



GloKingSM

America's getting the GloTM

QUICK REFERENCE SECTION

1994-95 Golden Glo[®] Pellet Stoves

Combustion
Fan Voltages

64-76
72-83
83-91
117-117

Convection
Fan Voltages

75-87
86-97
97-105
118-118

SAVE THESE INSTRUCTIONS

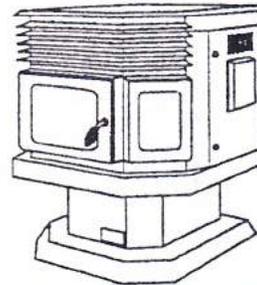
Listed by EESPC (Energy and Environmental Systems Performance Corporation) NVLAP lab code 0301 for the following applications.

Safety label shown in Quick Reference Section.

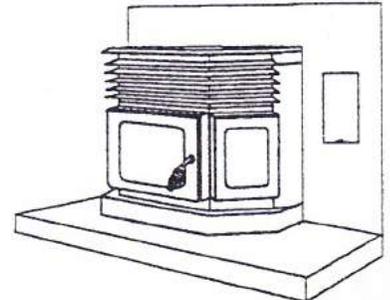
- The P100-F, P75-F and P100-I models are listed for residential and mobile home use.
- The P100-I insert model is approved for masonry, zero clearance and new construction applications.
- Tested to UL907, UL1482, ASTM 1509-93 (93-057), July 1993.
- All units utilize pelletized wood for fuel and have an electrical rating of 115 VAC 60 HZ.
- Use of improper fuel, chemical cleaner, or improper electrical source may invalidate the warranty.

SAFETY NOTICE

- THE PURPOSE OF THIS MANUAL IS TO SUPPORT AND SUPPLEMENT THE SAFE AND PROPER INSTALLATION OF THE GOLDEN GLO PELLET STOVE SERIES.
- PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS PELLET FUEL-BURNING ROOM HEATER.
- FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.
- ANY DEVIATION TO THESE INSTRUCTIONS MAY INVALIDATE THE WARRANTY AND COULD CAUSE SERIOUS CONSEQUENCES.
- CONTACT LOCAL BUILDING OR FILE OFFICIALS ABOUT RESTRICTION AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.



P100 Free Standing Pellet Stove Line



P100 Pellet Stove Insert Line

Owner's Manual

P100-F
Large Free Standing Stove
P100-I
Large Fireplace Insert
P75-F
Medium Free Standing Stove



Thank You...

...for purchasing a GloKing Pellet Stove. Welcome to the growing family of environmentally conscience owners who enjoy the comfort of wood heat yet appreciate the cleanliness and convenience of pellet technology. You should be applauded for your ecological decision to utilize waste material by converting this renewable energy into clean and useful heat.

The Golden Glo Pellet stove has been designed and engineered to provide years of safe and dependable service when operated, maintained and serviced as described in this manual. All pellet stoves require some maintenance, however, we have strived to manufacture a user friendly appliance that provides easy access to the clean out areas. With your reasonable and prudent care, the GloKing stove will deliver years of remarkable clean burning efficiency.

This owner's Manual has been carefully written and contains valuable information necessary for a safe and successful installation. The Table of Contents is designed to provide an easy reference to the topic desired. Each topic is intended to be an entity in itself with additional information that presents a more complete understanding about the subject. We urge you to read this manual carefully before starting the actual installation work.

To **validate your warranty**, complete the registration form on the back page and mail within 10 days of purchase. We recommend you retain your bill of sale and record the model, serial number, purchase date and where purchased below.

IMPORTANT INFORMATION

The following data may be needed to accurately respond to service inquiries:

From the Safety Label:

Model: _____

Serial Number: _____

Date of Manufacture: _____

From the Bill of Sale:

Purchase Date: _____

Purchased From: _____

Please attach your bill of sale to this page.

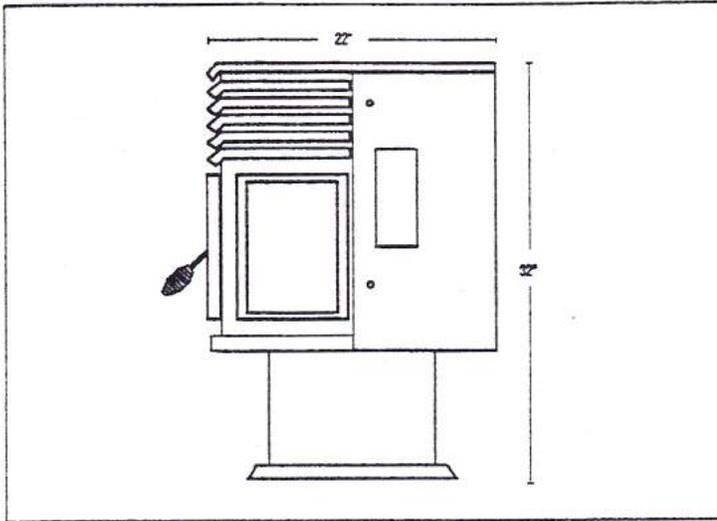
PROTECT YOUR ASSET.

Mail in the warranty registration form on the back page within 10 days of purchase.

We wish you many happy years of heating with your new
GloKing pellet stove.

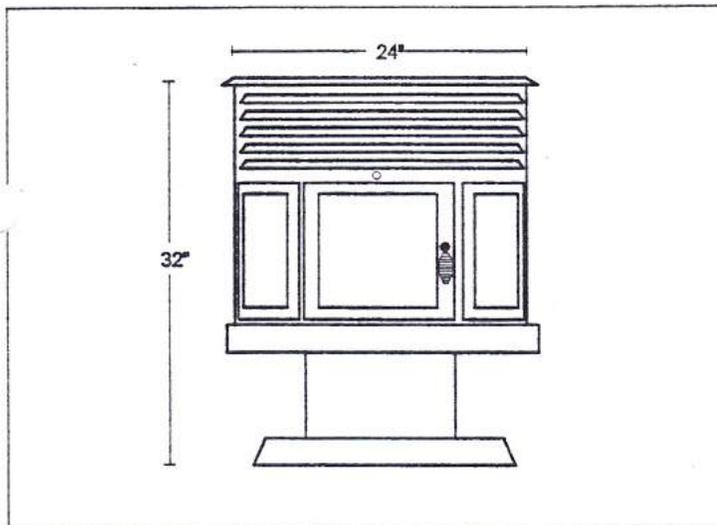


Golden Glo Model P100-F Large Free Standing Pellet Stove

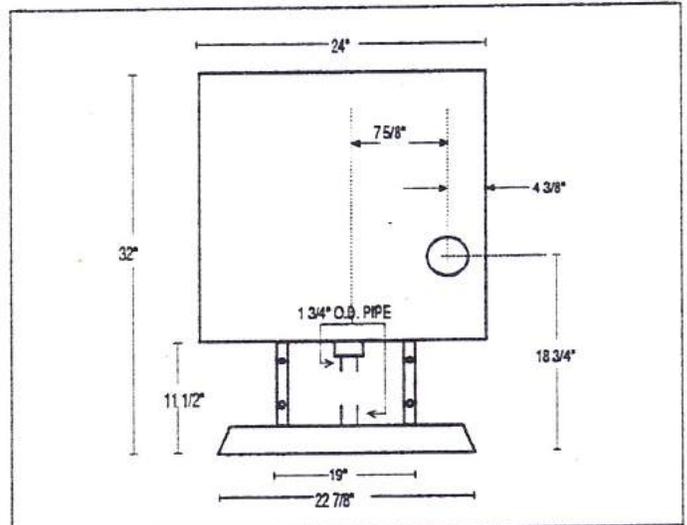


P100-F Side View

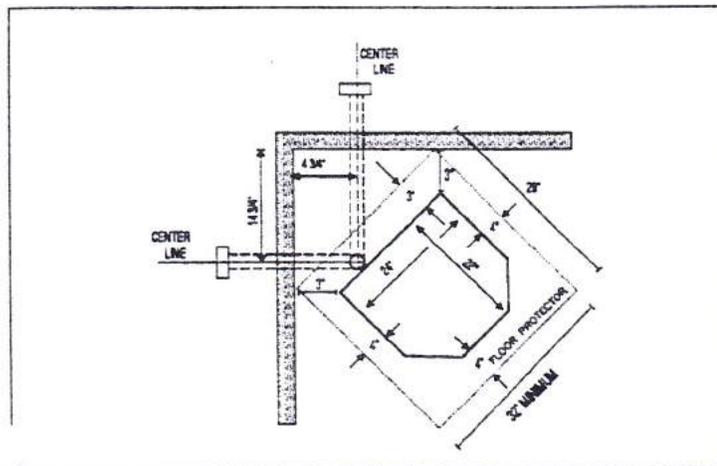
Table of Specifications	
Height	32"
Width	24"
Depth	22"
Weight (lb.)	282 lb.
Chimney Size	3"
Hopper Capacity	45 lb.
BTU Output	5,673 – 37,024
Approx. Pellet Input Usage	.9 to 5.5 lbs per hour



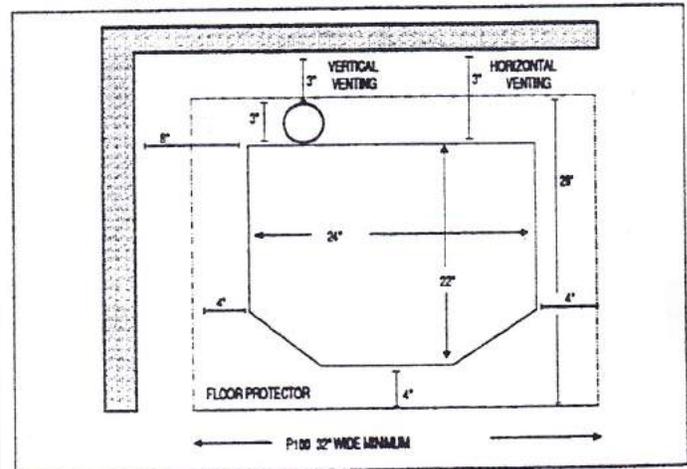
P100-F Front View



P100-F - Back View - Combustion (Exhaust) Outlet



P100-F Corner Installation Minimum Clearances

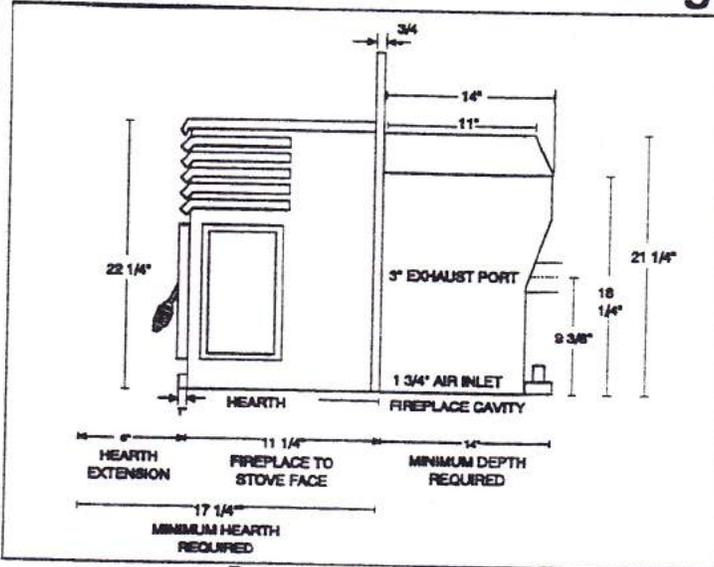


P100-F Sidewall / Backwall Clearances



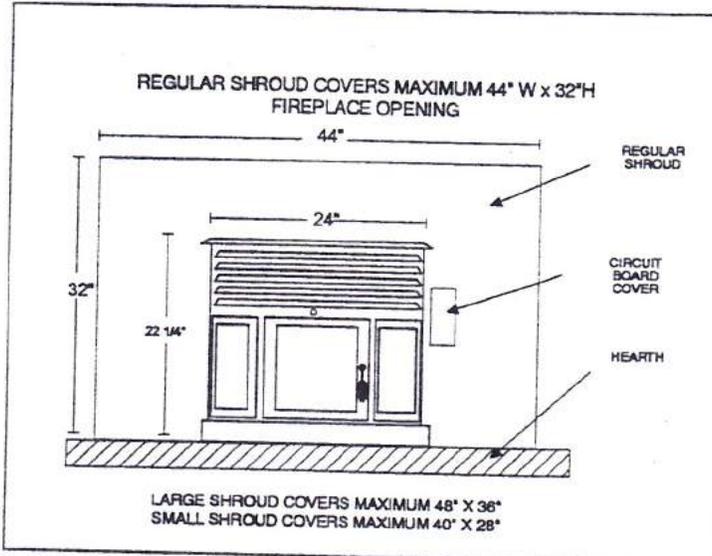
QUICK REFERENCE

Golden Glo Model P100-I Large Fireplace Insert

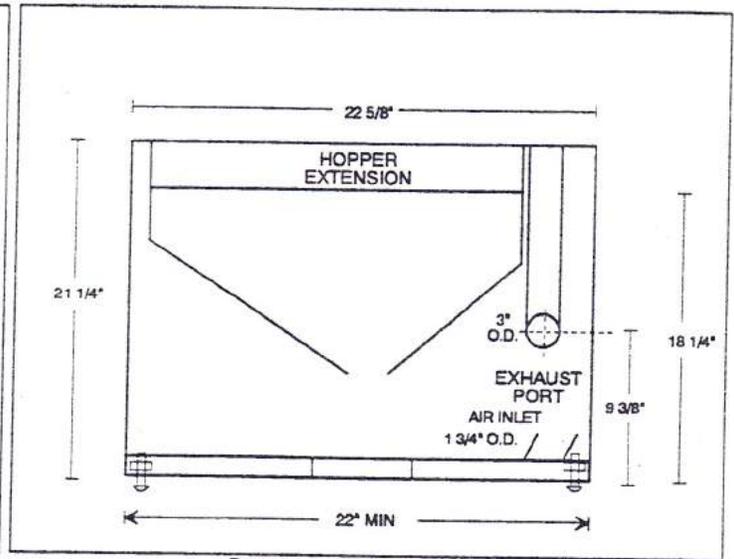


P100-I Insert - Side View

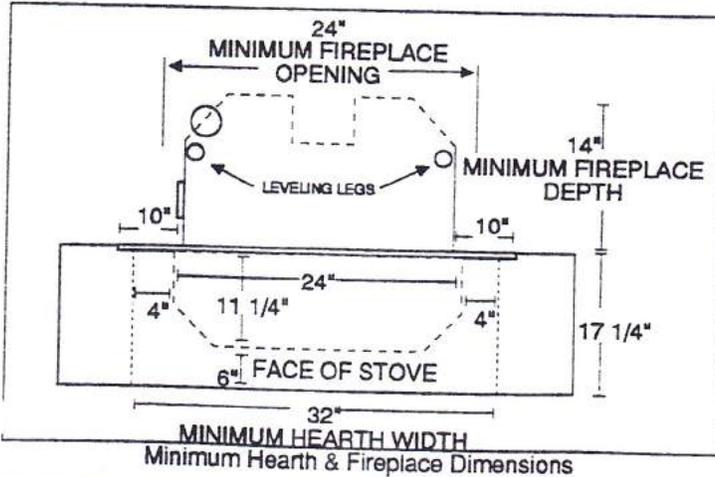
Table of Specifications	
	Width
Height (on hearth)	22 1/4"
Extensions onto Hearth	12 1/4"
Depth into Fireplace	14"
Weight	282 lbs
Chimney Size	3"
Regular Hopper	42 lbs
Extended Hopper	60 lbs
BTU Output	5,673 - 37,024
Approx. Pellet Input Usage	.9 to 5.5 lbs per hour



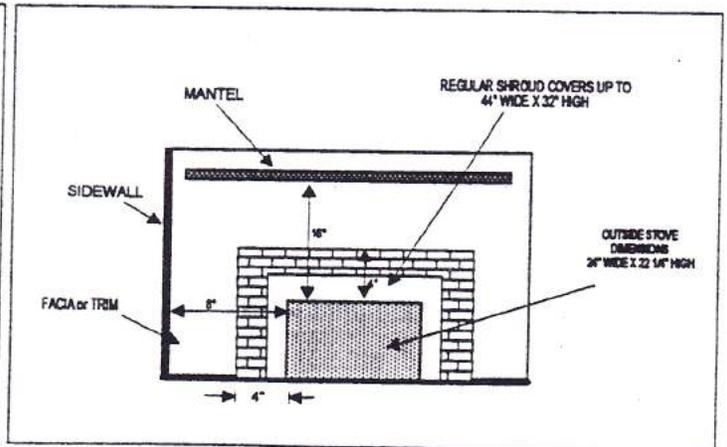
P100-I - Front View



P100-I - Insert - Back View



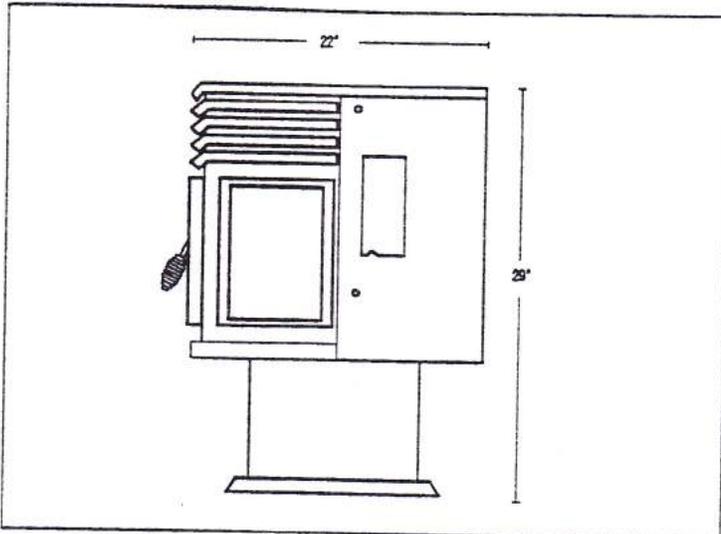
Minimum Hearth & Fireplace Dimensions



Clearance to Combustibles

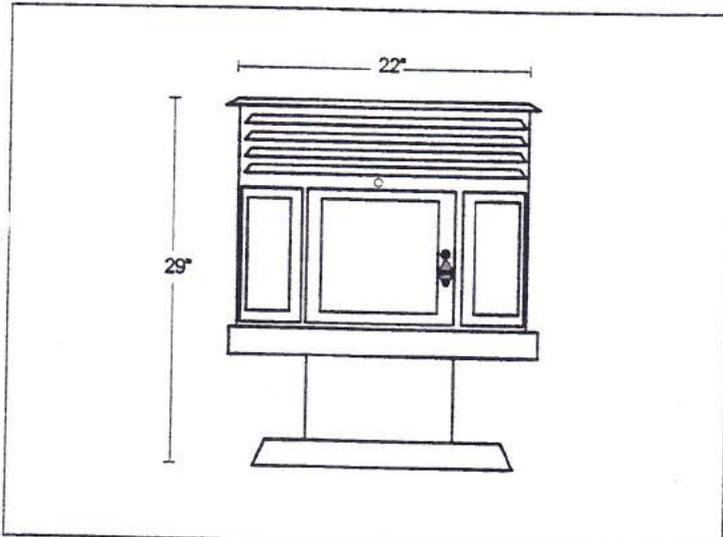


Golden Glo Model P75-F Medium Free Standing Pellet Stove

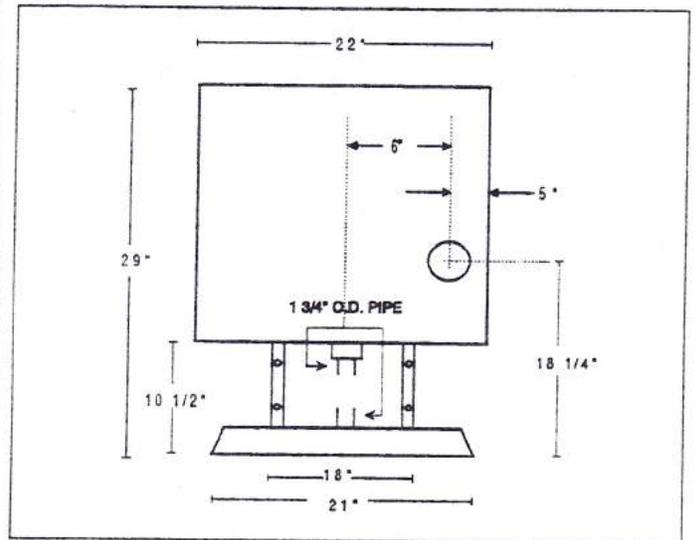


P75-F - Side View

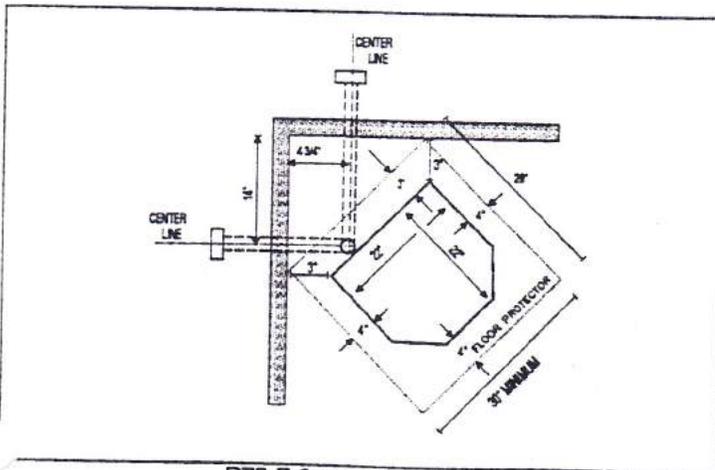
Table of Specifications	
Height	29"
Width	22"
Depth	22"
Weight (lb.)	241 lb.
Chimney Size	3"
Hopper Capacity	35 lb.
BTU Output	5,225 - 24,185
Approx. Pellet Input Usage	.8 to 3.6 lbs per hour



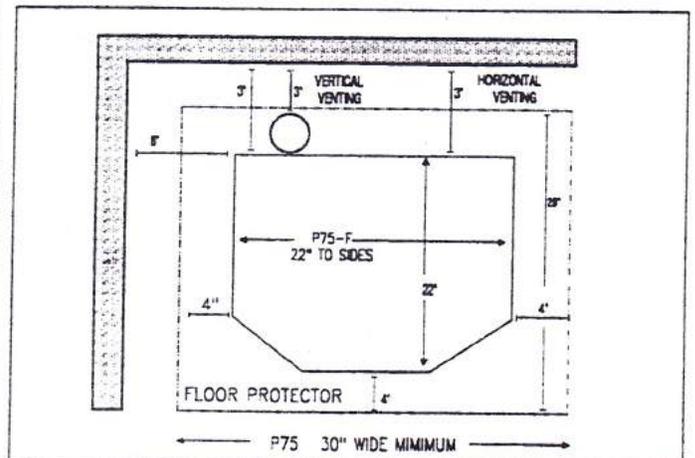
P75-F - Front View



P75-F - Back View / Combustion (Exhaust) Outlet



P75-F Corner Installation



P75-F Sidewall / Backwall Clearances



Quick Reference

This section is included only for a quick reference to the operation of your Golden Glo Pellet Stove.

Please read this entire manual before installation and use of this pellet fuel burning room heater.

DO'S:

- Do comply with federal, state and local codes.
- Do obtain a permit, if required in your area, to ensure a safe and legal installation.
- Do check with a reputable and licensed contractor when having your stove and chimney installed.
- Do install vent at clearances specified by the vent manufacturer.*

DON'TS: SAFETY PRECAUTIONS

- DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.**
- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.**
- FOR UNITS TO BE INSTALLED IN MANUFACTURED HOMES; DO NOT INSTALL IN SLEEPING ROOM. CAUTION: THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.**

- NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO 'FRESHEN UP' A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IT IS IN USE.**
- CAUTION: MOVING PARTS MAY CAUSE INJURY. DO NOT OPERATE UNIT WITH THE SIDE PANELS REMOVED.**
- DANGER: RISK OF ELECTRICAL SHOCK. DISCONNECT POWER BEFORE SERVICING UNIT.**
- THIS STOVE IS HOT WHEN OPERATING. CARE IS REQUIRED TO AVOID SERIOUS BURNS.**

PRE-START CHECKLIST

- USE THE SCRAPER TOOL PROVIDED TO SCRAPE THE HEAT EXCHANGER TUBES
- CLEAN THE TWO BAFFLES UP UNDER THE HEAT TUBES
- CLEAN THE COMBUSTION CHAMBER
- CLEAN FIREPOT
- CLEAN DOOR AND GLASS
- CHECK HOPPER
- CHECK OVERALL CONDITION

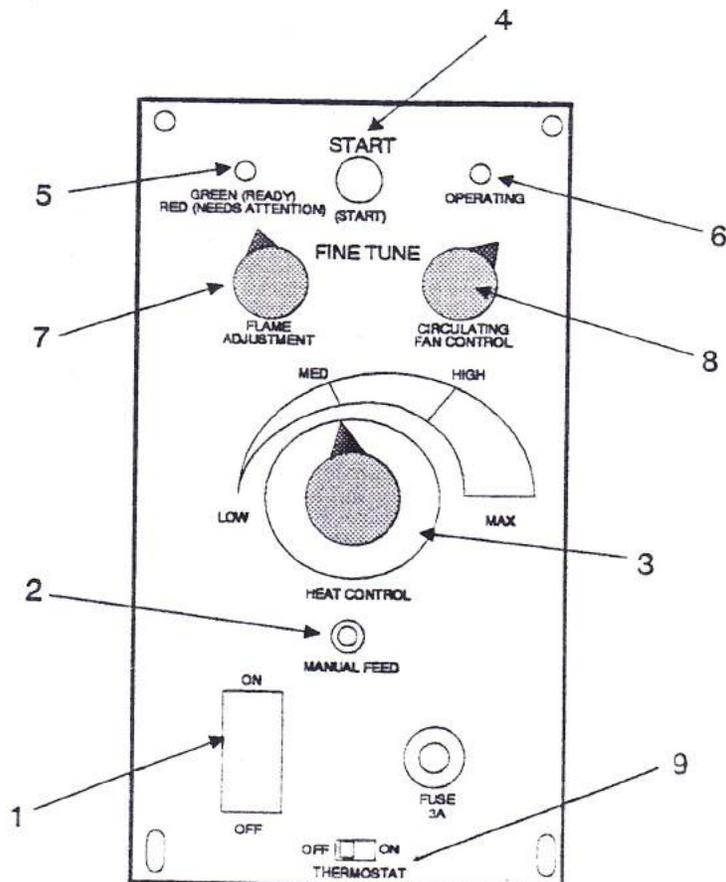
START-UP PROCEDURES:**STARTING INSTRUCTIONS**

- Follow pre-start checklist.
- Place thermostat **ON-OFF slider switch** to the desired mode.
- Fill **burn pot** one half to three quarters full with pellets.
Apply an adequate but reasonable amount of approved fire-starter (gelled alcohol type preferred) on pellets, then put a few more pellets on top of the firestarter.
- Turn **ON-OFF** switch to "ON".
- Turn **heat control switch** to the desired setting. **NOTE:** For best results, set to **medium** until pellets are feeding and the convection blower comes on.
- Ignite pellets.
- Close door.

- Press the "**Activate Pellets**" (**Start**) button (the green light indicating a ready condition should come on but pellets will not start feeding until the proper operating temperature is achieved which will be displayed by the pulsating yellow light). **NOTE:** It may take 10-15 minutes for pellets to start feeding.
- Set **fine-tune adjustments** (flame and circulating fan) for desired performance.
- If **unit doesn't start:** review owners manual, instructions and retry procedures.

SHUT OFF INSTRUCTIONS

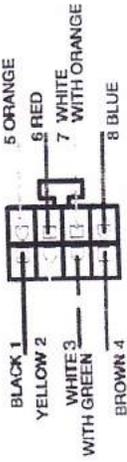
- Turn **ON-OFF** switch to "OFF".
- The **auger will stop feeding** pellets but both blowers will continue to operate until the unit has achieved the proper cool down status. This may take 30-90 minutes for both blowers to stop.

**Consumer Control:**

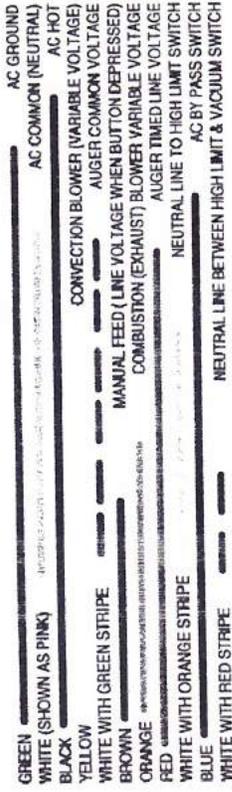
1. On/Off
2. Manual Feed Option
3. Heat Selection
4. Start (press Initialize button)
5. Red light turns green to indicate ready
6. Auger motor operating Amber light comes on (light comes on only when auger feeds)
7. Fine Tune Flame (for variations in fuel, chimney resistance & line voltage)
8. Fine Tune Fan (personal choice)
9. Thermostat Selection

NOTE: See electrical and operating section for complete details.

8 POSITION MOLEX ON WIRING HARNESS AS VIEWED FROM END



GLO KING STOVES COLOR CODE

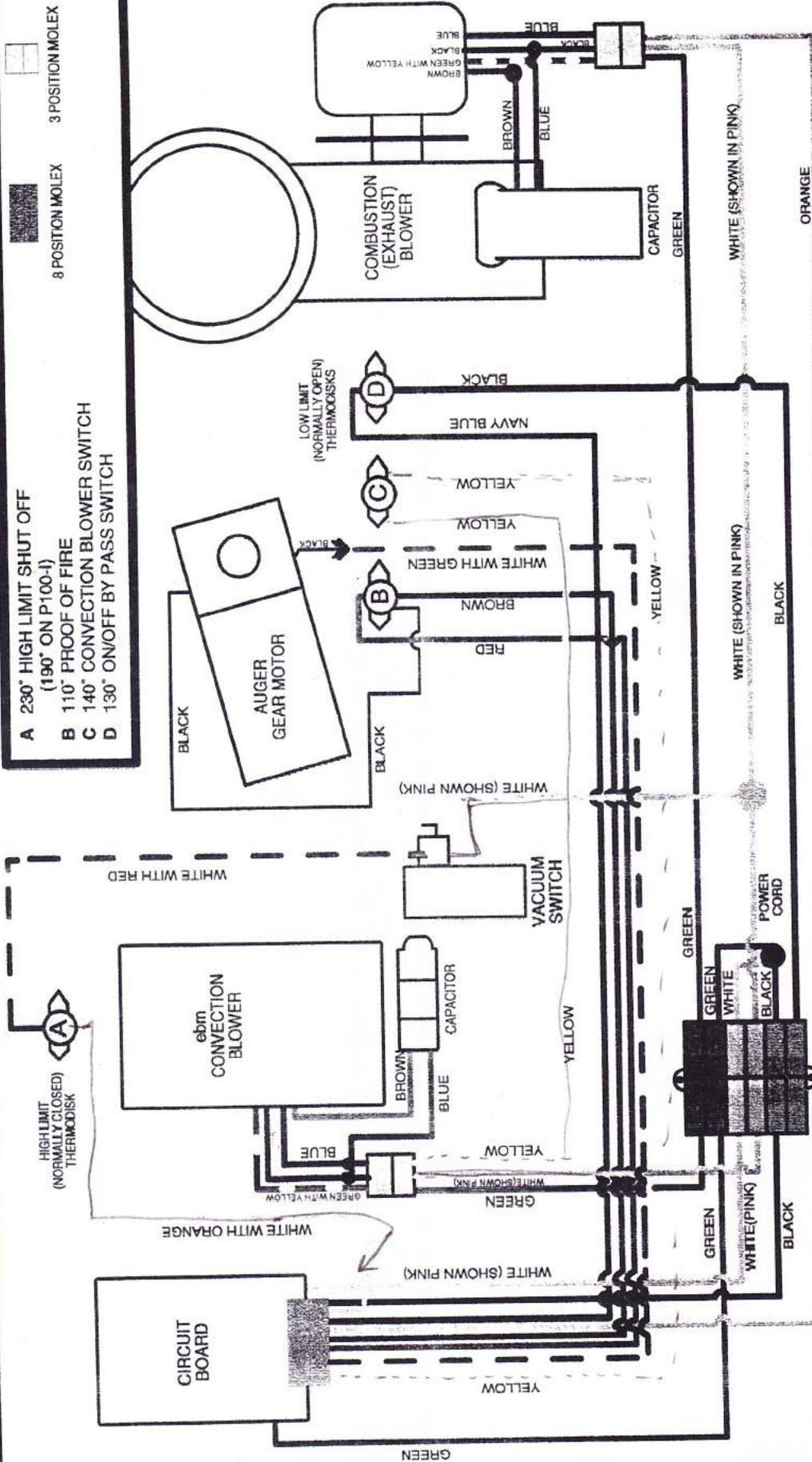


3 POSITION MOLEX AS VIEWED FROM WIRING HARNESS INLET



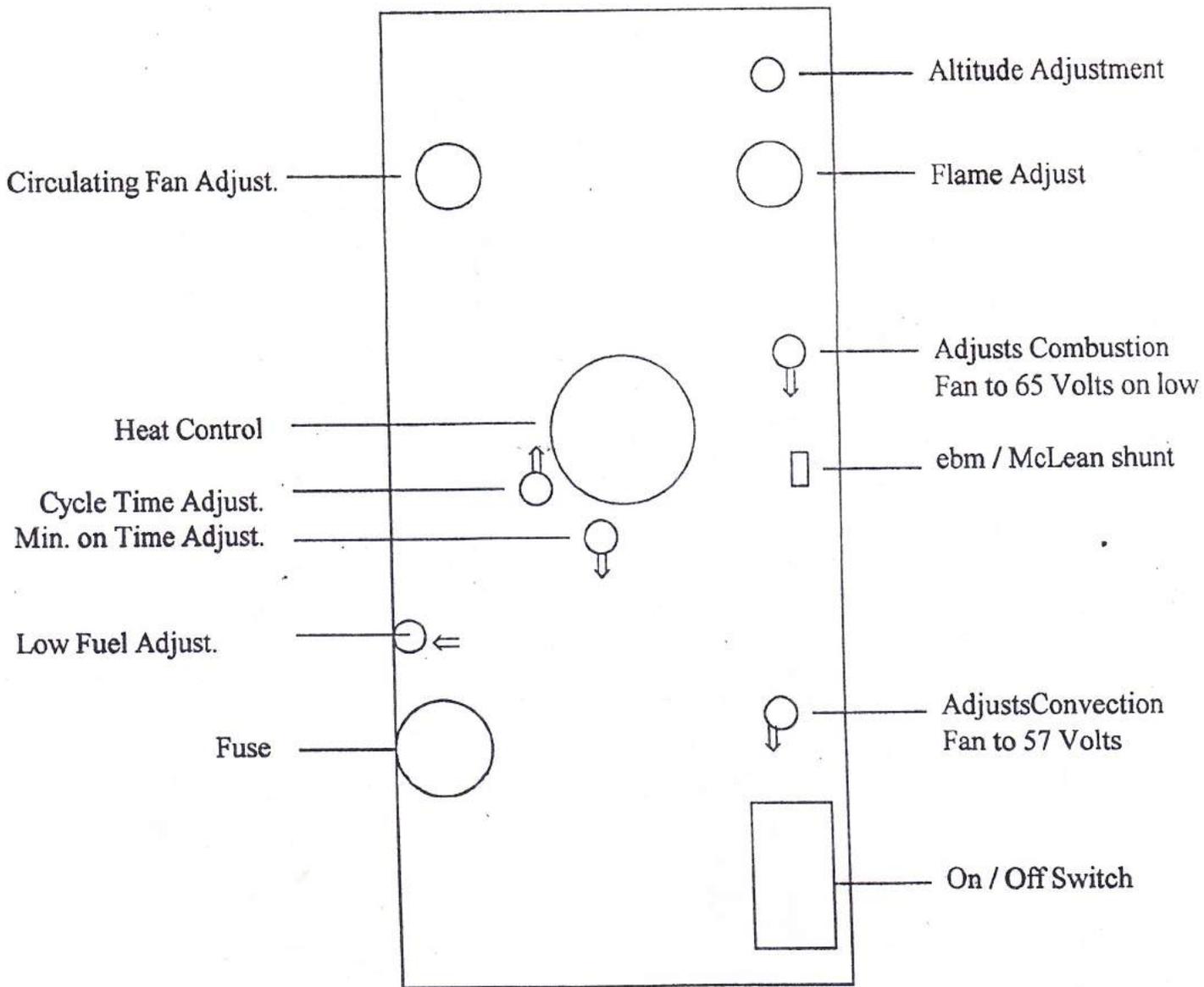
8 POSITION MOLEX 3 POSITION MOLEX

- A 230° HIGH LIMIT SHUT OFF (190° ON P100-I)
- B 110° PROOF OF FIRE
- C 140° CONVECTION BLOWER SWITCH
- D 130° ON/OFF BY PASS SWITCH



ORTEC
640-1607

Trim Pot Locations (Reverse Board Side Perspective)



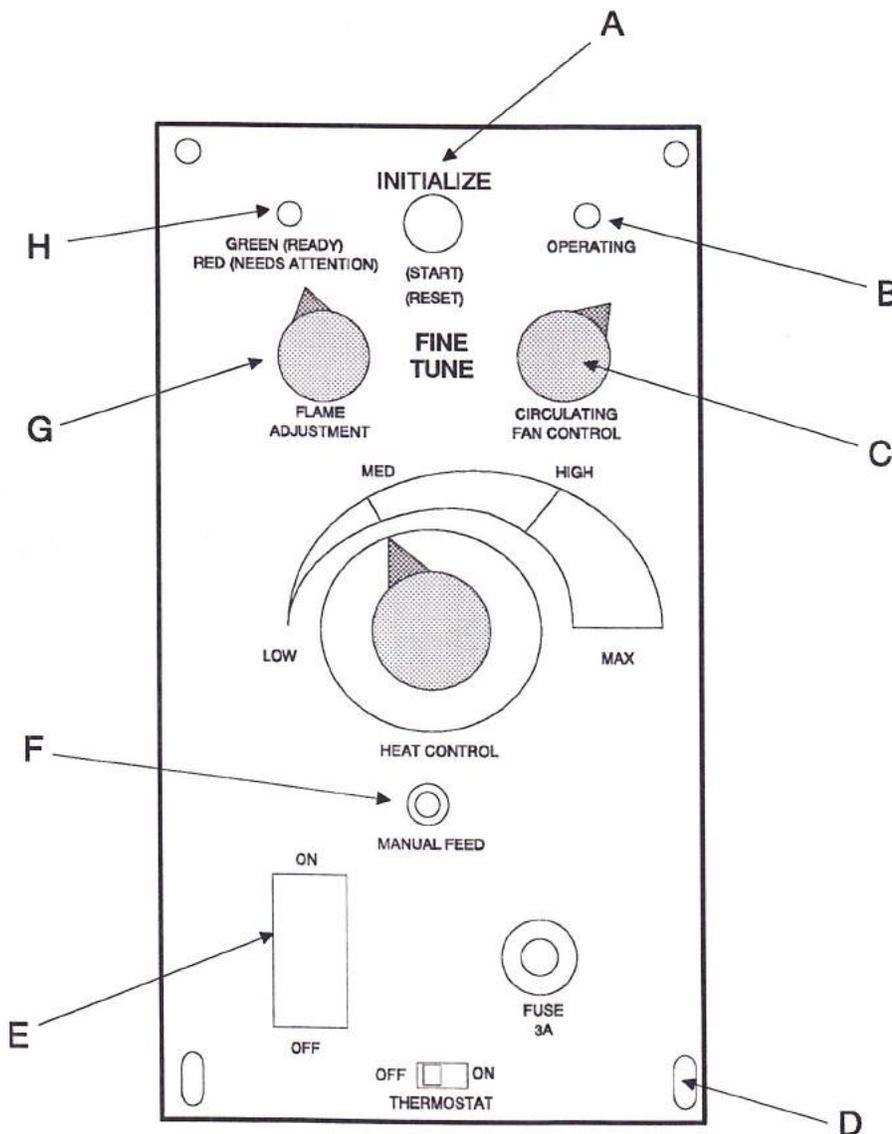
↕↔↕ = Facing direction for the trim pot.

GOLDEN GLO CIRCUIT BOARD CONTROL PANEL OPERATING FEATURES

FUSE FOR SAFETY

A 3 amp fuse is used to protect the user from an electrical malfunction. The P 100 and P 75 model stoves are quite economical to operate since they only use 177 watts of power at the maximum burn rate.

P100 and P75 Series Control Board



A. Start Button

B. LED Light

Yellow Pulsating - Auger rotating senses manual feed activation as well as timing circuit on time.

C. Fine Tune Adjustment of Convection Blower from predetermined setting.

D. Oblong Mounting Holes to alleviate stress on board due to alignment of screw holes.

E. Rocker Switch (on/off)

F. Manual Feed: spring loaded and must be held to dispense pellets.

G. Fine Tune Adjustment of Combustion Air +/- 5% of predetermined voltage to exhaust or combustion blower.

H. Combination (green/red) LED Light:

RED: (Power is on, but needs user attention)

GREEN: (Ready) indicates power available to auger.

Consumer Control:

1. On/Off
2. Manual Feed Option
3. Heat Selection
4. Start (press Initialize button)
5. Fine Tune Flame (for variations in fuel, chimney resistance & line voltage)
6. Fine Tune Fan (personal choice)
7. Select thermostat option

Dealer (Installer) Adjustments on Back of Circuit Board:

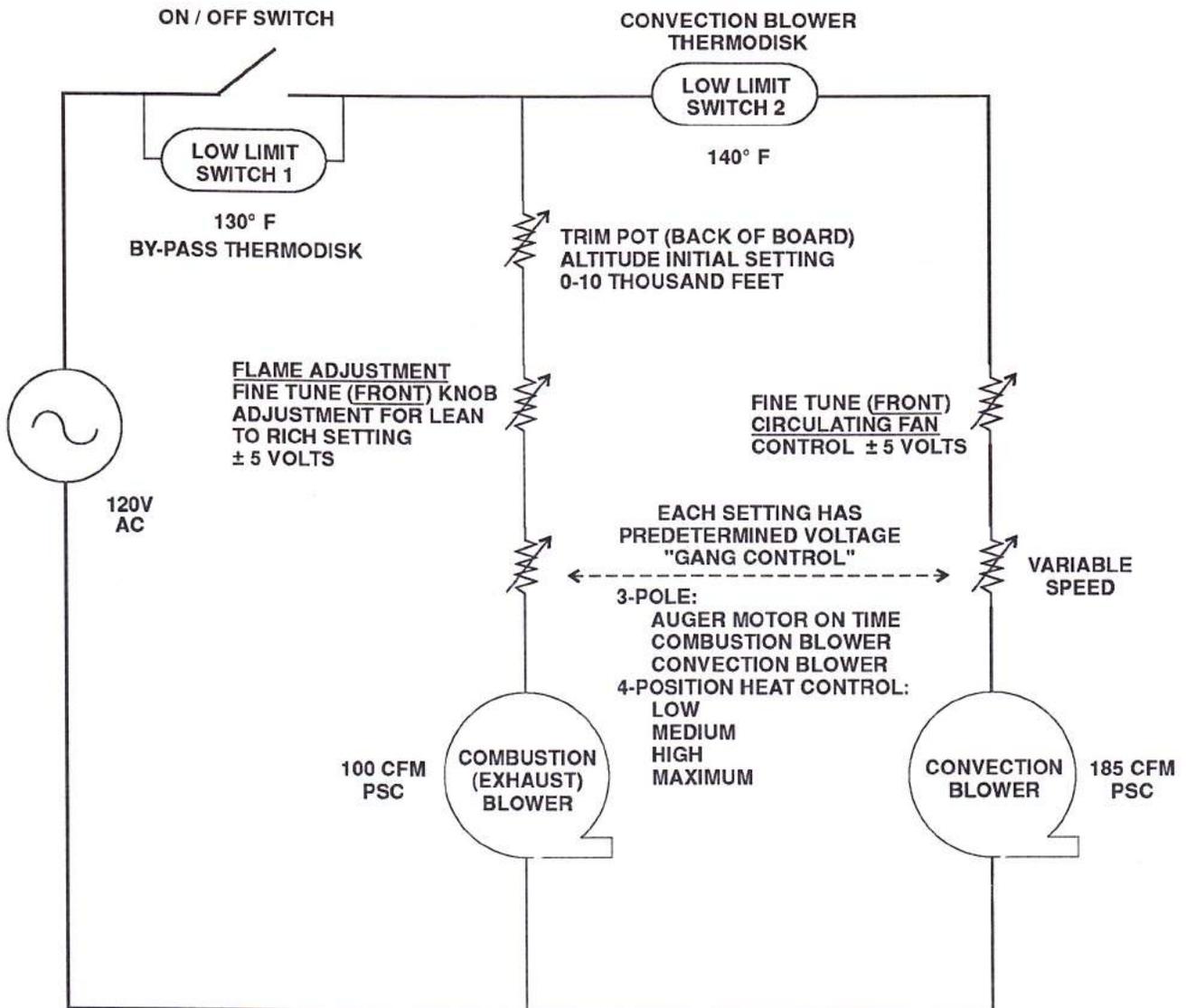
Thermostat Option: 2 connecting screws and on/off slider switch

Low Feed Rate Adjustment: Low setting only approximately .8-1.75 lb/hr.

Altitude Setting: Predetermined compensating voltage to combustion air blower 0-10 thousand feet indicator.



COMBUSTION & CONVECTION BLOWER CONCEPT DIAGRAM



PSC means **PERMANENT SPLIT CAPACITOR** motor (very efficient).

LOW LIMIT SWITCH 1 THERMODISK keeps both the combustion (exhaust) blower and convection blower on (until cool down) when **OFF** switch is activated.

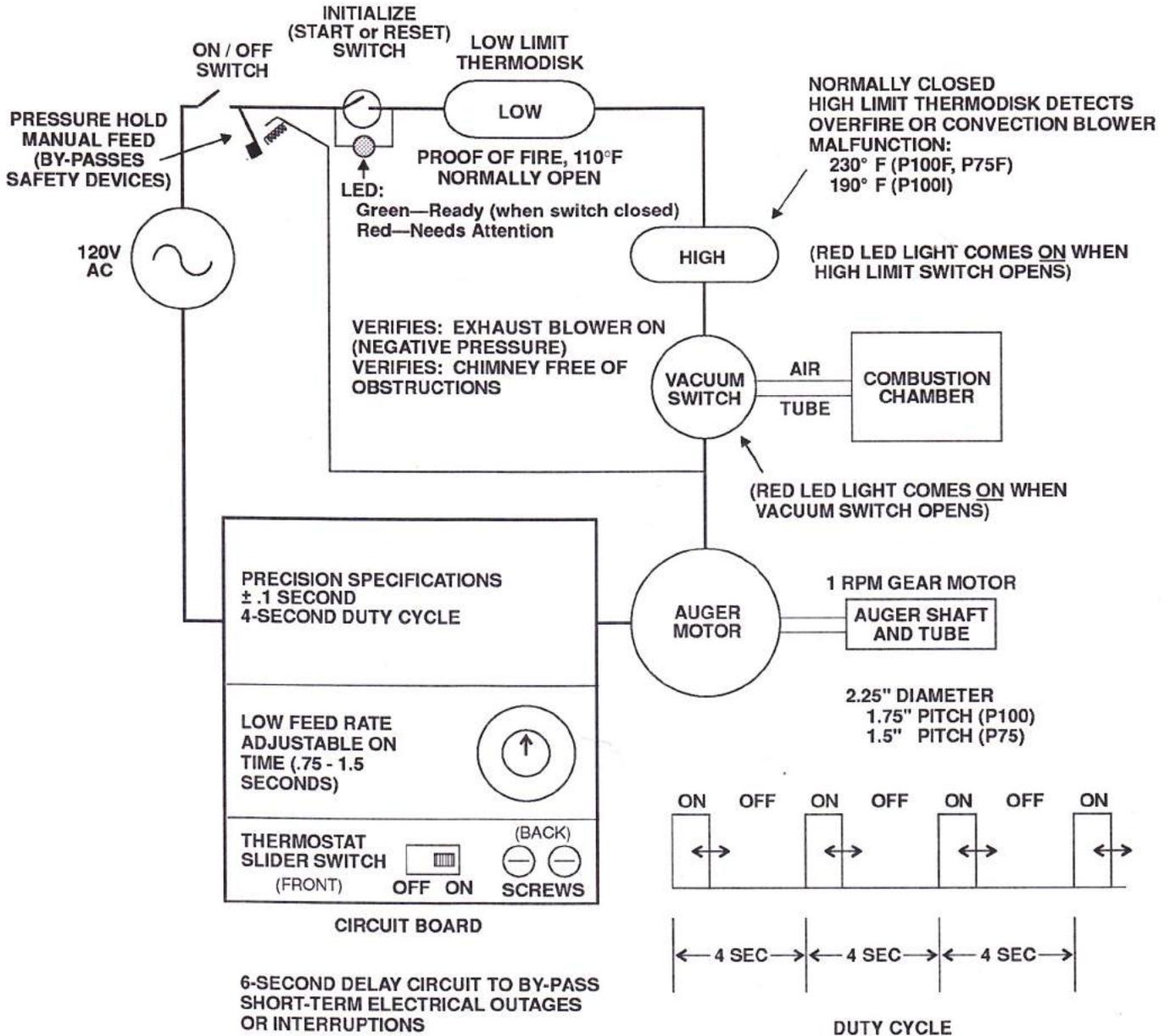
LOW LIMIT SWITCH 2 THERMODISK does not allow convection blower to come on until operating temperature is achieved. Also shuts down first on shutdown. Blower will not come on after electricity loss & back on.

FINE TUNE ADJUSTMENTS: predetermined allowable range.

FLAME ADJUSTMENT: allows consumer to vary the combustion blower to compensate for chimney configuration restrictions, variations in fuel moisture and/or density, plus line voltage changes.

CIRCULATING FAN ADJUSTMENT: allows consumer to fine tune the convection fan for desired speed.

FUEL SYSTEM CONCEPT DIAGRAM

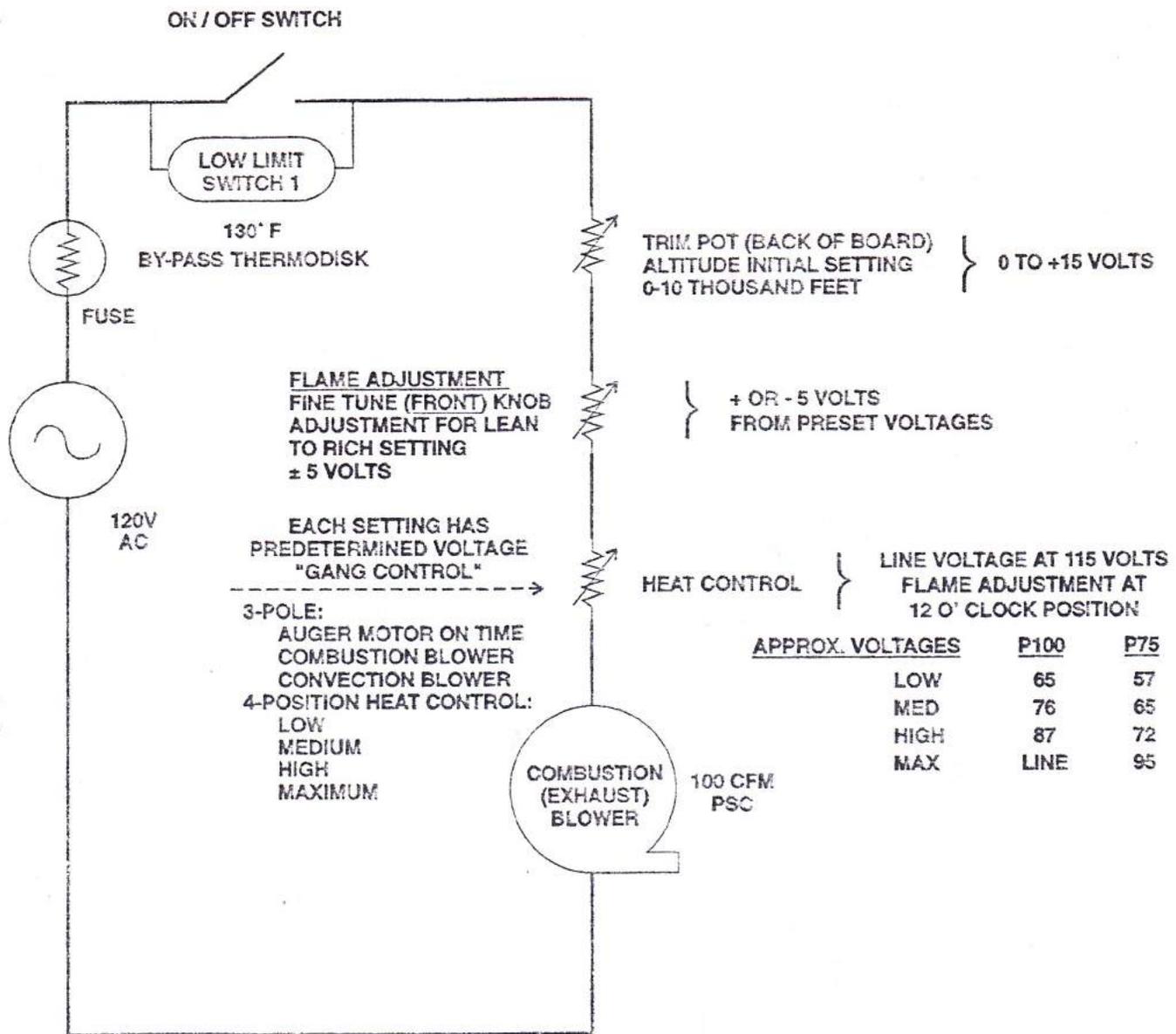


INITIALIZE (START or RESET) BUTTON: Normally closed (after activation); open (red LED light on) when high limit switch opens or vacuum switch opens. Red light also on when stove is in by-pass mode.

Note: Pellets will not be dispensed until all safety conditions are met and the consumer resets the INITIALIZE (START or RESET) button (green LED light).

All safety devices are wired in series (and logic). All correct conditions must be met before pellets can be dispensed. Instant shutdown (no pellets fed) occurs if any adverse condition is detected.

COMBUSTION BLOWER CONCEPT DIAGRAM



PSC means PERMANENT SPLIT CAPACITOR motor (very efficient).

LOW LIMIT SWITCH 1 THERMODISK keeps both the combustion (exhaust) blower and convection blower on (until cool down) when OFF switch is activated.

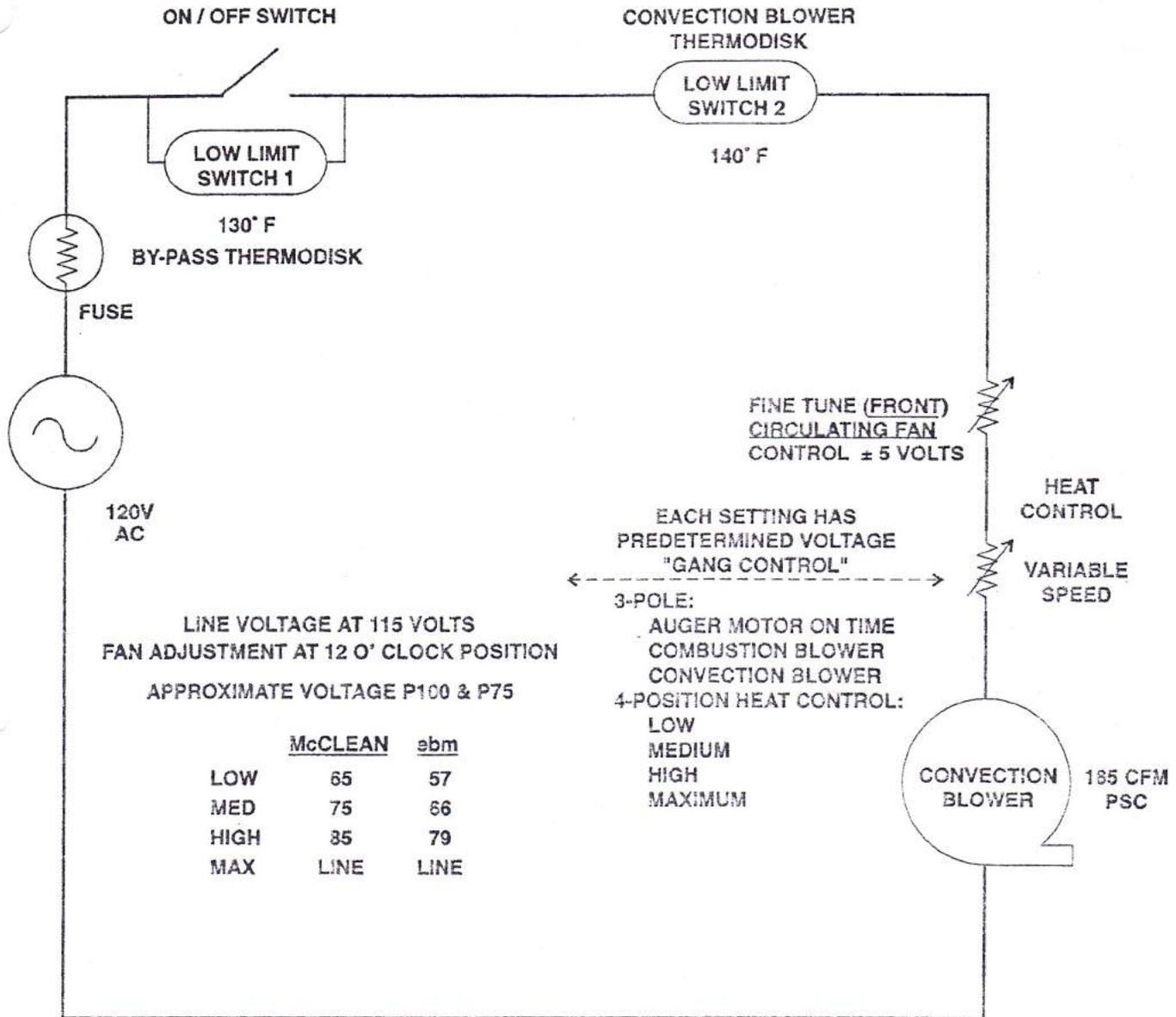
FINE TUNE ADJUSTMENTS: predetermined allowable range.

FLAME ADJUSTMENT: allows consumer to vary the combustion blower to compensate for chimney configuration restrictions, variations in fuel moisture and/or density, plus line voltage changes.

GloKing
America's getting the Glo

1770 Laurel Street • P.O. Box 179 • Florence, OR 97439 • 503/997-2666 • FAX 503/997-8986

CONVECTION BLOWER CONCEPT DIAGRAM



PSC means PERMANENT SPLIT CAPACITOR motor (very efficient).

LOW LIMIT SWITCH 1 THERMODISK keeps both the combustion (exhaust) blower and convection blower on (until cool down) when OFF switch is activated.

LOW LIMIT SWITCH 2 THERMODISK does not allow convection blower to come on until operating temperature is achieved. Also shuts down first on shutdown. Blower will not come on after electricity loss & back on.

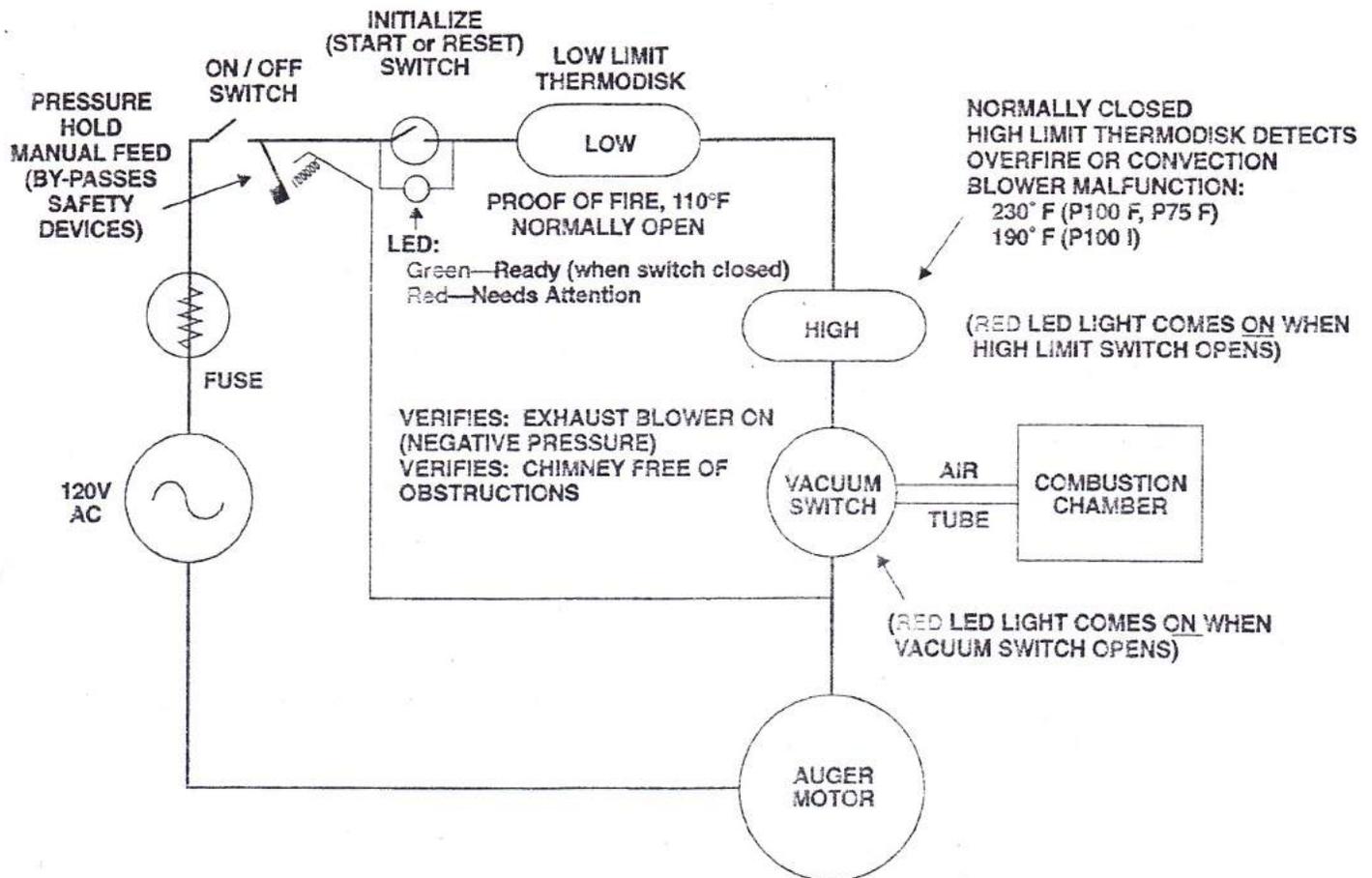
FINE TUNE ADJUSTMENTS: predetermined allowable range.

CIRCULATING FAN ADJUSTMENT: allows consumer to fine tune the convection fan for desired speed.



1770 Laurel Street • P.O. Box 179 • Florence, OR 97439 • 503/997-2666 • FAX 503/997-8986

SAFETY CIRCUIT CONCEPT DIAGRAM

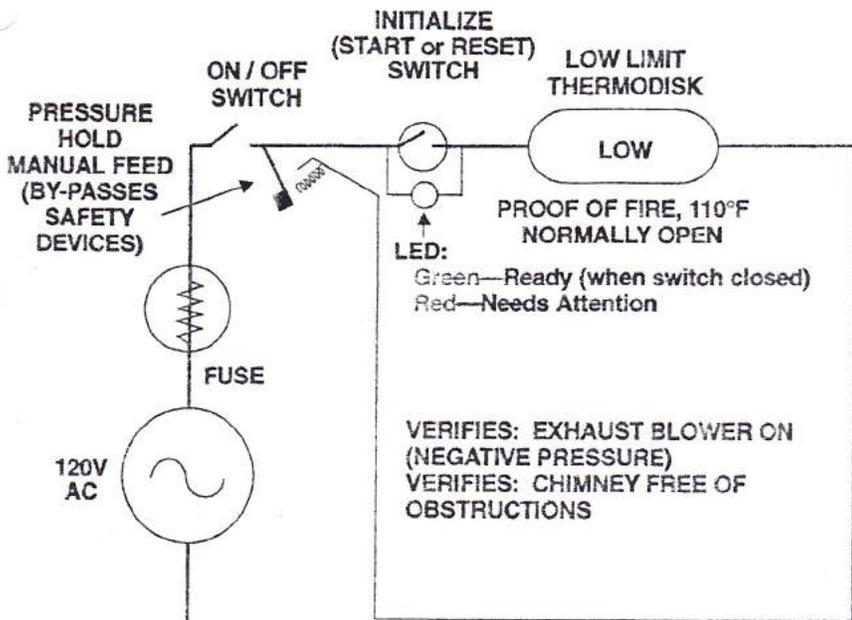


INITIALIZE (START or RESET) BUTTON: Normally closed (after activation); open (red LED light on) when high limit switch opens or vacuum switch opens. Red light also on when stove is in by-pass mode.

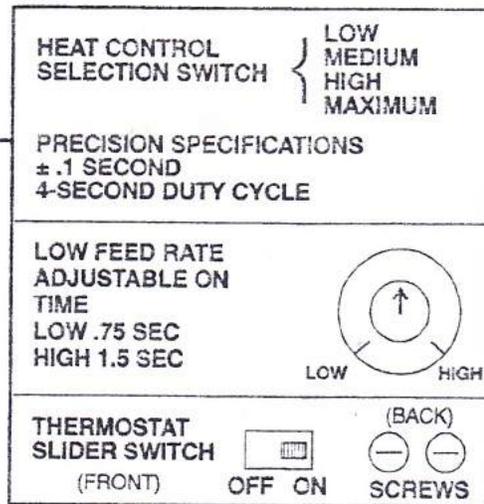
Note: Pellets will not be dispensed until all safety conditions are met and the consumer resets the INITIALIZE (START or RESET) button (green LED light).

All safety devices are wired in series (and logic). All correct conditions must be met before pellets can be dispensed. Instant shutdown (no pellets fed) occurs if any adverse condition is detected.

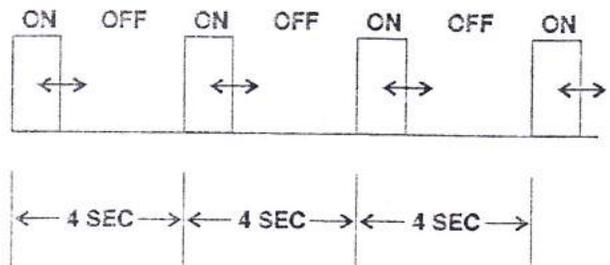
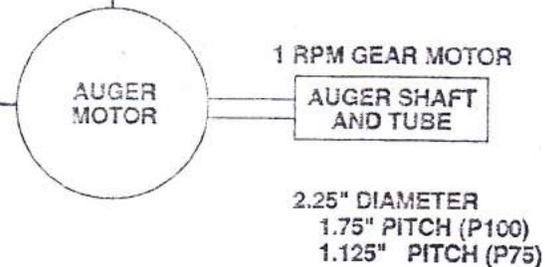
FUEL SYSTEM CONCEPT DIAGRAM



AUGER TIMING ON TIME	POUNDS PER HOUR	
	P100 1.75" PITCH	P75 1.125" PITCH
4 SEC DUTY CYCLE ON TIME (SEC)		
LOW .75 - 1.5	.84 LOWEST	.77 LOWEST
MEDIUM 1.75	2.51	1.72
HIGH 2.50	3.10	2.17
MAXIMUM 4.00 (CONTINUOUS FEED)	5.46	3.56



CIRCUIT BOARD



DUTY CYCLE

6-SECOND DELAY CIRCUIT TO BY-PASS SHORT-TERM ELECTRICAL OUTAGES OR INTERRUPTIONS

INITIALIZE (START or RESET) BUTTON: Normally closed (after activation); open (red LED light on) when high limit switch opens or vacuum switch opens. Red light also on when stove is in by-pass mode.

Note: Pellets will not be dispensed until all safety conditions are met and the consumer resets the INITIALIZE (START or RESET) button (green LED light).

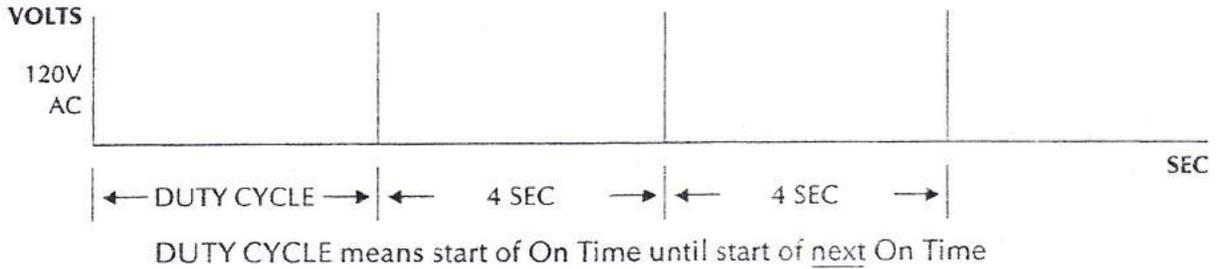
All safety devices are wired in series (and logic). All correct conditions must be met before pellets can be dispensed. Instant shutdown (no pellets fed) occurs if any adverse condition is detected.



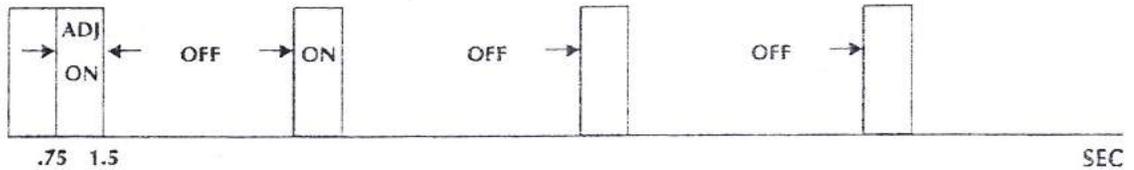
1770 Laurel Street • P.O. Box 179 • Florence, OR 97439 • 503/997-2666 • FAX 503/997-8986

CIRCUIT BOARD AUGER TIMING SYSTEM

Analog logic, on-off auger rotation, duty cycle (fixed)
 4-sec duty cycle, 1 revolution per minute (RPM) gear motor
 "On Time" indicated by yellow LED light



LOW: "variable" (adjustable) on time for low feed rate only

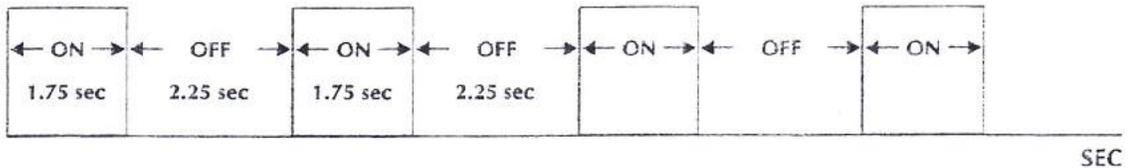


Low feed rate On Time adjustable .75 sec - 1.5 sec

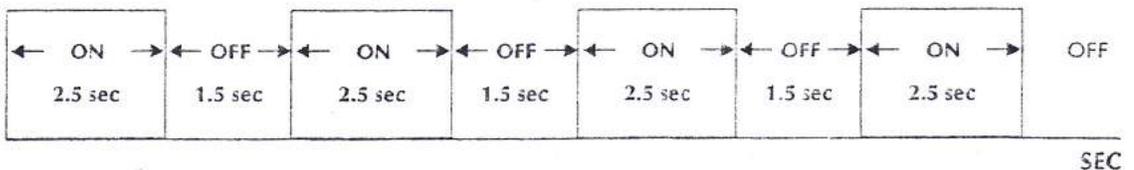
"Approximate": .8 lbs/hr to 2 lbs/hr (40+ lbs/cubic ft density) on P100

"Approximate": .7 lbs/hr to 1.5 lbs/hr (40+ lbs/cubic ft density) on P75

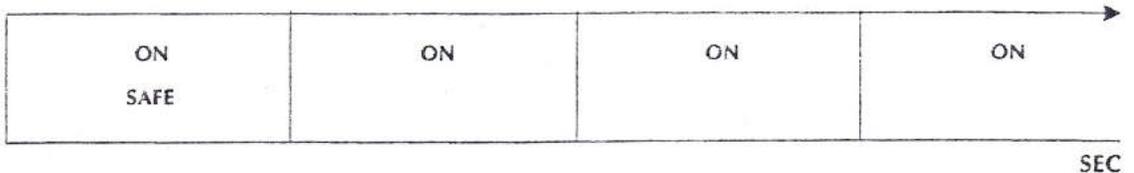
MEDIUM: 1.75 sec On Time is approximately 2.5 lbs/hr (P100); 1.7 lbs/hr (P75)



HIGH: 2.5 sec On Time is approximately 3.1 lbs/hr (P100); 2.3 lbs/hr (P75)



MAXIMUM: continuous On Time - approximately 5.5 lbs/hr (P100); 3.5 lbs/hr (P75)



GloKing

America's getting the Glo

1770 Laurel Street • P.O. Box 179 • Florence, OR 97439 • 503/997-2666 • FAX 503/997-8986