

OWNER'S MANUAL

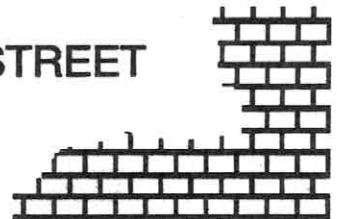
GK 300-HT and GK 400-HT

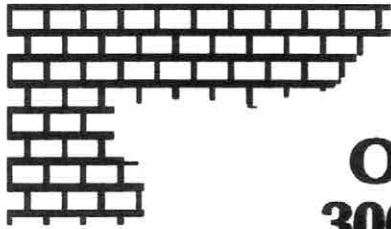


Hitzer Inc.

LICENSED
MANUFACTURERS
GLO KING WOODSTOVES

269 EAST MAIN STREET
BERNE, IN 46711
(219) 589-8536





GLO KING **Owner's Manual** **300-HT and 400HT**



CONGRATULATIONS!

We are proud of our product and believe you have made a wise purchase. You will find the benefits of your GLO KING are two-fold: It not only provides cozy warmth for your home, but also reduces pollutants emitted into the atmosphere. For optimum burn efficiency you must read and follow the operating instructions.

Our Owner's Manual is geared for the novice wood stove operator and includes many practical tips for safety considerations. Although many of you are proficient at operating wood burning appliances, your GLO KING has a unique internal combustion design and a little re-education is helpful.

HAPPY HEATING!

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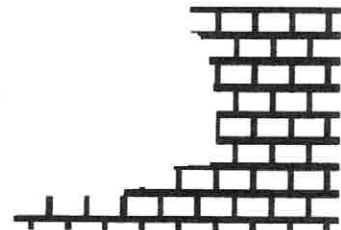
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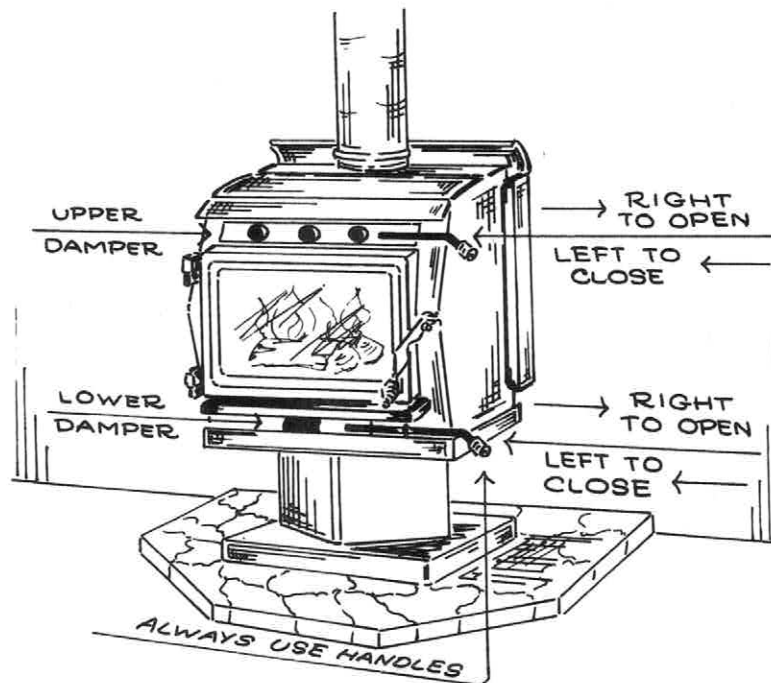
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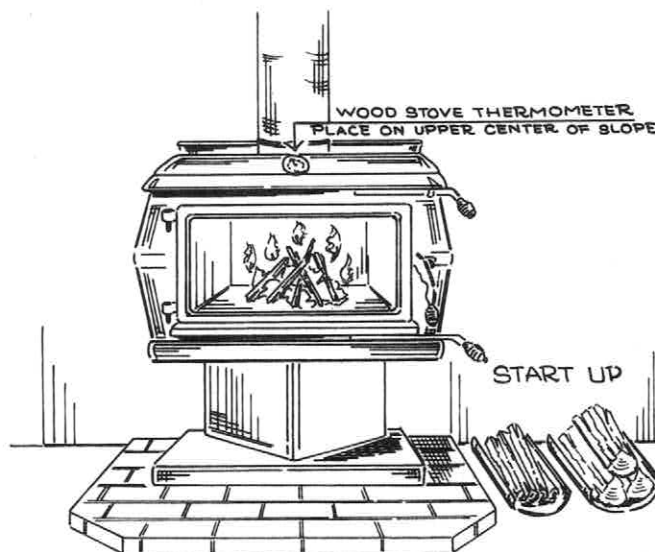
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START-UP

- 1) Open the dampers by pulling the upper and lower spring handled rods to the right. The damper adjustments are very slight, about one (1) inch.
- 2) Loosely bunch up about five pieces of regular print newspaper and place in the center of the firebox.
- 3) Stack 8 to 10 sticks of your small size kindling in a crisscross fashion over the paper. Light the newspaper below the kindling, and leave the door ajar about one half (1/2) inch, giving the fire plenty of oxygen.



TRANSITIONAL BURN

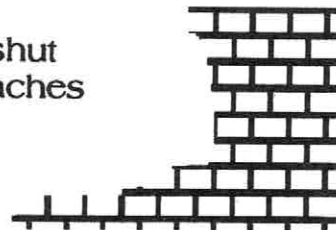
- 1) When the kindling is thoroughly aflame, add 4 to 6 sticks of the larger kindling, one at a time, crisscrossed.
- 2) Leave the upper and lower dampers in the full open position (pulled out to the right), and leave the door ajar about one half (1/2) inch.
- 3) When your larger size kindling is thoroughly ablaze, add up to three pieces of cord wood, being careful not to overload the stove or smother the flames.
- 4) After the cord wood is aflame, close and latch the door.
- 5) When the surface temperature is approximately 500°F, shut the stove down by pushing the dampers all the way to the left. The surface temperature may climb before stabilizing.
- 6) You may now sit back and enjoy your fire. Resist the urge to add more wood to a blazing fire.

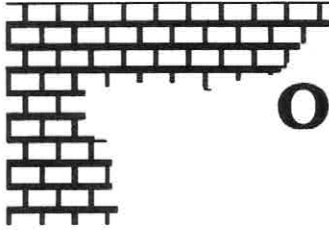
ADVANCED/SECONDARY BURN

You have now achieved the advanced/secondary burn stage, which occurs when the firebox reaches such a high internal temperature that pollutants ignite spontaneously and burn. Sometimes it will appear that your wood is no longer burning, even though the surface temperature is registering 400°F or more. The secondary burn will slowly reduce the fuel to red-hot coals. Now is the time to add more fuel to the fire.

REPLENISHING THE FIRE

- 1) Wear your fire- and heat-resistant gloves. Even though you don't see flames, the stove is HOT!
- 2) Open the dampers by pulling the spring handles out to the right.
- 3) Open the door SLOWLY.
- 4) Place one to three pieces of cord wood on the red-hot coals.
- 5) Close and latch the door.
- 6) Once again, watch the thermometer and shut down the stove when the temperature reaches approximately 500°F.





CONDITIONAL OPERATION ADJUSTMENTS

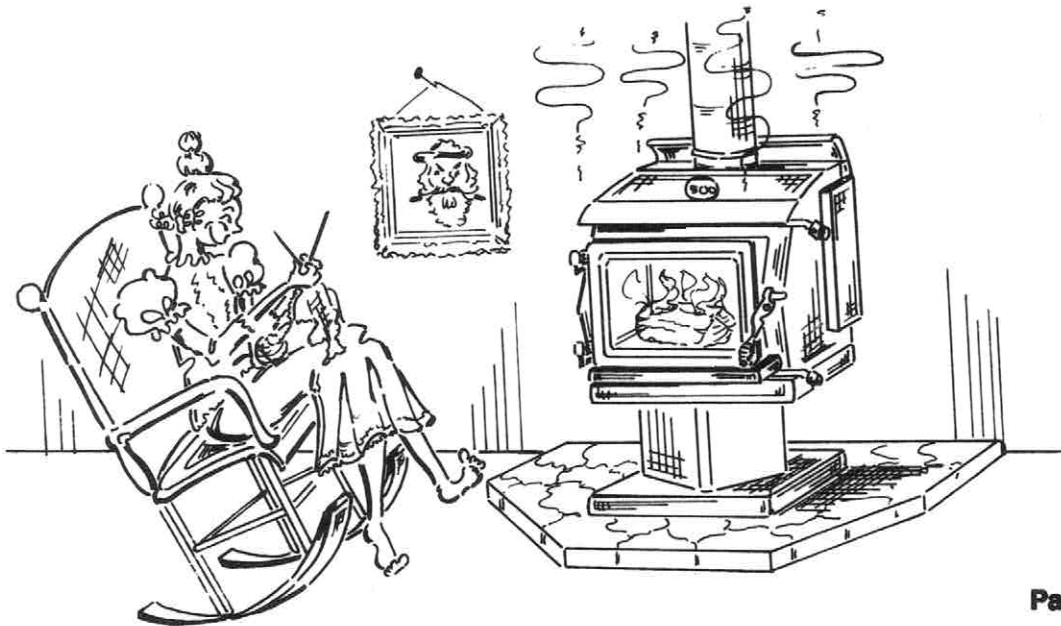
Several factors which may affect your stove's performance are:

- 1) High altitude--"shut down" at about 550° F.
- 2) High flue height--"shut down" at about 450° F.
- 3) Atmospheric pressures may inhibit start-up and draft. When barometer readings are high, you may try leaving the dampers open to encourage better draft.

These operating instructions are based on stove performance at the following standards:

- 1) 30 feet above sea level.
- 2) 13 feet of 6" listed flue pipe.
- 3) Using Douglas fir with moisture content of 22% as fuel.

As you operate your GLO KING, you will become well acquainted with your local burn conditions, and quite proficient at starting and controlling the fire.



CLEANING AND MAINTENANCE

CHIMNEY/FLUE

A thorough cleaning of the stove and flue system by a licensed chimney sweep is highly recommended at least once a year. If you use a pitchy wood, such as pine, or live in an area of long burn seasons, increase the frequency of cleaning to twice yearly.

STAINLESS STEEL SCREEN

Under normal operating conditions the screen located at the interior top front of the firebox will clean itself by incinerating particulates. Burning wet or unseasoned wood will clog the screen, resulting in unusual smoking. To remedy this, reach into the cool firebox and scrub the screen gently with a damp rag or wire brush.

ASHES

Ash buildup is determined by the kind of wood you burn. Soft woods, such as fir, leave very little ash, while hard woods, such as oak, leave more. Try not to remove all the ashes when you clean out the stove. Leave a 1/2-inch bed of ashes. It will be beneficial in starting and holding a fire. Never use a vacuum cleaner to clean out your stove due to the possibility that live embers may ignite the vacuum cleaner bag.

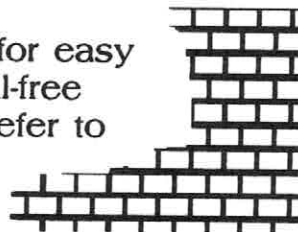
VIEWING WINDOW

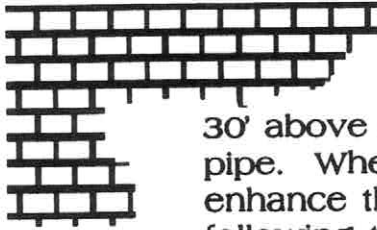
The neoceram may be cleaned several ways. Any sooting of the window will burn off during the advanced/secondary burn state. If you want to clean the window before you start a new fire, use glass cleaner such as sudsy ammonia, or simply dampen a piece of newspaper, dip it in the cool ashes, and wipe the inside of the window.

PAINTED SURFACE OF STOVE

Clean the stove with a damp, oil-free and lint-free cloth. If you use a vacuum cleaner to dust the surface of the stove or hearth, wait until the fire is out and the stove is cool.

Your local GLO KING retailer can supply paint for easy touchups. Clean surface of stove first with an oil-free cleaner, then spray on a LIGHT coat of paint. Refer to the "CURING THE PAINT" section of this manual and follow the instructions after touchups.





INSTALLATION

The GK 400-HT and 300-HT were tested at 30' above sea level using 13 feet of 6-inch listed flue pipe. When installing the 300-HT or 400-HT, you can enhance the draft, and therefore the performance, by following the recommended flue heights.

	Sea level	13 ft.		
1,000'	. . . . .	13.5 ft.	4,000	. . . . . 15 ft.
2,000'	. . . . .	14 ft.	5,000	. . . . . 15.5 ft.
3,000'	. . . . .	14.5 ft.	6,000'	. . . . . 16 ft.

The above recommended flue heights are only a guideline. Local terrain can cause down drafts which can greatly affect the operation of your stove.

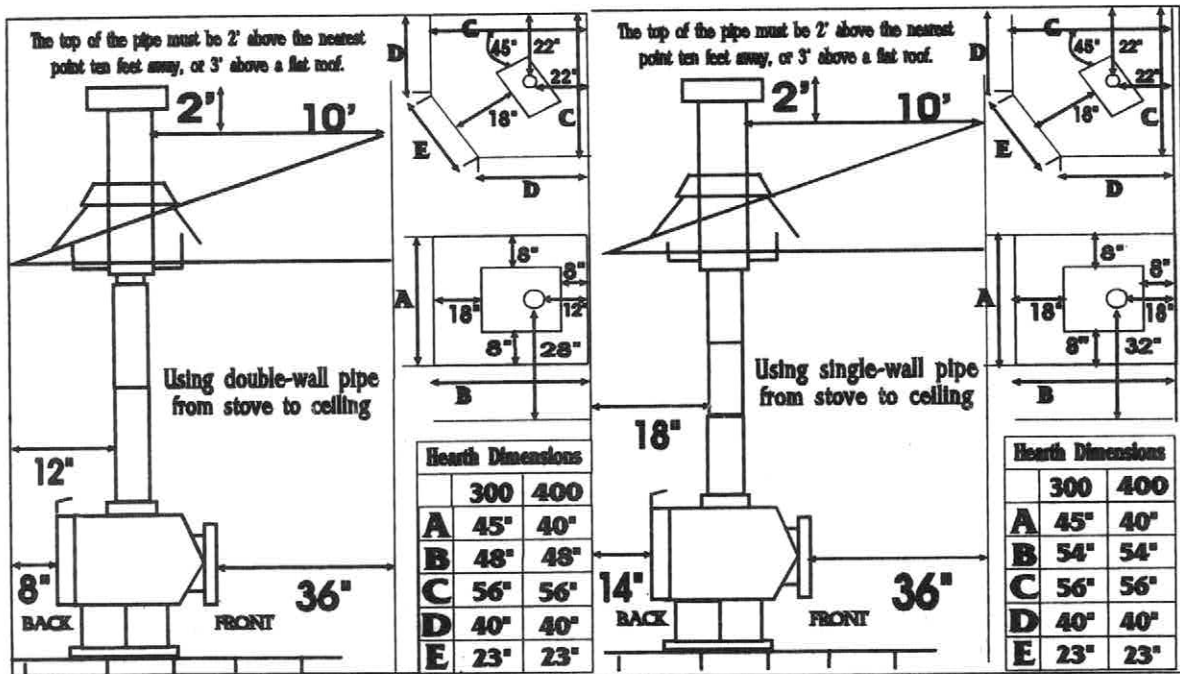
300-HT/400-HT Typical Residential Home Installation Outside Wall Installation—Add pipe for inside wall installation.

Double wall (inside)—(close clearance)

- 1 - rain cap
- 1 - roof jack
- 1 - 36" Class A pipe
- 1 - 24" Class A pipe
- 1 - ceiling support
- 1 - double wall telescopic length
- 1 - double wall stove adapter

Single wall (inside)

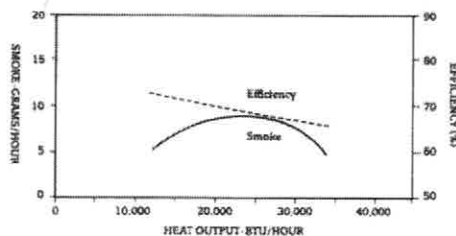
- 1 - rain cap
- 1 - roof jack
- 1 - 3' Class A pipe
- 1 - 2' Class A pipe
- 1 - ceiling support
- 1 - 18" slip connector
- 2 - 3' standard stove pipe lengths
- 1 - 12" stove pipe



Summary

All Glo King Woodstoves are Non-Catalytic, EPA Phase II Certified

READING PERFORMANCE GRAPHS



Ideally, you're looking for a stove that offers you a) the highest efficiency, b) with the lowest smoke emission rate, c) at the heat output level you most frequently use.

When you compare Glo King graphs with those of other manufacturers, you'll see that our stoves burn cleanest at the lower, most frequently used ranges.

Sundance I

Large Model: 300 HT-P

Sunstream I

Large Model: 300 HT-L

Heating Capacity:
2000+ sq. ft.

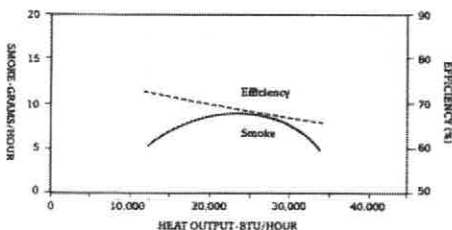
Heat Output:
to 33,500 BTU/hr

Low-Burn Emissions Rate:
3.2 grams/hr.

Overall Efficiency:
to 72.7%

Combustion Efficiency:
to 85.9%

Heat Transference:
to 84.6%



LOG SIZE	DEPTH	WIDTH	HEIGHT	FLUE SIZE	GLASS SIZE	TO COMBUSTIBLES (FROM FLUE COLLAR)			HEARTH EXTENSION (FROM STOVE)			HEARTH THICKNESS
						SIDE	REAR	CORNER	FRONT	REAR	SIDES	
22"	22"	29"	HT-L 30" HT-P 34"	6"	9 1/2"x18"	28"	12"	22"x22"	18"	8"	8"	5"

Sundance II

Small Model: 400 HT-P

Sunstream II

Small Model: 400 HT-L

Heating Capacity:
1500+ sq. ft.

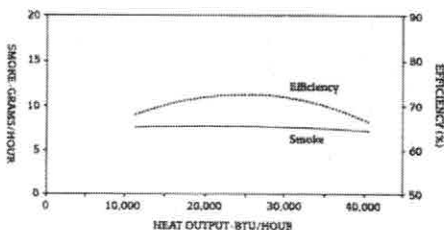
Heat Output:
to 41,000 BTU/hr

Low-Burn Emissions Rate:
5.34 grams/hr.

Overall Efficiency:
to 73.1%

Combustion Efficiency:
to 90.5%

Heat Transference:
to 80.8%



LOG SIZE	DEPTH	WIDTH	HEIGHT	FLUE SIZE	GLASS SIZE	TO COMBUSTIBLES (FROM FLUE COLLAR)			HEARTH EXTENSION (FROM STOVE)			HEARTH THICKNESS
						SIDE	REAR	CORNER	FRONT	REAR	SIDES	
18"	22"	24"	HT-L 30" HT-P 34"	6"	9 1/2"x16"	25 1/2"	12"	17 1/2"x17 1/2"	18"	8"	8"	5"

All Glo King Woodstoves have been CERTIFIED by the Oregon Department of Environmental Quality (DEQ), as well as the U.S. Environmental Protection Agency (EPA).

All Glo King Woodstoves have been SAFETY TESTED by Northwest Testing Laboratory

(ICBOTL-128).

Performance may vary from test values, depending on actual home operating conditions.

The Glo King Non-Catalytic Combustion Design has a Patent Pending.

The information in this brochure should be

used only as a guide. It is the latest information available at time of publication. Changes in specifications may be made without notice. Please, consult your local Glo King dealer.