## BLAZE KING KING/PRINCESS Free Standing Wood Stoves



## KING

Maximum Performance At 88\% $1 H V{ }^{\text {F }}$ efficient $82 \%$
HHVF, the King is the most efficient wood stove in the world. This allows you to get the most heat out of your wood to reduce your heating costs.

Maximum Size The King has the deepest and also one of the largest fireboxes of any stove on the market-it is for serious wood burners. This firebox is great for families who live in colder climates, have larger homes or need heat for longer periods of ime. You can fit up to 91 lbs. of wood into the King's 4.32 cu.ft.
firebox. That's equal to 703,390 BTUs of available wood energy The King can burn for 40+ hours on low or produce a tremendous amount of heat for 12 to 16 hours, depending on your installation and wood type.
The distance from the door opening to the bottom of the firebox is 9 ". Our design minimizes any chance of coals rolling forward and out of the firebox when the door is opened. The deep firebox keeps the removal of ash to a minimum.

Style Choices There are three styles to choose from; the King

Parlor, the King Classic and the King Ultra. The Parlor comes with cast iron legs for a more traditional look
while the Ultra is versatile because of its large, standard ash drawer. The Classic has a lower profile which makes his model more install friendly. You can finish any of these styles with decorative, plated finishes


| Speeifications: King | Optimum Performance (LHV) | Real World Tested Performance (HHV) |
| :---: | :---: | :---: |
| Maximum heat input ${ }^{\circ}$ | 703,390 BTU's | 703,390 BTU's |
| Efficiency | 88\% | 82\% (EPA Istedefificenes) |
| Constant Heat output on High*** | 51,582 BTU's/hour up to 12 hours | 48,065 BTU's/hour up to 12 hours |
| Constant Heat output on Low*** | 15,475 BTU's/hour up to 40 hours | 14,419 BTU's/hour up to 40 hours |
| Square Feet Heated | 2000-3000 |  |
| Maximum Log Size | Up to 23"* |  |
| Burn Time ${ }^{\text {e }}$ | Up to 40 hours on low |  |
| Emissions (grams/hour) | 1.76 g |  |
| Firebox Size | 4.32 cu. ft. |  |
| Flue Size (do not reduce) | $8{ }^{\prime \prime}$ |  |
| C0\% Weighted Average | 0.29\% |  |

## King calculations for BTUs and burn times







## PRINCESS

Correct Firebox Size It is important that you pick the correct stove size to heat your home. The Princess, at $2.85 \mathrm{cu} . \mathrm{ft}$.,
has a larger size firebox. All Blaze King catalytic stoves have a thermostat control to allow you to regulate the heat output making it usable in a wide variety of home sizes.

A Deeper Firebox is a Safer Firebox Our design minimizes any chance of coals rolling forward and out of the firebox when the door is opened. The distance from the door opening to the bottom of the firebox is 6 in., allowing the Princess to hold up to 60 lbs. of wood. Our deep fireboxes minimize the need to remove ashes.


## Princess calculations for BTUs and burn times






## King and Princess Specifications



## King Scientific Burn Chart OFfers the Proof! Burns Longer, Cleaner \& More Efficiently!

$$
\begin{aligned}
& \text { This graph plots the results of a test run by Blaze King Industries, Inc. in its Research } \\
& \text { E } 1107 \text {, was run according to WHA Wood Heating Alliaince standidars. The lines on } \\
& \begin{array}{l}
\text { this graph trace the temperatures recorded by thermocouple sensors within the catalytic } \\
\text { combustor and centered in the flue pipe 48' above the stove top. }
\end{array} \\
& \text {-With a hot fire burning and } 54 \text {-pound load of Tamarack in the firebox, the }
\end{aligned}
$$

$$
\begin{aligned}
& \begin{array}{l}
\text { hermostat was closed down to a low seting. Time Friday atermoon 3:30p.m. } \\
\text { Temperatures at the sensing locations inmediately begin to drop, in response to the } \\
\text { hermostat seting. Athough the flue temperature soond drops below 200 degrees, }
\end{array} \\
& \begin{array}{l}
\text { thermostat seting. Although the flue temperature soon drops below } 200 \text { degrees, } \\
\text { indicating a slow burn, the catalyst remains it, actively consuming the smoke and }
\end{array} \\
& \begin{array}{l}
\text { indicating a slow burn, the catalyst remains lit, actively consu } \\
\text { pollutants which would otherwise be exhausted up the stack. }
\end{array} \\
& \text { B-Saturday, August 24, 6:00p.m. } 24+\text { hours at low burn and } 22 \text { pounds of fue }
\end{aligned}
$$

emain. Average fuel consumption so far 1.02 pounds per hour. Assuming a usefu
BTUPPound from the Tamarack of 8,450 and an EPA weighted average overall eating efficiency of $82.5 \%$ for the model $K E 1107$, we get an average heat output of et than 7000 BTU per hour over the 27 hour period of low, clean burn. --Peaks like this result from the burning wood collapsing, stiring up sparks and
smoke (which sets off a fury of combustor activity), and exposing unburned wood moke (yhich sets off a flury of combustor activit), and exposing unburned wood to the fire, resulting in inising firebox temperatures. Note how the thermastat responds
to this increase, controlling the air intake to the fire, and automatically lowering the
-After more than 47 hours of clean burning, the cataytic combustor finally goes utt having simply run out of fuel. The remaining volatiles are being consumed completely out. A bed of hot coals remains, continuing to p roducuce heat for more that compleiele out. A bed of hot coals remains, continuing to produce heat for more that
an additional 7 hours! Adding more fuel during that time would recharge the fire
and relight the combustor That's more than 47 hours an adatitional hours: Adding more fuel during that time would recharge the fire
and reight the combustor. Thats more than 47 hours of continuous heating, with a
nstant potential for continuing the e burn amost indefinitely Note too how the fue nstant potential for continuing the burn almost indefinitely. Note too, how the flue
emperature remains right around 200 degrees for nearly the entire 47 -hour burn. temperature remains righ tround 200 degrees tor reary the enitre
The stoves heat is being put into the room, not wasted up the stack!


## King and Princess Features



Catalytic Technology Blaze King has been making large wood stoves for 35 years. Over this time period we have built a tradition of craftsmanship and performance that is unequaled. In 1983 Blaze King invented the first hybrid wood stove using air tubes and a catalytic converter. A year later Blaze King received the first certificate of compliance, number 001, for the first clean burning wood stove in North America. We received this certificate from the Oregon Department of Environmental Air Quality which was a forerunner to today's regulatory body, the EPA. A refined version of this technology is what you see in every catalytic Blaze King today.


Thermostat control (No electricity required) Blaze King's built-in thermostat constantly monitors the heat output of your stove. It automatically adjusts the air required for combustion. This unique technology, where we combine the efficiencies of a catalytic combustor with a built-in thermostat, provides the longest burn times of any wood stove. You get a full night's sleep without having to reload your stove. It also means that when you return from work, your stove is still hot and your home is warm.

$70 \%$ turn down Fine-tuned automatic airflow, as our thermostat and catalyst work in tandem, allows you to turn down your Blaze King catalytic stove by up to 70\%. Non Blaze King stoves only turn down by $33 \%$ and have little control over their heat output. Because of this most people use expensive electric heat in the spring and fall because they cannot control the heat output of their secondary air wood stove. With a $70 \%$ turn down ability a Blaze king is perfect to heat your home in the shoulder season saving you money on heating costs.


Easy to operate Light a fire as per the instructions in your owner's manual. After you have established a good fire and the thermometer needle is well into the active zone simply select your heat setting. Your Blaze King will now automatically control the heat from your stove until you need to load it again, which could be up to 40 hours later depending on the model you selected.

Burn 33\% less wood The combination of our exclusive thermostat and catalytic combustor technology makes your Blaze King stove one of the most efficient wood stoves in the world. The proof of this is in our flue temperatures. Non Blaze King stoves have flue temperatures of between $600^{\circ} \mathrm{F}$ and $900^{\circ} \mathrm{F}$ while your Blaze King flue temperatures are between $150^{\circ} \mathrm{F}$ and $300^{\circ} \mathrm{F}$. Non Blaze King stoves pump valuable heat up the flue. Your Blaze King catalytic stove keeps the heat in your home saving you money. By making your stove this efficient you will burn up to $33 \%$ less wood, cut, stack, load and clean $33 \%$ less wood. This is a major advantage that only a Blaze King offers.

Less Cleaning All Blaze King stove's produce very fine ash because we extract every last drop of energy from the wood. As a result you can go for very long periods before you have to empty your stove.

Close Clearances The unique design of a Blaze King makes it possible for it to be placed tightly into a corner. Close clearance options allow for more versatile installs. Double layers of bricks only require a spark protector for floor protection, saving you hundreds of dollars on your installation costs.

## 10 Year Extended Warranty

Because we believe in the technology and craftsmanship built into every Blaze King stove we are now pleased to offer a 10 year extended warranty on your catalytic combustor

