

Discover the economical and flexible heating alternatives



through the **Caddy** series wood
and pellet furnaces *by PSG*.

NEW

See page 14





Eco-energy at the hearth of your home

TABLE OF CONTENTS

THE CADDY SERIES FURNACES OFFERS	2
WHY CHOOSE A PSG FURNACE?	3
WOOD HEATING AND THE ENVIRONMENT	4
ABOUT PELLET HEATING	5
PRODUCTS SECTION	
MINI-CADDY	6
CADDY	8
MAX CADDY	10
CADDY ALTERNA II	12
STORAGE TANK WITH PNEUMATIC SELF-FEEDING PELLET SYSTEM	14

The Caddy series furnaces offers



ECONOMY



The Caddy series furnaces features advanced wood combustion, thus easily reaching up to a 30% reduction in fuel wood used. EPA certified or CSA B415.1-10 tested wood furnaces are 80% to 90% efficient, compared with 40% to 60% for conventional units.

COMFORT



All of the Caddy series 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 or not you are present, your home will be comfortable without interruption.

FLEXIBILITY



With the Caddy series furnaces you will never again be dependent on a single source of energy to guarantee the comfort and safety of your family. Depending on the model, you can add an electric element, an oil unit or use it as a wood add-on to an existing furnace.

DURABILITY



Even if you live in an area where moisture may be high, you can still install a PSG furnace. The 3/16" thick steel outer walls are protected with a special rust inhibitor, giving the furnace long lasting durability.

SUSTAINABLE DEVELOPMENT



All of the Caddy series furnaces meet the particles emissions limits set by the US Environmental Protection Agency, better known as EPA, or the Canadian standard CSA B415.1-10.

Why choose a PSG furnace?

To make sure your PSG furnace provides comfort and energy saving for many years, your choice of installer is extremely important. An authorized PSG dealer will ensure that the system is optimized to deliver its full potential and installed according to Standards. The customer making the wise choice to do business with a PSG authorized dealer will benefit from the privilege warranty, in addition to enjoy a professional and hassle free installation service.

CHOOSE YOUR FURNACE

It is important to choose a furnace perfectly suited to the size of your residence. An overly powerful furnace will cycle too much, which will favor poor combustion. Too small a furnace will heat at high level over long periods of time in order to satisfy the thermostat call for heat, which can damage the furnace's components prematurely. In all cases, a furnace that is poorly adapted to the size of your home will reduce performance. A detailed calculation done by a heating specialist is recommended.

REGISTER YOUR WARRANTY

Registering your warranty makes it easier for us to quickly find the information we need about your furnace. www.caddyfurnaces.com

PRIVILEGE WARRANTY

Smart consumers who do business with an authorized PSG dealer benefit from the privilege warranty as well as professional and hassle-free installation service.

STANDARD WARRANTY

If you purchase a PSG Caddy series furnace from a non-authorized dealer or opt to install it yourself, PSG will provide the standard warranty only.

LEGEND



Can be installed as a wood-only unit. Blower box and fan limit kit required for this configuration.



Can be installed as a wood+electric combo unit to ensure your central heating keeps running even when you're not there to add more firewood. Electric element (fan limit kit included) required for this configuration.



Can be installed as a wood+oil combo to ensure your central heating keeps running even when you're not there to add more firewood. Oil burner unit and blocked vent switch required for this configuration.



Can be installed as a wood+oil+electric trio combination for fuel flexibility. The addition of an electric element, oil unit and blocked vent switch is required for this configuration.



Can be installed with an oil, gas, or electric central heating system using the existing heat distribution system. Uses the same controls and fan as the existing furnace; giving a fully compatible wood+oil, wood+gas, or wood+electric combo system.



Can be installed as a wood pellet* only unit.
*Premium grade or better



Can be installed as a wood pellet+electric combo unit to avoid interruption of your central heating when you are not available to feed the pellets*. The addition of an electric element is required for this type of installation.

Wood heating and the environment

Example of particles* emissions of a wood furnace	
	
CONVENTIONAL WOOD FURNACE	EPA/CSA B415.1-10 CERTIFIED FURNACE
30 to 50 grams / hour 2 to 3 g / MJ	2 to 2.5 grams / hour 0.1 to 0.25 g / MJ
OVERALL EFFICIENCY**	
40-60 %	60-80 %

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

When oil, gas, and coal are burned, the carbon they contain is oxidized to carbon dioxide (CO₂), the main greenhouse gas. In effect, 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 (CO₂). In comparison, wood combustion can be considered carbon neutral because trees absorb CO₂ 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 CO₂ 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.

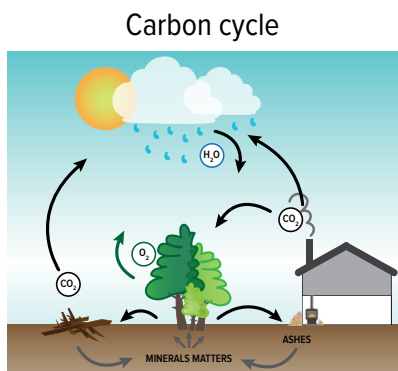
The combustion of wood produces small particles that are called PM2.5. Those particles are 30 times smaller than a human hair. They can aggravate certain lung and heart diseases and have been linked with health problems such as asthma. Sources of PM2.5 include combustion under various forms, such as the one used for cars and trucks, wood

heating, as well as other industrial processes. While it is true that old technology like wood furnaces 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 B415.1-10. For example, the Environmental Protection Agency, better known as EPA, limits emissions of certified wood

heating appliances to no more than 4.5 grams per hour. In comparison, older conventional wood furnaces 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, New Brunswick, and Newfoundland have also introduced

laws regulating the sale of wood-heating appliances.

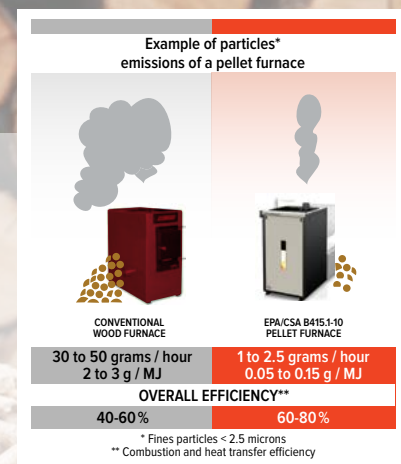
Wood, when burned in an appliance that has been tested to the EPA or CSA B415.1-10 standards, emits up to 80% less particles. It is a clean, renewable energy source. Furthermore, the reduction in fuelwood consumption reaches up to 30% when advanced wood combustion systems are used. This is because certified wood furnaces are 80% to 90% 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.



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 stove can provide long hours of warmth. Pellet stoves 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 stoves 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.

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



TOP 10 REASONS FOR BUYING A PELLET STOVE

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



MINI-CADDY

PF01302



WOOD			
Heating area ^(*)	Size	Log length	Average particulate emissions rate ^{(1) (11)}
500 - 1,500 Ft ²	29 7/8" W X 31 1/8" D X 46 1/2" H	20"	0.841 lb/mmBTU (0.362 g/MJ)



REQUIRED ACCESSORIES

A -

- Blower assembly
PA08521 (1)

B -

- Blower assembly
PA08521 (1)
- 11.25 kW electrical element
PA08005 (2)

OPTIONS

- Top air return plenum kit
PA08508 (3)

A STAR IS REBORN

The newly redesigned Mini-Caddy combines PSG's renowned clean-burning combustion technology with leading edge electronics to deliver outstanding efficiency and operational convenience. This compact furnace is the perfect choice for smaller homes and cottages.

ENHANCING THE USER EXPERIENCE

The Mini-Caddy offers all the charm and advantages of a conventional wood stove—plus newly enhanced electronics and design features for even greater ease of use. Blower speed and plenum temperature are now automatically managed by an integrated PC board and RTD probe, boosting user comfort and optimizing efficiency for fuel savings of up to 30%. And the intuitive touch-screen LCD makes input and output control a breeze.

MORE INSTALLATION FLEXIBILITY THAN EVER

Not only is the redesigned Mini-Caddy a delight to use, it's also a pleasure to install. Connecting the furnace to ductwork is easier than ever thanks to the optional rectangular return air plenum available on top or on either side of the furnace. What's more, the blower assembly comes with a prewired main power board for plug and play convenience.

PEACE OF MIND

The Mini-Caddy is a great-looking heating appliance you'll be proud to display in full view. And like all Caddy wood-burning appliances, it's also available in a wood/electric combo version—a dual heat source that provides extra peace of mind for you and your family.

ALTERNATE SOURCE OF HEAT

With Caddy series furnaces, you'll always have an alternate source of heat to ensure the comfort and safety of your family. The Mini-Caddy comes in two different configurations: wood-only or wood+electric combo furnace.

REQUIRED ACCESSORIES AND OPTIONS



⁽¹⁾ Recommended heating area and maximum burn time may vary subject to location in home, chimney draft, heat loss factors, climate, fuel type and other variables. The recommended heating area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature considering that the space configuration and the presence of heat distribution systems have a significant impact in making heat circulation optimum.

⁽¹¹⁾ Based on delivered heat output.

APPLIANCE PERFORMANCE ⁽²⁾

Fuel type	Dry cordwood
Firebox volume (cu. ft.)	2.3
Maximum burn time ⁽⁴⁾	13 h
Maximum input capacity (dry cordwood) ⁽³⁾	198,000 BTU
Overall heat output rate ⁽⁴⁾	11,319 BTU/h to 37,053 BTU/h (3.3 kW to 10.8 kW)
Average overall efficiency ⁽⁵⁾	75.7% (HHV) ⁽⁶⁾ 81.1% (LHV) ⁽⁷⁾
Delivered heat output rate ⁽⁸⁾	10,849 BTU/h to 36,429 BTU/h (3.2 kW to 10.7 kW)
Average delivered efficiency ⁽⁹⁾	70.6% (HHV) ⁽⁶⁾ 77.2% (LHV) ⁽⁷⁾
Optimum efficiency ⁽¹⁰⁾	85.1%
Average CO ⁽¹²⁾	15.61 lb/mmBTU (6.72 g/MJ)
Average electrical power consumption ⁽¹³⁾	760 Wh

GENERAL FEATURES

Recommended chimney diameter	6"
Flue outlet diameter	6"
Type of chimney	2100 °F (ULC S629/UL 103 HT)
Baffle type	High heat-resistant C-cast
Approved for a mobile home installation	No
Weight	470 lb (213 kg)
Blower (hp / speed / CFM)	1/4 / 4 / 1,400
Filters – dimensions (Width X Height X Depth)	15" X 20" X 1"
Air return plenum – dimensions (Depth or Height)	16 7/8"
Air return plenum – dimension (Width)	20 1/4"
Hot air plenum – dimensions (Depth or Height)	20"
Hot air plenum – dimension (Width)	20"
Overall dimension (Width X Depth X Height)	29 7/8" X 31 1/8" X 46 1/2"
Door opening dimension (Height)	9 7/8"
Door opening dimension (Width)	13 3/4"
Glass surface – dimensions (Width X Height)	12 1/2" X 10 1/8"
Door type	Single, glass with cast-iron frame
Glass type	Ceramic glass
Firebox – dimension (Height X Width X Depth)	14 1/8" X 13 3/4" X 19 3/8"
Steel thickness – body	3/16"
Steel thickness – top	1/4"
Centre line of flue outlet to the side	11 5/8"
Centre line of flue outlet to the floor	40 5/8"
Clearance – front	48"
Clearance – back wall	24"
Clearance – side wall	8"
Clearance – opposite side wall	24"
Clearances – ducts	<6"=3" ; >6"=0"
Clearance – recommended for maintenance on option side	24"
Electric element – location	Left or right
Electric element – recommended (maximum output)	11.25 kW
USA and Canadian standard (emissions)	EPA (CSA B415.1-10) / CSA B415.1-10
USA standard (safety)	UL 1995, UL 391
Canadian standard (safety)	CSA B366.1, CSA C22.2 no 236
Tested and listed as per applicable standards by	An accredited laboratory (CAN/USA)
Warranty	Limited lifetime

WOOD

⁽²⁾ Values are as measured per CSA B415.1-10, except for the recommended heating area, firebox volume, maximum burn time and maximum input capacity. Performances based on a fuel load prescribed by the standard at 10 lb/ft³ and with a moisture content between 18% and 28%.

⁽³⁾ Input value at 10 lb/ft³ fuel loading density and dry energy value of 8,600 BTU/lb.

⁽⁴⁾ Overall : Radiated and delivered heat together at 10 lb/ft³ fuel loading density over one total burn cycle.

⁽⁵⁾ Efficiency based on radiated and delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽⁶⁾ Higher Heating Value of the fuel.

⁽⁷⁾ Lower Heating Value of the fuel.

⁽⁸⁾ Delivered: Remotely provided to other rooms through ducting at 10 lb/ft³ fuel loading density over one total burn cycle.

⁽⁹⁾ Efficiency based on delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽¹⁰⁾ Optimum overall efficiency at a specific burn rate (LHV).

⁽¹¹⁾ This appliance is officially tested and certified by an independent agency.

⁽¹²⁾ Carbon Monoxide. Based on overall heat output at 10 lb/ft³ fuel loading density.

⁽¹³⁾ Unless stated otherwise, measures were taken directly at the main power source and include all electrical components present in the appliance.

CADDY

PF01015



Heating area ^(*)	Size	Log length	Average particulate emissions rate ^{(†) (‡)}
1,000 - 2,500 Ft ²	32 1/4" W X 52 7/8" D X 49" H	22"	0.654 lb/mmBTU (0.282 g/MJ)



THE CADILLAC OF FURNACES—NOW BETTER THAN EVER!

Advanced combustion technology and state-of-the-art design have earned the Caddy furnace a reputation as the cleanest, most efficient furnace ever produced by PSG—and with good reason! So how do you make a star product even better? With performance-enhancing electronics that take our flagship furnace to the next level.

STREAMLINED ELECTRONICS AND CONTROLS

The electronic components and controls of the newly redesigned Caddy have been reduced to just three components for greater ease of use and efficiency:

- An **integrated PC board and RTD probe** to control blower speeds and plenum temperatures, optimizing home comfort and furnace performance.
- A blower assembly equipped with a **prewired main power board** for plug and play convenience upon installation.
- A **touch-screen LCD control** module to make input and output control a breeze.

A UNIQUE HEAT EXCHANGER SYSTEM AND OUTSTANDING EMISSIONS PERFORMANCE

The secret behind the Caddy's outstanding performance is its built-in heat exchanger system, which ensures that heat is transferred quickly and efficiently via the smoke ducts inside the furnace instead of being lost up the chimney. It uses up to 30% less firewood and reduces particulate emissions by as much as 80%. That's great news for your heating bill—and the environment!

ALTERNATE SOURCE OF HEAT

With Caddy series furnaces, you'll always have an alternate source of heat to ensure the comfort and safety of your family. The Caddy comes in four different configurations: wood-only, wood+electric combo, wood+oil combo, and wood add-on furnace.

REQUIRED ACCESSORIES

- A -**
 - Blower assembly PA08567 (1)
- B -**
 - Blower assembly PA08567 (1)
 - 15 kW electric element PA01005 (2)
 - 18 kW electric element PA01055 (3)
 - 20 kW electric element PA01105 (4)
- C -**
 - Blower assembly PA08567 (1)
 - Beckett oil unit PA03055 (5)
 - Riello oil unit PA03105 (6)
- D -**
 - 90-370 Fan relay 51035 (7)
 - Transformer 120V/24 V Class 2 - 40 VA 60368 (8)

OPTIONS

- 5" fresh air intake adapter PA08562 (9)
- Top air return plenum kit PA08505 (10)

^(†) Recommended heating area and maximum burn time may vary subject to location in home, chimney draft, heat loss factors, climate, fuel type and other variables. The recommended heating area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature considering that the space configuration and the presence of heat distribution systems have a significant impact in making heat circulation optimum.

^(‡) Based on delivered heat output.

REQUIRED ACCESSORIES AND OPTIONS



[‡] When installed as an add-on furnace, only a SERIES configuration is allowed in Canada. The blower assembly is not required in a SERIES configuration. Both PARALLEL and SERIES configurations are allowed in the USA. See the owner's manual for more information about Add-on configuration.

APPLIANCE PERFORMANCE ⁽²⁾

Fuel type	Dry cordwood
Firebox volume (cu. ft.)	3.6
Maximum burn time ⁽⁴⁾	15 h
Maximum input capacity (dry cordwood) ⁽³⁾	310,000 BTU
Overall heat output rate ⁽⁴⁾	15,436 BTU/h to 49,638 BTU/h - (4.5 kW to 14.5 kW)
Average overall efficiency ⁽⁵⁾	76.7% (HHV) ⁽⁶⁾ 82.9% (LHV) ⁽⁷⁾
Delivered heat output rate ⁽⁸⁾	12,635 BTU/h to 44,857 BTU/h - (3.7 kW to 13.1 kW)
Average delivered efficiency ⁽⁹⁾	62.7% (HHV) ⁽⁶⁾ 68.3% (LHV) ⁽⁷⁾
Optimum efficiency ⁽¹⁰⁾	84.9%
Average CO ⁽¹²⁾	11.18 lb/mmBTU (4.81 g/MJ)
Average electrical power consumption ⁽¹³⁾	432 Wh

GENERAL FEATURES

Recommended chimney diameter	6"
Flue outlet diameter	6"
Type of chimney	2100 °F (ULC S629/UL 103 HT)
Baffle type	High heat-resistant C-cast
Approved for a mobile home installation	No
Weight	576 lb (259 kg)
Blower (hp / speed / CFM)	1/3 / 4 / 1,900
Filters – dimensions (Width X Height X Depth)	14" X 25" X 1"
Filters – quantity	1
Air return plenum – dimensions (Depth or Height)	15 3/4"
Air return plenum – dimension (Width)	24 3/4"
Hot air plenum – dimensions (Depth or Height)	28 5/8"
Hot air plenum – dimension (Width)	24 1/2"
Overall dimension (Width X Depth X Height)	32 1/4" X 52 7/8" X 49"
Door opening dimension (Height)	10"
Door opening dimension (Width)	13 3/4"
Glass surface – dimensions (Width X Height)	12 1/2" X 10 1/8"
Door type	Single, glass with cast-iron frame
Glass type	Ceramic glass
Firebox – dimension (Height X Width X Depth)	16" X 17" X 22 5/8"
Steel thickness – body	3/16"
Steel thickness – top	1/4"
Centre line of flue outlet to the side	12 7/8"
Centre line of flue outlet to the floor	44"
Clearance – front	48"
Clearance – back wall	24"
Clearance – side wall	6"
Clearance – opposite side wall	24"
Clearances – ducts	<6"=6"; >6"=1"
Clearance – recommended for maintenance on option side	24"
Wood Add-on – location of the connection with existing furnace	Left or right
Wood Add-on – air inlet duct dimensions (Height X Width)	14 1/2" X 22"
Burner – efficiency	85% (Beckett)
Burner – standard	Beckett AFG
Burner – other brands approved	Riello, Aero
Burner – location	Left or right
Burner – recommended clearance for maintenance	24"
Burner – recommended connector pipe diameter (Wood-oil)	7"
Burner – recommended exhaust pipe diameter	5"
Burner – location of exhaust pipe	Left or right
Burner – capacity at input #1	91,000 BTU (27kW)
Burner – orifice at input #1	0.65 70° W (Beckett)
Burner – pump pressure at input #1	100 psi
Electric element – location	Left or right
Electric element – recommended (maximum output)	18 kW
Electric element – clearance recommended for maintenance	24"
Electric element – other optional (maximum output)	15 kW or 20 kW
USA and Canadian standard (emissions)	EPA (CSA B415.1-10) / CSA B415.1-10
USA standard (safety)	UL 391 3 rd , Ed. rev. 1999
Canadian standard (safety)	CSA B366.1, CSA C22.2 no 236, CSA B140.4, CSA B212-93
Tested and listed as per applicable standards by	An accredited laboratory (CAN/USA)
Warranty	Limited lifetime

WOOD

⁽²⁾ Values are as measured per CSA B415.1-10, except for the recommended heating area, firebox volume, maximum burn time and maximum input capacity. Performances based on a fuel load prescribed by the standard at 10 lb/ft³ and with a moisture content between 18% and 28%.

⁽³⁾ Input value at 10 lb/ft³ fuel loading density and dry energy value of 8,600 BTU/lb.

⁽⁴⁾ Overall : Radiated and delivered heat together at 10 lb/ft³ fuel loading density over one total burn cycle.

⁽⁵⁾ Efficiency based on radiated and delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽⁶⁾ Higher Heating Value of the fuel.

⁽⁷⁾ Lower Heating Value of the fuel.

⁽⁸⁾ Delivered: Remotely provided to other rooms through ducting at 10 lb/ft³ fuel loading density over one total burn cycle.

⁽⁹⁾ Efficiency based on delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽¹⁰⁾ Optimum overall efficiency at a specific burn rate (LHV).

⁽¹¹⁾ This appliance is officially tested and certified by an independent agency.

⁽¹²⁾ Carbon Monoxide. Based on overall heat output at 10 lb/ft³ fuel loading density.

⁽¹³⁾ Unless stated otherwise, measures were taken directly at the main power source and include all electrical components present in the appliance.

MAX CADDY

PF01102

WOOD

Heating area ^(*)	Size	Log length	Average particulate emissions rate ^{(1) (11)}
1,500 - 3,500 Ft ²	36 1/4" W X 60 1/8" D X 50 1/2" H	25"	0.753 lb/mmBTU (0.324 g/MJ)



INGENUITY 2.0

PSG's largest furnace is now even smarter, with a new electronic platform that facilitates inter-system connections and makes the Max Caddy a natural choice as a core component of your whole home heating and cooling system.

THE POWER TO COMMUNICATE

Max Caddy's new streamlined electronic platform makes it easy for different systems to talk to each other. Heat pumps, air conditioners, humidifiers—the Max Caddy easily communicates with all of these appliances using standard industry symbols and practices. Easy-to-identify input and output ports and a blower assembly with prewired main board simplify installation and hookup. And PSG's touch-screen LCD control module makes input and output control a breeze.

A BENCHMARK FOR EFFICIENCY

The Max Caddy's integrated control PC board and RTD probe automatically ensures that the furnace blower is operating at optimum speed, keeping the plenum at just the right temperature. The built-in heat exchanger system ensures that heat is transferred quickly and efficiently via the smoke ducts inside the furnace instead of being lost up the chimney. The result is superior comfort and energy efficiency, with savings of up to 30% on firewood and reductions in particulate emissions up to 80%.

MULTI-ENERGY FLEXIBILITY AND PEACE OF MIND

The Max Caddy can be installed as a wood-only unit, but is also available in wood+electric, wood+oil combo, or even wood+oil+electric triple combo configurations so you can heat your home using multiple energy sources. With Caddy series furnaces, you'll always have an alternate source of heat to ensure the comfort and safety of your family.

REQUIRED ACCESSORIES

- A -**
 - Blower assembly PA08566 (1)
- B -**
 - Blower assembly PA08566 (1)
 - 20 kW electric element PA08535 (2)
 - 25 kW electric element PA08545 (3)
- C -**
 - Blower assembly PA08566 (1)
 - Beckett oil unit PA08512 (4)
 - Riello oil unit PA08513 (5)

OPTIONS

- 5" fresh air intake adapter PA08560 (6)
- Top air return plenum kit PA08500 (7)
- Hot water loop kit for pre-heating of domestic water PA08550 (8)

⁽¹⁾ Recommended heating area and maximum burn time may vary subject to location in home, chimney draft, heat loss factors, climate, fuel type and other variables. The recommended heating area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature considering that the space configuration and the presence of heat distribution systems have a significant impact in making heat circulation optimum.

⁽¹¹⁾ Based on delivered heat output.

REQUIRED ACCESSORIES AND OPTIONS



APPLIANCE PERFORMANCE ⁽²⁾

Fuel type	Dry cordwood
Firebox volume (cu. ft.)	4.9
Maximum burn time ⁽⁴⁾	17 h
Maximum input capacity (dry cordwood) ⁽³⁾	421,000 BTU
Overall heat output rate ⁽⁴⁾	18,424 BTU/h to 66,576 BTU/h (5.6 kW to 19.6 kW)
Average overall efficiency ⁽⁵⁾	78.9% (HHV) ⁽⁶⁾ 85% (LHV) ⁽⁷⁾
Delivered heat output rate ⁽⁸⁾	16,109 BTU/h to 54,578 BTU/h (4.7 kW to 16.0 kW)
Average delivered efficiency ⁽⁹⁾	64.8% (HHV) ⁽⁶⁾ 70.2% (LHV) ⁽⁷⁾
Optimum efficiency ⁽¹⁰⁾	85.8%
Average CO ⁽¹²⁾	12.20 lb/mmBTU (5.25 g/MJ)
Average electrical power consumption ⁽¹³⁾	360 Wh

GENERAL FEATURES

Recommended chimney diameter	6"
Flue outlet diameter	6"
Type of chimney	2100 °F (ULC S629/UL 103 HT)
Baffle type	High heat-resistant C-cast
Approved for a mobile home installation	No
Weight	729 lb (331 kg)
Blower (hp / speed / CFM)	1/2 / 4 / 2,100
Filters – dimensions (Width X Height X Depth)	16" X 20" X 1"
Air return plenum – dimensions (Depth or Height)	17 7/8"
Air return plenum – dimension (Width)	19 7/8"
Hot air plenum – dimensions (Depth or Height)	32 1/8"
Hot air plenum – dimension (Width)	25 3/8"
Overall dimension (Width X Depth X Height)	36 1/4" X 60 1/8" X 50 1/2"
Door opening dimension (Height)	9 7/8"
Door opening dimension (Width)	15 3/4"
Glass surface – dimensions (Width X Height)	14 1/2" X 10 1/8"
Door type	Single, glass with cast-iron frame
Glass type	Ceramic glass
Firebox – dimension (Height X Width X Depth)	15 7/8" X 20 3/8" X 26 1/4"
Steel thickness – body	3/16"
Steel thickness – top	1/4"
Centre line of flue outlet to the side	14 7/8"
Centre line of flue outlet to the floor	45 5/8"
Clearance – front	48"
Clearance – back wall	24"
Clearance – side wall	6"
Clearance – opposite side wall	24"
Clearances – ducts	<6"=6" with protection; >6"=1"
Clearance – recommended for maintenance on option side	24"
Burner – standard	Beckett - AFG
Burner – other brands approved	Riello
Burner – location	Right or left
Burner – recommended clearance for maintenance	24"
Burner – efficiency at input #1	85% (Beckett)
Burner – efficiency at input #2	83% (Beckett)
Burner – recommended connector pipe diameter (Wood-oil)	7"
Burner – recommended exhaust pipe diameter	5"
Burner – location of exhaust pipe	Right or left
Burner – capacity at input #1	91,000 BTU
Burner – capacity at input #2	120,000 BTU
Burner – orifice at input #1	0.65 70° W (Beckett)
Burner – orifice at input #2	0.65 70° W (Beckett)
Burner – pump pressure at input #1	100 psi (Beckett)
Burner – pump pressure at input #2	175 psi (Beckett)
Electric element – location	Right or left
Electric element – recommended (maximum output)	20 kW
Electric element – other optional (maximum output)	25 kW
Water loop kit – connection location	Right or left
Water loop kit – connecting pipe diameter	3/4"
Water loop kit – back-up tank volume	60 gal (227 L)
USA and Canadian standard (emissions)	EPA (CSA B415.1-10) / CSA B415.1-10
USA standard (safety)	UL 1995, UL 727, UL 391
Canadian standard (safety)	CSA B366.1, CSA C22.2 no 236, CSA B140.4, CSA B212-93
Tested and listed as per applicable standards by	An accredited laboratory (CAN/USA)
Warranty	Limited lifetime

WOOD

⁽²⁾ Values are as measured per CSA B415.1-10, except for the recommended heating area, firebox volume, maximum burn time and maximum input capacity. Performances based on a fuel load prescribed by the standard at 10 lb/ft³ and with a moisture content between 18% and 28%.

⁽³⁾ Input value at 10 lb/ft³ fuel loading density and dry energy value of 8,600 BTU/lb.

⁽⁴⁾ Overall : Radiated and delivered heat together at 10 lb/ft³ fuel loading density over one total burn cycle.

⁽⁵⁾ Efficiency based on radiated and delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽⁶⁾ Higher Heating Value of the fuel.

⁽⁷⁾ Lower Heating Value of the fuel.

⁽⁸⁾ Delivered: Remotely provided to other rooms through ducting at 10 lb/ft³ fuel loading density over one total burn cycle.

⁽⁹⁾ Efficiency based on delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽¹⁰⁾ Optimum overall efficiency at a specific burn rate (LHV).

⁽¹¹⁾ This appliance is officially tested and certified by an independent agency.

⁽¹²⁾ Carbon Monoxide. Based on overall heat output at 10 lb/ft³ fuel loading density.

⁽¹³⁾ Unless stated otherwise, measures were taken directly at the main power source and include all electrical components present in the appliance.

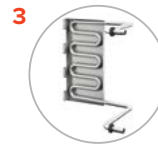
CADDY ALTERNA II

PF09010

  PELLETS			
Heating area ^(*)	Size	Hopper capacity	Average particulate emissions rate ^{(1) (12)}
600 - 3,000 Ft ²	29 3/8" W X 57 5/8" D X 49 1/2" H	240 lb (109 kg)	0.442 lb/mmBTU (0.190 g/MJ)



OPTIONS



THE NEW CADDY ALTERNA II PELLET FURNACE IN THE CADDY SERIES

The new Caddy Alterna II pellet furnace answers the needs of homeowners seeking the comfort of a wood-heating system without its inconveniences. Tested to the latest EPA and CSA B415.1-10 standards, the Caddy Alterna II pellet or pellet+electric combination furnace will please the most discerning consumers looking for an efficient and eco-friendly heating solution.

GREAT HEATING AUTONOMY

The new Caddy Alterna II pellet furnace offers great heating autonomy due to its 240 lb (109 kg) hopper capacity. Furthermore, its optional electrical system allows it to continue to operate when the furnace runs out of pellets.

MAINTENANCE-FREE COMPONENTS THAT PREVENT UNNECESSARY SERVICE CALLS

Other important features of the Caddy Alterna II include a self-cleaning bottom feed system that keeps the burn pot free from deposits; maintenance free components (no need to adjust, calibrate or oil); and a self-diagnostics electronic interface that prevents unnecessary service calls.

UNMATCHED RELIABILITY

All components entering the manufacture of the Caddy Alterna II are carefully selected and sourced from reputable vendors. With an all stainless steel combustion chamber and burn pot, the heart of your furnace is guaranteed to last.

ALTERNATE SOURCE OF HEAT

With the Caddy series furnaces you will never again be dependent on a single source of energy to guarantee the comfort and safety of your family. The Caddy Alterna II allows two different configurations: pellet only or combined pellet+electric.

OPTIONS

- 15 kW electric element
PA08570 (1)
- 20 kW electric element
PA08580 (1)
- 3" fresh air intake kit
AC01240 (2)
- Hot water loop kit for pre-heating of domestic water
PA08590 (3)
- 3" x 10" insulated flex pipe for fresh air intake kit
AC02092 (4)

^(*) Recommended heating area and maximum burn time may vary subject to location in home, chimney draft, heat loss factors, climate, fuel type and other variables. The recommended heating area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature considering that the space configuration and the presence of heat distribution systems have a significant impact in making heat circulation optimum.

⁽¹⁾ Based on delivered heat output.

APPLIANCE PERFORMANCE ⁽²⁾

Fuel type	Pellet (Premium grade or better) ⁽³⁾
Maximum burn time ⁽⁴⁾	200 h
Maximum heat input rate ⁽⁴⁾	101,000 BTU/h (29.6 kW)
Overall heat output rate (min. to max.) ⁽⁵⁾	25,216 BTU/h to 72,447 BTU/h (7.4 kW to 21.2 kW)
Average overall efficiency ⁽⁶⁾	67.9% (HHV) ⁽⁷⁾ 73.2% (LHV) ⁽⁸⁾
Delivered heat output rate (min. to max.) ⁽⁹⁾	22,537 BTU/h to 64,737 BTU/h (6.6 kW to 19 kW)
Average delivered efficiency (min. to max.) ⁽¹⁰⁾	60.5% (HHV) ⁽⁷⁾ 65% (LHV) ⁽⁸⁾
Optimum efficiency ⁽¹¹⁾	82.4%
Burn rate	1.2 lb/h - 11.8 lb/h
Average CO ⁽¹³⁾	15.41 lb/mm BTU (6.63 g/MJ)
Average electrical power consumption ⁽¹⁴⁾	860 Wh

GENERAL FEATURES

Recommended chimney diameter	4"
Flue outlet diameter	4"
Type of chimney	Listed Pellet Vent
Baffle type	High quality stainless steel
Approved for a mobile home installation	No
Weight	573 lb (260 kg)
Blower (hp / speed / CFM)	1/2 / 4 / 1,650
Filters – dimensions (Width X Height X Depth)	16" X 20" X 1"
Air return plenum – dimensions (Depth or Height X Width)	16" X 21 1/4"
Hot air plenum – dimensions (Depth or Height X Width)	22" X 22"
Overall dimension (Height X Width X Depth)	49 1/2" X 29 3/8" X 57 5/8"
Glass surface – dimensions (Width X Height)	3" X 16"
Door type	Single, glass with cast-iron frame
Glass type	Ceramic glass
Centre line of flue outlet to the side	13 1/2"
Centre line of flue outlet to the back	26 3/4"
Clearance – front	48"
Clearance – back wall	24"
Clearance – side wall	4"
Clearance – opposite side wall	24"
Clearance – recommended for maintenance on option side	24"
Clearances – ducts	<5'=2" ; >5'=0"
Electric element – location	Right or left
Electric element – recommended (maximum output)	15 kW
Electric element – other optional (maximum output)	20 kW
Water loop kit – connection location	Right or left
Water loop kit – connecting pipe diameter	3/4"
Water loop kit – back-up tank volume	60 gal (227 L)
USA and Canadian standard (emissions)	EPA (CSA B415.1-10) / CSA B415.1-10
USA standard (safety)	UL 391, UL 1995
Canadian standard (safety)	CSA B366.1, CSA C22.2 no. 236
Tested and listed as per applicable standards by	An accredited laboratory (CAN/USA)
Warranty	Limited lifetime

PELLETS

⁽²⁾ Values are as measured per CSA B415.1-10, except for the recommended heating area, hopper capacity, maximum burn time and maximum heat input rate. Results may vary depending on pellet quality, density, length, and diameter.

⁽³⁾ Grades of pellet fuel are determined by organizations such as Pellet Fuels Institute (PFI), ENplus and CANplus.

⁽⁴⁾ Based on the maximum burn-rate and a dry energy value of pellet at 8,600 BTU/lb.

⁽⁵⁾ Overall: Radiated and delivered heat together.

⁽⁶⁾ Efficiency based on radiated and delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽⁷⁾ Higher Heating Value of the fuel.

⁽⁸⁾ Lower Heating Value of the fuel.

⁽⁹⁾ Delivered: Remotely provided to other rooms through ducting.

⁽¹⁰⁾ Efficiency based on delivered heat when allowing cycling from high to low burn to simulate thermostat demand.

⁽¹¹⁾ Optimum overall efficiency at a specific burn rate (LHV).

⁽¹²⁾ This appliance is officially tested and certified by an independent agency.

⁽¹³⁾ Carbon monoxide. Based on overall heat output.

⁽¹⁴⁾ Unless stated otherwise, measures were taken directly at the main power source and include all electrical components present in the appliance.

FILL YOUR PELLET HEATING APPLIANCE ONCE A MONTH!

A FIRST IN NORTH AMERICA

STORAGE TANK WITH PNEUMATIC SELF-FEEDING PELLET SYSTEM

AC01460



INSTEAD OF HAVING TO FILL A PELLET APPLIANCE EVERY DAY, THE STORAGE TANK WITH PNEUMATIC SELF-FEEDING PELLET SYSTEM ENABLES A HOMEOWNER TO ONLY FILL THE APPLIANCE ONCE A MONTH!

This ingenious Storage Tank with Pneumatic Self-Feeding Pellet System meets the consumer's needs for time-saving and long-term heating for Central Heating Systems. Optimize your time by avoiding multiple loads. The vacuum system acts as a siphon bringing the pellets from the tank to the auxiliary discharge system in order to feed the hopper, making sure to keep it at full capacity. The pellets are therefore temporarily stored in the auxiliary discharge system before being discharged into the hopper. Also, for large pellet consumers, an additional section, available as an option, will allow the addition of 15 more bags.

A
35 bags
of pellets

B
6 bags
of pellets

A + B
41 bags, equivalent to
1,640 pounds of pellets,
for approximately one
month of hassle-free heat.

The innovative, North American-made, Pneumatic Self-Feeding Pellet System greatly expands the market for the Alterna II Pellet Furnace, by making it as convenient to own as a conventional oil furnace. Even the footprint of the storage tank matches that of a typical 200-gallon oil tank, making replacement of oil with environmentally friendly pellets that much easier.

THE NEW STORAGE TANK WITH PNEUMATIC SELF-FEEDING PELLET SYSTEM (AC01460) INCLUDES:

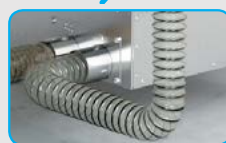
1

A large storage tank that can hold up to **35 bags of pellets**. When added to the **six bags that will fit in the Alterna II Pellet Furnace's hopper**, that totals **41 bags**, equivalent to **1,640 pounds** of pellets. That's enough for approximately one month of hassle-free heat. The storage tank is made of tough 18g galvanized steel, with adjustable legs.



3

A simple installation system that allows **several configurations** including the **possibility of installing the tank at 25' from the furnace**.



4

A mounting bracket for the vacuum system.



2

A Low-maintenance, **quiet (56 dB), durable, vacuum system** with a powerful two-turbine motor and HEPA filter.



5

A LCD control allowing to program the hours and days of operation of the system.



6

Four 2"Ø X 15" anti-static flex hose.



REQUIRED COMPONENTS



AUXILIARY DISCHARGE SYSTEM FOR ALTERNA II

AC01461

OPTIONS



AC01460 STORAGE TANK EXTENSION
(15 additional pellet bags)

AC01462



2"Ø X 25' ANTI-STATIC FLEX HOSE

AC01465

Preliminary features. Technical data for this new product is for reference only.

AUTHORISED DEALER

To make sure your PSG furnace provides comfort and energy saving for many years, your choice of installer is extremely important. An authorized PSG dealer will ensure that the system is optimized to deliver its full potential and installed according to Standards. The customer making the wise choice to do business with a PSG authorized dealer will benefit from the privilege warranty, in addition to enjoy a professional and hassle free installation service.

Authorised Dealer

HEAD OFFICE

250 De Copenhague
St-Augustin-de-Desmaures (Quebec)
G3A 2H3, Canada
Phone: 1-418-878-3040
Fax: 1-418-878-3001

CUSTOMER SERVICE

1-418-908-8002
Monday - Friday: 8:00 a.m. to 12:00 - 1:00
to 5:00 p.m. (EST)
possiblepurchase@sbi-international.com

TECHNICAL SUPPORT

1-418-908-8002
Monday - Friday: 8:00 a.m. to 12:00 - 1:00
to 5:00 p.m. (EST)
tech@sbi-international.com

PUB046A



 **Caddy**
By PSG