PSG

Eco-Energy

at the heart of your home

comfort

and peace of mind

CATALOG

2012 Version

www.psg-distribution.com

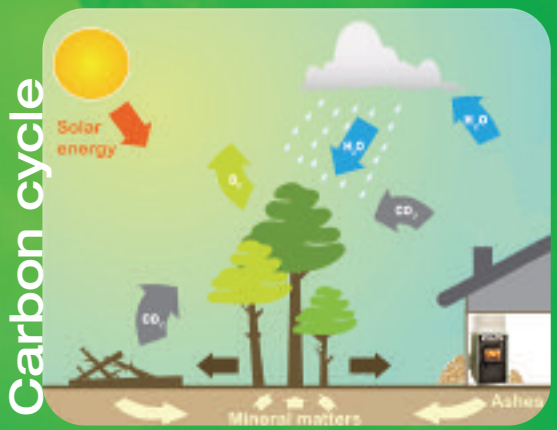
Summary

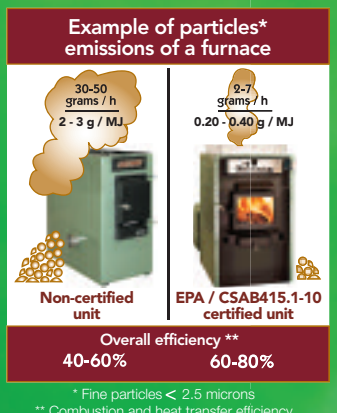
Wood Heating and the Environment

When oil, gas, and coal are burned, the carbon they contain is oxidized to carbon dioxide (CO_2), the main greenhouse gas. In fact, the combustion of fossil fuels releases ancient carbon (carbon that has been buried within the earth for thousands of years), thereby increasing the atmospheric concentration of carbon dioxide (CO_2). In comparison, wood combustion can be considered carbon neutral because trees absorb CO_2 as they grow. This process is called carbon sequestration. Approximately one ton of carbon is sequestered for each cubic meter of wood. When trees mature, die, fall in the forest and decompose, the same amount of carbon is emitted as would be released if they were burned for heat. This cycle can be repeated forever without increasing atmospheric carbon. A healthy forest is not a museum, but a living community of plants and animals. When trees are used for energy, a part of the forests carbon "bank" is diverted from the natural decay and forest cycle into our homes to heat them. When we heat with wood, we are simply tapping into the natural carbon cycle in which CO_2 flows from the atmosphere to the forest and back. The key to ecologically sound and sustainable wood energy use is to ensure that the forest remains healthy, maintains a stable level of variously aged trees and provides a good habitat for a diversity of other species, both plants and animals. Ensuring there is a healthy fuelwood market is key to a sustainable forestry plan. Landowners have more incentive to remove low value trees and manage their forests sustainably knowing there is a market for this low value material.

The combustion of wood produces small particles that are called PM2.5. Those particles are 30 times smaller than a human hair. They can aggravate certain lung and heart diseases and have been linked with health problems such as asthma. Sources of PM2.5 include combustion under various forms, such as the one used for cars and trucks, wood heating, as well are other industrial processes. While it is true that old technology like open fireplaces and simple heaters could not burn the wood completely, the new generation of wood-burning appliances are designed to burn particles. They produce almost no visible smoke. The wood-heating industry has evolved. The vast majority of appliances sold on the market now meet the particles emissions limits set by the US Environmental Protection Agency as well as the Canadian standard CSA B415.1. For example, the Environmental Protection Agency, better known as EPA, limits emissions of certified wood heating appliances to no more than 7.5 grams per hour. In comparison, older conventional wood appliances average 40 grams per hour. Numerous countries, provinces and municipalities, have adopted laws that regulate the sale of wood-heating appliances that do not meet the latest standards in terms of particles emissions. Among them, we can name the United States, Australia, New Zealand, as well as numerous countries that are part of the European Union. In Canada, British Columbia, Quebec, Nova Scotia, and Newfoundland have also introduced laws regulating the sale of wood-heating appliances.

Wood, when burned in an appliance that has been tested to the EPA or CSAB415.1 standards, emits up to 90% less particles. It is a clean, renewable energy source. Furthermore, the reduction in fuelwood consumption reaches up to 33% when advanced wood combustion systems are used. This is because certified wood appliances are 60% to 80% efficient, compared with 40% to 60% for conventional units. As for appliances burning wood pellets, they have amongst the lowest particulate emissions of all solid-fuel burning appliances. They are manufactured from waste products and other renewable resources right here in North America. They represent a huge source of heating fuel from material that would otherwise be sent to landfills.





* Fine particles < 2.5 microns
** Combustion and heat transfer efficiency

Why choose a PSG furnace?

Flexibility

PSG is synonymous with flexibility. Our furnaces are designed to provide wood or pellet central heating with the added option of an **electric element** or **oil unit**, which automatically comes on if the furnace runs out of wood or pellets. What's more, all PSG furnaces are controlled by a wall thermostat that gives you the exact comfort level you want for your home and all the protection you need from winter's icy blasts! Whether you're there or not to add fuel, you'll enjoy comfortable central heating **without interruption**. And you'll never again be dependent on a single source of energy to guarantee the comfort and safety of your family.

Design

Not all furnaces are created equal. Compare and you'll see the advantages in owning a PSG furnace.

Compact combination models: there's much more to the concept behind our combination furnace than joining together two furnaces that use different energy sources. You know how important it is to **maximize the usable space** in your home. So if you choose the electrical or oil option to go with wood or pellets, your PSG furnace will not require any additional space. That's because the electric element or oil unit is fully integrated into the furnace, beneath the combustion chamber.

A furnace designed to last: the combustion chamber in your PSG furnace is entirely lined with heat-resistant bricks, giving it exceptional durability. And the steel it uses is 3/16 inch thick, which is your best guarantee for many years of use. The outer walls are treated with a special zinc-base coating to provide long-term rust protection. You can thus install your furnace with full peace of mind in a basement or any other place where the humidity level may be higher.

Easy maintenance: PSG has made furnace cleaning easier than ever before. Our furnaces come with a practical 16-inch long ash drawer that allows a large quantity of ashes to accumulate before they have to be removed.

Performance

No-one today considers using wood or pellets as a heating source without first looking at its energy efficiency and environmental impact. PSG furnaces are built with these concerns squarely in mind. The hot gases and smoke wind their way through a fire screen and out the chimney. The result is superb efficiency and a significant reduction of polluting emissions and creosote deposits in the chimney. Thanks to its ingenious design, your PSG furnace will heat your home over the entire night with a single load of wood.†

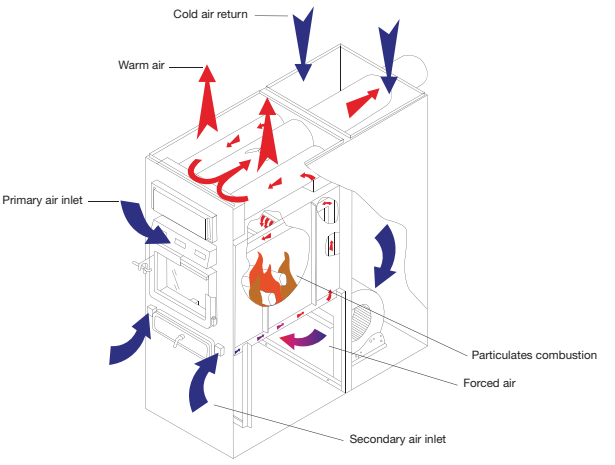
Multiple uses

Whatever your needs – residential or light commercial – there's the right PSG furnace for you.

Eco-Friendly

The Caddy series EPA wood furnaces have a secondary air source. The air is pre-heated before it is injected through the perforated stainless steel air tubes located underneath the firebox baffle. This creates a second combustion of particles emissions before they are released into the atmosphere. Thus you burn less wood and help the environment.

In addition, pellet furnaces burn very cleanly and offer the lowest emissions of unwanted pollutants of all solid fuel burning appliances.



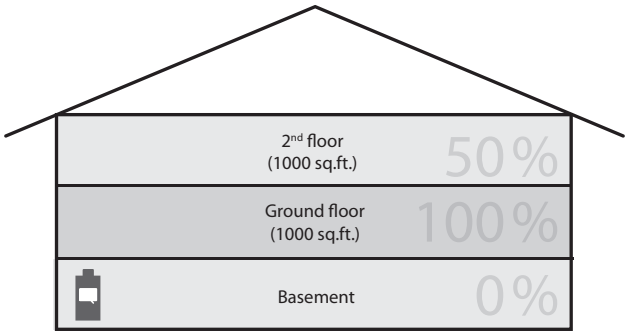
† May vary subject to location in home, chimney draft, chimney diameter, locality, heat loss factors, climate, and fuels.

Guidelines to choose your furnace

Estimate of the area to heat

Wood Pellet

Assuming that the furnace is located in the basement, take 100 % of the ground floor surface and add 50 % of the 2nd floor. For instance, a home with a ground floor and second floor each having a surface of 1,000 square feet will require a furnace capable of heating a minimum area of 1,500 square feet: 1,000 sq.ft. + (1,000 sq.ft. x 50 %) = 1,500 sq.ft. **Please note that his estimate does not replace the detailed calculation performed by a heating specialist which takes into account the volume of air moved, the required BTU and the heat loss.**

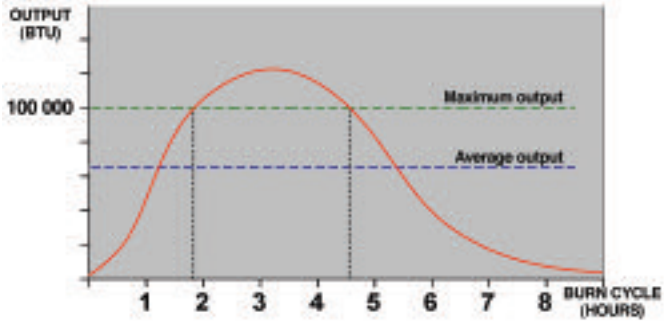


Combustible	Wood			Pellet
Area to heat*	Mini-Caddy	Caddy	Max-Caddy	Caddy Alterna
600 to 800 square feet	x			x
800 to 1,000 square feet	x	x		x
1000 to 1,500 square feet		x		x
1,500 to 1,700 square feet		x	x	x
1,700 to 3,000 square feet			x	x

*Note:

Each home is unique and may require an appliance with a higher or lower heat output. Numerous factors may influence the size and type of model required. Those factors include, but are not limited to: overall insulation of walls and windows, ceiling height, the number of windows, exposition to wind, geographical area (climate), and the temperature comfort zone required by the occupants of the house. It is highly recommended that you consult a heating specialist for both the selection of your furnace and its installation. The heating specialist's judgment is required. The user must also take into consideration that a wood appliance is rarely used at a continuous output level. The maximum heat output is reached during approximately 30 % of a regular combustion cycle.

Wood furnace



The Caddy Series: a complete range of furnaces

EPA Wood or Pellet Furnaces

The Caddy series furnaces are designed to provide you with a wood or pellet central heating with the added option of an **electric element** or **oil unit**. If you are looking for the latest in central heating, to be installed as either primary furnace or in order to heat with wood using your existing heat distribution system, the Caddy Series is the ideal choice.

These furnaces also meet the most stringent combustion standards in North America, namely those of the Environmental Protection Agency **(EPA)** which provides a reduction in particles emissions of up to 90%. But, these appliances are not only the cleanest products ever produced by PSG. They are also the most efficient furnaces which provides up to 30% savings in heating wood. You'll see why when you contemplate the fire through the **glass door** of your Caddy Series furnace!

EPA Add-on wood furnaces

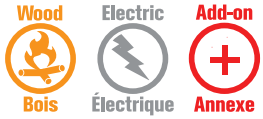
If you already have a forced air central heating system that uses **oil, gas, or electricity** and you want the flexibility of using wood with it, the PSG EPA Add-on furnaces are the ideal choice. These units, which can be installed on the left or right side of your existing system, shares the existing furnace's controls and fan, giving you a fully harmonized wood/oil, wood/gas, or wood/electric combination system.

Wood

Pellet

EPA wood and combination furnace

mini-caddy



Making the most of your space

The Mini-Caddy as its name suggests, is the miniature version of the Caddy. It is specially designed for the smallest spaces, and is thus ideal for small homes, cottages and small commercial buildings. This high-efficiency furnace uses the same combustion technology as the Caddy, and thus guarantees the same exceptional cleanliness and combustion time.

A hot air distribution system that's simplicity itself

The Mini-Caddy has a unique hot air distribution system that allows immediate start-up in eight different directions using 5" round outlets. The system is also designed to work with a standard 12" x 12" hot air plenum.

Add style to any room!

With its avant-garde style and round plenum linked to a distribution duct that can be easily concealed under a ceiling, the Mini-Caddy lends its elegance to any room. So there's no need for an enclosed space to hide your furnace! The Mini-Caddy combines all the advantages of a furnace with the graceful beauty of a wood stove.

The PSG distribution box also includes a cold air return adaptor to receive up to eight 5" round inlets.

Technical data

furnace and components	MINI-CADDY
Fuel	wood
Maximum input capacity	75,000 BTU (21.6 kW)
Maximum output capacity	63,750 BTU (18.7 kW)
Average output capacity	41,440 BTU (12.2 kW)
Thermostatically controlled	yes
Optimum efficiency	84% (LHV) / 78% (HHV)
Average emissions	6 grams / hour or 0,275 g/MJ
Loading capacity	up to 30 pounds (14 kg)
Flue spigot diameter	6" (152 mm)
Recommended exhaust pipe diameter	6" (152 mm)
Type of chimney required	2100°F (1150°C)
Recommended chimney diameter	6" (152 mm)
Furnace exterior dimensions	23 3/4"W x 29 1/8"D x 45 5/8"H
Firebox dimensions	14"W x 19 3/8"D x 12"H
Door opening dimensions	13 1/2"W x 9 5/8"H
Door type	glass with cast iron frame
Cold air plenum dimensions	12" x 12" OR 12" round using the PSG distribution box
Ash pan dimensions	11 3/4"W x 12"D x 2 5/8"H
Steel thickness (firebox)	3/16" (5 mm)
Minimum clearance (front)	48"
Minimum clearance (rear)	24" recommended for maintenance
Minimum clearance (sides)	24" recommended for maintenance
Minimum clearance (ducts)	3" for the first 6 feet and 1" thereafter
Recommended service clearance	24"
Weight	416 lb (189 kg)
Color	Black
Warranty	Limited lifetime warranty
Safety tests standard	Can CSA B366.1-M91, CSA C22.2 No. 236, UL 1995, UL391 3e Ed. rev. 1999
Emissions / Efficiency - test standard	EPA / CSA B415.1
Maximum log length	18"

Optional blower kit

	MINI-CADDY
Number of filters	1
Filters dimensions	15"W x 20"D x 1"H
Blower	1/4 HP Direct drive Four speed
Hot air plenum dimensions	22 3/8"W x 13 5/8"D OR adapter plate with eight 5" outlets (supplied with the PSG distribution box)
Weight	46 lb (21 kg)
Color	Black

Optional electric elements

	MINI-CADDY
Output - recommended electric element	11.25 kW
Output - other optional electric elements	N/A
Element location	left
Recommended service clearance (element)	24"

Add-on Furnace

	MINI-CADDY
Existing furnace	fuel oil, gas, electric
Recommended chimney diameter	7"
Connection with existing furnace	left or right
Air inlet duct dimensions	14,5"H x 22"W
Minimum clearance (sides)	6"

EPA wood and combination furnace

caddy

Intertek Intertek

add-on wood

wood/oil

Optional fresh air intake adapter

The fuel oil system's combustion chamber simply slides underneath the firebox

The optional insulated vestibule guarantees a quiet performance.

Optional top cold air plenum

wood only

Optional Blower Box

wood/electric

Optional electric element

Wood Bois | Electric Électrique | Oil Huile | Add-on Annexe

THIS APPLIANCE IS TESTED TO CSA B415.1-00

This appliance is EPA approved

The Cadillac of furnaces!

The Caddy furnace comes with the same dimensions and basic features as its cousin, the PSG 3000. But its highly advanced combustion technology sets it apart from all others. The Caddy is specifically designed to meet the highest combustion standards in North America today, those of the Environmental Protection Agency **(EPA)**. As such, it is one of the cleanest and most efficient furnaces ever produced by PSG, with savings in heating wood of up to 30% and reductions in particles emissions reaching 90%. One look at the fire through the **glass door** of the Caddy and you'll see why!

The heat exchangers clean-up is quickly and easily done through an access trap located at the front of the furnace.

Optional electric element: 15 kW, 18 kW ou 20 kW

Optional top cold air plenum

Optional fresh air intake adapter

Novoclimat

A unique heat exchanger system

The Caddy provides exceptional efficiency because of its unique **heat exchanger system**. The cylinder-shaped smoke ducts inside the furnace serve as its heat exchangers and ensure rapid heat transfer because of their ideal diameter and thickness. Hot gases wind their way around the baffle in the combustion chamber and then into the exchangers above it before reaching the main smoke pipe. The heat, which normally dissipates directly into the chimney, instead circulates inside the furnace. The furnace's powerful fan then extracts and pushes all this heat into your heating ducts in uniform fashion throughout the house.

Carefree cleaning

Forget the complicated cleaning that requires you to disconnect and move your furnace! The Caddy has a fully accessible **trap door** right in front of the furnace, from where you can directly clean the heat exchangers and smoke pipe. All you have to do is brush the combustion residue into the combustion chamber and then collect it using the ash drawer.

Technical data

furnace and components	CADDY
Fuel	wood
Maximum input capacity	140,000 BTU (41 kW)
Maximum output capacity	106,400 BTU (31.2 kW)
Average output capacity	69,160 BTU (20.3 kW)
Thermostatically controlled	yes
Optimum efficiency	76% (LHV) / 71% (HHV)
Average emissions	6.6 grams / hour or 0,229 g/MJ
Loading capacity	up to 55 lb (25 kg)
Flue spigot diameter	6"
Recommended exhaust pipe diameter	6" if installed as wood or wood-electric combination 7" if installed as wood-oil combination
Type of chimney required	2100°F (1150°C)
Recommended chimney diameter	6" if installed as wood or wood-electric combination 7" if installed as wood-oil combination
Furnace exterior dimensions	26"W x 29,875"D x 47,875"H
Firebox dimensions	17"W x 22,5"D x 16"H
Door opening dimensions	13,75"W x 10"H
Door type	glass with cast iron frame
Hot air plenum dimensions	24,562"W x 28,75"D
Ash pan dimensions	12"W x 16"D x 3"H
Steel thickness (firebox)	3/16"
Minimum clearance (front)	48"
Minimum clearance (rear)	24" recommended for servicing
Minimum clearance (sides)	24" recommended for servicing
Minimum clearance (ducts)	6" for the first 6 feet and 1" thereafter
Recommended service clearance	24"
Weight	510 lb (231 kg)
Color	green
Warranty	Limited lifetime warranty
Safety tests standard	Can CSA B366.1-M91, CSAB212-93, UL391 3e, Ed. rev. 1999
Emissions / Efficiency - test standard	EPA / CSA B415.1
Maximum log length	22"

Add-on Furnace

	CADDY
Existing furnace	fuel oil, gas, electric
Recommended chimney diameter	7"
Connection with existing furnace	left or right
Air inlet duct dimensions	14,5"H x 22"W
Minimum clearance (sides)	6"

Optional blower kit

	CADDY
Blower	1/3 HP Direct drive Four speed, 1300 cfm
Number of filters	1
Filters dimensions	14"W x 25"D x 1"H
Cold air plenum dimensions	24,5"W x 15,75"D
Weight	80 lb (36 kg)
Color	green

Optional fresh air intake adapter

	CADDY
Connection location	left or right
Connecting pipe diameter	5"

Optional fuel oil burner

	CADDY
Input capacity	91,000 BTU (27 kW)
Burner orifice	0,65 gal/hr.* (2,46 l/hr.)
Pomp pressure	120 PSI
Standard burner	Beckett AFG
Other approved burners	Riello, Aero
Efficiency	82%
Burner location	right
Recommended service clearance (burner)	24"
Optional insulated vestibule for burner	yes
Recommended exhaust pipe diameter	5"
Exhaust pipe location	left

Optional electric elements

	CADDY
Output - recommended electric element	18 kW
Output - other optional electric elements	15, 20 kW
Element location	left
Recommended service clearance (element)	24"

Top cold air plenum option

	CADDY
Plenum dimensions	24 3/4" W x 15 3/4" D

* US Gallon (1 US Gallon = 0,83 Imperial Gallon)

CSA B415.1-10
wood-oil-electric trio furnace
caddy series

max caddy

THIS APPLIANCE IS TESTED TO CSA B415.1-10

The oil exhaust pipe can be located on the right or left side of the furnace

Wood / Bois

Electric / Électrique

Oil / Huile

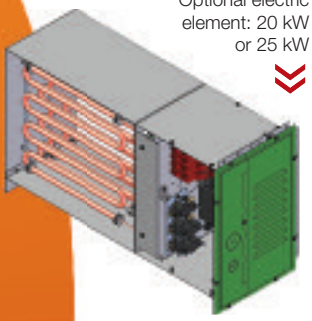
PC board

The Max Caddy is the first furnace in the world which can be installed as a wood-oil-electric trio. As opposed to all conventional wood furnaces, the Max Caddy uses a PC board that allows the user to connect all four blower speeds. In other words, it is an intelligent furnace. With the logic built into our PC board, the furnace automatically selects the most appropriate blower speed in order to maintain the furnace's plenum temperature at its best efficiency point. This allows the homeowner to obtain heat even at the tail end of the combustion cycle because the furnace has the flexibility to run with the lowest blower speed available. This would simply not be possible with a conventional wood furnace.

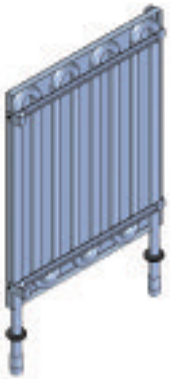
This exclusive Max Caddy feature not only results in better comfort, but it also extends the unit's cycling intervals, leading to substantial fuel economies.

The Max Caddy can be installed as a wood-only unit, a wood-electric combo, a wood-oil combo, or a wood-oil-electric trio! Furthermore, this environmentally friendly furnace is designed to allow the installation of an electric element or an oil burner on either sides of the furnace, making the installation and maintenance more flexible.

Other options such as a hot water loop kit to pre-heat domestic water, a fresh air intake adapter, and a top cold air plenum kit makes it one of the most versatile and ingenuous central heating systems on the market.



Optional electric element: 20 kW or 25 kW



Optional hot water loop kit to pre-heat domestic water

Optional fresh air intake adapter

Optional Beckett oil burner

Technical data

furnace and components	MAX CADDY
Fuel	wood
Maximum input capacity	180,000 BTU (53 kW)
Maximum output capacity	137,970 BTU (41 kW)
Average output capacity	89,680 BTU (27 kW)
Thermostatically controlled	yes
Optimum efficiency	85% (LHV) / 78.9% (HHV)
Average emissions	5.9 grams / hour or 0,316 g/MJ
Loading capacity	up to 90 lb (41 kg)
Flue spigot diameter	6"
Recommended exhaust pipe diameter	6" if installed as wood or wood-electric combination 7" if installed as wood-oil combination
Type of chimney required	2100°F (1150°C)
Recommended chimney diameter	6" if installed as wood or wood-electric combination 7" if installed as wood-oil combination
Furnace exterior dimensions	30"W x 62"D x 50"H
Firebox dimensions	20 3/8"W x 26 1/4"D x 14 1/2"H
Door opening dimensions	15 11/16"W x 10"H
Door type	glass with cast iron frame
Hot air plenum dimensions	25 7/16"W x 32 1/8"D
Cold air plenum dimensions	19 15/16"W x 17 15/16"D
Ash pan dimensions	12"W x 19 5/8"D x 2 5/8"H
Number of filters	1
Filters dimensions	16"W x 20"D x 1"H
Blower	G-10 blower with 1/2 hp motor 1780 CFM (maximum at 0.20" WC) - 4 speeds
Steel thickness (firebox)	3/16"
Minimum clearance (front)	48"
Minimum clearance (rear)	24"
Minimum clearance (sides)	6" (wood only) and 24" on the option side
Minimum clearance (ducts)	6" for the first 6' with a shield at 1 1/2", and 1" thereafter
Recommended service clearance	24"
Weight	650 lb (295 kg)
Color	green
Warranty	Limited lifetime warranty
Safety tests standard	Can CSA B366.1, UL 391, CAN/CSA C22.2 no 236, UL 1995, CSA B140.4, UL 727
Emissions / Efficiency - test standard	CSAB415.1-10
Maximum log length	25"

Top cold air plenum option

	MAX CADDY
Plenum dimensions	19 15/16" W x 17 15/16" D

Optional electric element

	MAX CADDY
Output - Recommended element	20 kW / 68,000 BTU
Output - Other optional elements	25 kW / 85,000 BTU
Element location	left or right

Optional oil burner

	MAX CADDY
Input #1	91,000 BTU
Input #2	120,000 BTU
Burner orifice at input #1	0,65 70°W (Beckett) / 0,50 70°W (Riello)
Burner orifice at input #2	0,65 70°W (Beckett) / 0,65 70°W (Riello)
Pump pressure at input #1	100 PSI (Beckett) / 150 PSI (Riello)
Pump pressure at input #2	175 PSI (Beckett) / 165 PSI (Riello)
Efficiency at input #1	Beckett (85%) / Riello (87%)
Efficiency at input #2	Beckett (83%) / Riello (85%)
Standard burner	Beckett
Burner location	left or right
Optional insulated vestibule	no
Recommended exhaust pipe diameter	5"
Exhaust pipe location	left or right

Optional hot water loop kit to pre-heat domestic water

	MAX CADDY
Connection location	left or right
Connecting pipe diameter	3/4"
Back-up tank volume	60 gallons (227 liters)

Optional fresh air intake adapter

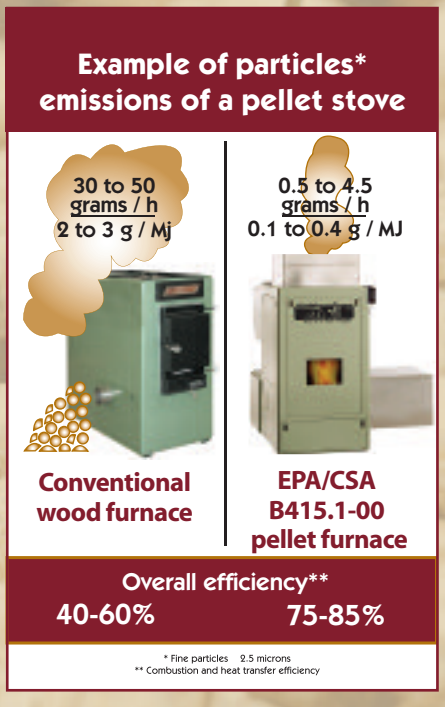
	MAX CADDY
Connection location	left or right
Connecting pipe diameter	5"

About pellet heating

Pellet stoves offer a dramatic improvement in the convenience of heating with solid fuel. Wood pellets are handled in bags and are therefore easily and cleanly stored. A single loading of a pellet furnace can provide long hours of warmth. Pellet furnaces also provide a special comfort associated with wood burning. The combination of fans delivering warm air currents and the direct comfort of radiant heat provides special satisfaction on a cold winter day. The heat provided is even and constant, due to the auto fuel feed responding to owner settings. Pellet furnaces also offer strong environmental benefits; pellets not only reduce dependence on finite supplies of fossil fuels like oil and gas, but they also put to good use materials that would otherwise unnecessarily and expensively add to our waste disposal problems.

Top 10 reasons for buying a pellet furnace

- Fuel is relatively cheap, easy to handle and store
- Installation is relatively inexpensive and flexible
- Can be thermostatically controlled
- Can run for long hours without the need to refuel
- Heat output is steady because fuel feed is regulated
- Provides powerful convection heat
- Has the lowest emissions of all solid fuels
- Reduces our dependence on fossil fuels
- Pellets are a renewable fuel
- Wood pellets are made of 100% residual matter (saw dust).This creates added-value from waste that would otherwise end up in a landfill.



EPA High-tech pellet furnace

caddy series

This appliance is EPA ≤4.5 g/h & Washington State Approved

THIS APPLIANCE IS TESTED TO CSA B415.1-00

Pellet Granules

Electric Électrique

PC board

LCD touch-screen

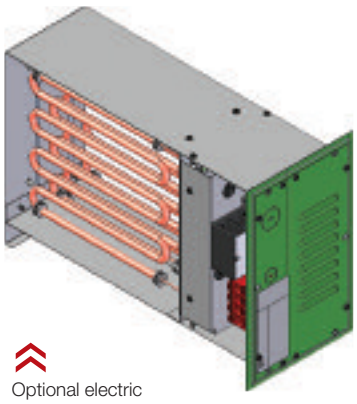
The Caddy Alterna is a 120,000 BTU warm-air pellet furnace. With its 240-pound hopper capacity and its efficiency topping the 81% mark, it is the perfect heating device for the coldest North American winters. Its state-of-the-art LCD control panel lets you configure the furnace rapidly and easily. The bottom-feed burner system has been tested with four different types of pellets: standard wood pellets, 100% bark pellets, sawdust/hay mix pellets, and switch grass pellets. This flexibility in fuel selection will allow you to keep more money in your pocket and avoid potential fuel shortages.

But versatility does not end there. The Caddy Alterna can accept an optional electric element that can be installed on either side of the furnace. What's more, the maximum BTU on the Caddy Alterna may be adjusted by the homeowner or installer. Indeed, the PC board allows three additional input configurations: 60,000 BTU, 80,000 BTU, and 100,000 BTU. For smaller homes, this input selection flexibility will result in extended cycling intervals and will lead to fuel economies. In terms of heating capacity, homeowners must also realize the benefits of the regulated feed rate provided by a pellet furnace like the Caddy Alterna. As long as there is fuel in the hopper and thermostatic demand, the Caddy Alterna will consistently produce the desired maximum heat output. No wonder it can heat up to 3,000 square feet!

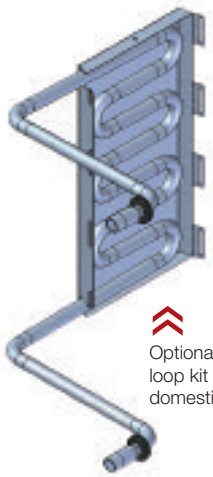
Technical data

furnace and components	CADDY ALTERNA
Fuel	wood pellets and biomass pellets*
Maximum input capacity	120,000 BTU (36 kW)
Maximum output capacity	108,000 BTU (32 kW)
Minimum input capacity	18,000 BTU (6 kW)
Minimum output capacity	16,000 BTU (5 kW)
Optimum efficiency	81 %
Average emissions	4.2 grams/hour
Blower	G-10 blower with 1/2 hp motor - 1650 CFM (max 0.20" WC) - 4 speeds
Ignition type	electronic
Temperature control	thermostatic
Loading capacity	240 lb (109 kg)
Combustion autonomy on minimum	100 hours (pilot mode)
Combustion autonomy on maximum	17 hours
Average combustion autonomy	30 to 50 hours (thermostatic cycling at 120,000 BTU)
Door type	glass with cast iron frame
Color	green
Exterior dimensions	26 1/4"W x 56 1/4"D x 47"H
Required exhaust pipe diameter	4"
Exaust pipe type	Pellet vent approved per UL-641 / ULC S-609-M89
Hot air plenum dimensions	22"W x 22"D
Cold air plenum dimensions	16 1/8"W x 21 5/16"D
Ash drawer dimensions	20"W x 14"D x 7 3/4"H
Number of filters	1
Filters dimensions	16" x 20"
Minimum clearance (front)	48"
Minimum clearance (back)	24"
Minimum clearance (sides)	4" (pellet only) and 24" on the option side
Minimum clearance (ducts)	2" for the first 5', and 0" thereafter
Weight	500 lb (227 kg)
Warranty	Limited lifetime warranty
Test standard - Safety	CAN/CSA B366.1, UL 391, CAN/CSA C22.2 no 236 UL 1995, ASTM E1509, ULC/ORD-C1482
Emissions / Efficiency - test standard	EPA / CSA B415.1

* Standard wood pellets, sawdust / hay mix pellets, 100 % bark pellets, switch grass pellets.



Optional electric element: 15 kW or 20 kW



Optional hot water loop kit to pre-heat domestic water

Optional fresh air intake adapter

Optional electric element

	CADDY ALTERNA
Output - recommended electric element	15 kW or 20 kW
Element location	left or right

Optional fresh air intake adapter

	CADDY ALTERNA
Connection location	left or right
Connecting pipe diameter	5"

Optional hot water loop kit to pre-heat domestic water

	CADDY ALTERNA
Connection location	left or right
Connecting pipe diameter	3/4"
Back-up tank volume	60 gallons (227 liters)

Novoclimat

QUICK-START IGNITION

New option

Ideal heating for small commercial applications

The Caddy Alterna furnace can be an ideal heating alternative for small commercial applications, such as greenhouses and warehouses. These buildings are often heated with propane or oil. The conversion to wood pellets will give you real savings! In addition, with an optional electric element, the Caddy Alterna will prove a reliable heating source in case the reserve runs out of pellets.

Caddy Alterna at McGill University

PSG has recently collaborated with McGill Univeristy's Faculty of Agricultural & Environmental Sciences (Department of Bioresource Engineering) by installing a Caddy Alterna pellet furnace in their experimental greenhouse located on the Macdonald Campus. The clean, powerful, and efficient Caddy Alterna will allow students to pursue research projects all year round by replacing an expensive fossil fuel heating system.

PSG Eco-Energy
at the heart of your home

250, rue de Copenhague
St-Augustin-de-Desmaures
Quebec (Canada) G3A 2H3
Telephone : 418 878-3078
Fax : 418 878-3001

www.psg-distribution.com

Authorized dealer

FSC www.fsc.org
MIX
Paper from responsible sources
FSC® C102998

PUB046A

7 7 3 3 8 8 9 9 5 1 9 9

11-2012