Model: A1108 Tradition

OWNER'S MANUAL



CAUTION:

Read all instructions carefully before starting the installation or operating the heater. Failure to follow these instructions could result in property damage, bodily injury or even death. Contact local building or fire officials about restrictions and installation inspection requirements in your area. Save this manual for future reference.

www.pelletstove.ca

Lithoid in Canada Rev Apr 2008

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CAUTION: Stove has moving parts. Disconnect power before servicing.

Table Of Contents

I. SAFETY FIRST!!!	
II. INSTALLATION	7
1. Clearance to Combustibles	
1.1 Installation Clearances	
1.2 Other Clearances and Recommendations	
2. Electrical Requirements	10
3. Fuel Requirements	10
3.1 Physical Properties	
3.2 Fuel Storage	
4. Location of the Heater	11
5. Typical Installation Configurations	11
6. Venting System 6.1 Exhaust Vent Pipe Requirements	12
6.2 Exhaust Vent Pipe Requirements	
6.3 Combustion Air Intake Requirements	13
6.3 Comoustion Air Intake Requirements	14
7. Mobile Home Additional Installation Requirements	13
7.1 Typical Moone Home Installation Configuration	
7.2 Recommendations for Mobile Home Installation	10
7.3 Mobile Home Combustion Air Intake Requirements	10
7.4 Exhaust vent Requirements	10
III. OPERATION	
1. General overview	
2. Safety features	
4. MX2TM Control	
4.1 Basic Description	
4.2 "AUTO, HIGH/LOW, MANUAL Switch"	18
4.3 "ON/OFF" Button	
4.4 "HEAT SELECT" Button & Bar Graph	19
4.5 "AUGER" Button	
4.6 "FAN" Button	
4.7 "TRIM" Button	
4.8 Wall thermostat, wall switch or other switching device.	
4.9 Damper Control	
4.10 Starting (lighting) your Heater for the First Time	21
4.11 Starting (lighting) your Heater	21
4.12 Stopping your Heater	
4.13 Adjusting your Heater	22
IV. MAINTENANCE & CLEANING	
V. TROUBLE SHOOTING GUIDE	
1. Trouble Shooting	
2. Corrective Actions	
2.1 Proof Of Flame Failure	
2.2 Pressure Switch Failure	
2.3 Manual Reset Thermal Disk Failure	29
2.4 Ignition Failure	30
2.5 Overheating	
2.6 Lack of Air.	
2.7 Excess air.	
VI. DIAGRAMS AND PARTS LIST	
1. KOZI MX2TM Control Circuit Diagram	
2. Stove Cross Section	
3. Equipment Compartment	
4. Parts List	
VII. WARRANTY	37

I. SAFETY FIRST!!!

This heater is suitable for both mobile home and conventional home installation. Read all instructions carefully before starting installation. Save this manual for future reference.

- Read these instructions carefully. Failure to follow them could cause a malfunction of the heater, damage to the heater, property damage, bodily injury or even death.
- Familiarize yourself with the heater's operation. (See "Operation" section)
 If you are not sure, ask your dealer for explanations on your heater's
 proper operation.
- 3. The burn pot of this heater is designed to burn premium grade wood pellets. Pellets with too much fines and saw dust must be screened before use. <u>DO NOT USE WET PELLETS</u>. Refer to the "Fuel Requirements" section for more information.
- Oil the circulation fan motor bearings every 6 months. See "Maintenance" section for more details.
- Check your local building codes regarding restrictions or installation requirements. All installations must comply with local building codes.
- 6. This heater requires a floor protector beneath the heater and extending a minimum of 6 inches (150mm) in front of the heater. This is to catch any spillage which may occur during opening and closing of the doors. See figure 1 for more information.
- 7. Use only UL/ULC listed Type PL or Type L venting for the exhaust system. This heater is designed for use with 3-inch (76 mm) vent pipe. Avoid long runs and too many bends. It may be necessary to increase the size of the vent pipe to 4 inch (102 mm) if long runs and too many bends are unavoidable. See "Venting System" section for more information.
- 8. Combustion of wood pellet fuel leaves ash in the heater and venting system. These ashes must be removed from the heater and venting on a regular basis (approximately once a week, more frequently for high ash content fuels). See "Maintenance" section for more information. The entire system must also be cleaned at the start of each heating season. A yearly inspection of the venting is highly recommended.

- 9. The heater must be turned off and allowed to cool before cleaning. Make sure there are no hot ashes or embers present. Use a brush and scoop to clean. Only use vacuum cleaners specifically designed for use with hot ashes. Place all ashes in a sealed metal container with a tight, non flammable fitting lid.
- 10. Store all pellet fuel in a sealed metal container at a safe distance (at least 36 inches / 1 meter) away from the heater. DO NOT place the fuel within the installation clearances of the stove or within the space needed for ash removal and start up.
- 11. This heater is POWER VENTED. The vent pipes have positive pressure during operation. It is IMPERATIVE that all joints in the venting system be <u>SEALED</u> to prevent any leakage of exhaust gases inside the house. All joints must be sealed using high temperature silicone sealer (RTV). Aluminum tape is not an adequate sealant.
- 12. Use of outside combustion air is highly recommended and is mandatory in mobile home installations. Connect the air intake of the heater to the exterior of the building with a noncombustible metal pipe with a minimum diameter of 2 inches (50 mm) (Use APR Part No AK100). Use of plastic pipe is not permitted.
- 13. This appliance is wired and grounded according to the CSA C22.1 code for Canada and the NFPA 70 code for the USA. Also, this heater meets the fuel burning appliance installation codes NFPA 211 in the USA and CSA B365 in Canada.
- 14. Do NOT operate the heater with the door open. Make sure the door and any other opening in the stove are closed tightly during operation. Inspect the gaskets of the door and other openings periodically to make sure they are in good condition.
- 15. Replace broken or defective components only with parts provided by the manufacturer. See WWW.KOZISTOVES.COM or contact your local dealer to find out how to purchase replacement parts.
- 16. Follow this manual carefully for proper installation. If you are uncertain, call your dealer. Most dealers have qualified and trained installers. We highly recommend the use of their services.

II. INSTALLATION

1. Clearance to Combustibles

1.1 Installation Clearances

Please refer to the following figures for all clearances to combustibles. Please note that these clearances are for your **KOZI** heater only. Each venting manufacturer/supplier has their individual clearances which must also be respected.

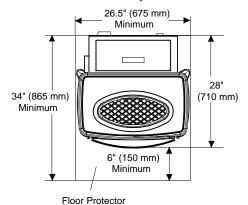


Figure 1. **KOXY** Cast Iron Stove noncombustible floor protector.

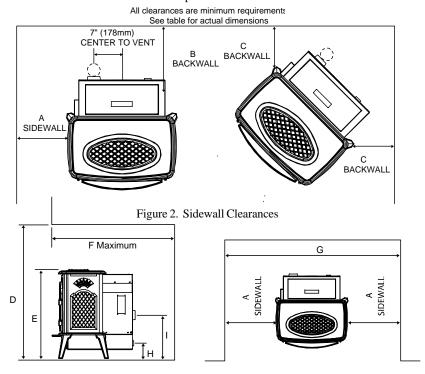


Figure 3. Alcove Clearances

INSTALLATION COMMENT: We recommend sufficient space be provided (minimum 20 inches/500 mm) on each side of the heater to service the equipment area. If this is not possible, a provision must be made to pull the heater out for service.

All dimer	asions are minimum dimension	s unless marked.
Dimension	Description	Previa
А	Unit to side w all or side facing	5" (125 mm)
В	Unit to back w all	1 " (25 mm)
С	Corner of unit to wall	1 " (25 mm)
D	Alcove height	48 " (1220 mm)
E	Overall unit height	30 " (760 mm)
F	Alcove depth (Maximum)	30 " (760 mm)
G	Alcove width	34" (865 mm)
Н	Floor to centerline air intake	5.125 " (130 mm)
I	Floor to centerline exhaust	14.5" (370 mm)
J	Unit to mantle	N/A
К	Unit to top facing	N/A

Table 1. Clearance Dimensions

Additional installation information can be found in the "Typical Installation Configurations" section and your venting manufacturer/supplier's literature.

1.2 Other Clearances and Recommendations

- 1. This heater must be mounted on a noncombustible material, placed underneath the heater and extending a minimum of 6 inches (150 mm) in front of the heater.
- 2. Clearances can ONLY be reduced by means approved by local building or fire officials in your area.
- 3. A safety certification label has been attached to the back of the heater. A sample label is shown here to help you locate this label on your heater. Please read all information on your heater's label. All information on the certification label supersedes any information contained in this manual.



LISTED ROOM HEATER, PELLETIZED FUEL TYPE ALSO FOR USE IN MOBILE HOMES APPAREIL DE CHAUFFAGE RÉPERTORIÉ, À COMBUSTIBLE EN NO. DE SERIE C S GRANULES PEUT ÊTRE UTILISE DANS UNE MAISON MOBILE

DO NOT REMOVE THIS LABEL SER. NO.

MODEL/MODÉLE: KOZI 100 / KSH SERIES TESTED TO: ASTM E1509-95 / UL 1482-1996 ULC S627-00 / ULC S628-M93

REPORT NO/NO. DE RAPPORT: 6437 (JULY/JUILLIET 1992) ÉPROUVÉ POUR RÉPONDRE AUX NORMES: ASTM E1509-95 / UL 1482-1996 ULC S627-00 / ULC S628-M93

THIS PELLET FIRED APPLIANCE HAS BEEN TESTED AND LISTED FOR USE IN MANUFACTURED HOMES IN ACCORDANCE WITH OREGON ADMINISTRATIVE RULES 814-23-900 THROUGH 909.

INPUT RATING: 4.5 LBS / HR. ELECTRICAL RATING: 120 V, 60 HZ, 2 AMPS INSTALL AND USE ONLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION AND OPERATION INSTRUCTIONS. SEE LOCAL BUILDING CODE INSTITUTION AND DIFFERENCE OF STRUCTIONS FOR PRECAUTIONS REQUIRED FOR AND MANUFACTURERS INSTRUCTIONS FOR PRECAUTIONS REQUIRED FOR PASSING VENT COMPONENTS THROUGH A COMBUSTIBLE WALL OR CELLING. CONTACT LOCAL BUILDING OF FIRE OFFICIALS ABOUT RESTRICTIONS IN INSTITUTION INSPECTION IN YOUR AREA. DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE

MINIMUM CLEARANCES TO COMBUSTIBLE CONSTRUCTION INSTALLED AS A FREESTANDING STOVE

Α.	WIDTH OF UNIT		25" /	635 mm	
B.	DEPTH OF UNIT	-	25"/	635 mm	
C.	SIDEWALL TO UNIT		5" /	125 mm	
D.	BACKWALL TO UNIT	-		25 mm	
E.	CORNER TO UNIT	-		25 mm	
	MIN. ALCOVE WIDTH			865 mm	
	MIN . ALCOVE HEIGHT			1220 mm	



INSTALLED AS A FREESTANDING STOVE FOR USE WITH A MASONRY FIREPLACE

E.	FLOOR PROTECTOR		67/ (150 mm
G.	SIDEWALL TO UNIT		57 (125 mn
Н.	MANTLE TO UNIT		137 (330 mr
l.	TOP FACING TO UNIT	-	137 (330 mr
J.	SIDE FACING TO UNIT	-	5"/ (125 mr



COMBUSTIBLE FLOOR MUST DE PROTECTED BY A NON-COMBUSTIBLE MATERIAL UNDERWEATH THE LIMIT AND EXTENDING TO THE FRONT (D - 5" / 150 mm) AS SHOWN. THE DIMENSIONS FOR THE NON-COMBUSTIBLE FLOOR PROTECTOR SHOULD BE A MINUMUM OF 27" X32"

COR LISE WITH DELICTIZED 1/4" OR 5/16" DIA SOLID WOOD FLIFLS ONLY. DO NOT WITH PELLETIZED 16" OR \$715" DIA SOLID WORD PIDES UNIT. DU MOI DAL OPERATE ORIX WITH VIEWING DOOR AND ASH REMOVAL DOORS REPLACE GLASS ONLY WITH CERAMIC GLASS. DO NOT ROUTE POWER IDER THE UNIT. INSPECT AND CLEAN THE EXHAUST VENTING SYSTEM ON JUNT BASIS. COMPONENTS REQUIRED FOR INSTALLATION. 3" (75 mm BIRN COIL.

(OSSE). REPLACE GLASS ONLY ******

CORD UNDER THE UNIT INSPECT AND CLEAN THE EXTYNUAL ACTION AS A REGOLDET ASSIS. COMPONENTS REQUIRED FOR RESTALLATION. 3" / 7"

A REGOLDET ASSIS. COMPONENTS REQUIRED FOR RESTALLATION ARE NULT. DIAMETER LISTED TYPE L OR TYPE PL VEHT, CUITSIDE COMBUSTION ARE NULT.

MAKE SURE THE STOVE IS OFF AND THAT THERE IS ADECLARE FUEL IN THE MOPPER. THEN THE MULL FEED NOOD. AND DAMMER COTINGS, TO A DESIRED FUNCTION OF THE MULL FEED NOOD. AND DAMMER COTINGS. TO A DESIRED FUNCTION OF THE MULL FOR THE

CET APPWHEIL DE CHAUFFAGE À GRANULES À ÉTÉ ÉPROUVÉ ET RÉPERTORIE POUR UNE LITHLISATION JAINS LES MAISONS CONSTRUITES CONFORMÉMENT AUX REGLES ADMINISTRATIVES DE L'ORIGION NOS. 814-23-900 À 900.

PUISSANCE NOMINALE: 4.5 LBS /

PURSANDE MORINALE SERVINE.

DONNÉES EL ECHROLIES 1200 MOIL Z. AMPS

INSTALLER ET UILLESE IL ZAPPREIL CONFORMEMENT AUX INSTRUCTIONS

INSTALLATION ET THE PRINTETIONNEUNT DU FABRICIANT. CONSILITER LE CODE

DIOCAL QUI BATRIENT ET LES INSTRUCTIONS DU FABRICIANT ARM DE CONNAÎTRE

LOCAL DI BATRIENT ET LES INSTRUCTIONS DU FABRICIANT ARM DE CONNAÎTRE

LOCAL PRÉCILITAINES REPORTS FORTE INSTRUCTIONS DU FABRICIANT ARM DE CONNAÎTRE

UIN MUIN DU O UN PLAFORD COMBUSTISTE COMMUNICIER AUC LES AUTORITÉS

LOCALES EN MANIFERT DE DITTURENT ET DE LITTE CONNIÊTIE LES NOCHOUSES POUR

CONNAÎTRE LES RESTRUCTIONS ET LES NORMES TRIPSECTION DES NOTAL TANDICIES

MOINS VOTRE RESIGION. NE PAR ROCCORDER À UN TUTAND DE TROCKE DESSENDANT. UN AUTRE APPAREIL

DÉGAGEMENTS MINIMUMS DES ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES - INSTALLATION COMME POÈLE NON ENCASTE

Α.	LARGEUR DE L'APPAREIL	25 PO / 635 mm
B.	PROFEONDEUR DE L'APPAREIL	25 PO / 635 mm
C.	ENTRE L'APPAREIL ET LE MUR LAT RAI.	5 PO / 125 mm
D.	ENTRE L'APPAREIL ET LE MUR ARRIÈRE	1 PO / 25 mm
E.		1 PO / 25 mm
	LARGEUR MIN. DE L'ALCÔVE	34 PO / 865 mm
	HAUTEUR MIN. DE L'ALCÔVE	48 PO / 1220 mm
	PROFONDEUR MAX. DE L'ALCÔVE	30 PO / 760 mm

JINSTALLATION COME POÈLE NON ENCASTRÉ À L'INTÉRIEUR

NE	CHEMINÉE DE MAÇONNERIE.	
E	RECOUVREMENT DU PLANCHER	-6 PO/150 mm
G.	ENTRE L'APPAREIL ET LE MUR LATÈRAL	-5 PO/125 mm
H.	ENTRE L'APPAREIL ET LE MANTEAU DE LA CHEMINE	
1.	ENTRE L'APPAREIL ET LE PAREMENT SUPÉRIEUR	-13 PO/330 mr
J.	ENTRE L'APPAREIL ET LE PAREMENT LATÉRAL	- 5 PO/125 mm

LE PLANCHER COMBUSTIBLE DOIT ÊTRE RECOUVERT D'UN MATERIALI NON COMBUSTIBLE SOUS L'APPAREIL ET DEVANT L'APPAREIL (DISTANCE D-8 PC/ TEL QU'ILLUSTRE. LE MATERIAU DOIT ÈTRE AU MOINS 27 PO X 37 PD

NUTILISER QUE DES GRANULES DE COMBUSTIBLE SOLIDE AU BOIS DE 1/4 PO QUI DE SITH DO DE DUMETTRE. NE MAS BIRLIER DE CULARDOM. FERRIMEI LES PORTÉS ORGESEMBRIOS DE 10 FEBRUARION DES CORRIPSIS AUTRIT DE PAIRE TONCTIONNEM METTRE LE PILS HECTIFIC SOUS L'APPAREL. MESPECTER ET INCTOVER LES EMPIS SOUMPATS. ÉLEMENTS RECURS PORTÉ HISTRALLADON BANNT REPRETIONE DE TYPE L'OUI PL. DE 3 PO 1.75 mm DE DIAMETRE. PRISE D'AIR DE COMBUSTION EXTÉRIBILITE.

PLACER INFEPETITE QUANTITÉ DE GRANULES ET DE PRODUIT DE MISE À FE SUR LA GRILLE ET ALLUMER. FERMER SOLDMENT LA PORTE D'OSSERVATION ET APPLYER SURE LE BOUTTON "SYNET FRECLE L'ULMERTMINTON EN COMBUSTILLE. LA POSITION MOYENIE. CORSOUE L'APPAREL CHAUFFE ADEQUATEMENT RÉGLÉ L'ULMENTATION ET L'E VENTILLEUR, AU DESON

POUR FERMER L'APPAREIL: COUPER L'ALIMENTATION



CAUTION

HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY CONTACT MAY CAUSE SKIN BURNS. SEE NAMEPLATE AND INSTRUCTIONS.

MADE IN CANADA BY: FABRIQUÉ AU CANADA PAR: APR INDUSTRIES LTD.

MISE EN GARDE

L'APPAREIL DEVIENT CHAUD LORSQU'IL FONCTIONNE. NE PAS TOUCHER, ELOIGNER LES ENFANTS, LES VÉTEMENTS ET LES MEUBLES DE L'APPAREIL. TOUT CONTACT PEUT ENTRAÎNER DES BRÛLURES CONSULTER LA PLAQUE D'IDENTIFICATION ET LES INSTRUCTIONS.

2. Electrical Requirements

- 1. This heater is an electrical appliance. The North American versions of this appliance require 120 Volts, 60 cycle and 3 Amps of electrical power. The European versions of this appliance require 230 Volts, 50 cycles and 2 Amps of electrical power. All heaters with an electric igniter require an additional 300 watts of electrical power during the start up sequence.
- The heater comes with a 5 ft. (1.5 M) long, grounded, electrical cord suitable to plug into any standard residential electrical outlet. The electrical outlet must be grounded.
- 3. When installed in a mobile home, the heater must be grounded to the steel chassis of the home (unless this is not required by local code).

3. Fuel Requirements

3.1 Physical Properties

Your heater is very sensitive to fuel quality. Every effort should be made to use only the best pellet fuel available in your area. This heater is designed for premium grade, 1/4 inch (6.35 mm) or 5/16" (7.94mm) diameter wood pellets only. The following should assist you in selecting the proper fuel.

Good Fuel

Made from hard or soft wood

Dry

Clean

1/4" or 5/16" diameter

1" or less in length

Low ash (less than 1%)

Bad Fuel

Moist or wet
Lots of fines or sawdust
Longer than 1"
Contains binders (helps glue the
fuel together)
High ash content (greater than 1%)
Not made of wood

Burning any fuel other than wood pellets as described above will void your heater's warranty and may void any insurance.

If you find your fuel has too much fines and saw dust, the fuel may be screened before use. DO NOT USE WET PELLETS under any circumstance. Longer fuel may cause bridging of the auger and result in erratic feeding or jamming. Fines, binders, ash, moisture will all cause your heater to plug up and not burn efficiently. "Poor" fuels require more frequent cleaning; the ashtray must be emptied and the burn pot must be cleaned on a weekly/possibly daily basis. Please refer to the "Maintenance" section for further instructions on cleaning your heater.

3.2 Fuel Storage

All pellet fuel should be stored in a clean dry place and at a safe distance (at least 36 inches / 1 meter) away from the heater. DO NOT place the fuel within the installation clearances of the heater or within the space needed for ash removal or starting of the heater.

Page 10

4. Location of the Heater

Before proceeding with the installation, the following sections should be reviewed:

Section 4: Location of the Heater

Section 5: Typical Installation Configurations

Section 6: Venting System

When selecting a location for your new heater consider the following:

a. Clearance to combustibles.

d. Power within 5 feet (1.5 m).

b. Sufficient room to service the unit.

e. Access for exhaust venting.

c. Access for outside combustion air. f. EVL not exceeding 25 ft. (7.6 m).

d. NOT approved for bedroom installations. See Exhaust Vent Requirements.

5. Typical Installation Configurations

The following figures describe some typical installations. Variations of these are possible. Common sense, safety and compliance with local codes must be respected in any

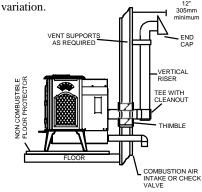
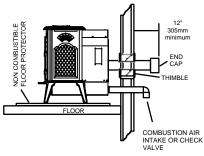


Figure 6. Free standing through the wall and up installation



(although this installation is permitted, a 3' (1 m) vertical rise is strongly recommended)

Figure 7 Free standing through the wall installation

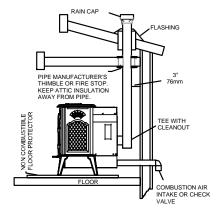


Figure 8. Free standing through the roof installation

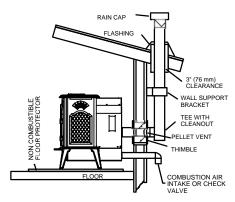


Figure 9. Free standing through the wall and the roof installation

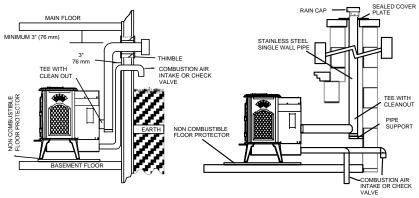


Figure 10. Free standing basement installation

Figure 11. Free standing through a masonry chimney installation

6. Venting System

6.1 Exhaust Vent Pipe Requirements

Your KOZI pellet heater works under negative pressure (vacuum). The exhaust fan of your stove pulls air from the air intake, through the stove and pushes it out the venting. As this air passes through the burn pot it is used to burn the pellets. Proper vent pipe sizing is very important to the proper operation of your stove. A proper size ULC/UL listed type PL or L venting should be used to provide the least resistance for movement of the combustion air.

Your **KOZT** pellet heater is certified for 3 and 4 inch exhaust venting. 3 inch venting is normally sufficient for most direct vent installations. Installations with several elbows, long horizontal and/or vertical runs may add too much resistance to air flow and may create burn problems. The use of 4 inch venting in these types of installations will reduce the possibility of burn problems. A simple technique called 'EQUIVALENT VENT LENGTH (EVL)' can be used to determine whether 3 or 4 inch vent pipe should be used.

To calculate EVL use the following formula:

for each 90° Elbow or T fitting = add 5 EVL for each 45° Elbow = add 3 EVL

for each Horizontal run of vent = add 1 EVL per foot of horizontal venting for each Vertical run of vent = add 1/2 EVL per foot of vertical venting

CAUTION: EVL CANNOT EXCEED 25 ft. (7.6 meters). Installations using an EVL exceeding 25 ft. (7.6 meters) are not permitted.

YOU MUST USE APPROPRIATE 4" VENTING IF:

The EVL is 7 or more AND you are at or above an altitude of 3000 ft.

OR

The EVL is 15 or more

If in doubt, use 4" venting. This will reduce the possibility of future burn problems.

DO NOT USE MAKESHIFT MATERIALS OR MAKE COMPROMISES IN THE INSTALLATION. IT IS A FIRE HAZARD.

DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS HEATER

DO NOT CONNECT THIS HEATER TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE

The vent pipes are on the exhaust side of the exhaust fan and are under pressure. Care must be taken to ensure that all the joints are completely sealed to prevent any leakage of exhaust fumes and smoke into the house. If you smell smoke, the venting has not been properly sealed. Use only high temperature RTV silicone for sealing. Aluminum tape is not considered an adequate sealant. At least 3 screws are needed for securing all vent pipe joints.

The venting of this heater is not allowed to pass through any closets, concealed spaces, floors, ceilings or attic spaces. If the venting must go through a wall or combustible partition, the installation must conform to the Installation Code for Solid Fuel Burning Appliance and Equipment CAN / CSA -B365. For more detailed venting information, please refer to your venting manufacturer's instructions.

6.2 Exhaust Vent Termination Requirements

- 1. It is highly recommended that the venting include a minimum 3' vertical rise before termination. This will help prevent any odor of smoke in the house during a power failure.
- The exhaust vent must terminate into an open space. Under no circumstances is the vent allowed to terminate into closed or semi-closed spaces. Venting into a garage, under a sun deck, porch or any other space where the concentration of fumes may occur is prohibited.
- 3. The exhaust vent must be at least:
 - * 4 feet (1.2 m) below
 - * 4 feet (1.2 m) horizontally from
 - * 1 foot (0.3m) above

any opening in the building such as doors, windows, ventilation air

intakes, etc.

- 4. The exhaust vent opening must be a minimum of:
 - * 12 inches (0.3m) from the ground
 - * 24 inches (0.61m) from any combustible surface i.e. fence, plant, etc.
 - * 7 feet (2.1 m) from any public walkway
- 5. The exhaust air is EXTREMELY HOT. Caution must be taken to avoid contact with children, people, plants, animals, or any other object that may be affected by heat. It is recommended to use a vertical pipe to discharge the hot air at a safe elevation.
- 6. Vertical installations must have an approved vertical vent cap and horizontal installations must have an approved horizontal vent cap. Areas where severe wind conditions exist and vent caps are exposed to unprotected open areas additional protection (especially in horizontal installations) must be provided.

6.3 Combustion Air Intake Requirements

There are 2 methods of supplying the heater with combustion air. They are as follows:

- Room Air: Conventional homes may use room air for combustion. Where
 room air is used, the exhaust pipe must incorporates a minimum 3'
 vertical section immediately adjoining the heater. It is highly recommended that the total exhaust vertical rise be longer than the total
 horizontal run and that the majority of the vertical rise be as close to the
 heater as possible..
- 2. Outside Air: All installations can be connected to the exterior of the building using a noncombustible metal pipe, with a minimum 2 inch (50mm) internal diameter or by using APR Part No: AK100 (Air Intake Kit). A larger diameter air intake pipe may be required if the length of intake exceeds 3' (1 meter) or has several bends. Use of plastic pipes are not permitted.

In some installations, outdoor combustion air may be needed to ensure proper performance. If your heater burns poorly, experiences roll-out or back-drafts, outside combustion air may be required.

The following restrictions apply to any and all installations:

- 1. Use of plastic pipes is not permitted under any circumstance.
- The combustion air intake must terminate into a vented space, i.e. outside, vented attic, vented crawl space. This heater cannot draw air from a closed space such as a closed garage, airtight crawl space or any other sealed room.

INSTALL ALL VENTING AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER

- The elevation of the combustion air intake must be below the exhaust vent. An elbow may be used to lower the air intake point below that of the exhaust vent.
- 4. Excessive lengths and elbows on the air intake pipe will cause airflow restrictions. A minimum of 2" (50 mm) or larger venting should be used for lengths exceeding 3" (1 meter). Increase the venting size as needed.

7. Mobile Home Additional Installation Requirements

7.1 Typical Mobile Home Installation Configuration

The following figures describe some typical installations for mobile homes. Variations of these are possible. Common sense, safety and compliance with local building codes must be respected in any variation.

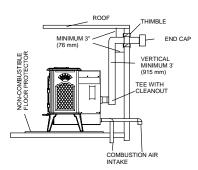


Figure 12. Mobile home installation through wall; interior rise

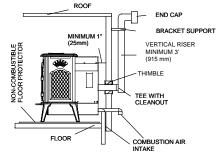


Figure 13. Mobile home installation through wall; exterior rise

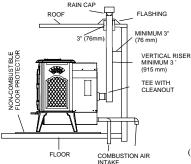
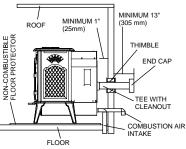


Figure 14. Mobile home installation through roof



(although this installation is permitted, a 3' (1 m) vertical rise is strongly recommended)

Figure 15. Mobile home installation through wall

7.2 Recommendations for Mobile Home Installation

- Make sure there is an effective vapor barrier where the venting penetrates to the outside of the mobile home. Seal all openings in the vapor barrier as required.
- 2. Make sure the mobile home has adequate ventilation. Your stove is a solid fuel burning appliance. As such, there is a possibility of smoke entering the room. By making sure the mobile home is adequately vented, you reduce the chances of smoke remaining in the mobile home.
- 3. Make sure the venting is properly installed and sealed. Leaking vent pipes may set off smoke detectors in the mobile home. Also, some fuels may produce carbon monoxide which, in large amounts, can be fatal. Make sure the venting is installed properly to prevent leakage of carbon monoxide into the mobile home.
- If parts become damaged or need to be replaced, please contact your local dealer or visit WWW.KOZISTOVES.COM. Do NOT replace parts with any other parts not specified by your local dealer or manufacturer.

7.3 Mobile Home Combustion Air Intake Requirements

All mobile home installations MUST use combustion air from the outside. This heater must be connected to the exterior of the mobile home using a noncombustible metal pipe, with a minimum 2 inch (50 mm) diameter. APR Industries Ltd. part # AK100 (Air Intake Kit) can be used for this purpose. Use of plastic pipes are not permitted. Please read the "Combustion Air Intake Requirements" section for more information.

7.4 Exhaust Vent Requirements

Venting a **KOZI** pellet burner for a mobile home is similar to that of a conventional home. Please refer to the "Typical Mobile Home Installation Configuration" section for typical venting configurations the "Venting System" for vent termination and other requirements. It is highly recommended that 3'. minimum of vertical venting be used (as shown in Figure 12 and Figure 13). This will reduce the chance of smoke spillage into the mobile home in case of a power failure.

7.5 Other Mobile Home Installation Requirements

- The heater must be securely anchored to the floor of the mobile home.
 There are 4 holes located on the legs of the stove. Use lag bolts (not supplied) in these holes to anchor the stove to the floor of the mobile home.
- 2. There must be a noncombustible floor protector placed underneath the heater and extending a minimum of 6" (150 mm) in front of the heater

(see "Clearance to Combustibles" section for more information).

- 3. This heater can not be installed in any sleeping room of the mobile home.
- 4. The heater must be grounded to the steel chassis of the mobile home (unless this is not required by local code).

WARNING: DO NOT INSTALL IN A BEDROOM OF A MOBILE HOME

CAUTION: THE STRUCTURAL INTEGRITY OF THE FLOOR, WALL AND ROOF OF THE MOBILE HOME MUST BE MAINTAINED.

III. OPERATION

1. General overview

The first step in understanding your new **KOXI** heater is to familiarize yourself with its operation. Your heater has 3 main systems: Feed, Combustion and Circulation. These 3 systems work together to produce enough heat for your room. The feed system uses an auger to "feed" the pellet fuel into the burn pot. The combustion system provides the air for the fuel to burn and pushes the "smoke" outside through the vent pipes. The circulation system takes cold air from the room and pushes it through the heat exchanger where it will warm up and flow back into the room as hot air. These 3 main systems are all control by the $MX2^{TM}$ control system (see Figure 16). The $MX2^{TM}$ control system will be described in more detail later.

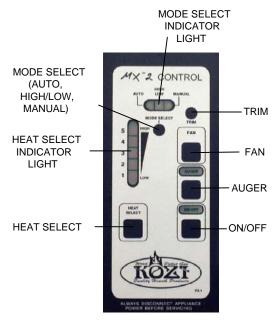


Figure 16. $\mathcal{M} \times 2^{\text{TM}}$ control

2. Safety features

- 1. Pressure switch: This safety device is used to turn the feed off if pressure is lost in the stove.
- Circulation fan override: If your pellet heater begins to overheat, this safety device switches the circulation fan to the highest possible setting to try to cool your heater down to a safe temperature.
- 3. High limit/manual reset thermal disk: If the Circulation fan override fails to cool the heater down fast enough, this thermal disk will turn the feed off. This safety device guards against your heater overheating. If this thermal disk trips, the right side panel will need to be opened and the thermal disk reset. See "Maintenance" and "Troubleshooting" sections for more information.

3. Electric Igniter

The **KOXI** Previa Cast Iron pellet stove is factory equipped with an electric igniter. The electric igniter is a convenient way of lighting the fire in your heater without the use of lighter gels or starter fuels. Ask your dealer if an electric igniter is right for you.

4. MX2™ Control

4.1 Basic Description

The $\mathcal{M} \times \mathcal{Z}^{\mathbb{M}}$ control is a digital control that uses a computer to control the operation of your heater. You should be familiar with all of the buttons on this control before using your heater. Each button and their function are described here.

4.2 "AUTO, HIGH/LOW, MANUAL Switch"

Your pellet heater is capable of operating in 3 modes;"AUTO", "HIGH/LOW" and "MANUAL". Figure 17 will help you determine which mode is suitable for use in your home. More information on each of the modes is provided later.

		Mode Se	election Guide
Switch Position	Igniter Required	Thermostat Required	Description
AUTO*	Yes	Yes	Turns Heater ON and OFF based on wall thermostat, remote control, wall switch or other switching device.
HIGH/LOW	Optional	Yes	Switches heater from user setting to factory LOW setting based on wall thermostat, remote control, wall switch or other switching device.
MANUAL	Optional	No	Relies on a person to press the ON/OFF button located on the control pannel. Will automatically light if equiped with electric igniter.
* CAUTION	: May result i	n shortened iç	gniter life. See complete mode description.

Figure 17, Mode selection.

a. "AUTO" Mode: With the switch in this position, your heater will turn itself on and off based on an externally wired switch. The most common use of this mode is with a wall thermostat. When wired to a wall thermostat, the heater will automatically light itself when the room temperature falls below the thermostat setting and will automatically turn itself off when the temperature reaches the thermostat setting. This mode can also be used with a wall switch or remote controls. Consult your local dealer or visit WWW.KOZISTOVES.COM for more information on available options.

Please note that "AUTO" mode, when used in conjunction with a wall thermostat, may result in "reduced" igniter life. Always use your stove on the lowest possible heat setting when in this mode. This will help reduce the number of ignition cycles and will help prevent premature igniter failure.

- b. "HIGH/LOW" Mode: With the switch in this position, your heater will alternate from a <u>factory preset low</u> to the setting you have chosen with the "HEAT SELECT" button (see {"HEAT SELECT: Button} section for more information). This mode is almost exclusively used with a wall thermostat and is highly recommended since it can create substantial fuel savings.
- c. "MANUAL" Mode: When used in this mode, your stove is controlled from the control panel only. When the heater is in the "MANUAL" mode, the heater will not respond to any external switch (Thermostat).

4.3 "ON/OFF" Button

This button allows you to turn the stove on and off. Once pressed, the stove will go through a start-up sequence and the ON/OFF light will blink.. During this time, the feed rate is preset and the "HEAT SELECT" button is disabled. Once the stove is warm enough, the "ON/OFF" light will stop blinking and you will be able to change the heat setting with the "HEAT SELECT" button as described next.

4.4 "HEAT SELECT" Button & Bar Graph

There are 5 possible heat settings for your heater. Each setting is indicated in the bar graph; 1 being the lowest, 5 being the highest. Pressing the "HEAT SELECT" button will change the heat setting as indicated in the bar graph. Each time the button is pressed, your heater will go to the next higher heat level (from 1 to 2, 2 to 3 etc...). Once the heat level reaches the highest setting (5) and the "HEAT SELECT" button is pressed again, the heat level will return to the low setting (1).

Please note that during the start-up period, the "HEAT SELECT" button can be set. However, the heater will not operate at the desired setting until it has warmed up properly. Also, your heater will always remember which heat setting was used last and return to that setting next time the stove is turned on (Power failures will result in this setting being lost).

4.5 "AUGER" Button

Your heater uses an auger system to feed fuel into the burn pot. When the auger system is working, the "AUGER" light will be on. During normal operation, this light should blink periodically. Holding the "AUGER" button will run the auger system continuously.

This button should only be used to fill the auger with fuel. Using this button during normal operation will cause too much fuel to fall into the burn pot and may result in damage to the heater or an unsafe situation.

4.6 "FAN" Button

During normal operation of your heater, the circulation fan (blows air into the room) will run at a preset speed depending on the heat setting chosen (see "HEAT SELECT" button). When the "FAN" button is pressed once, the circulation fan will operate on the highest setting. Pressing the "FAN" button again will slow the speed of the circulation fan to the next slowest speed. There are a total of 5 set speeds programmed on the control board. Once the lowest speed is reached, pressing the "FAN" button brings the circulation fan back up to the highest speed. Changing the HEAT SELECT setting will change the circulation fan speed back to the preset level for that desired HEAT SELECT setting.

4.7 "TRIM" Button

This button is used to compensate for fuel variations at the lowest heat level only. With the heater at the lowest heat level (1) pressing this button once will increase the feed rate to slightly above the normal low setting. At this "TRIM" setting, the (1) and (5) lights will be on. Pressing the "TRIM" button again will cause the feed rate to decrease slightly below the normal low setting. At this "TRIM" setting, the (1) and (4) lights will be on. Pressing the "TRIM" button again will return the feed rate to the normal low setting. At this "TRIM" setting, only the (1) light will be on.

4.8 Wall thermostat, wall switch or other switching device.

The $\mathcal{M} \times 2^{TM}$ control is capable of using an external switch (such as a millivolt wall thermostat) to turn the stove on and off. Any millivolt rated switching device can be used with this control. The switch/thermostat must be wired to the terminals as shown in Figure 18.

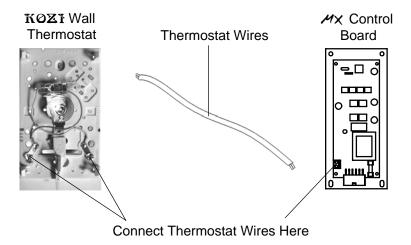


Figure 18. Wall thermostat terminals

TO PREVENT INJURY OR DAMAGE TO THE HEATER, ALWAYS UN-PLUG THE HEATER FROM THE POWER OUTLET BEFORE SERVICING.

4.9 Damper Control

The damper control rod is located on the left side of the heater. This rod controls the amount of air passing through the burn pot. By pushing the control rod in, you reduce the amount of air passing through the burn pot. By pulling the rod out, you will increase the amount of air passing through the burn pot. Once properly set, you should not need to adjust the damper. The $M \times 2^{TM}$ control will automatically change the exhaust fan speed to adjust the amount of combustion air needed for each heat setting. A typical damper setting is between 5/8" (15 mm) to 3/4" (20 mm) from the fully pushed in position.

4.10 Starting (lighting) your Heater for the First Time

Read the following instruction completely before attempting to light your heater for the first time. This method applies to all modes of operation ("AUTO, HIGH/LOW, "MANUAL"). For "AUTO" mode, use thermostat or other switching device in lieu of "ON/OFF" button.

Once your heater is properly installed, complete the following steps to light it for the first time or whenever your heater runs out of fuel:

- 1. Fill the hopper with pellet fuel. At this time the auger tube is empty. It needs to be filled before the heater can be operated properly.
- Press the "ON/OFF" button; The "ON/OFF" light and the "AUGER" light should begin to blink. The motors should also begin to turn.
- 3. Adjust the HEAT SELECT setting to the desired level.
- 4. Press and hold the "AUGER" button; the "AUGER" light should light and stay lit until the button is released.
- 5. Continue to hold the "AUGER" button until fuel begins to drop into the burn pot (located inside the burn chamber, see "Stove Cross Section" diagram for exact location). This may take several minutes. If the heater turns OFF before fuel begins to drop into the burn pot, repeat steps 2, 3 and 4.
- 6. Release the "AUGER" button once pellet fuel begins to drop.
- 7. Monitor the burn pot. A flame should appear within 5 to 8 minutes. Allow the flame to stabilize. IN THE EVENT YOUR HEATER SHUTS OFF BEFORE THE FLAME IS STABLE or if a flame does not appear; press the "ON/OFF" button once again Refer to the "Adjusting your Heater" section for more information on operating your heater properly.

4.11 Starting (lighting) your Heater

To start your heater, complete the follow steps:

- 1. Ensure there is adequate fuel in the hopper and that all ashgates and doors are closed. Open ashgates/door will turn OFF the feed system.
- 2. Adjust damper to approximate setting. (If in doubt, pull open to approximately 3/4" 2 cm)
- 3. Press the "ON/OFF" button. The following should happen:
 - a. The exhaust fan will start.

- The circulation fan will remain off.
- c. The feed system begins to feed. The "AUGER" and ON/OFF" lights will begin to blink.
- e. The flame should appear within 5 to 10 minutes.
- 4. Adjust the HEAT SELECT setting to the desired level
- 5. Allow the flame to stabilize for 15 minutes.
- Adjust the heat setting and damper as necessary. (See "Adjusting your Heater" section)
- If the heater shuts OFF during the start up cycle and there is still a flame, press the "ON/OFF" button again.

DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE. USE ONLY PROPER LIGHTER GEL.

WARNING: Make sure the amount of fuel in the burn pot does not exceed the height of the burn pot at any point during operation. This can cause severe damage to your heater.

DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.

HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.

4.12 Stopping your Heater

To stop your heater, simply press the "ON/OFF" button (for "AUTO" mode, switch the thermostat or other switching device to "OFF"). This will cause the feed system to stop (the "AUGER" light will stop blinking) and the flame should die out within 5 minutes. The exhaust fan and circulation fan will continue to run until you heater is cold (approximately 30 minutes). DO NOT turn OFF electrical power to stop the heater, as this will result in your heater overheating and may damage the control.

4.13 Adjusting your Heater

The heater will not work properly if the ash door or the glass door are not properly closed OR if the wrong size of venting is used. It is equally important that you use good quality, wood pellet fuel. Poor fuel will create a poor burn, excessive ash and will plug the burn pot. Refer to the "Fuel Requirements" section for more information on fuel quality.

To increase the heat output of your heater, simply press the "HEAT SELECT" button. In a few minutes the flame size will increase. If the flames are darkish with black tips, open the exhaust damper slightly and allow the flame to stabilize. Repeat the procedure if more heat is desired. Flames that are too large mean the feed rate is too high for the amount of combustion air present. Increase the amount of combustion air by pulling the damper out slightly. In few minutes the size of the flame will reduce. If the size of the

flame is fluctuating between feed drops, this indicates the amount of combustion air is too much for the amount of feed. In this case, close the air damper slightly and once again, allow the flame to stabilize. If the air damper is open too far, there is a chance of extinguishing the fire. Some fuels have a tendency to leave ash and clinker deposits in the bottom of the burn pot.

IV. MAINTENANCE & CLEANING

Formation and Removal of Soot and Flyash - During normal operation, your heater produces a lot of flyash. This flyash will collect in the vent pipes and inside your pellet heater and restricts the flow of the flue gases. Incomplete combustion occurs during start-up, shutdown, and incorrect operation of your pellet heater. Incomplete combustion creates soot which will also collect in the vent pipes and within the pellet heater. The soot and flyash deposits in your heater and venting system is harmful to the performance of your heater. Improper maintenance leads to poor performance and component failure which can be dangerous. Please adhere to the following maintenance schedule:

Do not use abrasive chemicals to clean the heater and/or labels placed on the heater. These chemicals can damage both the paint and labels on the heater.

ALLOW THE HEATER TO COOL TO ROOM TEMPERATURE AND UNPLUG THE HEATER BEFORE PERFORMING ANY MAINTENANCE.

Before each heating season:

- 1. Clean the venting system. It is imperative that you check the venting system for any blockages after any prolonged shut down period. If there is a significant amount of soot build up, it should be removed to prevent the risk of a chimney fire. By making sure the exhaust venting system and the heater itself are being maintained properly and cleaned on a regular basis, you reduce the likelihood of a chimney fire. Please contact your local building or fire officials in your area for information on how to handle a chimney fire. Have a plan of action ready in case of a chimney fire occurs.
- 2. Clean behind the back heat shield as well as all exhaust passages. Ashes can build up behind the back heat shield and inside the exhaust passages. Firstly, the side heat shields must be removed by unscrewing the 2 bolts holding them in place. Now you will be able to access the 4 mounting bolts securing the back heat shield in place. Remove the 4 bolts and remove the back heat shield from the pellet stove. Using a brush, remove all of the ashes that have built up on the back wall of the combustion chamber, on the inside of the heat shield as well as in the exhaust passage. Inspect the auger chute gasket at this time. Make sure the gasket is still in good condition and that it is in the original position when the back heat shield is bolted back into place. Make sure to clean behind the back heat

shield after every 3 tons of fuel burned. See Figure 19 for removal of the heat shields.

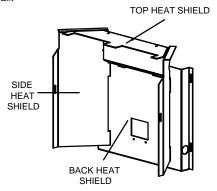


Figure 19. Cast Iron Stove Heat Shields.

3. Clean the exhaust fan and housing. Ash accumulation on the fan blades will reduce the life of your exhaust fan. Frequent cleaning will help extend the life of this component. Open the left side panel to access the exhaust fan. Using a Common (flat head) screw driver, remove the 6 sheet metal screws holding the fan motor to the housing (See Figure 20). Using a brush, clean all ash from the exhaust fan blades and housing.

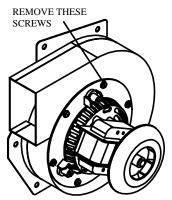


Figure 20. Exhaust fan assembly.

- 4. Inspect the condition of the door gasket periodically and replace it as necessary. It is important to make sure the door gaskets are in good condition. Gaskets in poor condition will not allow the door to seal properly and the heater will not function as efficiently.
- 5. Oil the circulation fan motor. To oil the motor bearings, the right hand side cover panel must first be opened. This is done by removing the 2 bolts securing the panel to the casting as well as removing the screws holding the panel to the hopper and base plate. Use a Robertson (square head) or Common (flat head) screwdriver to remove the screws. You will now be able to remove the panel and access the circulation fan. There are

2 oil ports located on the top of the motor, one near the end and one near the fan housing as shown in Figure 22. There may be rubber plugs in one or both of these oil ports. These plugs must be removed prior to and replaced after oiling. Place a few drops of light oil, such as sewing machine oil, in each port.

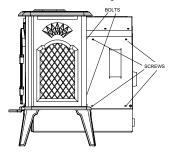




Figure 21. Bolts and screws securing the right side cover panel to the stove.

Figure 22. Oil ports on a circulation fan

6. Perform weekly maintenance.

Weekly or more frequently if needed:

1. Pull and push the heat exchanger tube cleaning rod which is located in the center, above the door (See Figure 23) when the stove is cold. This will remove the ash deposits on the heat exchanger tubes. The removed ash will fall on the top heat shield, located in the burn chamber.

Tube scraper rod for heat exchanger



Figure 23. Tube scraper rod to clean the heat exchanger pipes.

- 2. Lift the top heat shield. Remove it carefully as there may be a significant amount of ash on it. Dump the ashes into the burn chamber.
- 3. Using a brush, clean the top heat shield and remove it from the heater.
- 4. Remove the burn pot, burn pot stand and splash guard (Figure 24) and clean them thoroughly. Lift the burn pot and splash guard to remove. Lift up on the burn pot stand and pull towards you to remove. Make sure there are no ashes remaining in the burn pot stand and that all the holes in the burn pot are clear. Failure to do so can be a fire hazard. Place all ashes into a metal container with a tight fitting lid.

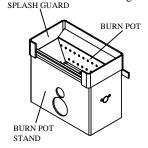


Figure 24. Burn pot stand assembly.

- 5. Using the brush, clean the walls and floor of the burn chamber.
- 6. To remove ashes in the burn chamber area you will need to remove the ash tray. Turn the 2 coil handles, located on the ash tray as shown in Figure 25, counter-clockwise to release the latch mechanism. Pull the ash tray out and place all of the ashes into a metal container with a tight fitting lid. Replacement of ashtray is reverse of removal. An alternate method to cleaning the ashes in the burn chamber area is to purchase a pellet vacuum. These vacuums are specifically designed for the removal of ashes in a pellet stove. Please visit the website www.lovelessash.com to find the closest dealer near you.

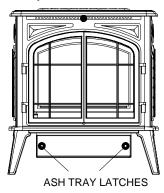


Figure 25. Ash tray for **KOZY** Previa Cast Iron pellet stove.

- Disposal of Ashes Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled. Do not place any other waste materials in this container.
 - 8. Empty out the hopper once every 2 weeks. Vacuum all the sawdust build up in the hopper and auger chute opening. Cleaning out the sawdust from the hopper will help prevent a hopper fire from occurring.
- 9. Reinstall all removed parts in their original positions.
- 10. Clean the glass with a mild glass cleaner when dirty. DO NOT clean the glass when the door is hot. Cleaning the glass will allow you to see the flame and how it is burning. This is very important to see if the heater is burning properly or not. DO NOT hit the glass or slam the door shut. This may cause the glass to crack or break. DO NOT operate the heater if the glass is cracked or broken. DO NOT replace the glass with any type of glass other then an APR Industries Ltd. factory approved glass. If the glass cracks or breaks, turn the heater OFF. DO NOT operate the heater until the glass has been replaced.

NOTE: Depending on the type of fuel you use and the frequency that you use the pellet stove, you may need to clean the stove more frequently.

After each heating season:

- Remove all the pellet fuel from the hopper. Run the heater to empty the auger tube. Vacuum the hopper and auger tube. Clean the rest of the heater.
- 2. Open up both side panels. Clean out any pellets, dust, ashes or debris that may have built up in the back of the pellet stove.

V. TROUBLE SHOOTING GUIDE

1. Trouble Shooting

Your KOZI pellet heater is equipped with a diagnostic light feature. When a problem occurs, the heat setting bar graph will light up to indicate where the problem may be. Each light has been numbered for easy identification. The chart below has been included to help you determine which corrective action should be taken. A complete description of each corrective action is included in the following pages of this manual. Some problems, such as flame problems, will not cause the diagnostic lights to light up.

		ontrol Trouble Shooting Guide	
Problem	Light Status	Possible Causes	Remedy
			Check to see if heater is
	All lights off	No power.	plugged in.
	All lights on	140 power.	Check electrical outlet for
			power.
		Exhaust vent and exhaust fan	Clean exhaust venting and
		are plugged	exhaust fan.
	#0 !:=b+ b!:=l:=	Exhaust passage and exhaust	Clean exhaust passage and
	#2 light blinks	box pressure tap are plugged.	pressure tap.
	(Pressure	Pressure switch tube is cracked	Dealers are suitable to be
	system failure)	or broken.	Replace pressure switch tube.
		Pressure switch has failed.	Replace pressure switch.
Heater will not feed		Exhaust fan has failed.	Replace exhaust fan.
pellets.		Hopper is empty.	Fill hopper with fuel.
		Exhaust fan thermal disk has	Replace exhaust fan thermal
	#3 light blinks	failed.	disk.
	(Proof of flame		Empty hopper and clean out
	failure)	Auger jam.	auger.
		Auger motor has failed.	Replace auger motor.
		, and the second	
	# 4 light blinks	Manual reset thermal disk has	Reset the manual reset thermal
	(Overheat safety	tripped.	disk.
	device failure)	Manual reset thermal disk has	Replace the manual reset
	action ialiare)	failed.	thermal disk.
		Exhaust fan thermal disk has	Replace exhaust fan thermal
		failed.	disk.
C4	Name of	lalled.	Allow sufficient time for the
Stove won't turn off.	Normal	Stove in "Cool Down" mode.	stove to cool down.
		M. Control board boa failed	
			Replace \mathcal{M}_X Control Board.
		No pellet fuel.	Add fuel to the hopper.
		Burn pot dirty.	Clean burn pot.
Stove will not light.	Normal	Fuse blown.	Replace fuse.
Crove will not light.	Homiai	Igniter slipped out of igniter tube.	ů .
		Igniter has failed.	Replace igniter.
		No power to igniter.	Replace \mathcal{M}_X Control Board.
Adjusting damper has	Normal	Burn pot dirty.	Clean burn pot.
io eliect. Fuel piles up.		Poor quality fuel.	Change fuel supplier.
		Not enough air.	Adjust air damper.
Short flame on high		Too much air.	Adjust air damper.
feed.	Normal	Poor quality fuel.	Change fuel supplier.
ieeu.		Heat exchanger requires cleaning.	Clean heat exchanger.
Too large and dark	Normal	Not enough air.	Adjust air damper.
orange flame.		Poor quality fuel.	Change fuel supplier.
			Seal all joints with high
Smell of smoke in room.	Normal	The pellet venting joints not sealed properly.	temperature RTV silicone sealant.

2. Corrective Actions

BEFORE PERFORMING ANY SERVICE, MAKE SURE THE HEATER IS COLD

AND UNPLUGGED. We strongly recommend using qualified service people.

2.1 Proof Of Flame Failure

- a. Verify that there is sufficient fuel in the hopper and that the heater has run for long enough to fill the auger tube. (See "Starting (lighting) your Heater for the First Time" section)
- b. Verify that the auger has not jammed. Occasionally, fuel can become lodged in the auger and prevent the augers proper operation. Open one of the side panels and grasp the auger motor. Move the auger motor back and forth. It may be difficult to move at first but should move relatively freely. If it will not move, empty the hopper and look for foreign objects in the auger.
- c. Verify that the auger motor is working. Plug the heater in. Without lighting a fire, start the heater. Verify that the white plastic fan on the auger motor is turning. If it does not turn, check for power at the auger motor and replace the auger motor as necessary. Remember to unplug the heater before attempting any service.
- d. Verify that the auger is properly secured to the motor. Empty the hopper and locate the auger bolt (approximately 1/4" square heat) on the auger. Remove the bolt and make sure the hole is aligned with the flat portion of the auger motor shaft. Reinstall the bolt and tighten.
- e. If none of the above resolve your problem, contact your **local** KOZI dealer

2.2 Pressure Switch Failure

- a. Verify that the heater is clean. Clean all venting and exhaust passages in the stove. Refer to "Maintenance" section for more information on cleaning your heater.
- b. Verify that the pressure switch tube is not cracked or loose. Replace as required. Also verify that the pressure port on the stove is clean.
- c. Verify that the exhaust fan is in good working condition. Without lighting a fire, start the heater. You should hear the exhaust fan start and come to full speed relatively quickly. If the exhaust fan is not working or is slow to start, check for power at the exhaust fan and replace the exhaust fan as necessary. Remember to unplug the heater before attempting any service.
- d. Verify that the pressure switch is working properly. Apply a slight vacuum to the pressure switch tube. The pressure switch should "click". Replace as necessary. Note: Pressure Switches rarely fail.
- e. If none of the above resolve your problem, contact your local **KOZI** dealer.

2.3 Manual Reset Thermal Disk Failure

This device is a safety device and should not be reset unless the cause of the problem is found and repaired. Typical causes are power failures while the heater is running and circulation fan failure.

- a. Verify that the circulation fan is in good working condition. Plug the heater in. Without lighting a fire, start the heater. You should feel a significant amount of air coming from the heat exchanger. If no air is felt, check for power at the circulation fan and replace the circulation fan as necessary. Remember to unplug the heater before attempting any service.
- b. Verify that the circulation fan thermal disk is working properly.
- c. Reset the Manual Reset Thermal Disk. Open the right side panel. Mounted on the back of the body of the stove you will see 2 thermal disks. One of these will have a red - reset button. Press the button to reset the thermal disk. When properly reset, the button should be loose.
- d. If your Manual Reset Thermal Disk is continuously tripping, contact your local KOZI dealer.

2.4 Ignition Failure

- Verify that your heater is equipped with an electric start. Contact your seller.
- b. Verify for power at the igniter and replace the igniter as necessary.
- c. Verify that the burn pot is clean. See "Maintenance" section for more information on cleaning your heater.
- d. If none of the above resolve your problem, contact your local KOとY dealer.

2.5 Overheating

This problem occurs when the circulation fan setting is too low for the amount of heat generated.

- a. Verify that the circulation fan is working properly. With the heater plugged in, start the heater. Press the fan button. You should feel air coming from the heat exchanger. If not, check for power at the fan speed control and replace as necessary.
- b. If the heat is not needed, reduce the feed and damper accordingly. Continue to reduce the feed until the circulation fan does not run on high.
- c. If none of the above resolve your problem, contact your local **KOZ** dealer.

2.6 Lack of Air.

The most common cause of flame problems are improperly sealed door and ashtrays, dirty heaters, poor fuel, improper installation and improper damper adjustment.

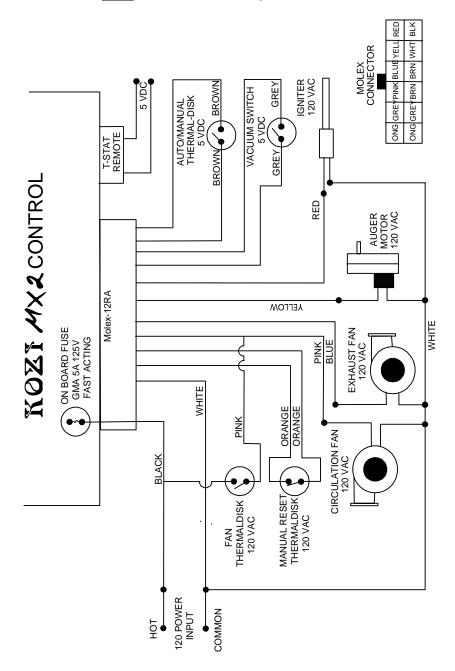
- a. Verify that all doors, ashtrays and ashgates are properly closed and sealed. Replace gaskets as necessary.
- b. Clean your heater thoroughly. Refer to the "Before each heating season:" portion of the "Maintenance" section for detailed cleaning instructions.
- c. Adjust your heater properly. Refer to the "Adjusting your Heater" section for your control.
- d. Try using various brands of fuel. Although most manufacturers claim to produce "premium" grade wood pellets, contaminants and moisture will affect fuel quality.
- e. If your heater is less than one year old, your venting and/or air intake may be too restrictive. Contact your local **KOZI** dealer for venting recommendations.
- f. If your flames are dark orange, lazy, have black tips, or if the fuel piles up in the burn pot, increase the amount of air by pulling the damper rod out slightly.
- g. If none of the above resolve your problem, contact your local KOZI dealer.

2.7 Excess air.

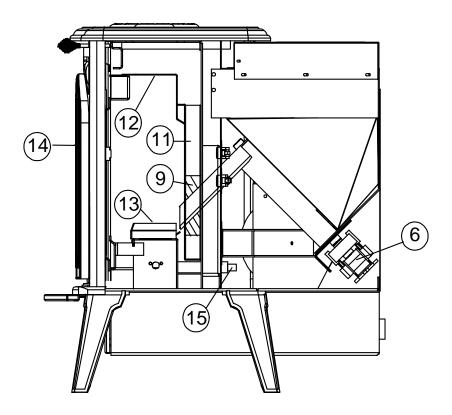
a. If your flames are short, white, if your burn pot looks like a popcorn maker or your fire is always going out, push the damper rod in slightly. If this does not resolve your problem, contact your local KOZF dealer.

VI. DIAGRAMS AND PARTS LIST

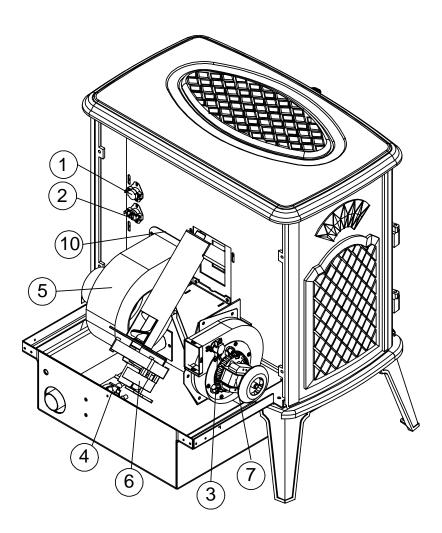
1. KOXI MX2TM Control Circuit Diagram

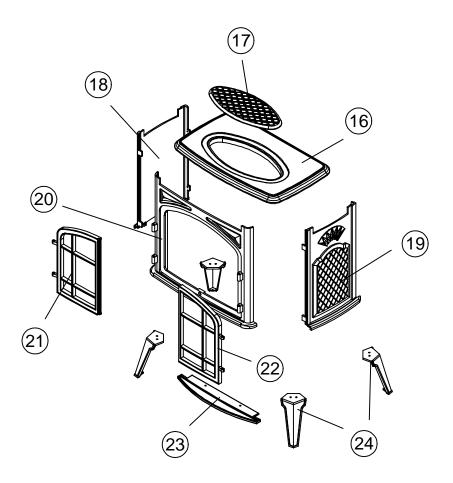


2. Stove Cross Section



3. Equipment Compartment





4. Parts List

Item No.	Description	Part #
	Electrical Components	
1	Circulation Fan Override, Thermal disk	TDKLMT04
2	Manual Reset, Overheat Thermal disk	TDKMR01
3	Exhaust Temperature Thermal disk.	TDKLMT01
4	Static Pressure Switch	SWC09902
5	Circulation Fan	FAN12001
6	Auger Motor	MTR12001
7	Exhaust Fan	FAN12003
8	MX2™ Control Board	CBDKZ001
	Gaskets & Gasket Kits	
Not Shown	Ash Tray Rope Gasket	GKT00304
9	Auger Chute Gasket Kit	GKT9900
10	Circulation Fan Gasket	GKT00202
Not Shown	Tadpole Glass Gasket	GKT00308
Not Shown	Exhaust Fan Motor Mounting Gasket (Round)	GKT00208
Not Shown	Exhaust Fan Mounting Gasket (Polygon Shape)	GKT00209
	Heat Shields & Other Parts	
11	Back Heat Shield	BCKSL100
Not Shown	Side Heat Shield Left	HTSLL100
Not Shown	Side Heat Shield Right	HTSHR100
12	Top Heat Shield	TPHSLCIS
13	Burner Pot	BPOT1005
14	Door Glass, Cast Iron, Arched Door	GLS0CISA
Not Shown	Static Pressure Switch Tube	TUBSPS01
15	Electric Igniter, Including Cartridge	EC2-HA-120
	Heat Shields & Other Parts	
16	Top Casting	CASTTOPC
17	Top Casting Mounting Plate	CASTTCMP
18	Left Side Casting	CASTLHSC
19	Right Side Casting	CASTRHSC
20	Front Casting	CASTFRNT
21	Left Door Casting	CASTLHSD
22	Right Door Casting	CASTRHSD
23	Casting Hearth Lip	CASTHRTH
24	Casting Legs	CASTLEGS
<u>If </u>	you don't see the part you need, please contact your local KOXI dea	ler.

VII. WARRANTY

APR Industries Ltd. honors a five-year limited warranty on all steel fabricated parts and a one-year warranty on all electrical parts. The following items are not covered under warranty:

Glass, Gasket and Seals, Cast Iron Body Components, Ceramic Bricks, Burn Pot, Paint and Powder Coating, Gold Plating, Inner Heat Shields, Gear Motor, Self Igniter and Glass Saver^{TM.}

Contact Your Dealer for Warranty Information.

The limited warranty covers defects in the material and poor workmanship as long as the heater has been installed in accordance with the instruction manual. Warranty is null and void if the heater is misused. It is the option of APR Industries Ltd. whether to repair or replace the parts. The customer is responsible for all shipping costs to and from the factory.

SERIAL NUMBER:			
MODEL TYPE:			
NOTES:			

WA	WARRANTY REGISTRATION CARD
Customer: Name: Addres	Name:
	Postal Code: Country: Phone Number:
Product:	Type: Stove Insert Fireplace
	Model: KOXF Serial Number: Date Purchased:
Dealer:	Name: Address:

