

Experience the calming beauty of RSF fireplaces and the real wood fire.

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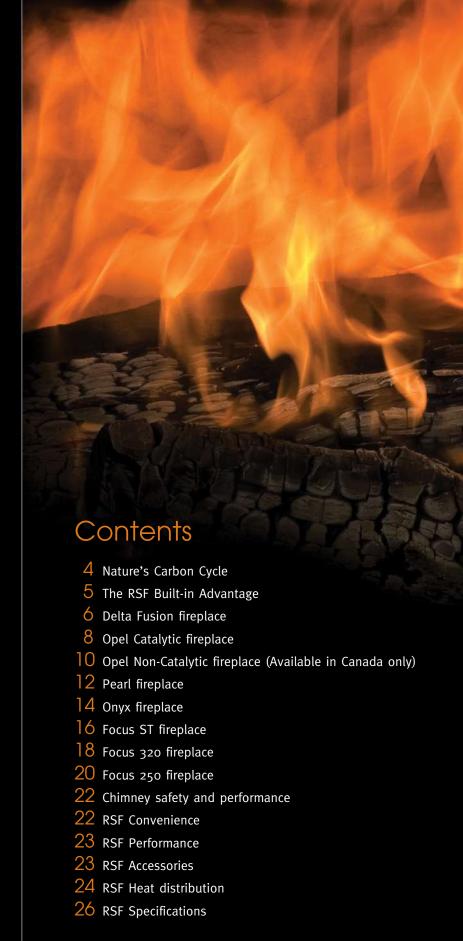
Nothing can replace the warm embrace of a real wood fire. A wood fire gives off a special kind of warmth that penetrates and soothes. It's true that burning wood in your fireplace isn't as convenient as burning gas. But like all of life's best things, that little extra effort makes a world of difference.

Just like Sunday dinner doesn't come out of a can and fine wine doesn't come out of a box, a real fire doesn't come out of a pipeline.

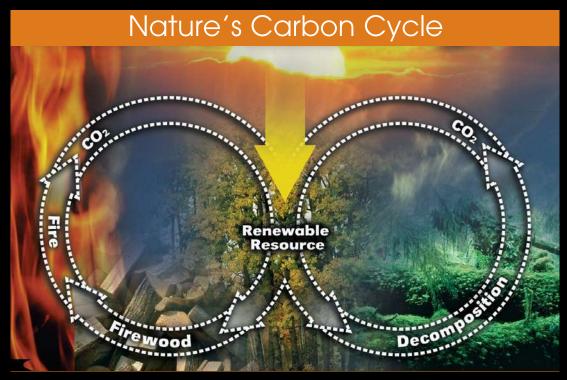
If it's a real fire...it's wood. And if it's a clean burning efficient wood fire... it's probably an RSF fireplace.

So come in, relax, kick off your shoes and leave your frantic life at the door. Experience the calming beauty of RSF fireplaces and the real wood fire.





Burning wood in an RSF fireplace is good for the environment



RSF means Renewable Solid Fuel.

Using energy from the sun, nature's carbon cycle moves from the atmosphere to the forest and back. Here is how it works: trees absorb carbon dioxide from the air as they grow using photosynthesis. In fact, about half of their dry weight is absorbed carbon. As old trees die and decay, or are consumed by a forest fire, their carbon is again released as carbon dioxide.

When firewood is used as an energy source, part of the natural carbon cycle is brought into our homes. A fire in an RSF fireplace releases the solar energy stored by the tree as it grew. A clean burning fireplace will heat your home more efficiently and with lower environmental impact than any other fuel option. Oil, gas and coal are fossil fuels (non-renewable fuel sources). When they are burned, old carbon that was buried deep within the earth is released to the atmosphere. The rising concentration of carbon dioxide from fossil fuel use is linked to global warming, climate change and the unusual weather seen in recent years.

An RSF wood burning unit adheres to strict emissions and particulate testing. No more carbon dioxide is released than the natural forest would release if it were left untouched. Using wood for heat means less fossil fuels are burned, less greenhouse gas emissions are released, resulting in a healthier environment.

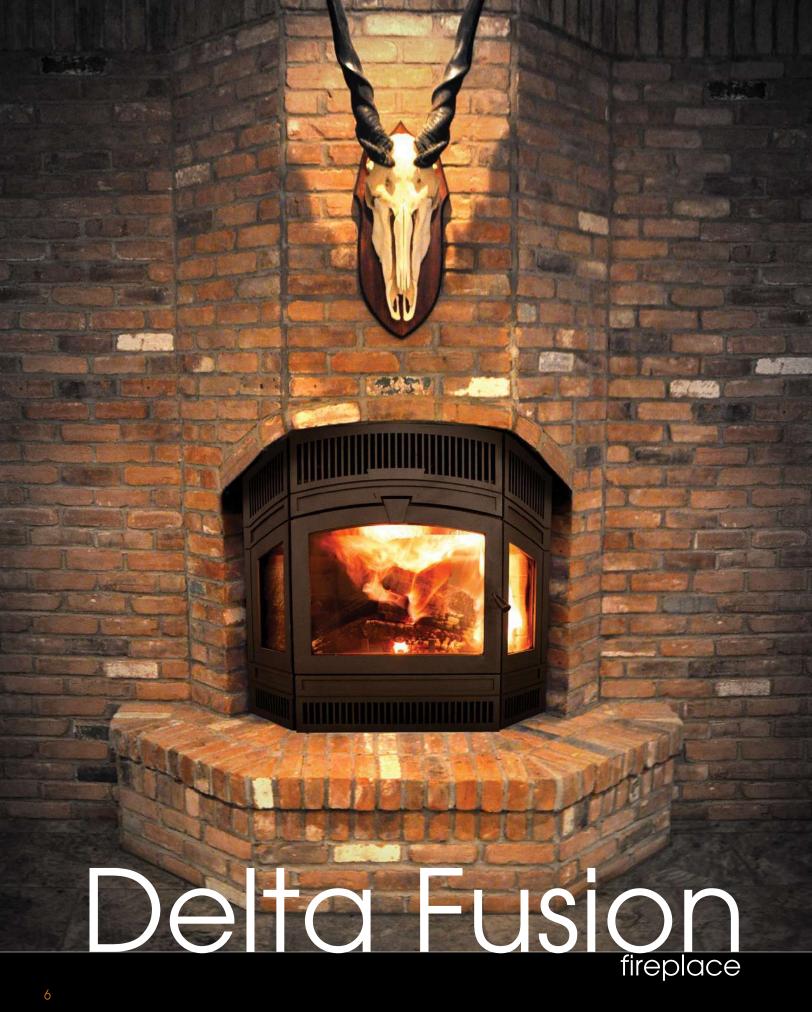


A fireplace is one of the most sought after features in a home and will increase its resale value more than a freestanding wood stove. RSF wood-burning fireplaces perform like wood stoves, but provide the aesthetic appeal of a fireplace.

You can heat the basement from the living room. The built-in nature of RSF fireplaces allow for configuration of ductwork and fans to move heat to other rooms. This is not only beneficial for heating areas that would otherwise be impossible to heat (e.g. basement), but it is very effective at keeping the space with the fireplace comfortable.

Consider for a moment the comfort and beauty of a real woodburning fireplace. A warm hearth welcomes family and friends, while the mantle displays treasured memories. That is the built-in advantage of RSF.







Winner of the Hearth & Home 2016 Vesta Award, the Fusion's huge firebox has an emission rate lower than most stoves half its size.



Designed to be easy to use, time saving, and efficient, the Delta Fusion automatically burns at a rate considered to be a 'sweet spot'. This 'sweet spot' reduces emissions and maintains a visually striking fire. Our exclusive bi-metallic damper constantly regulates the air supply to keep the stove burning in this optimal range. Simply fill it with wood and kindling, light it up, and close the door. Through the unique panoramic window, experience the warming glow of its big beautiful fire.

There is nothing to adjust other than the size of the wood load. Whether you are new to wood burning or have a lifetime of experience, you will appreciate how the Fusion automatically maintains a gorgeous, environmentally friendly fire. The cleanest fires are achieved with lots of secondary combustion, which just happens to be when the fire is most visually appealing.

- Available in Canada and in the United States
- EPA certified at 1.3 g/hr.
- Rugged styling with a 4.4 ft³ firebox
- 510 in² panoramic view
- Optional 635 cfm Central Blower

Installation and Framing Alternatives



















The Opel is available either as a catalytic or non-catalytic fireplace. Both offer the same beautiful cast iron door options (single or double) and ultra-high efficiency to keep your family warm.

The technology in the Opel is the result of over 30 years' experience in making high efficiency fireplaces. In the past, *Popular Science Magazine* has recommended the Opel for its efficiency and reduction of emissions. Over the years this technology has only improved and been refined to make the Opel that is available today.

Catalytic Opel

- Available in Canada and in the United States
- EPA Certified to comply with 2015 particulate emission standards at 2.48 g/hr.
- Large 3.6 cubic feet firebox allowing overnight burns
- · Beautifully sculptured, handmade firebrick lining



"Solar power from the sun, wind power and wood energy are renewable resources, meaning they can be used forever without depleting the earth.

Using renewable energy is like living off the interest earned by the earth's assets and never touching its savings."



"The Opel fireplace is recommended by Popular Science Magazine."

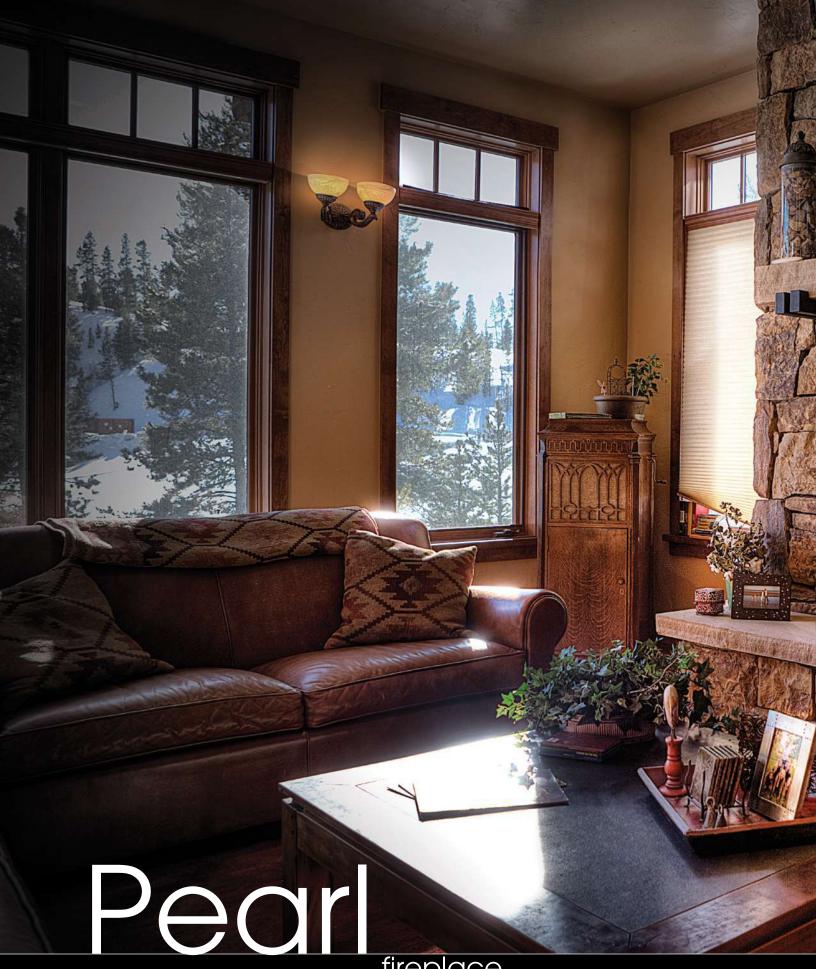
Behind the elegantly shaped single or double doors of the Opel burns a fire that reflects the traditions of our ancestors. Yet this is no ordinary fire.

This fire yields low emissions, overnight burns, and efficiency on par with most basement furnaces.

The patented technologies used in the Opel give you the peace of mind that your fireplace burns a renewable energy source in a beautiful and environmentally responsible way.

Non-Catalytic Opel

- Available in Canada only
- Certified exempt to CSA B415.1 with a rate of 2.8 g/hr.
- Large 3.6 cubic feet firebox allowing overnight burns
- · Beautifully sculptured, handmade firebrick lining



fireplace



"The heat that comes
from wood is comforting
to the body and soothing
to the spirit in a way
that cannot be
duplicated by any other
heat source but the sun."

The Pearl is crafted with the perfect combination of refined, yet rustic styling. Renowned for quality construction and market leading performance, the Pearl, like all RSF fireplaces is built to last a lifetime and is an excellent addition to any home. The mid-sized 2.1 cubic foot firebox is capable of heating 1,500 square feet and can be outfitted with an optional Heat Dump blower to ensure your comfort.



Onyx

fireplace



Our customers say the Onyx has the most colorful, dynamic flames they have ever seen, the kind of flames which are impossible to duplicate with gas or pellets. The Onyx can provide enough heat for the average house, burn overnight, and look great, all at the same time. Patented RSF technology enables the Onyx to burn so clean that it is EPA certified to the same standards as the best freestanding wood stoves.

The Onyx

- Large 3.1 cubic foot firebox
- EPA certified to comply with 2015 NSPS particulate emission standards
- Realistic firebrick lining
- Mobile home approved
- Takes 20" logs





"When all else fails, you can count on a real wood fire. Without heat, an emergency becomes a disaster, but with an RSF fireplace and a few candles, you'll turn it into a family adventure. When storms rage and the power lines go down, your family will be warm, cozy and safe around a real wood fire."

Focus ST

The Focus ST is designed to share warmth and light with multiple areas of your home. It is the perfect choice if you are looking for a see-thru fireplace that is clean burning and efficient.

Note: The Focus ST is not controllable like other RSF fireplaces. It is suitable for supplemental heating only.



fireplace



"Contemporary design is not only defined by subtle sophistication and simplicity, but with smooth, clean geometric shapes.

The clean face Focus 320 is a lesson in contemporary fireplaces."

In Latin, *Focus* means *Fire*. It is a fitting name for a fireplace that has been designed to optimize every aspect of the fire. The large viewing space, unique flame pattern, impressive heat output and exceptional combustion efficiency make the Focus 320 stand out. A simple but stylish door and an optional decorative surround that blend the worlds between efficient wood-burning and contemporary design. Never having to sacrifice efficiency for design is a benefit that will keep your *focus* where it should be... on the fire.





Chimney safety and performance

Choosing the wrong chimney can adversely affect the safety and performance of your high efficiency fireplace.

Air cooled chimneys were designed for open wood-burning fireplaces. Since open fireplaces produce very little heat, air cooled chimneys are not required to undergo severe chimney fire testing. These chimneys have no insulation; they stay cool by circulating cold air past the inner flue. As a result, the flue is cooler than with an insulated chimney resulting in reduced draft and a greater chance of creosote formation. They are used on most entry level "builder box" fireplaces so they are usually constructed of the cheapest materials UL Standards allow.

Insulated chimneys were designed for wood stoves. Stoves can produce high flue gas temperatures and large amounts of creosote which can cause chimney fires. Stove chimneys are certified to much tougher safety standards which require the chimney sys-





tem to withstand repeated 2100°F chimney fires. They utilize high temperature insulation and superior stainless steel making them much more expensive to build. They warm up quickly and are less likely to accumulate creosote.

High efficiency fireplaces are wood stoves with cabinets around them to keep the outside of the cabinet cool and circulate the stove's heat into the room. They warm up faster, draw better and form less creosote when they are installed with an insulated chimney. That's why RSF Fireplaces are <u>only</u> approved with Excel insulated chimney, which passes ULC S-629M, the most stringent chimney safety standard in North America.

Insulated chimneys are far superior in cold climates. Air cooled chimneys circulate air past the flue continuously so in cold weather the chimney is very cold, which can cause condensation to form when the fireplace isn't burning. This condensation can trickle down the system gathering on top of the fireplace. Air cooled chimneys were never designed for extreme temperatures. But don't take our word for it. Here is what one of our competitors, a manufacturer of both systems, warns about air cooled chimneys:

"In areas where winter temperatures are normally below freezing, the air cooled chimney may produce condensation. This condensation may corrode the top of the fireplace and is not covered under warranty. For optimum performance of your fireplace, (we) recommend the use of a (packed chimney)..."

RSF Fireplaces refuses to sacrifice performance and chimney fire protection to save a few dollars on the chimney. We believe superior products offer superior results in durability, performance, and most of all safety.

Some high performance fireplaces are only available with air cooled chimney. It doesn't make sense to connect a high performance fireplace to a low performance chimney system so:

Before you buy a high efficiency fireplace make sure it is available with an insulated chimney.

RSF convenience

- Unlike conventional wood units RSF fireplaces burn for many hours on a single load of wood, so you can enjoy the beauty of a real wood fire without the hassle of hauling wood and tending the fire all the time.
- RSF fireplaces produce virtually no creosote and very few ashes so you won't need to clean the fireplace, or the chimney, very often.
- The air-wash system on every RSF fireplace is designed to keep the glass clean under normal operating conditions.

RSF performance

Bi-metallic Air Control



RSF has incorporated a unique bi-metal damper into their large firebox Opel, Delta Fusion, Onyx and Focus 320 fireplaces which works like a thermostat on

your furnace delivering unsurpassed temperature controlled heat to your living space. Conventional air controlled fire-places have fixed air controls which burn up to 50% of their wood load in the first 2 hours of their burn cycle. That means excessive heat for the first two hours, and little heat for the next eight.

RSF's bi-metal damper senses the temperature in the heat exchanger automatically reducing the air setting at the start of the burn cycle and opens at the end delivering even temperature controlled heat throughout the burn cycle. The bi-metal damper also adjusts to the heating demands of your home automatically burning more wood on a cold winter night and less on a late spring evening, yet always delivering the same temperature controlled heat to your living space. RSF's unique bi-metal damper is just one of the reasons RSF fireplaces have earned the coveted *Popular Science Choice*.

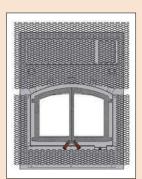
RSF accessories

Firescreen



Optional firescreens are available on some models and allow you to enjoy the warmth and beauty of an open fire.

Rock Retainer Kit



The rock retainer kit is a trim assembly designed to permit the metal fireplace face to be neatly and easily covered with a thin non-combustible material such as sliced brick, tile, stone veneer or marble.

Finishing



The metal front on many RSF fireplaces can be covered with any non-combustible material. Select models also allow for the louver opening to be covered if two gravity vents are installed and a Clean Face Kit is used.

It is also possible to install a soldier course of brick to partially cover the top louver as long as 100 in² of opening remains for air circulation.

Masonry Chimney Adapter

All RSF fireplaces are approved to be installed into a masonry chimney. The installation requires an RSF chimney adapter and a stainless steel chimney liner. The installation requirements are specific, please be sure to read the installation instructions for the model that you select carefully before constructing your chimney.

Gas Conversion Option

It is possible to drill out some fireplaces to accommodate the installation of an aftermarket gas log assembly (see inside back cover for list). You may not install a gas log lighter in any RSF fireplace because the high firebox temperatures will burn out the log lighter very quickly.

RSF heat distribution

Central heating capabilities

The central heating option enables RSF fireplaces to be ducted in any direction, including down into a level below the fireplace. The ducting from an RSF fireplace can be set up a number of different ways:

- You can run a single duct from your RSF fireplace to a cool room on any level of your home and use a thermostat in that room to turn on the blower when the room requires heat.
- You can locate the thermostat in the same room as the fireplace and use it to turn on the blower and move the heat to another area of the house when the room with the fireplace gets too warm.

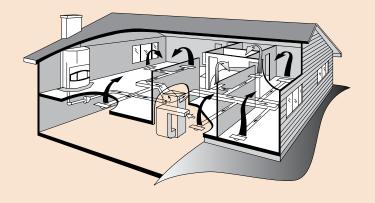
RSF's unique bi-metallic air control automatically adjusts the burn rate of the fire to compensate for the additional output required to supply your central heating system.

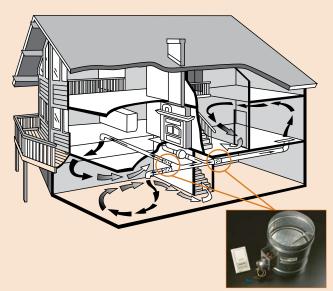
Central Heating

A duct can be run from the fireplace into the central heating furnace ductwork that enables the heat from the fireplace to be distributed evenly throughout the home. See diagram below. Options FDHB6-1 and FDHC6.

Zone Heating

Ducting can be installed for up to four separate zones in your home and each zone can be controlled individually using our zone heating control and zone definition kit. See diagram below. Options FDHB6-1, FDHCZ1 and FDHCZ2.





Zone definition kit FDHCZ2

Note: The bi-metallic air control and central heating options

are not available on the Pearl, Focus ST or the Focus 250.

Note: Central Heating negates EPA certification on Opel Catalytic units.

RSF heat distribution

Gravity Vent Kit



All fireplaces can be installed with up to two optional Gravity Vent Kits. Gravity Vent Kits allow you to duct heat from the fireplace to a room above or on the same level as the fireplace.

Clean Face models require two Gravity Vent Kits.

Heat Dump Kit



The Heat Dump Kit uses a 180 cfm fan to direct a moderate amount of warm air from the fireplace to another room. It has a maximum run of 8 ft. and is most often used to pro-

vide supplemental heating to a basement room when the fireplace is on the main floor.

Clean Facing Kit



The Clean Facing Kit consists of an intake grill and boot, a five foot length of flexible aluminum duct and a sleeve to connect the duct to the fireplace.

Wall Mounted Electric Thermostat

RSF's unique bi-metallic air control can be combined with a White Rogers® wall-mounted thermostat to automatically regulate heat output. The thermostat adjusts the airflow into the fireplace to maintain the desired temperature in your room — just like a furnace. No need to fiddle with your stove, simply set it and forget it. Option FO-FDHC4 available.

Inline Fan

The Inline Fan can be installed behind the intake grill of the Clean Facing Kit to provide increased air circulation. It can also be used in combination with the Intake Duct Kit to add a blower to the Focus 250 fireplace.

Internal Blower



Optional Internal Blowers will improve air circulation around the firebox and help blend the warm and cool air in the room, making it feel more comfortable. The Foucs 250 fireplace uses the

Inline Fan and Intake Duct Kit to create the same effect.

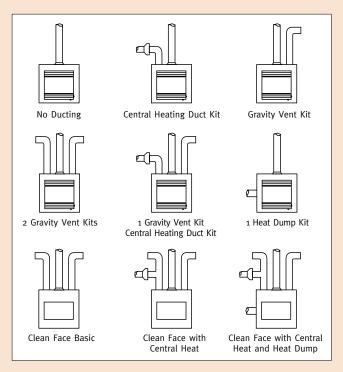
Central Heating Blower



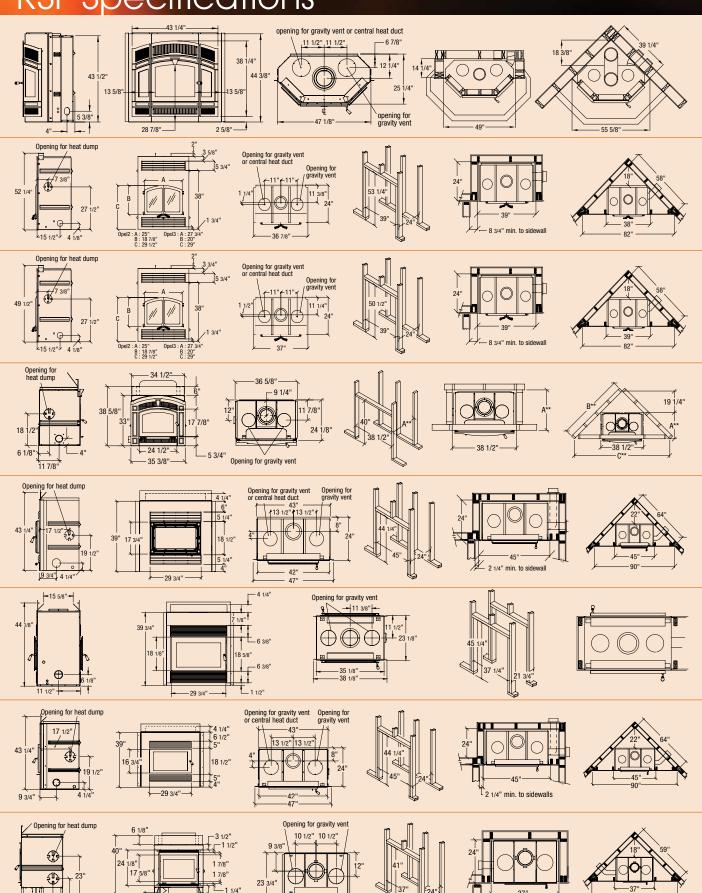
An optional 635 cfm external blower can be used to circulate the heat from the fireplace in any direction. The kit includes a 5 ft. length of acoustic ducting, a variable speed control,

a mounting bracket and a back draft damper. Can be installed on the left side only. Negates EPA certification on Opel Catalytic units.

Ducting Options



10 1/2



- * All RSF fireplaces can be installed directly on the combustible materials of the framing; the fireplaces are all zero clearance.

 The suggested framing dimensions are larger than necessary to facilitate the installation of the fireplace. All dimensions are in inches.
- ** Dimensions A, B and C will vary depending on the facing material. See the Pearl installation instructions for details.

	Delta	Opel	Opel					
	Fusion	Catalytic	(non-cat)	Pearl	Onyx	Focus ST	Focus 320	Focus 250
Outside Dimensions (W x H x D)	47 1/8" x 44 3/8" x 25 1/4"	37" x 52 ¼" x 24"	37" x 49 ½" x 24"	36 5/8" x 38 5/8" x 24 1/8"	43" x 43 ¼" x 24"	37 ¼" x 45 ¼" x 21 ¾"	45" x 44 ¼" x 24"	37" x 41" x 24"
Weight (ship wt. Add 70 lb)	590 lb	470 lb	435 lb	450 lb	465 lb	505 lb	430 lb	365 lb (ship wt. = 385 lbs.)
Firewood Length	24"	18"	18"	16"	20"	20"	22"	18"
Firebox Size ¹	4.4 cubic feet	3.6 cubic feet	3.6 cubic feet	2.1 cubic feet	3.1 cubic feet	4.1 cubic feet	2.6 cubic feet	2.1 cubic feet
BTU Output Range ²	40,000 to 95,000	10,000 to 70,000	10,000 to 70,000	11,000 to 50,000	10,000 to 50,000	50,000	10,000 to 50,000	11,000 to 50,000
Heating Capacity ³	3,000 ft ²	1,500 to 3,000 ft ²	1,500 to 3,000 ft ²	800 to 1,500 ft ²	1,000 to 2,000 ft ²	1,000 ft ²	1,000 to 2,000 ft ²	800 to 1,500 ft ²
EPA Certification	1.3 g/hr	2.4 g/hr	note ⁴	4 g/hr	4.5 g/hr	EPA not applicable ¹⁰	4.5 g/hr	4 g/hr
Optimal Efficiency ⁵	66% (LHV)	81% (LHV)	N/A	76% (LHV)	77% (LHV)	N/A	77% (LHV)	76% (LHV)
Chimney	8" Excel	7" Excel	7" Excel	7" Excel	7" Excel	8" Excel	7" Excel	7" Excel
Door Finish	Metallic Black	Metallic Black	Metallic Black	Metallic Black	Metallic Black	Metallic Black	Metallic Black	Metallic Black
Decorative Trims	N/A	Opel2: N/A Opel3: PDTB, PDTG, PDTP	Opel2: N/A Opel3: PDTB, PDTG, PDTP	N/A	NDTG NDTP	N/A	N/A	N/A
Ash Pan	N/A	FO-AP8	FO-AP8	N/A	FO-CAP8	N/A	N/A	N/A
Gravity Vent Kit	F0-V2	F0-V2	F0-V2	F0-V2	F0-V2	F0-V2	F0-V2	F0-V2
Gravity Vent Damper	N/A	FO-D ⁸	FO-D ⁸	N/A	FO-D ⁸	N/A	N/A	N/A
Heat Dump	N/A	FO-HD	FO-HD	FO-HD ⁹	FO-HD	N/A	FO-HD	FO-HD
Internal Blower	FO-FDHB5-N ⁸	FO-FDHB5-N ⁸	FO-FDHB5-N ⁸	FO-FDHB89	FO-FDHB5-N ⁸	N/A	FO-FDHB5-N ⁸	N/A – See Inline Fan
Central Heating Blower 635cfm	FO-FDHB6-1	FO-FDHB6-19	FO-FDHB6-1	N/A	FO-FDHB6-1	N/A	FO-FDHB6-1	N/A
Central Heating Control	FO-FDHC6	FO-FDHC69	FO-FDHC6	N/A	FO-FDHC6	N/A	FO-FDHC6	N/A
Central Heating Tee	F0-T	F0-T ⁹	F0-T	N/A	F0-T	N/A	F0-T	N/A
Zone Heating Option	FO-FDHCZ1 & FO-FDHCZ2	FO-FDHCZ1 & FO-FDHCZ2 ⁹	FO-FDHCZ1 & FO-FDHCZ2	N/A	FO-FDHCZ1 & FO-FDHCZ2	N/A	FO-FDHCZ1 & FO-FDHCZ2	N/A
Electric Thermostat	N/A	FO-FDHC4	FO-FDHC4	N/A	FO-FDHC4	N/A	FO-FDHC4	N/A
Rock Retainer Kit	FO-KDF	F0-KP4	F0-KP3	N/A	FO-KN	FO-KR	FO-KN	N/A
Clean Facing	N/A	F0-F3 + F0-V2 (2X)	F0-F2 + F0-V2 (2X)	N/A	F0-F2 + F0-V2 (2X)	N/A	F0-F2 + F0-V2 (2X)	N/A
Inline Fan	N/A	FO-CIF ⁹	FO-CIF	N/A	FO-CIF	N/A	FO-CIF	FO-CIF & FO-CID
Gas Log Provision ⁶	N/A	YES	YES	N/A	YES	YES	YES	N/A
Masonry Chimney Option	FO-FDM8	FO-FDM7	FO-FDM7	FO-FDM7	FO-FDM7	FO-FDM8	FO-FDM7	FO-FDM7
Firescreen	N/A	F0-FDFS ⁹	FO-FDFS	N/A	N/A	N/A	N/A	N/A
Outside Air ⁷	4", meets R2000	4", meets R2000	4", meets R2000	4", meets R2000	4", meets R2000	4", meets R2000	4", meets R2000	4", meets R2000
Mobile Home Approved	NO	NO	NO	NO	YES	NO	YES	NO
 Louver or Grill Options	Black Decorative Faceplate included	Black, Pewter or Gold Plated Louvers or Decorative Grills ⁸	Black, Pewter or Gold Plated Louvers or Decorative Grills ⁸	Black Decorative Faceplate included	Black, Pewter or Gold Plated Louvers or Decorative Grills ⁸	Black Louvers included	Black Louvers included	Black Louvers included

note 1: Based on overall firebox dimensions, EPA official firebox dimensions are smaller.
note 2: Actual BTU output depends on many factors, but primarily on the quality of the

note 2: Actual BTU output depends on many factors, but primarily on the quality of the wood burned.

note 3: Depends primarily on wood quality, ambient air temperature and building heat loss.

note 4: The non-catalytic Opel is available in Canada only and is certified as an exempt appliance to CSA B415.1 with a rate of 2.8 grams/hour. With the optional catalytic combustor (FO-FDCCO), the Opel is EPA certified to comply with 2015 particulate emissions standards until 2020 @ 3,7 grams/hour.

emissions standards until 2020 @ 3.7 grams/hour.

note 5: Low Heating Value (LHV), using data generated under the best circumstances and CSA B415.1-10 calculations

note 6: These fireplaces may be drilled out to accept an after market gas log assembly.

You may not install a gas lighter in any RSF fireplace because the high firebox temperatures will hum out the log lighter year quickly.

temperatures will burn out the log lighter very quickly.

note 7: All RSF models come equipped to accept a 4" outside air duct, a 5" can also be used. All models can also be installed to operate using room air.

note 8: N/A on fireplaces installed with the Clean Face Option.

note 9: Negates EPA certification.

note 10: The Focus ST can be sold in Canada and the USA as per Subpart AAA of the 2015 EPA Standards of Performance for New Residential Wood Heaters Vol. 8o, No. 5o.

What's important to you?

- Beautifying your living space and increasing home value
- Providing a primary or supplemental heat source
- Cutting the cost of your heating bill
- Creating an eye-catching design focal point in your room
- Heating the basement from your living room
- Adding a gathering place for friends and family
- Incorporating a flat screen TV into your room design
- Enjoying a mantle for the holidays, family keepsakes & photos
- Making the best VALUE choice for your investment

So YOU decide

RSF real wood-burning fireplaces...

A Better Idea!

30 Year Limited Warranty

All RSF wood-burning fireplaces are covered by a comprehensive 30-year warranty. Please ask your RSF dealer for a complete copy of the warranty.

"We built it better so we back it better"



A division of: Industrial Chimney Company

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Visit our web site for installation photos: www.icc-rsf.com

