.7 in.	PP	PLASTIC
229012NPP	8	2 in. / 4 in. CONDENSING HORIZONTAL TERMINATION KIT 12 in.	PP	PLASTIC
229013NPP	8	2 in. / 4 in. CONDENSING HORIZONTAL TERMINATION KIT 21 in.	PP	PLASTIC
229016NPP	9	2 in. / 4 in. CONDENSING 21 in. WALL TERM W/2 WALL PLATES	PP	PLASTIC
224356NPP	9	2 in. / 4 in. CONDENSING ROOF DISCHARGE TERM 20 in. ABOVE ROOF	PP	PLASTIC
229205NPP	10	2 in. / 4 in. CONDENSING 45 DEGREE ELBOW QTY 2	PP	PLASTIC
229230NPP	11	2 in. / 4 in. CONDENSING 90 DEGREE ELBOW QTY 2	PP	PLASTIC
229253NPP	12	2 in. / 4 in. CONDENSING HORIZONTAL STARTER ADAPTER	PP	PLASTIC
229308NPP	13	2 in. / 4 in. CONDENSING VENT PIPE EXTENSION 10 in.	PP	PLASTIC
229309NPP	13	2 in. / 4 in. CONDENSING VENT PIPE EXTENSION 19.5 in.	PP	PLASTIC
229310NPP	13	2 in. / 4 in. CONDENSING VENT PIPE EXTENSION 39 in.	PP	PLASTIC
227412NPP	14	2 in. / 4 in. CONDENSING VERTICAL STARTER ADAPTER	PP	PLASTIC
185348NPP	15	2 in. / 4 in. CONDENSING ROOF TERM EXTENSION KIT	PP	PLASTIC

3 in. VENTING COMPONENTS FOR M-SERIES BOILERS				
PART NUMBER	IMAGE	DESCRIPTION	INNER EXHAUST MATERIAL	OUTER INTAKE MATERIAL
196116PVC	-	3 in. CONCENTRIC PVC	PVC	PVC
196985PVC	-	3 in. LOW PROFILE PVC	PVC	PVC

IPEX VENTING COMPONENTS FOR M-SERIES BOILERS				
PART NUMBER	IMAGE	DESCRIPTION	INNER EXHAUST MATERIAL	OUTER INTAKE MATERIAL
196005PVC	-	IPEX 2 in. CONCENTRIC TERMINATION 2 x 16	PVC	PVC
196105PVC	-	IPEX 2 in. CONCENTRIC TERMINATION 2 x 28	PVC	PVC
196125PVC	-	IPEX 2 in. CONCENTRIC TERMINATION 2 x 40	PVC	PVC
192984PVC	-	IPEX PVC LOW PROFILE TERMINATION 2 in.	PVC	PVC



3 in. / 5 in. INSTALLATION VENTING COMPONENTS					
PART NUMBER	IMAGE	DESCRIPTION		INNER EXHAUST MATERIAL	OUTER INTAKE MATERIAL
223174PP	16	CONDENSING HORIZONTAL TERMINATION KIT	8.7" / 220.9 MM	PP	PLASTIC
223176PP	16	CONDENSING HORIZONTAL TERMINATION KIT	12" / 304.8 MM	PP	PLASTIC
223177PP	16	CONDENSING HORIZONTAL TERMINATION KIT	21" / 533.4 MM	PP	PLASTIC
223186PP	17	CONDENSING HORIZONTAL TERMINATION DIVERTER KIT	19" / 482.6 MM	PP	PLASTIC
184162PP	18	CONDENSING ROOF DISCHARGE TERMINATION SHORT (ABOVE ROOF)	38" / 965.2 MM	PP	PLASTIC
224047PP	19	CONDENSING RAISED HORIZONTAL TERMINATION KIT (SNORKEL)	-	PP	PLASTIC
185344PP	-	ROOF TERMINATION EXTENSION KIT	-	PP	PLASTIC
185346PP	-	CONDENSING TERMINATION EXTENSION	-	PP	PLASTIC
185347PP	-	SEPARATION KIT	-	PP	PLASTIC
187585PP	-	TWIN PIPE ADAPTER FOR USE W/ PVC/CPVC (SPECIAL ORDER ONLY)	-	PP	PLASTIC
224077PP	20	45-DEGREE ELBOW (QUANTITY OF 2)	-	PP	PLASTIC
224078PP	21	90-DEGREE ELBOW	-	PP	PLASTIC
224087PP	22	VENT PIPE EXTENSION	10" / 254 MM	PP	PLASTIC
224079PP	22	VENT PIPE EXTENSION	19.5" / 495.3 MM	PP	PLASTIC
224080PP	22	VENT PIPE EXTENSION	39" / 990.6 MM	PP	PLASTIC

ADDITIONAL ACCESSORIES		
PART NUMBER	IMAGE	DESCRIPTION
146141	23	ROOF FLASHING ASSEMBLY (FLAT ROOF)
189950	24	SHINGLE ROOF FLASHING (1/12 TO 6/12 PITCH; PLASTIC)
189951	24	SHINGLE ROOF FLASHING (6/12 TO 12/12 PITCH; PLASTIC)
189952	24	SHINGLE ROOF FLASHING (8/12 TO 16/12 PITCH; PLASTIC)
50171949	25	TILE/SHINGLE ROOF FLASHING (1/12 TO 6/12 PITCH; METAL)
50171961	25	TILE/SHINGLE ROOF FLASHING (6/12 TO 12/12 PITCH; METAL)
50171954	25	TILE/SHINGLE ROOF FLASHING (8/12 TO 16/12 PITCH; METAL)
242141	26	FLASHING FOR METAL ROOF
710342	27	RUBBER WALL PLATE (WHITE)
710602	27	RUBBER WALL PLATE (BLACK)
224045	28	THIMBLE (1 PIECE PER BOX)
169044	29	PIPE CLAMP
224097	30	METAL PASS THROUGH PLATE
224042	31	UNIVERSAL BUG GUARD

GAS CONVERSION KITS FOR M-SERIES BOILERS			
CONVERSION KITS FOR NG TO LP		CONVERSION KITS FOR LP TO NG	
PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
803000024	NG TO LP CONVERSION KIT FOR M060C	803000025	LP TO NG CONVERSION KIT FOR M060C
803000024	NG TO LP CONVERSION KIT FOR M060S	803000027	LP TO NG CONVERSION KIT FOR M060S
803000028	NG TO LP CONVERSION KIT FOR M090C	803000029	LP TO NG CONVERSION KIT FOR M090C
803000030	NG TO LP CONVERSION KIT FOR M090S	803000031	LP TO NG CONVERSION KIT FOR M090S
803000032	NG TO LP CONVERSION KIT FOR M120C	803000033	LP TO NG CONVERSION KIT FOR M120C
803000034	NG TO LP CONVERSION KIT FOR M120S	803000035	LP TO NG CONVERSION KIT FOR M120S
803000036	NG TO LP CONVERSION KIT FOR M160C	803000037	LP TO NG CONVERSION KIT FOR M160C
803000038	NG TO LP CONVERSION KIT FOR M160S	803000039	LP TO NG CONVERSION KIT FOR M160S



Termination Kits include elbow and rubber wall plate.



endless
comfort

ENERGYSAVER DIRECT VENT WALL FURNACES

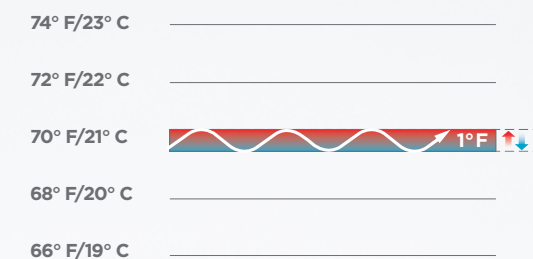
Comfortable home, comfortable energy bill

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

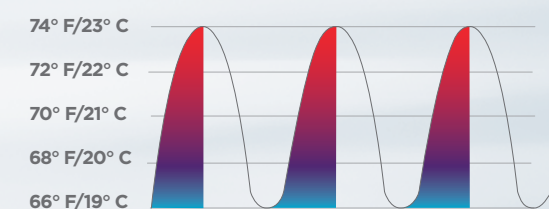


RINNAI MODULATING TECHNOLOGY



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.



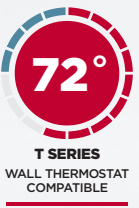
HOW IT WORKS

- 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 for 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. Homeowners can attach to a Wi-Fi enabled thermostat for additional flexibility and comfort. 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.

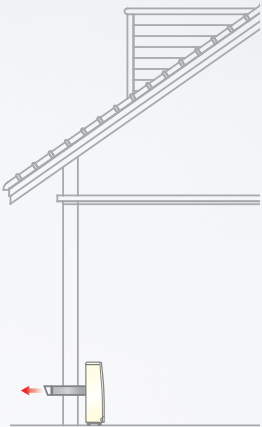
Quick, flexible installation

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.

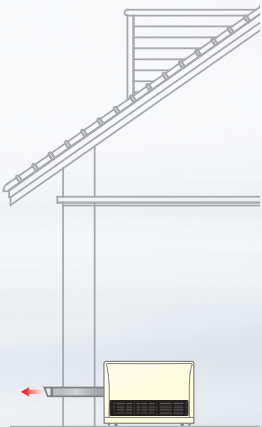
DIRECT VENT VENTING OPTIONS

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.

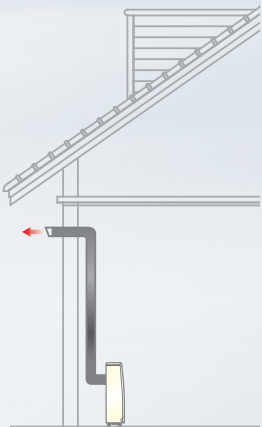
Direct, Through-Wall Vent Termination



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.

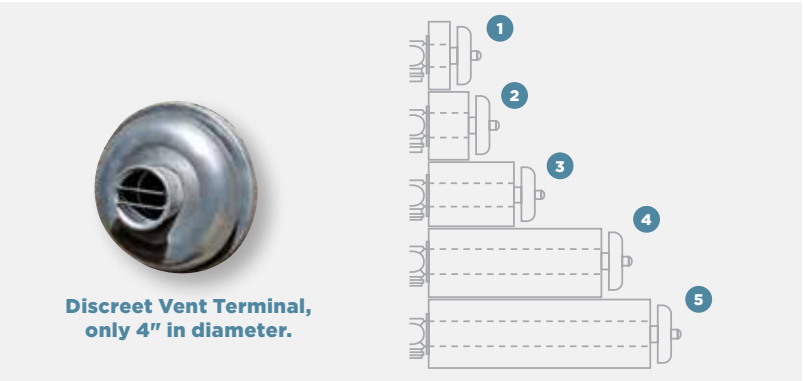
ENERGYSAVER® DIRECT VENT WALL FURNACES

										
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	NG	LP	NG	LP	NG	LP	NG	LP	NG	LP
INPUT RANGE (BTU) (LOW/HIGH)	3,000 / 8,000		5,500 / 11,000		8,200 / 16,700		8,200 / 21,500		13,200 / 38,400	
AFUE RATING	82%		81%		81%		81%		80%	
FAN CFM OUTPUT (LOW/HIGH)	48.3 / 78.6		110.5 / 141.3		111.3 / 191.3		111.3 / 162.7		203.4 / 360.6	
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									
VENTING OPTIONS	CONCENTRIC									
WALL THERMOSTAT COMPATIBILITY	YES		YES		YES		YES		YES	

WALL THERMOSTAT INSTALLATION KITS

PART NUMBER	DESCRIPTION
204000045	WALL THERMOSTAT INSTALLATION KIT (US MARKET ONLY)
204000048	WALL THERMOSTAT INSTALLATION KIT (CANADIAN MARKET ONLY)

VENT TERMINATIONS			
	PART NUMBER	DESCRIPTION	FITS WALL THICKNESS (IN)
1	FOT-150	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



ACCESSORIES

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				•

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	
2030001	NG	EX38CT/EX38CTW
2030002	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	•	•	•	

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

endless

peace of mind



We designed the Rinnai Vent-Free Fan Convector 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

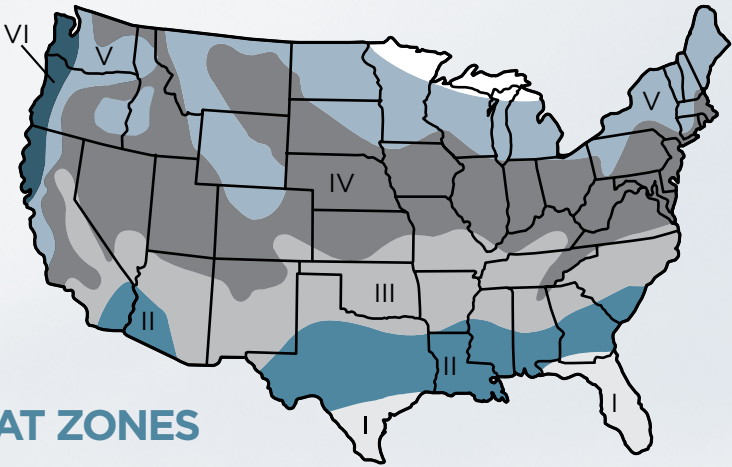
Quickly trouble-shoot and repair each system with onboard diagnostics.





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			
ROOM VOLUME / HEATING AREA SIZE			
BTU ZONE	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. The guidelines apply to average house construction.

• This is intended to be used as a guide and not a replacement for a professionally engineered project.

• 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.

• Sizing does not describe a complete system.

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

• 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>.

*Square footage column based off of an 8ft ceiling height.

** 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.



• 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.

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.



24/7/365
TECHNICAL
SUPPORT



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:

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Rinnai
HEATING SOLUTIONS

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