



VERMONT
CASTINGS

WOOD-BURNING STOVES

TRUE CRAFTSMANSHIP

Vermont Castings was founded on the belief that the stately beauty of cast iron could be combined with the simple utility of wood heat, to craft stoves of value and enduring beauty.

Among the vibrant hills and silver waters of the Green Mountain State is one constant: the promise of American craftsmanship. This is where day after day, year after year, the proud people of Vermont Castings craft each stove with hand and heart.

Vermont Castings provides more than heat. It's the warmth that unites. The timeless designs and furniture-quality finish set the scene for intimate memories. No detail is too small, no element insignificant. This is true craftsmanship.

VERMONT CASTINGS



KEY TECHNOLOGIES

FLEXBURN® TECHNOLOGY

FlexBurn stoves burn with or without a catalyst and achieve 15% higher efficiency on low burns with the catalyst in place.



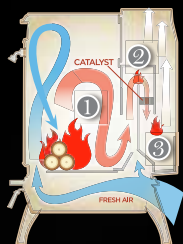
① START UP

- Primary burn started and fueled by fresh air
- Bypass damper is open



② 2-STAGE BURN

- Damper is closed once stove and flue are sufficiently hot, forcing smoke into the secondary combustion chamber
- Additional air feeds combustion of gases for secondary burn

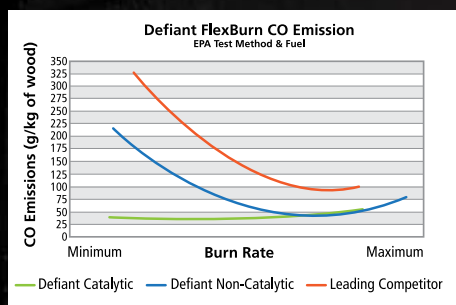
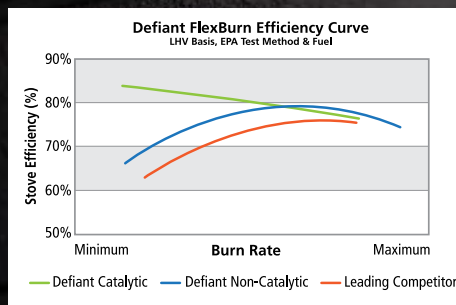


③ 3-STAGE BURN

- With catalyst in place, increased efficiency and lower emissions result from a tertiary burning of gases and CO
- The catalyst also enables combustion at much lower temperatures, extending burn times and saving on fuel costs

SAVE MONEY AND USE LESS WOOD WITH A CATALYST

Increase your heating efficiency and lower your stove emissions, ensuring you get the most out of each load of wood.



TOP LOAD TECHNOLOGY

Our top load technology is second to none and perhaps the most celebrated feature of Vermont Castings stoves.

Top loading lends itself to numerous conveniences and safety features:

- The top load design increases load capacity by allowing you to utilize the entire fire box; load the firebox right to the top for longer burns
- Top loading is safer and cleaner, keeping ash and embers contained
- The smokeless design releases less smoke in your room than loading from the front
- Direct heat to the stovetop results in a superior cooking surface



THERMOSTATICALLY CONTROLLED COMBUSTION

Our unique, built-in thermostat requires no electricity and automatically adjusts the required air for combustion. Just set the stove for the heat output you want and let the thermostat do the rest. The result—longer, more even heat.



Catalyst Included

DEFIANT FLEXBURN WOOD-BURNING STOVE



FlexBurn
Technology



Thermostatically
Controlled Combustion



Top Load
Technology

KEY FEATURES



Timeless cast iron styling with a furniture-quality finish



Convenient top load keeps smoke and ash contained and increases load capacity



Exclusive swing-out ash pan allows you to cleanly remove ashes, even when the stove is hot



Cast iron griddle top offers a versatile cooking surface for the stovetop chef



Catalyst Included

ENCORE FLEXBURN WOOD-BURNING STOVE



FlexBurn
Technology



Thermostatically
Controlled Combustion



Top Load
Technology

KEY FEATURES



Timeless cast iron styling with a furniture-quality finish



Convenient top load keeps smoke and ash contained and increases load capacity



Exclusive swing-out ash pan allows you to cleanly remove ashes, even when the stove is hot



Cast iron griddle top offers a versatile cooking surface for the stovetop chef



Optional Catalytic
Performance Pack available

INTREPID FLEXBURN WOOD-BURNING STOVE



FlexBurn
Technology



Thermostatically
Controlled Combustion



Top Load
Technology

KEY FEATURES



Timeless cast iron styling with a
furniture-quality finish



Convenient top load keeps
smoke and ash contained and
increases load capacity



Exclusive swing-out ash pan
allows you to cleanly remove
ashes, even when the stove is hot



Cast iron griddle top offers a
versatile cooking surface for the
stovetop chef



ASPEN

NON-CATALYTIC WOOD-BURNING STOVE



Thermostatically
Controlled Combustion

KEY FEATURES



Timeless cast iron styling with a furniture-quality finish



Built-in ash pan for trouble-free ash removal



North-south orientation for easy loading



Top plate cooking surface

**WARMING
SHELVES**
with mitten
racks; stylish,
yet practical



MATCHING ENAMEL PIPE



TRANSITION STYLE DOORS
offer cleaner lines and a wider view to add
a contemporary feel to a classic design



VARIABLE SPEED FAN KIT
to better distribute heat in your space



SPARK SCREEN for open door,
fireplace style viewing*



Add moisture to your room with a stylish
enameled **CAST IRON STEAMER**



CAST IRON TRIVET
for stove top cooking



**MAGNETIC STOVE TOP
THERMOMETER** to take any
guesswork out of operating the stove



OUTSIDE AIR ADAPTER



**VERMONT CASTINGS
LEATHER GLOVES**



CAST IRON WOOD BIN



PORTABLE SAFETY SCREEN
allows you to have peace of mind

OPTION & ACCESSORIES

OPTION	DEFIANT FLEXBURN	ENCORE FLEXBURN	INTREPID FLEXBURN	ASPEN
Warming Shelves	•	•	•	
Enamel Finish Pipe ¹	•	•	•	•
Transition Doors	•	•	•	
Variable Speed Fan Kit	•	•		
Spark Screen ²	•	•		
Cast Iron Steamer	•	•	•	•
Cast Iron Trivet	•	•	•	•
Stove Top Thermometer	•	•	•	•
Outside Air Adapter	•	•	Included	•
Leather Gloves	•	•	•	•
Cast Iron Wood Bin	•	•	•	•
Portable Safety Screen	•	•	•	•

STOVE FINISHES



CLASSIC BLACK

AVAILABLE ON:

Defiant FlexBurn

Encore FlexBurn

Intrepid FlexBurn

Aspen



BORDEAUX ENAMEL

AVAILABLE ON:

Defiant FlexBurn

Encore FlexBurn

Intrepid FlexBurn



MAJOLICA BROWN ENAMEL

AVAILABLE ON:

Defiant FlexBurn

Encore FlexBurn

Intrepid FlexBurn



BISCUIT ENAMEL

AVAILABLE ON:

Defiant FlexBurn

Encore FlexBurn

Intrepid FlexBurn



TWILIGHT ENAMEL

AVAILABLE ON:

Defiant FlexBurn

Encore FlexBurn

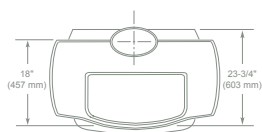
Intrepid FlexBurn

1: Enamel finish pipe not available in Twilight Enamel; 2: Spark screen requires 8-inch pipe on Defiant or Encore

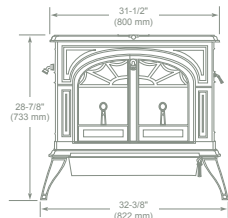
SPECIFICATIONS

DEFIANT FLEXBURN

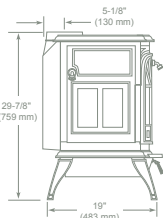
Top



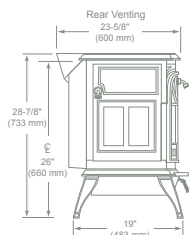
Front



Side - Top Vent

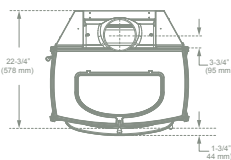


Side - Rear Vent

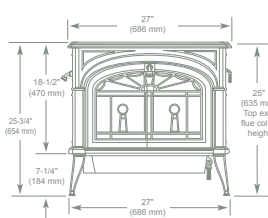


ENCORE FLEXBURN

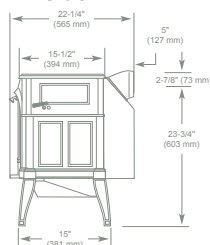
Top



Front

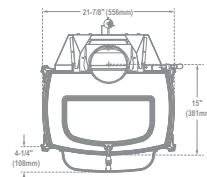


Side

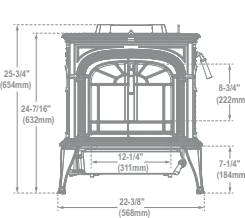


INTREPID FLEXBURN

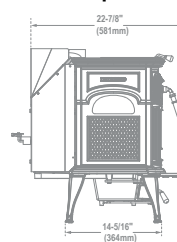
Top



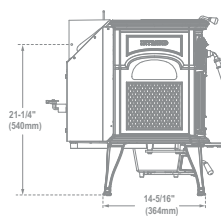
Front



Side - Top Vent

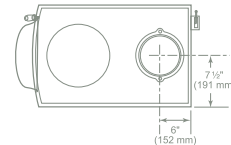


Side - Rear Vent

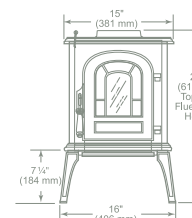


ASPEN

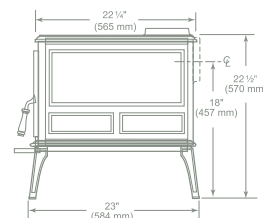
Top



Front



Side



Product Dimensions

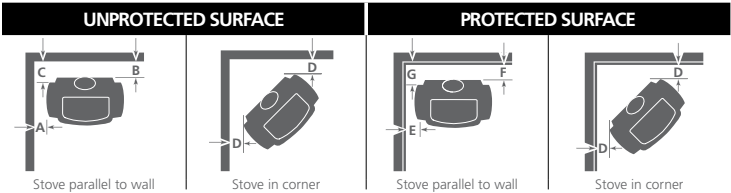
Peak BTU/hr Output¹	56,000	47,000	37,000	27,000
Heating Capacity²	1,300 - 2,800 sq ft	900 - 2,300 sq ft	600 - 1,800 sq ft	400 - 1,200 sq ft
Maximum Burn Time³	14 hrs	12 hrs	8 hrs	5 hrs
Efficiency⁴	80% (Catalytic) 71% (Non-Catalytic)	80% (Catalytic) 73% (Non-Catalytic)	77% (Catalytic) 74% (Non-Catalytic)	75%
Emissions	1.1 g/hr (Catalytic) 2.3 g/hr (Non-Catalytic)	1.1 g/hr (Catalytic) 1.6 g/hr (Non-Catalytic)	0.3 g/hr (Catalytic) 0.6 g/hr (Non-Catalytic)	4.3 g/hr
Firebox Capacity	3.1 cu ft	2.3 cu ft	1.3 cu ft	1.0 cu ft
Recommended Log Length	20"	18"	16"	16"
Actual Weight	518 lbs	471 lbs	348 lbs	240 lbs
Technologies	FlexBurn, Thermostatically Controlled Combustion, Top Load Technology	FlexBurn, Thermostatically Controlled Combustion, Top Load Technology	FlexBurn, Thermostatically Controlled Combustion, Top Load Technology	Thermostatically Controlled Combustion

CLEARANCES

DEFIANT FLEXBURN

Clearances for 6" or 8" connections; single or double wall pipe

	UNPROTECTED SURFACE NO CONNECTOR HEAT SHIELD			PROTECTED SURFACE ¹ WITH CONNECTOR HEAT SHIELD		
	PARALLEL INSTALLATION		CORNER INSTALLATION	PARALLEL INSTALLATION		CORNER INSTALLATION
	Side (A)	Rear ² To rear shroud (B) To back edge of cast (C)	Corner (D)	Side (E)	Rear ² To rear shroud (F) To back edge of cast (G)	Corner (D)
Top exit, single wall connector pipe	21" (521 mm)	15" (381 mm)	21" (521 mm)	5" (127 mm)	3" (76 mm)	5" (127 mm)
Door open with fire screen and damper open (8" chimney only) ²	22" (559 mm)	18" (457 mm)	24" (610 mm)	N/A	N/A	N/A
Top exit, double wall ³ connector pipe	21" (521 mm)	15" (381 mm)	21" (521 mm)	5" (127 mm)	3" (76 mm)	2" (51 mm)
Rear exit	21" (521 mm)	10" (254 mm)	16" (407 mm)	N/A	N/A	N/A

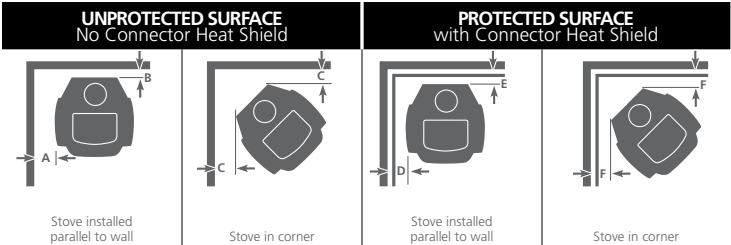


1. Minimum stove top to ceiling clearance is 67" (170 cm).
2. **WARNING:** If stove has been installed based on the clearances described above as "Top exit with single wall or double wall connector pipe," then stove cannot be operated as "Door open with fire screen and damper open" without moving the stove so the clearance meets those described for this type installation.
3. Using a listed double wall oval to round connector.

INTREPID FLEXBURN

Clearances for 6" connections; single or double wall pipe

	UNPROTECTED SURFACE		PROTECTED SURFACE
	PARALLEL INSTALLATION	CORNER INSTALLATION	
	Side (A)	Rear (B) Corner (C)	
Top exit, single wall pipe	15" (381 mm)	12" (305 mm)	6-1/2" (165 mm)
Rear exit ²	15" (381 mm)	13" (330 mm)	N/A
Top exit, double wall pipe ¹	11" (280 mm)	10" (254 mm)	6" (152 mm)

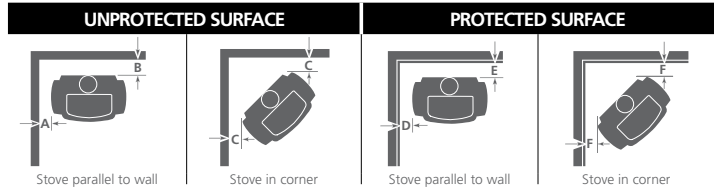


1. Refer to installation manual for alcove installation requirements.
2. Rear exit — horizontal from flue collar directly back through wall.

ENCORE FLEXBURN

Clearances for 6" connections only

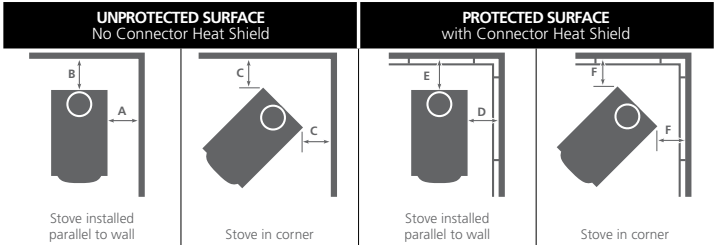
	UNPROTECTED SURFACE NO CONNECTOR HEAT SHIELD			PROTECTED SURFACE ¹ WITH CONNECTOR HEAT SHIELD		
	PARALLEL INSTALLATION	CORNER INSTALLATION		PARALLEL INSTALLATION	CORNER INSTALLATION	
	Side (A)	Rear (B)	Corner (D)	Side (D)	Rear (E)	Corner (F)
Top exit, 8" single wall connector w/o shields, vertical flue collar heat shield	19" (483 mm)	20" (508 mm)	18-1/2" (470 mm)	5" (127 mm)	7" (178 mm)	12" (305 mm)
Rear exit, no flue collar heat shield	22" (559 mm)	12" (305 mm)	N/A	11" (279 mm)	12" (305 mm)	N/A
Top exit, double wall connector pipe, vertical flue collar heat shield installed	18" (457 mm)	7" (178 mm)	12" (305 mm)	4" (102 mm)	5" (127 mm)	5" (127 mm)
Top exit, 6" single wall connector w/o shields, vertical flue collar heat shield	19" (483 mm)	15" (381 mm)	18-1/2" (470 mm)	5" (127 mm)	7" (178 mm)	12" (305 mm)



1. Minimum stove top to ceiling clearance is 58" (147 cm).
2. A ceiling heat shield 24" (610 mm) in diameter and suspended 1" (25 mm) from the ceiling must surround the pipe in installations where chimney penetrates the ceiling.
3. The connector pipe heat shield must extend 36" (914 mm) above flue collar.
4. Using listed double wall oval to round adapter when installing optional 8" oval flue collar.

ASPEN

	UNPROTECTED SURFACE			PROTECTED SURFACE		
	PARALLEL INSTALLATION	CORNER INSTALLATION		PARALLEL INSTALLATION	CORNER INSTALLATION	
	Side (A)	Rear (B)	Corner (C)	Side (D)	Rear (E)	Corner (F)
No heat shields	24" (610 mm)	13" (330 mm)	13" (330 mm)	16" (406 mm)	9" (229 mm)	8" (203 mm)
Top exit, rear heat shield, only ¹	24" (610 mm)	11" (279 mm)	13" (330 mm)	16" (406 mm)	9" (229 mm)	8" (203 mm)
Rear exit, rear heat shield only	24" (610 mm)	11" (279 mm)	N/A	16" (406 mm)	9" (229 mm)	N/A
Top exit, rear heat shield, single wall pipe w/ connector shields ^{1,2}	24" (610 mm)	9" (229 mm)	13" (330 mm)	16" (406 mm)	9" (229 mm)	8" (203 mm)
Top exit, rear heat shield, double wall pipe ^{1,3}	24" (610 mm)	7" (178 mm)	13" (330 mm)	16" (406 mm)	7" (178 mm)	8" (203 mm)



1. Minimum stove top to ceiling clearance is 36" (92 cm).
2. When a rear heat shield is installed on a top exit stove, the shield insert must be attached to the shield so the area behind the flue collar on the stove is protected.
3. Chimney connector heat shields must extend exactly 24" (610 mm) above the top of the stove. No shielding can be used on the connector above 24" (610 mm). The unshielded chimney connector above the 24" (610 mm) point must be 13" (330 mm) from an unprotected wall.
4. In top exit installations, this clearance requires the use of the rear stove heat shield with the flue collar cover plate installed.



VERMONT CASTINGS

vermontcastings.com

LIMITED LIFETIME WARRANTY

The strongest in the industry, Vermont Castings provides a limited lifetime warranty on the most important aspects: firebox and heat exchanger. For full warranty details go to VermontCastings.com.

IMPORTANT - READ BEFORE YOU INSTALL! - Refer to the Owner/Installation Manual for complete clearance requirements and specifications. The images and descriptions in this brochure are provided to assist you in product selection only. Vermont Castings is a registered trademark of Hearth & Home Technologies. Product specifications and pricing subject to change without notice. Fireplace, stove and insert surfaces get extremely HOT and can cause burns if touched. Keep a safe distance away. To learn more visit www.vermontcastings.com/fireplacesafety. ©2016 Hearth & Home Technologies®, All rights reserved

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