

NORTH AMERICA'S LUXURY FIREPLACE Installation and Operating Instructions

MODEL NO. M50 OPEN HEARTH DIRECT VENT GAS FIREPLACE HEATER

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gasses, unless a certified kit is used.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed. **AVERTISSEMENT**. Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquids inflammables dans le voisinage de cet appareil ou de tout autre appareil.

- QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:
- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.
- L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

Cet appareil peut être installé dans une maison préfabriquée (É.-U. seulement) ou mobile déjà installée à demeure si les règlements locaux le permettent. Cet appareil doit être utilisé uniquement avec les types de gaz indiqués sur la plaque signalétique. Une trousse de conversion est fournie avec cet appareil.

Une barrière conçue pour réduire le risque de brûlures du verre chaud est fournie avec cet appareil et doit être installée.





1 READ ME FIRST

1.1 CAUTION STATEMENTS TO PARENTS OF YOUNG CHILDREN

If this fireplace is installed in an isolated bedroom, study or other room, always operate this appliance in thermostatic temperature-controlled mode. Do not operate in Manual mode. Doing so can lead to very high room temperatures which can be hazardous to the room occupants' health.

Do not place young children in cribs, bassinets or the like in the vicinity of this appliance. Young children may be vulnerable to high temperatures that this fireplace can create locally.

Young children should be **carefully supervised** and never left unattended when they are in the same room as the fireplace. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other atrisk individuals out of the room and away from hot surfaces. This physical barrier is in addition to the required glass barrier Screen.

1.2 INITIAL FIRING AND CURING PROCEDURE

This product requires an initial heat curing cycle during which some materials used in the manufacturing process will burn off and the powder paint goes through a hardening cycle. During the initial curing phase, some smoke and odor will be emitted. This is normal.

The installer should perform these initial curing cycle procedures as the final step in the installation process before finishing materials are installed around this fireplace. See chapter 3.1.1 Mendota Fireplace Curing Instructions. Read and follow all instructions given in this Chapter and perform the 3-step curing cycle.

After the 3-step curing cycle has been completed, all smoking will have stopped. Some slight odors may remain. With subsequent use of this Fireplace, odors will slowly dissipate and disappear.

ODOR RISKS

If this appliance is not operated for an extended period (three months or longer), when first fired again, expect odors of burnt dust and lint; just like when turning on your home heating system for the first time in the Fall.

1.3 HOT SURFACES ARE NORMAL

Be aware that the surface in front of, above and adjacent to this heater appliance can be too hot to touch. As long as all required clearances to combustibles are met and the required finishing materials are used, this appliance will perform safely. Note that the exposed surfaces immediately surrounding the Fireplace can have surface temperatures that are too hot to touch. This level of surface temperature is considered normal and does not indicate any hazardous situation.

WARNING: The supplied barrier screen must be installed always when this fireplace is in operation. Do not place any object directly in front (within 60") or directly above (on the front edge of the mantel). This is a heating appliance. Areas directly in front and above this appliance will be very hot and can damage most household objects if placed too close. Keep Furniture pieces at least 60" away in front of the barrier screen.

Periodic and annual cleaning are required

See Required Periodic Inspections, Chapter 6.1 and Required Annual Maintenance, Chapter 6.3. Periodic and Annual cleaning and general services are required at least once a year in the Summer or early Fall. Cleaning pilot thermocouple and thermopile, sparker rod and pilot hood body is required at least once per year. Cleaning of burner ports, gas orifice areas is required once a year due to insects' nesting probability due to Mercaptan addition in Natural Gas (Mercaptan has been known to attracts insects).

Table of Contents

1	READ ME FIRST 2		3.2.17.1		Recommendation 1: Add a mantel	
1.1	CAUTION STATEMENTS TO PARENTS OF YOUNG CHILDREN 2		3.2.17.2		Recommendation 2: Create a recessed cavity Recommendation 3: Install a heat transfer system	
1.2	INITIAL FIRING AND CURING PROCEDURE2		3.2.17.3 3.2.1	.5 r 17.3.1	Mendota Cool Wall	
1.3				17.3.2	Versiheat	
		,		17.3.3 Vantii	FlexHeatng	
	GENERAL INFORMATION 5				COMPONENT "TWIST-LOCK" CONNECTION PROCEDU	
2.1	SAFETY AND WARNING INFORMATION5		3.2.18.1 3.2.18.2		Vall Heat Shield for Horizontal Vent Caps	
2	2.1.1 Building Permit & Inspection Requirements5		3.2.18.3		lue Venting Components Identification Diagrams	
2	2.1.2 Other Cautions5		3.2.18.5		Approved Vent Systems	
2.2	SAFETY WARNINGS6		3.2.18.7		xterior Vent Locations and Restrictions	
			3.2.18.8	-	ide by Side installation of two Vent Caps	
	2.2.1 Safety Standards and Warnings7		3.2.18.9		Decorative Cover for Vent Cap	
2.3	REQUIREMENTS FOR THE COMMONWEALTH OF MASS9				AL TECHNICAL REFERENCES	
3	TECHNICAL REFERENCES10				wer Requirements	
3.1	GENERAL TECHNICAL REFERENCES10				ing for AC Power Connection	
3	3.1.1 Mendota Fireplace Curing Instructions11		3.3.2.1		AC Power Connection Optionon System & Burner Controls System Diagrams	
	3.1.1.1 Step 1: Expelling Initial Smoke and Odors11			-		
	3.1.1.2 Step 2: High Heat Curing Cycle11	3	.3.5		ection Blower System	
	3.1.1.3 Step 3: Final Curing Cycle11		3.3.5.1		BLOWER OPERATION	
	3.1.1.4 Additional Curing Information11	3.4	PLUM	MBING	G TECHNICAL REFERENCES	43
3.2	MECHANICAL TECHNICAL REFERENCES	3	.4.1	Gas S	upply Requirements	43
3	3.2.1 Planning the installation12	3	.4.2	Gas S	upply Line Sizing	43
3	3.2.2 Selecting Appliance Location12	3	.4.3	Gas P	ressure Requirements and Checking	44
3	3.2.3 Listing Label13				eg Requirement	
:	3.2.4 Other Warning and Caution Labels14				al Gas Shutoff Valve Requirement	
-	3.2.5 M50 Fireplace Ratings Information16	_			•	
		_			ry Installed Manual Gas Shutoff Valve	
3	3.2.6 Normal Surface Temperatures17	3	.4.7	Gas Ir	nlet Fittings Information	45
	3.2.6.1 Hearth Pad Temperatures	3	.4.8	Gas Ir	nput Rate Verification	46
	3.2.6.3 Mantel Temperatures		3.4.8.1		Natural Gas Input Rate Verification	
3	3.2.7 Fireplace Dimensions and Clearances18		3.4.8.2		PG Input Rate Verification	
	3.2.7.1 Rough Framing Dimensions				Altitude De-Rating	
	3.2.7.2 Constructing the Appliance Chase20	4 II	NSTA	LLA	TION INSTRUCTIONS	47
3	3.2.8 ELEVATED FRAMING DIMENSIONS20	4.1	INSTA	ALLAT	TION CHECKLIST	47
j	3.2.9 Clearance from Appliance Outer Surfaces21	4	.1.1	Adjus	t exhaust damper to match vertical chimney le	ength.
3	3.2.10 Clearances to Combustible Side Walls22		9	See 4.	10.12 VERTICAL THROUGH-THE-ROOF VENTIN	VG
	3.2.10.1 Horizontal Clearance Reduction by 66%22		l	USING	FOUR 900 ELBOWS	47
	3.2.10.2 Horizontal Clearance Reduction by 50%22	4.2	UNPA	ACKIN	NG THE FIREPLACE	48
3	3.2.11 Clearances to Combustible Mantels23				S OF THE MANUAL PACKET	
ä	3.2.13 Hearth Pad Requirement24					
	3.2.13.1 Hearth Pad Guide [Usage and Removal]24	4.4			CKAGED INSIDE FIREBOX	
Ĵ	3.2.14 Suitable Mantel, Facing & Hearth Pad Materials25	4.5	WHA	AT IS I	NOT INCLUDED WITH THIS APPLIANCE?	49
	3.2.14.1 Marble, Granite and Natural Stones25	4.6	Unbo	OLTIN	IG FIREPLACE FROM PALLET	50
	3.2.14.2 Suitable Backer Materials R-Ratings	4.7	To R	REMO	VE DOOR	51
	3.2.14.4 Suitable Paints and Sealant Materials				CE DOOR	
	3.2.14.4.1Paint Types Approved for Use27					
	3.2.14.4.2Sealants Type Approved for Use	4.9	NATU	URAL	GAS TO LPG CONVERSION	53
	3.2.14.4.3Wood Application Cautions27 3.2.15 FRAMING DEPTH and FINISHING MATERIAL THICKNESS	4	.9.1	Gener	ral Conversion Information	53
	3.2.15 FRAMING DEPTH and FINISHING MATERIAL THICKNESS 28		4.9.1.1		Orifice sizes requirement	53
			4.9.1.2		Procedure to Convert This Fireplace to Burn LPG	
	3.2.16 Finishing Materials Cutting Dimensions	4			ure Regulator Conversion	
j	3.2.17 Recommendations for Television Installation30	4	.9.3 E	Burne	r Ignition Characteristics	56

4	1.9.4	Pilot Flame and Burner Relationship Verification56
4.10	0 VEN	NTING57
4	1.10.1	Wall Thimble Information57
4	1.10.2	M50 Master Venting Chart58
4	1.10.3	Maximum Horizontal Run59
4	1.10.4	Maximum Vent System Length59
4	1.10.5	How to Calculate the Vent Lengths59
4	1.10.6	USING 90 DEGREE ELBOWS59
4	1.10.7	USING 45-DEGREE ELBOWS59
4	1.10.8	ZERO RISE HORIZONTAL TERMINATION60
4	1.10.9	VERTICAL RISE HORIZONTAL TERMINATION61
4	1.10.1	0 VERTICAL THROUGH-THE ROOF VENTING64
4	1.10.1	1 VERTICAL THROUGH-THE-ROOF VENTING USING THREE
		90º ELBOWS66
4	1.10.1.	2 VERTICAL THROUGH-THE-ROOF VENTING USING FOUR
	1 10 1	900 ELBOWS
		3 Vent Damper Adjustments67
		0 LOG SET INSTALLATION INSTRUCTIONS
4.17	2 Ligi	HTING CHECKLIST77
4.13	3 AIR	SHUTTER CONTROL AND FLAME APPEARANCE 78
		IEOWNER INFORMATION79
5.1	AES	STHETIC CONSIDERATIONS79
5.2	HEA	ATING PERFORMANCE79
5.3	IMP	ORTANT INFORMATION FOR HOMEOWNER79
5.4	FIRS	ST TIME LIGHTING INSTRUCTIONS79
5	5.4.1	Safety Information79
5	5.4.2	LIGHTING INSTRUCTIONS79
5.5	To	TURN OFF GAS TO FIREPLACE80
5.6	FRE	EQUENTLY ASKED QUESTIONS81
5	5.6.1	What to do if I smell gas?81
5	5.6.2	Where can I find the model and serial numbers?81
5	5.6.3	Can I use my Fireplace during power outages?82

	5.6.4	What maintenance is required?82
	5.6.4.	•
	5.6.4. <i>5.6.5</i>	2 Periodic Inspection
	5.6.6	Is my flame performance correct?83
	5.6.7	What should I do if my fireplace is sooting?83
_	5.6.8	What happens when I first light my fireplace?83
6		NTENANCE INFORMATION 84
		QUIRED PERIODIC INSPECTIONS
	6.2 CLE	ANING VIEWING GLASS 84
	6.3 REC	QUIRED ANNUAL MAINTENANCE
	6.4 Ovi	ER FIRING OR UNDER FIRING OF BURNER85
	6.5 PIL	OT OUTAGE AND RE-LIGHTING 85
	6.6 CO	MBUSTION SYSTEM MILLIVOLT READINGS 85
	6.6.1	PILOT ONLY OPERATING85
	6.6.2	MAIN BURNER OPERATING85
	6.7 Bur	RNER FLAME HEIGHTS REFERENCE DIAGRAM 86
7	REPL	ACEMENT PARTS INFORMATION 87
•	7.1.1	How to Access Components87
	7.1.2	Gas Train Replacement Parts List88
ì	7.1.3	Convection Air Blower System Parts90
٦	7.1.4	Glass Frame Parts Replacement Procedure91
8	WAR	RANTY QUALIFICATION AND SERVICE 92
_		AL INSTALLATION AND HOMEOWNER
		CHECKLIST92
	8.2 WA	RRANTY POLICY STATEMENT
		NDITIONS
	8.3.1	Exclusions 94
	8.3.2	Limitations of Liability95
	8.3.3	How to Obtain Warranty Service95
	8.3.4	Owner Registration96

2 GENERAL INFORMATION

2.1 SAFETY AND WARNING INFORMATION

2.1.1 Building Permit & Inspection Requirements

All installations of Mendota Fireplaces must comply with all the requirements stated in this Installation and Operating Manual. The dealer and/or installer must obtain all required building permits and inspection approvals from the local building inspection department or the local jurisdiction. To validate warranty coverage, Mendota may require facsimile copies of the building permit and inspection approval forms. Failure to provide adequate proof that the installation conforms to all local requirements and the requirements stated in the Installation and User Manual will void all applicable warranties.

2.1.2 Other Cautions

CAUTION: Each installation must conform to all local, state and national codes. Refer to the national fuel gas code and local zoning and code authorities for details on installation requirements. The Mendota Fireplace must be vented to the outside in accordance with the latest edition of the National Fuel Gas Code. In the absence of local codes, the installation must conform to the most current edition of the National Fuel Gas Code ANSI Z223.1, also known as NFPA 54.

CAUTION: The Mendota Fireplace may be installed in a manufactured (mobile) home after the first sale of the home. Manufactured home (mobile home) installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI A225.1/NFPA 501A, or CSA Z240.4-Gas Equipped Mobile Housing. Consult your local building official. NOTE: For mobile home installations, unit must be bolted to the Manufactured home floor and properly grounded.



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as CERTIFIED NFI Gas Specialists.

INSTALLER: Leave this manual with the appliance. CONSUMER: Retain this manual for future reference.

INSTALLATEUR: Laissez cette notice avec l'appareil. CONSOMMATEUR: Conservez cette notice pour consultation ultérieure.

2.2 SAFETY WARNINGS



This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information, go to: www.P65Warnings.ca.gov.

65-01-01410

HIGH-ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7,500 ft., understand the need for gas input derating. Contact your local gas company to see if your gas type is already derated for your altitude or contact Mendota Technical Service for support.

INSTALLER NOTE: These instructions are to remain with homeowner.

Be sure to read and understand all instructions carefully before starting the fireplace. Failure to follow these instructions may result in a possible fire hazard leading to property loss, injury or even death and will void all warranty.

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FOR YOUR SAFETY: A qualified installer, service agency, or the gas supplier must perform installation and service. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. WARNING: Do not operate this appliance with the glass removed, cracked or broken. A licensed or qualified person should do replacement of glass.

AVERTISSEMENT: Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué ou brisé. Confiez le remplacement du panneau à un technicien agréé.

<u>WARNING</u>: Mendota gas fireplaces are heat producing appliances. Do not burn wood, paper or other materials in this fireplace. This fireplace is designed as a supplemental heat source. It is advisable to have an alternative primary heat supply.

In the Commonwealth of Massachusetts: Installation must be performed by a licensed plumber or gas fitter; a CO detector shall be installed in the room where the appliance is installed. **WARNING**: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home (USA Only), where not prohibited by local codes. This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified conversion kit is used.

Cet appareil peut être installé dans un maison préfabriquée (mobile) déjà installée à demeure si les règlements locaux le permettent.

Cet appareil doit être utilisé uniquement avec les types de gas indiqués sur la plaque signalétique. Ne pas l'utiliser avec d'autres gas sauf si un kitde conversion certifié est installé.

2.2.1 Safety Standards and Warnings

Do not operate this appliance with the glass removed, cracked or broken. Only glass doors certified with this appliance shall be used.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed. If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.

Any Barrier Screen or guard removed for servicing must be replaced before operating fireplace.

Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.

This unit is not for use with solid fuel.

Ne pas utiliser avec du combustible solide.

Installation and repair should be **performed** by a qualified service person. The fireplace and venting system should be **inspected** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding, material, etc. It is imperative that the unit's control compartment, burners and circulating air passageways are **kept clean** to provide for adequate combustion and ventilation air.

L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de poussière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres.

Always keep the fireplace clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

Never obstruct the flow of combustion and ventilation air. Keep the front of the fireplace clear of all obstacles and materials for servicing and proper operation. Use only Mendota approved Screens, Fronts and Trim Kits.

Due to high temperature, the fireplace **should be located out of traffic areas** and away from furniture and draperies. En raison des températures élevées, l'appareil devrait être installé dans un endroit où il y a peu de circulation et loin du mobilier et des tentures.

Clothing or flammable material should not be placed on or near the fireplace.

On ne devrait pas placer de vêtements ni d'autres matières inflammables sur l'appareil ni à proximité.

Children and adults should be **alerted** to the hazards of high surface temperature and should **stay away** to avoid burns or clothing ignition. The door glass, surrounding walls and objects can be too hot to touch.

Les enfants et les adultes devraient être informés des dangers que posent les températures de surface élevées et se tenir à distance afin d'éviter des brûlures ou que leurs vêtements ne s'enflamment.

Young children should be **carefully supervised** when they are in the same room as the fireplace. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at-risk individuals out of the room and away from hot surfaces. This physical barrier is in addition to the required glass barrier Screen.

Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.

These units must use one of the vent systems described in the Flue Venting section of this manual.

This gas fireplace and vent system **must** be vented directly to the outside and **must never** be attached to a chimney serving a separate solid fuel-burning fireplace. Each gas fireplace **must use** a separate vent system. Common vent systems are **prohibited**.

The vent system for this fireplace must be periodically examined by a qualified service agency to maintain venting performance and safety. If the vent-air intake system is disassembled for any reason, reinstall per the instructions provided for the initial installation.

Inspect the external vent cap on regular basis (monthly) to make sure that no debris is interfering with the airflow. The flow of combustion and ventilation air are not to be obstructed.

Do not abuse the glass door assembly by striking the glass, slamming the door shut, etc.

Use only authorized parts and materials obtained from Mendota Hearth when replacing defective or damaged glass, log sets, media, firebox inner liners or trim kits.

Do not use abrasive cleaners on the glass door assembly. Do not attempt to clean the glass door when it is hot. Use Mendota recommended cleaner, KelKem.

Turn off the gas before servicing this fireplace. It is recommended that a qualified service technician perform a fireplace check-up at the beginning of each heating season.

Do not place furniture or any other combustible household objects within 60" of the fireplace front, per fire safety code.

This vented gas fireplace heater is not for use with air filters.

Foyer au gaz à évacuation. - Ne pas utiliser avec du combustible solide.

Keep burner and control compartment clean. See installation and operating instructions accompanying fireplace.

S'assurer que le brûleur et le compartiment des commandes sont propres. Voir les instructions d'installation et d'utilisation qui accompagnent l'appareil.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this fireplace. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

L'AVERTISSEMENT: L'installation inconvenante, ajustement, modification, service ou entretien peut causer le dommages de propriété ou blessure. Référer au manuel d'information de propriétaire fourni cet appareil. Pour l'assistance ou information supplémentaire consulte un qualifiée installeur, agence de service ou le fournisseur de gaz.

Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control, which has been underwater.

Ne pas utiliser cet appareil s'il a été plongé, même partiellement, dans l'eau. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de commande et toute commande qui a été plongée dans l'eau.

Do not use any fronts or doors with this fireplace unless they are certified by Mendota and installed by a certified installer.

Seules des portes certifiées pour cet appareil doivent être utilisées.

2.3 REQUIREMENTS FOR THE COMMONWEALTH OF MASS.

The information in this section applies to all installations performed in the Common Wealth of Massachusetts only.

- a. For all side wall, horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes and where the side wall exhaust vent termination is less than seven (7) feet above grade, the following requirements shall be satisfied:
 - 1. If there is no carbon monoxide detector with an alarm already installed in compliance with the most current edition of NFPA 720, NFPA 70 and the Massachusetts State Building code in the residential unit served by the side wall horizontally vented gas fueled equipment, a battery-operated carbon monoxide detector with an alarm shall be installed in compliance with the most current edition of NFPA 720. NFPA 70 and the Massachusetts State Building Code.
 - 2. In addition to the above requirements, if there is not one already present, a carbon monoxide detector with an alarm and a battery backup shall be installed and located in accordance with the installation requirements supplied with the detector on the floor level where the gas equipment is installed. The carbon monoxide detector with an alarm shall comply with 527 CMR, ANSI/UL 2034 Standards or CSA 6.19 and the most current edition of NFPA 720. In the event that the requirements of this subdivision cannot be met at the time of the completion of the installation of the equipment, the installer shall have a period of thirty (30) days to comply with this requirement; provided, however, that during said thirty (30) day period, a battery-operated carbon monoxide detector with an alarm shall be installed in compliance with the most current edition of NFPA 720, NFPA 70 and the Massachusetts State Building Code. In the event that the horizontally vented gas fueled equipment is installed in a crawl space or an attic, the carbon monoxide detector may be installed on the next adjacent habitable floor level. Such detector may be a battery-operated carbon monoxide detector with an alarm and shall be installed in compliance with the most current edition of NFPA 720, NFPA 70 and the Massachusetts State Building Code.
 - 3. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2)" in size, "GAS VENT DIRECTLY BELOW, KEEP CLEAR OF ALL OBSTRUCTIONS"
 - 4. A final inspection by the state or local gas inspector of the side wall horizontally vented equipment shall not be performed until proof is provided that the state or local electrical inspector having jurisdiction has granted a permit for installation of carbon monoxide detectors and alarms as required above.
- b. EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2) (a) 1 through 4:
 - 1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
 - 2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.
- c. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions for installation of the equipment and the venting system shall include:
 - 1. A complete parts list for the venting system design or venting system; and
 - 2. Detailed instructions for the installation of the venting system design or the venting system components.
- d. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following shall be satisfied:
 - 1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
 - 2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.
- e. A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation

85-03-01121 M50 Page **9**

3 TECHNICAL REFERENCES

Read and understand all information provided under this section, Technical References, before you begin the installation of this product. Failure to follow all technical reference information, use of components or parts not approved or use of improper installation procedures can lead to a fire or explosion causing property damage, personal injury or loss of life.

3.1 GENERAL TECHNICAL REFERENCES

Caution: Before igniting the pilot or burners, perform the following inspections and verifications:

Check glass gasket seal. Visually inspect glass gasket, especially at the corners of the glass piece. Glass gasket is installed as a 4-piece assembly. Check joints between the gasket pieces at the corners. They should butt against each other to create a seal. Gaps between gasket pieces can cause exhaust leaks and lead to acrid smell concerns. Check for gas leaks at all fittings. During the first burning cycle of this Fireplace, ensure the convection blower is running at level three during the first two hours of initial burn. After two hours of initial burn, allow fireplace to cool. **Proceed with** Mendota Fireplace Curing Instructions, Chapter 3.1.1.

WARNING FIRE RISK/ODOR RISK

- This fireplace must be installed on top of wood, masonry or metal floor extending the full width and depth of this fireplace.
- An R-1 Rated Hearth Protection Pad, 18" deep, is required unless this fireplace is elevated at least 6" above floor level of the room. For every 1" this fireplace is elevated, you may reduce the hearth pad depth by 2". Locate and install appliance to all clearance specifications in manual.
- Verify glass gasket seal before firing unit the first time. Verify proper latching of glass frame onto unit body.
- Understand that this appliance requires a break-in period during which small amounts of smoke and curing smells will be emitted.

This fireplace must be installed and serviced by a qualified installer, service agency, or the gas supplier. Any adjustments to burner, pilot, logs or coal bed must be made by a qualified installer, service agency, or the gas supplier.

If the ignition control system goes into lockout mode, always wait 5 minutes before attempting to relight.

Never block off convection air openings or paths. Trim panels or surrounds shall not seal ventilation openings in the fireplace. Always use Mendota decorative fronts and Mendota approved vent systems and vent caps only.

Keep the flue warm

It is required to leave the pilot light running during winter months when outside daily high temperatures remain 50°F or lower. Doing so will eliminate heat loss from the home through the Fireplace glass door and will increase flue draft during startups and will aid in eliminating system lock out.

3.1.1 Mendota Fireplace Curing Instructions

ATTENTION

It is important that the blowers are turned on during this step to prevent the curing smoke from staining the wall finish above the fireplace. Mendota recommends completing Step 1 prior to installation of wall finish materials.

Visible smoke and strong odor are to be expected during this step. If desired, disable smoke alarms before this step, smoke from the initial curing cycle will set off smoke alarms. Open doors and windows of the home to circulate fresh air.

3.1.1.1 Step 1: Expelling Initial Smoke and Odors

- Please refer to Error! Reference source not found., Chapter Error! Reference source not found., if you have questions on how to operate your Mendota.
- Complete the installation of any barrier screen (required), surround, front or doors.
- Turn the fireplace on in the Manual (Off) thermostat mode.
- Set the Flame Height to Hi.
- Set the Fan Speed Control to Level 3.
- Run the fireplace with these settings for a minimum of 2 hours.
- Turn the fireplace off and let it cool.

3.1.1.2 Step 2: High Heat Curing Cycle

- Turn the fireplace on in the Manual (Off) thermostat mode.
- Set the Flame Height to Hi.
- Set the Fan Speed Control to Off.
- Run the fireplace with these settings until curing odors have diminished, about 3 hours.
- When odors have diminished leave the fireplace turned on and continue to Step 3.

3.1.1.3 Step 3: Final Curing Cycle

- With the fireplace still turned on from Step 2.
- Set the Fan Speed Control to the lowest setting Level 1.
- If any new curing odors are detected, continue to run the fireplace with this setting until the curing odors have diminished.

ATTENTION: Slight odors may still be noticeable on future startups of the fireplace. These will diminish over time as the fireplace is used.

3.1.1.4 Additional Curing Information

It is not unusual for a fireplace to require more than 10 continuous hours on high for curing odors to diminish. There are variables that can extend or shorten the curing time such as decorative fronts, doors, facing materials and their application. Finish materials around the fireplace are subject to high temperatures. Finishing materials used over the fireplace in the non-combustible zone can see temperatures around 350° F. Materials used around the fireplace must be rated for these temperatures. Failure to use adequate materials can result in odor problems. Please refer to Suitable Mantel, Facing & Hearth Pad Materials, Chapter 3.2.14 of this manual for information on appropriate finishing materials.

Please be aware that materials used around the fireplace will heat up and have the potential to cause odor issues. Adhesives, glue, wall substrate, wall finish material, paints and polishes are common materials that if used incorrectly will cause odor issues. Mendota is not responsible for any odor issues caused by materials used around the fireplace.

3.2 MECHANICAL TECHNICAL REFERENCES

3.2.1 Planning the installation

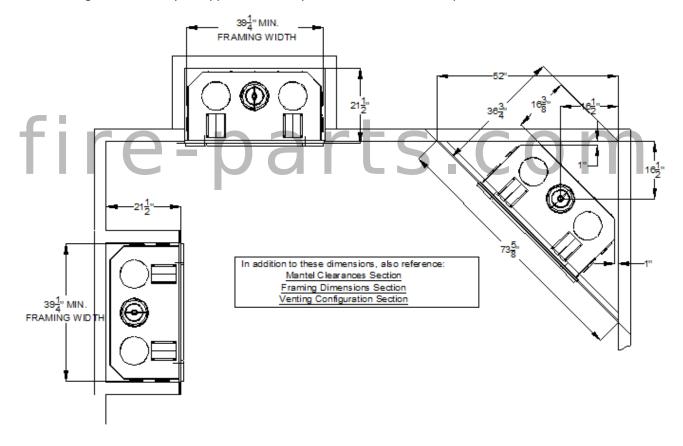
This Mendota Fireplace must be installed and serviced by a qualified installer, service agency, or the gas supplier.

When planning on appliance installation, it is necessary to determine the following information before installing:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical Wiring.
- Framing and finishing details.
- Hearth Protection Pad Requirements.
- Whether accessories such as a ceiling fan are desired.

3.2.2 Selecting Appliance Location

When selecting a location for your appliance, it is important to consider the required clearances to walls.



WARNING FIRE RISK- ODOR RISK

- Install appliance on metal or wood surfaces extending full width and depth of this fireplace.
- An R-1 Rated Hearth Protection Pad [1-1/2" Thick Maximum] is required unless this fireplace is elevated. For
 every 1" this fireplace is elevated, you may reduce the hearth pad depth by 2". If this fireplace is elevated 6"
 or higher no hearth protection pad is required.
- Do NOT install this fireplace directly on carpeting, vinyl or any combustible material other than wood. Construct chase to all clearance specifications in manual.
- Locate and install appliance to all clearance specifications in manual.

3.2.3 Listing Label

The listing label is located behind the right side hinged surround leg.. It is secured to a chain and left loosely in the air gap and can be pulled out to be viewed.



NORTH AMERICA'S LUXURY FIREPLACE



W/N 14171

DIRECT VENT GAS FIREPLACE HEATER: NOT FOR USE WITH SOLID FUEL. (NE CONVIENT PAS AUX COMBUSTIBLES SOLIDES.)

MANUFACTURED BY (FABRIQUÉ PAR): JOHNSON GAS APPLIANCE CO. CEDAR RAPIDS, IOWA CERTIFIED TO (CERTIFIE) ANSI Z21.88-2016

▲ DANGER



HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

Refer to the Intertek Directory of Building Products (https://budirectory.intertek.com) for detailed information

<u>WARNING:</u> IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. REFER TO THE OWNER'S INFORMATION MANUAL PROVIDED WITH THIS APPLIANCE. INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER. THIS VENTED DECORATIVE GAS APPLIANCE IS NOT FOR USE WITH AIR FILTERS. REGISTER KIT MAY BE USED. FOR USE ONLY WITH GLASS BARRIER Part no. AA-11-02022

MISE EN GARDE: INSTALLATION, RÉGLAGE, MODIFICATION, ENTRETIEN OU DÉPANNAGE NON APPROPRIÉS POURRONT CAUSER DES BLESSURES OU DES DOMMAGES MATÉRIELS. RÉFÉREZ-VOUS AU MANUEL DU PROPRIÉTAIRE FOURNI AVAC CET APPARIEL. POUR ASSISTANCE OU RENSEIGNEMENTS COMPLÉMENTAIRES, VEUILLEZ CONSULTER UN INSTALLATEUR EXPÉRIMENTÉ, UNE AGENCE DÉ DÉPANNAGE/ENTRETIEN OU COTRE COMPAGNIE GAZIERE, POUR UTILISATION AVEC LES PORTES EN VERRE CERTIFIÉE L'APPAREIL SEULEMENT. NE PAS OPÉRER AVEC LE VERRIÉRE ENLEVER, CRAQUELURE, BRISÉ.

WARNING: DO NOT OPERATE THE APPLIANCE WITH GLASS FRONT REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE PANEL(S) SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON. FOR USE WITH GLASS DOORS CERTIFIED WITH THE APPLIANCE ONLY.

AVERTISSEMENT: NE PAS UTILISER L'APPAREIL SI LE PANNEAU FRONTAL EN VERRE N'EST PAS EN PLACE, EST CRAQUÉ OU BRISÉ, CONFIEZ LE REMPLACEMENT DU PANNEAU À UN TECHNICIEN AGRÉÉ, SEULES DES PORTES CERTIFIÉES POUR CET APPAREIL DOIVENT ÊTRE UTILISÉES.

				INATOTOL DAS	4 4 000	
				(GAZ NATUREL)	(GAS DE PETROLE)	
					LIQUÉFIÉ (GPL))	
INPUT RATING (BTR/HR) 0-2000ft (0-61	10m) (ENTREÉ NOMI)	NALE)		50,000	50,000	
MIN. INPUT RATING (BTU/HR) 0-2000ft	(0-610m) (MINIMALE	ENTRÉE NOMINAL	.E)	15,800	16,200	
ORIFICE 0-2000ft (0-610m) (FRONT/RE	AR)			#35/ #43	#51/ #54	
ORIFICE 2000-5000ft (610-1370m) (FRO	ONT/REAR)			#36/ #44	#52 /#55	
INPUT RATING (BTU/HR) 2000-5000ft (6	610-1370m)			48,000	47,600	
MAXIMUM OUTPUT (BTU/HR) (SORTIÉ	MAXIMALE)			36,600	38,300	
MANIFOLD PRESSURE (in. w.c./kPa) (P	RESSION AU COLLE	CTEUR)		3.5 (0.87)	10.0 (2.5)	
MANIFOLD PRESSURE, LOW (in. w.c./k	(Pa) (PRESSION AU (COLLECTEUR MINI	MALE)	1.6 (0.40)	6.4 (1.59)	
MINIMUM INLET PRESSURE (in. w.c./kf	Pa) (PRESSION D'EN	TRÉE MINIMALE)		5.0 (1.24)	11.0 (2.74)	

THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING PLATE AND MAY BE INSTALLED IN AN AFTERMARKET, PERMANENTLY LOCATED, MANUFACTURED HOME (USA ONLY) OR MOBILE HOME, WHERE NOT PROHIBITED BY LOCAL CODES. SEE OWNER'S MANUAL FOR DETAILS. THIS APPLIANCE IS NOT CONVERTIBLE FOR USE WITH OTHER GASES, UNLESS A CERTIFIED KIT IS USED.

CET APPAREIL DOIT ÊTRE UTILISÉ UNIQUEMENT AVEC LE TYPE DE GAZ INDIQUÉ SUR LA PLAQUE SIGNALÉTIQUE. CET APPAREIL PEUT ÊTRE INSTALLÉ DANS UNE MAISON PRÉFABRIQUÉE OU MOBILE (É.-U. SEULEMENT) INSTALLÉE À DEMEURE SI LES RÈGLEMENTS LOCAUX LE PERMETTENT. VOIR LA NOTICE DE L'UTILISATEUR POUR PLUS DE RENSEIGNEMENTS. CET APPAREIL NE PEUT PAS ÊTRE UTILISÉ AVEC D'AUTRES GAZ SAUF SI UNE TROUSSE DE CONVERSION CERTIFIÉE EST FOURNIE.

UNIT TO FLOOR	0in. (0 mm)	GLASS EDGE TO ADJACENT SIDEWALL	18in. (457 mm)
UNIT TO ENCLOSURE SIDEWALL	½ in. (13 mm)	VENT PIPE TOP TO COMBUSTIBLES	3in. (76 mm)
UNIT TO ENCLOSURE BACK WALL	½ in. (13 mm)	VENT PIPE SIDES TO COMBUSTIBLES	1in. (0 mm)
UNIT TOP TO ENCLOSURE CEILING	1-1/2in. (38 mm)	VENT PIPE BOTTOM TO COMBUSTIBLES	1in. (0 mm)
UNIT BOTTOM TO ROOM CEILING	72 in. (183 cm)	8" MANTLE ABOVE DISCHARGE AIR OPENING	15in. (381 mm)

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING, FURNITURE, AND FLAMMABLE LIQUIDS OR VAPORS AWAY.

ATTENTION: L'APPAREIL EST CHAUD LORSQU'IL FONCTIONNE. NE PASS TOUCHER L'APPAREIL. SURVIELLER LES ENFANTS. GARDER LES VÊTEMENTS, LES MEUBLES, L'ESSENCE OU AUTRES LIQUIDES À VAPEUR INFLAMMABLES LOIN DE L'APPAREIL.

ELECTRIC	AL RATING (COURANT	NOMINAL):	120 VOLTS	60 HERTZ	LESS THAN 1.5 AMPE	ERES
VEIL	DO NOT F LEZ A NE JAMES			R THIS LAE	_	65-01-01435
MODEL: M50	□ 0813	09	20	12	N:	

Figure 3-1 Listing Label

3.2.4 Other Warning and Caution Labels

A few warnings and caution labels are attached to this appliance body and door glass as required per code to inform you of important facts. Make certain you heed all the warning and caution statements during installation and maintenance of this appliance.

WARNING:

Failure to install this appliance per the manufacturer's instructions or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

65-01-01392

Figure 3-2



Figure 3-4

This appliance must be installed in accordance with local codes, if any, if not; follow the National Fuel Gas Code, ANSI Z223.1 or Canadian Installation Codes, CAN/CGA B149". «Installer l'appareil selon les codes ou règlements locaux, ou, en l'absence de tels règlements, selon les Codes d'installation CAN/CGA-B149

65-01-00314

Figure 3-6



Figure 3-3

If the vent system for this appliance is disconnected for purposes of cleaning or inspection, the vent system must be properly reinstalled and resealed prior to firing of this appliance.

Si le système d'évacuation de cet appareil est déconnecté à des fins de nettoyage ou d'inspection, le système d'évacuation doivent être correctement scellé et remis en avant le tir de cet appareil.

65-01-00316

Figure 3-5

NOTICE

Initial heater start—up will cause some NON-TOXIC "off gassing" of adhesives, gasket binders, paint an dother materials.

Initial chauffe démarrage cause certains NON TOXIQUES "off gazage" des colles, joint de liants, de la peinture et autres matériaux.

Most nuisance odors will be eliminated after the first two hours of operation. However, slight amounts may be present during the first 24 hours of initial operation.

La plupart des nuisances d'odeurs seront éliminés après les deux premières heures de fonctionnement. Toutefois, de légères quantités mai être présent pendant les 24 premières heures de l'opération initiale.

65-01-00238

This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions.

65-01-00395

CAUTION: Do not operate the appliance with glass removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

CAUTIONNER: N'opère l'appareil avec le verre enlève, craque ou casse. Le remplacement du panneau(s) devrait être fait par une personne de service qualifié ou autorisé.

65-01-00394

Figure 3-7

HOT WHILE IN OPERATION. DO NOT TOUCH. SEVERE BURNS MAY RESULT.

KEEP CHILDREN, CLOTHING, FURNITURE, GASOLINE, AND OTHER LIQUIDS WITH FLAMMABLE VAPORS AWAY!

ATTENTION:

L'APPAREIL EST CHAUD LORSQU'IL FONCTINNE. NE PAS TOUCHER L'APPAREIL.

SURVEILLER LES ENFANTS. GARDER LES VÊTEMENTS, LES MEUBLES, L'ESSENCE OU AUTRES LIQUIDES À VAPEUR INFLAMMABLES LOIN DE L'APPAREIL.

Keep burner and control compartment clean. See Installation and Operating Instructions accompanying the appliance.

S'assurer que le brûleur et le compartiment des commandes sont propres. Voir les instructions d'installation et d'utilisation qui accompagnent l'appareil.

WARNING:

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

AVERTISSEMENT:

L'installation inexacte, l'ajustement, le changement, le service ou l'entretien peuvent causer des dommages ou des dégats matériels. Référez-vous au manuel de l'information du propriétaire équipé de cet appareil. Pour l'aide ou l'information additionnelle consultez un installateur qualifié, l'agence de service ou le fournisseur de gaz.

65-01-00350

Figure 3-8

3.2.5 M50 Fireplace Ratings Information

This Mendota Fireplace can be installed directly on top of a metal, masonry or wood structural surface.

ELECTRICAL REQUIREMENTS: 120 Volts AC, 1.5 Amps (minimum line voltage allowed 110 Volts AC) REQUIRED

GAS SUPPLY PRESSURE: NAT. GAS: 7" W.C. [5.0" W.C. MIN., 11" W.C. MAX.]

L.P. GAS: 11" W.C. [11" W.C. MIN., 13" W.C. MAX.]

LP GAS CONVERSION KIT: This Fireplace comes configured for use with Natural Gas. To convert the Fireplace for use with LP Gas, install: LP GAS CONVERSION KIT #HA-52-00145.

 GAS INPUT RATES
 High Fire
 Low Fire

 BTUH. (MODEL M-50)
 NAT. GAS
 50,000
 15,800

 BTUH. (MODEL M-50)
 LP GAS
 50,000
 16,200

ORIFICE SIZES [0-2000ft (610 m)]: REAR BURNER: #43 NG [#54 L.P. GAS] FRONT BURNER: #35 NG [#51 LP]

[2000-4500ft (610-1370 m)]: REAR BURNER: #44 NG [#55 L.P. GAS] - FRONT BURNER: #36NG [#52 LP]

P.4 FIREPLACE EFFICIENCY75.5%

FLUE VENTINGCOAXIAL RIGID- 5" DIAMETER EXHAUST & 8" DIAMETER AIR INLET AND APPROVED VENT CAPS All UL Listed Coaxial Rigid 5"X 8" Vent pipe components and vent caps are approved for use. Do not mix components of different brands or series. Always use the same brand and series components throughout the entire vent system.

MINIMUM CLEARANCES TO COMBUSTIBLE CONSTRUCTION

0in. (0mm) UNIT TO FLOOR GLASS EDGE TO ADJACENT SIDEWALL 18 in. (457 mm) UNIT TO ENCLOSURE SIDEWALL VENT PIPE TOP TO COMBUSTIBLES 0 in. (0 mm) 3in. (51mm) UNIT TO ENCLOSURE BACK WALL VENT PIPE SIDES TO COMBUSTIBLES 1 in. (25 mm) 1in. (25mm) UNIT BOTTOM TO ENCLOSURE CEILING 47-9/16 in. (121 Cm) **VENT PIPE BOTTOM TO COMBUSTIBLES** 1in. (25mm) UNIT BOTTOM TO ROOM CEILING 72in. (183 cm)

DISTANCE TO 8" MANTLE ABOVE TOP CONVECTION AIR DISCHARGE OPENING

15 in. (368 mm)

MINIMUM COMBUSTIBLE ROUGH FRAMING DIMENSIONS

WIDTH = 39-1/4" (99.7 cm) HEIGHT = 47-9/16" (120.8 cm) DEPTH = 21-1/2" (54.6 cm)

NET WEIGHT.....275 lbs. (Team Lift recommended)

BARRIER SCREEN: A barrier screen that has been certified for use with this Fireplace must be installed on the Fireplace when it is in use. The barrier screen will prevent accidental contact with the glass door face, which could result in a severe burn.

SAFETY: AGA certified, electronic ignition IPI system activated with thermostatic remote control.

CERTIFIED TO: ANSI Z21.88-2016

This Mendota Gas Fireplace has been tested and certified by: Intertek Testing Services, 8431 Murphy Drive, Middleton, WI 53562\ ICBO#AA647-4

85-03-01121 M50 Page **16**

3.2.6 Normal Surface Temperatures

WARNING: The supplied barrier screen must be installed, always, when this fireplace is in operation. Do not place any object directly in front (within 60" from barrier screen surface) or directly above (on the front edge of the mantel). This is a heating appliance. Areas directly in front and above this appliance will be very hot and can damage most household objects if placed too close. Keep Furniture pieces at least 60" away in front of the barrier screen surface.

HINT: To greatly reduce surface temperatures surrounding this Fireplace during operation, Mendota recommends operating the integrated convection air blowers which aid in cooling all surrounding surfaces.

Mendota Fireplaces comply with ANSI Z21.88-2016 Standards for maximum surface temperatures (ambient plus 117°F) on exposed "combustible" surfaces adjacent to the Fireplace.

Be aware that surfaces in front of, above and adjacent to this heater appliance can be too hot to touch. As long as all required clearances to combustibles are met and the required finishing materials are used, this appliance will perform safely. Note that the exposed surfaces immediately surrounding the Fireplace can have surface temperatures that are too hot to touch. This level of surface temperature is considered normal and does not indicate any hazardous situation.

3.2.6.1 **Hearth Pad Temperatures**

New hearth protection pads installed are required to have a thermal insulation value of R-1.

The top exposed surface of the noncombustible hearth pads can reach a temperature that is too hot to touch (as high as 250°F). This is considered normal.

3.2.6.2 **Surround Face Temperatures**

Areas of the breastplate directly above the top convection air gap of this Fireplace can be very hot (too hot to touch (exceeding 250°F)) and is deemed normal.

3.2.6.3 Mantel Temperatures

Mendota Fireplaces comply with ANSI Z21.88-2016 standards for maximum surface temperatures on exposed "combustible" surfaces adjacent to the Fireplace. Be aware that surface in front of, above and adjacent to this heater appliance can be too hot to touch. As long as all required clearances to combustibles are met and the required finishing materials are used, this appliance will perform safely. Note that the exposed surfaces immediately surrounding the Fireplace can have a surface

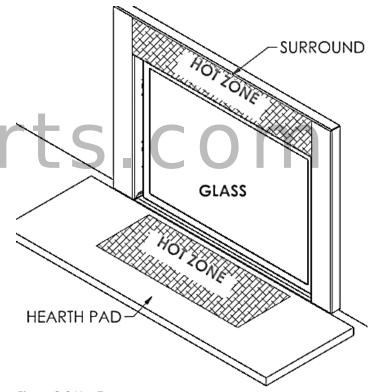


Figure 3-9 Hot Zones

temperature too hot to touch. This level of surface temperatures is considered normal and does not indicate any hazardous situation.

WARNING: Surfaces surrounding this Fireplace can be very hot to the touch during operation. Carefully supervise children and pets while this Fireplace is operating.

3.2.7 Fireplace Dimensions and Clearances

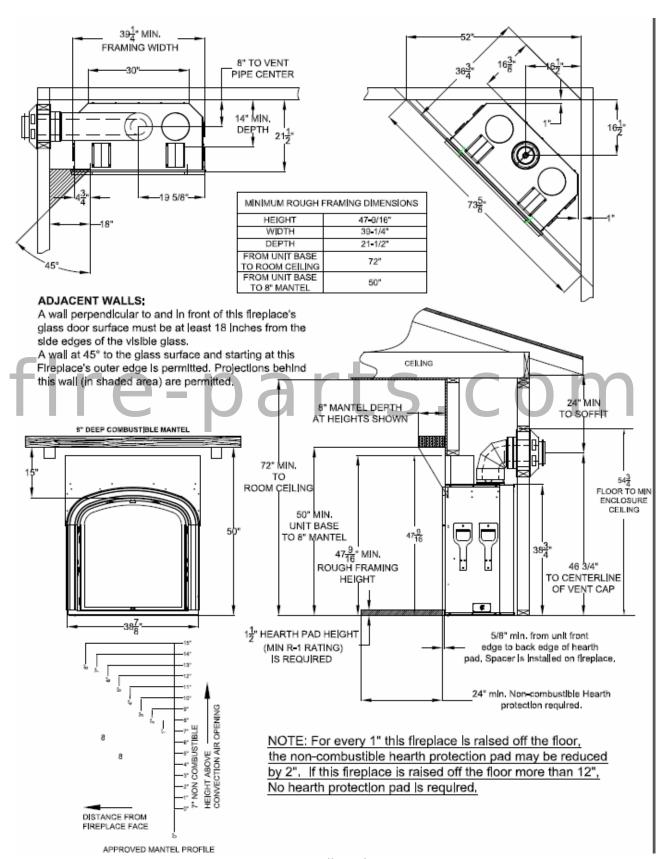


Figure 3-10 Overall Fireplace Dimensions

3.2.7.1 Rough Framing Dimensions

The Rough Framing Height must be maintained to allow this fireplace and the 90-degree elbow connected directly to the top, on certain vent systems, to slide into the framing cavity. Once the fireplace is positioned inside the framed cavity, a secondary nailer stud should be added at a minimum height of 38 inches above the floor level

	Minimum Rough Framing Dimensions				
	DESCRIPTION DIMENSION (INCHES)				
Α	Width	39-1/4			
В	Height	47-9/16"			
С	Depth	21-1/2"			
D	Vent opening height	10-3/4"			
Е	Vent opening width	10-3/4"			

of this fireplace. The nailer stud will allow for securing facing materials.

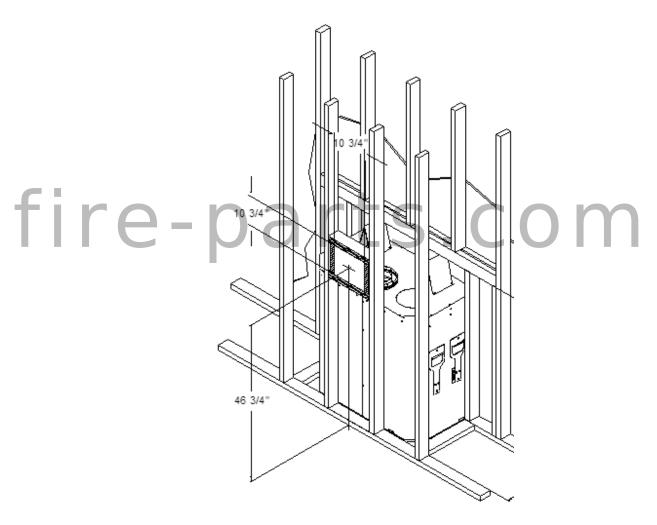


Figure 3-11 FRAMING METHOD

3.2.7.2 Constructing the Appliance Chase

A chase is a vertical box-like structure built to enclose this fireplace and its vent system. Vertical vents that run on the outside of a building may be, but are not required to be, installed inside a chase.

Construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Local building codes **MUST** be adhered to.

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

Wall, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, in regions where cold air infiltration may be an issue, the inside surfaces of the chase may be sheet rocked and taped for maximum air tightness.

To further prevent drafts, the fire stops should be caulked with high temperature caulk to seal the gaps. Gas line holes and other openings should be caulked with high temp caulk or stuffed with unfaced insulation. If the appliance is being installed on a cement slab, a layer of plywood may be placed underneath this fireplace to prevent conducting cold up into the room

3.2.8 **ELEVATED FRAMING DIMENSIONS**

This fireplace may be installed in an elevated position by created an elevated deck and an appropriate framed enclosure.

NOTE: This fireplace may be elevated but MUST allow a minimum of 60" distance between this fireplace's floor level and the ceiling.

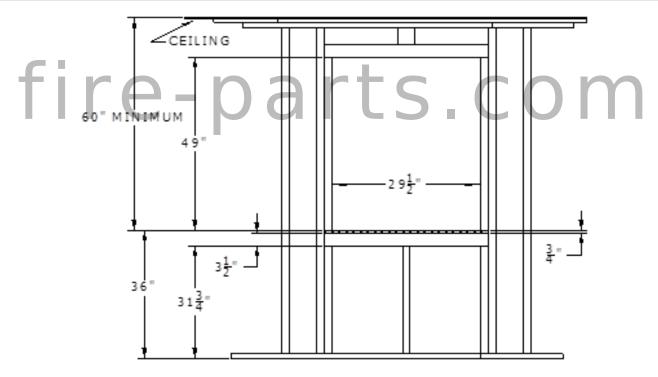


Figure 3-12 ELEVATED FRAMING DIMENSIONS



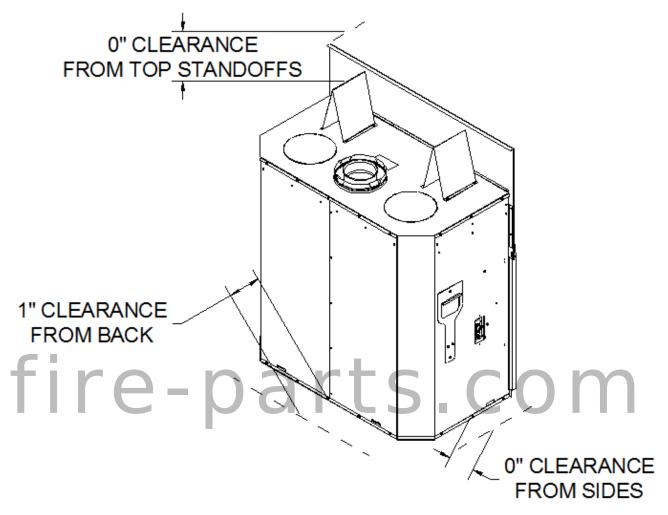


Figure 3-13 CLEARANCES TO APPLIANCE BODY

3.2.10 Clearances to Combustible Side Walls

The minimum distance required from the side edge of the visible glass to a combustible side wall is 18". Combustible side walls, mantel corbels, mantel legs and other combustible walls and decorative objects must fall behind a 45-degree line extending outward from the side edges of the visible glass unless such objects are more than 18" away from the visible side edges of the glass.

If the required clearance cannot be met to a pre-existing combustible side wall, an NFPA approved clearance reduction shield, metal or ceramic board, must be added to the side wall.

3.2.10.1 Horizontal Clearance Reduction by 66%

NPFA 211 Approved: Install 20-gauge or heavier steel shield that provides at least a 1" active airspace, on the combustible wall surface. To provide for active airflow, install at least 1" metal or ceramic standoffs or spacers between the metal shield and the combustible surface being protected. The bottom and top edges of the cavity between the metal shield and the combustible surface must be left open. The steel shield must be a minimum of 12" larger in each direction than the surface area of the source of heat; or if the surface being protected is smaller than surface area of the source of heat, this shield must be larger than the combustible surface in each direction.

By using this method of protection, if the required horizontal clearance was 18", the resulting clearance will be reduced by 66% to 6" between the heat source and the metal shield.

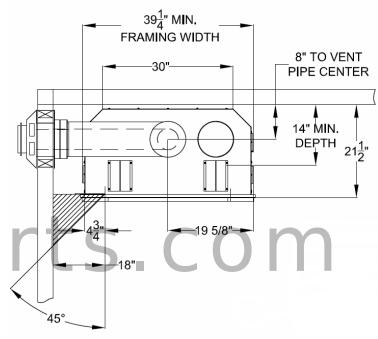


Figure 3-14 CLEARNCES TO SIDE WALLS

3.2.10.2 Horizontal Clearance Reduction by **50**%

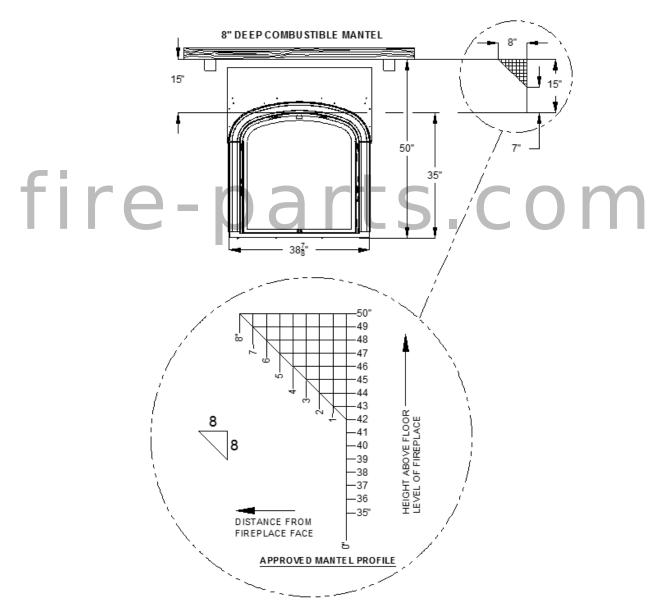
NPFA 211 Approved: Install an R-1 rated ceramic board or R-1 rated mineral board on the wall you are attempting to protect. by using this method of protection, if the required horizontal clearance was 18", the resulting clearance will be reduced by 50% to 9" between the heat source and the R-1 Rated wall board.

3.2.11 Clearances to Combustible Mantels

An 8" combustible mantel may be installed at a minimum of 15" above the top of the heat outlet (50" up from the floor level of this Fireplace). Non-combustible (marble, brick, stone, metal etc.) mantels can be installed at any desired height above the top convection air opening. Any pre-existing combustible mantel must fall within the approved mantel profile chart.

WARNING: Make proper use of this chart. Do not compromise the specifications contained in this chart. Failure to adhere to proper clearances required to combustibles may cause spontaneous combustion of the mantel and may result in a fire causing property damage, personal injury or loss of life.

NOTE: For mantels that protrude more than 8 inches from the front surface of the fireplace use a rise and run of (1:1) to calculate the required height to the mantel. **EXAMPLE:** You have a 12" mantel. To calculate the height above the convection air opening the equation would be: $12" \times (1/1) + 7" = 19"$ above the convection air opening. DO NOT deviate from this minimum clearance requirement. Doing so can lead to a severe fire hazard.



Note: The distance from the Floor Level of this Fireplace to the Top Air Gap is 34".

Figure 3-15 Mantel Clearances

3.2.13 Hearth Pad Requirement

A non-combustible hearth protector with a thermal insulation rating of R-1 is required when installing this fireplace directly on the floor and must extend a minimum of 24" in front of this fireplace.

For every 1" the fireplace is raised off the floor, the depth of the required hearth protector may be reduced by 2". If fireplace is raised off the floor 6" or more, no hearth protector is required for fire protection.

Caution: The fireplace creates localized heat and causes thermal expansion of adjacently installed flooring and wall materials. Vinyl floors and floating Engineered wood floors may warp if installed in front of this unit even when this fireplace is raised 6" or more due to local heating up of the floor materials. Never use vinyl or Engineered wood flooring in the hearth pad area in front of this fireplace unless you plan to raise this unit 12" or more above the floor level.

Caution: Modern carpets use polypropylene, nylon or polyester fibers in the upper visible layer. These fibers when exposed to radiant heat can curl and stiffen. It is not possible to prevent radiation effects to the carpet fibers even when this unit is raised high. Avoid installing carpets in the hearth pad area in front of this Fireplace unless this fireplace is raised at least 12 inches above the carpet level.

3.2.13.1 Hearth Pad Guide [Usage and Removal]

This fireplace is shipped with a Hearth Pad spacer Installed. The purpose of the Hearth Pad Spacer is to allow room for the basic decorative front required for each of these units. DO NOT build a Hearth pad that is more than 1-1/2" thick. Doing so will not allow installation of decorative fronts on this fireplace.

NOTE: This fireplace may be elevated but MUST allow a minimum of 72" distance between this fireplace's floor level and the ceiling of the room.

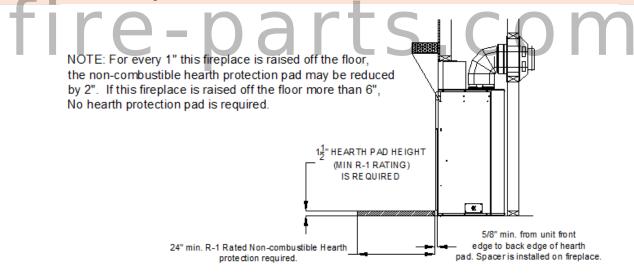


Figure 3-16HEARTH PAD GUIDE

3.2.14 Suitable Mantel, Facing & Hearth Pad Materials

Use of ceramic glazed tiles as facing materials around a Mendota Fireplace is approved. Use caution when selecting tile adhesives. Avoid premixed tile adhesives which contain products that can off gas for long periods when exposed to heat. Use Portland cement based unmixed tile adhesives or RTV Silicone to attach ceramic glazed tiles as facing in hot areas around this Fireplace. If using RTV silicone, allow a minimum 48 hours cure time for the silicone to cure before firing this Fireplace after tile application.

3.2.14.1 Marble, Granite and Natural Stones

Marble, granite and other natural stone products are approved for use as mantel, facing and hearth pad materials with the following limitations and understanding of these cautionary statements:

Never use a one-piece marble, granite or natural stone that is water jet or mechanically cut in a U-shape as facing material to cover the sides and top areas around this product. Doing so can lead to crack formation at the inner corners of the U shape due to thermal expansion.

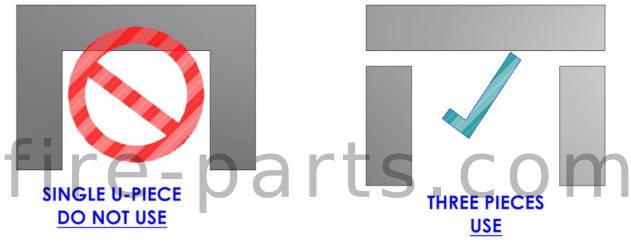


Figure 3-17 Three Piece Stone

Most marble slabs and marble tiles contain a polyester resin coating while most granite slabs and granite tiles contain epoxy resin coatings. The polyester resin coatings and the epoxy resin coatings provide structural strength to the stone slabs and prevent cracking, chipping and breakage during shipping and handling. These coatings also provide a glossy or satin surface finish and help seal the stone surface.

The polyester resin used on marble slabs can discolor when exposed to temperatures greater than 150°F and will structurally fail at temperatures above 230°F. The epoxy resin coating used on granite slabs are resistant to discoloring and structural failures up to 350°F. Mendota does not assume any liability for discoloring, flaking or cracking of marble or granite.

Temperatures on facings around Mendota Gas Fireplaces can reach 350°F directly outside the top convection air gap and as high as 210°F at the maximum allowed mantel protrusion level above the top convection air gap. These temperatures can discolor polyester resin coated marble facings and can cause the polyester resin coating to fail near the top convection air gap.

Mendota Fireplace cannot guarantee suitability of use of any marble slabs or tiles that have a polyester resin coating applied to it and cannot guarantee against discoloration or structural failure of marble or polished stone facings that have a polyester resin coating. Consult with your local stone supplier.

Prior to use of any marble, granite or polished stone facing material, especially white colored ones, run heat exposure tests on a sample piece. Expose sample pieces to temperatures between 275°F and 350°F for a period of eight hours. Compare the heat exposed sample to a control unheated piece and judge for color changes. Do not use if any color changes are evident.

Mendota recommends the use of honed bare marble and bare stone facing materials or honed bare granite and epoxy resin coated granite only.

Mendota cautions that due to natural structural defects that can exist within marble and stone pieces, cracking and/or flaking of the marble or stone is possible and must be considered prior to selection and application around Mendota Fireplaces. Mendota further cautions that proper adhesives be used to attach stone facings. Pay attention to the potential of off-gassing of chemical vapors from mastic and other adhesives. Improper selection can lead to emission of chemicals with unwanted smells.

3.2.14.2 Suitable Backer Materials R-Ratings

R-Values of common Backer Materials				
Material	Thickness	R-Value		
Mineral Fiber Board (Micore 160)	1/2"	1.270		
Mineral Fiber Board (Micore 300)	1/2"	1.030		
Mineral Fiber Board (Micor SB)	1/2"	1.470		
Cearmic Board (Rescor 360)	1/2"	1.110		
Cearmic Board (Fiberfrax Duraboard LD)	1/2"	1.100		
Skamolex (475, 600, 700, VIP-12, HD)	1"	0.410		
Promat Promafour	1"	0.410		
Gypsum or Plaster Board	1/2"	0.450		
Cement Board (Hardibacker 500)	1/2"	0.200		
Cement Board (Hardibacker)	1/4"	0.130		
Common Brick	2-1/4"	0.450		
Common Brick	4"	0.800		

Common Bi		-	0.000				
3.2.14.3 Suitable Finishing Materials R-Ratings							
	R-Values of Co	R-Values of Common Facing Materials					
	Material	Thickness	R-Value				
	Cement Mortar	1/2"	0.100				
	Concrete	1"	0.095				
	Ceramic Tile	1/4"	0.020				
	Flagstone	1"	0.079				
	Granite	1"	0.083				
	Limestone	1"	0.153				
	Marble	1"	0.090				
	Sandstone	1"	0.079				
	Slate	1"	0.100				

3.2.14.4 Suitable Paints and Sealant Materials

3.2.14.4.1 Paint Types Approved for Use

Industrial Acrylic Paints, Alkyd based Paints. When selecting paint for applications on facings, mantels, corbels or floors within 2' in front of a fireplace raised 6" or higher, avoid off the shelf paints which may have modifier additives used to increase "hiding" ability, accelerate drying times and curing times. Consult with a reputable paints and sealants supplier and acquire industrial acrylic paints or alkyd-based paints.

3.2.14.4.2 Sealants Type Approved for Use

Heat resistant polyurethane sealants which are not damaged by prolonged exposure to raised temperatures. Many are flame resistant, meaning that they resist ignition when exposed to high temperatures and can insulate the substrate and delay damage to it. When selecting polyurethane for applications on facings, mantels, corbels or floors within 3' in front of or above a fireplace, avoid off the shelf urethane sealants which may have modifier additives used to accelerate drying times and curing times. Consult with a reputable paints and sealants supplier and acquire heat resistant polyurethane sealants.

3.2.14.4.3 Wood Application Cautions

If wood used around or in front of the fireplace has been chemically cleaned or bleached prior to staining or painting, it is of the utmost importance to make certain that the cleaner or bleach does not remain in the wood substrate under the final paint or sealant applied. If any cleaner or bleach remain within the wood structure, application of heat from the fireplace, even low-level heat, will cause the cleaner or bleach compounds to expand or evaporate causing separation of the paint or sealant from the wood surface and may cause peeling or bubbling of the paint or sealant.

Moisture content of the wood substrate is also of critical importance. High moisture content wood when heated will yield evaporation of the moisture and hydraulic pressure under the paint or sealants which can lead to peeling or bubbling. Always select the lowest moisture content wood substrate.

Refer to Mendota Fireplace Curing Instructions, Chapter 3.1.1.

3.2.15 FRAMING DEPTH and FINISHING MATERIAL THICKNESS

The framing depth for this fireplace is 21-1/2 inches. This is a fixed depth required for all installations except a corner installation. For corner installations, see figures 1 and 4.

All finishing materials that surround this fireplace's arch profile must extend out from the face surface of this fireplace. In the area defined as "NONCOMBUSTIBLE ZONE" [FIGURE 7], only NONCOMBUSTIBLE MATERIALS ARE ALLOWED.

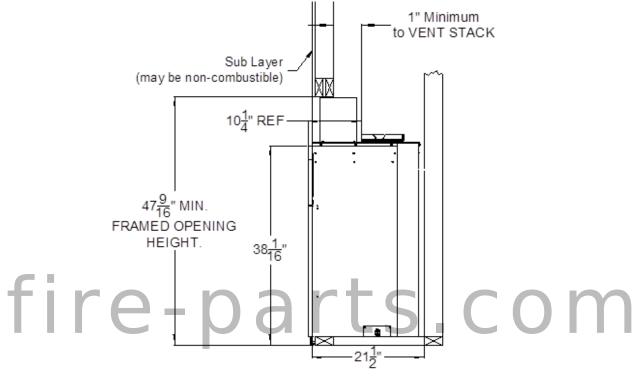


Figure 3-18 FRAMING DEPTH/ FINISHING MATERIAL THICKNESS

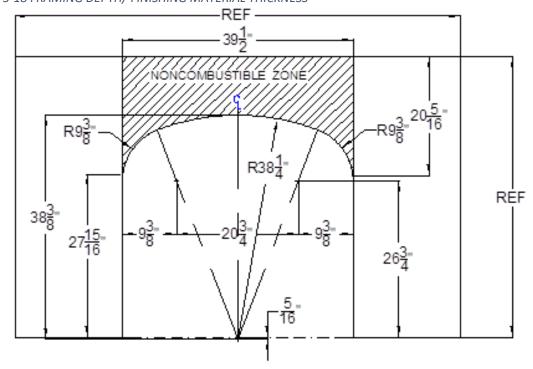


Figure 3-19 NON-COMBUSTBLE ZONE

3.2.16 Finishing Materials Cutting Dimensions

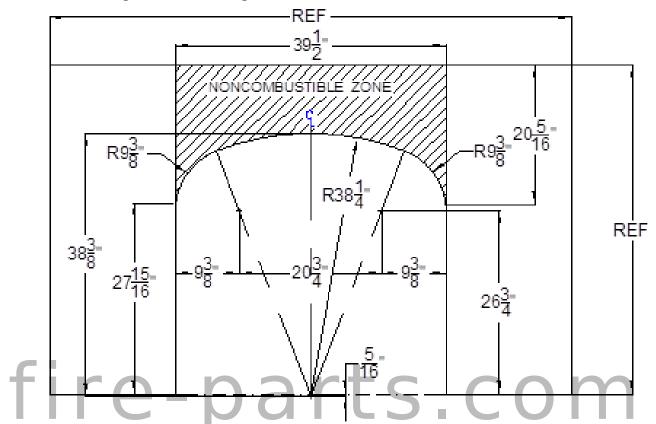


Figure 3-20 FINISHING MATERIALS CUTTING DIMENSONS

3.2.17 Recommendations for Television Installation

Note: The model depicted in the images is a representation of a Mendota Hearth fireplace. These recommendations apply to all Mendota Hearth Fireplaces.

When planning to install a television or other heat sensitive product above your fireplace, there are some points to consider.

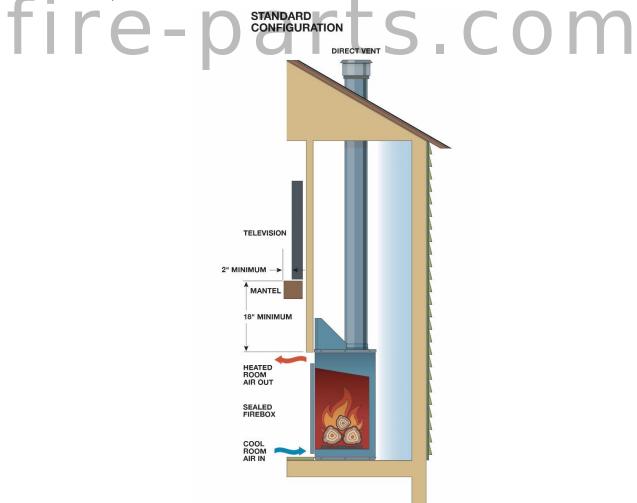
Many television manufacturers specify in their installation instructions that the television must not be installed near or above a heat source. The decision to install a television near or above a Mendota fireplace rests solely on the consumer. It is the consumers responsibility to satisfy television specifications and insure the television will not exceed maximum operation temperatures. Mendota Hearth will not be held liable for any adverse effects on a television or other products located near to a Mendota Hearth fireplace.

The drawings below show recommendations that may be used as a guide for those consumers that decide to locate a television above a Mendota Hearth fireplace. These recommendations have been found to reduce the heat impact to a television when installed above a Mendota Hearth fireplace.

3.2.17.1 Recommendation 1: Add a mantel

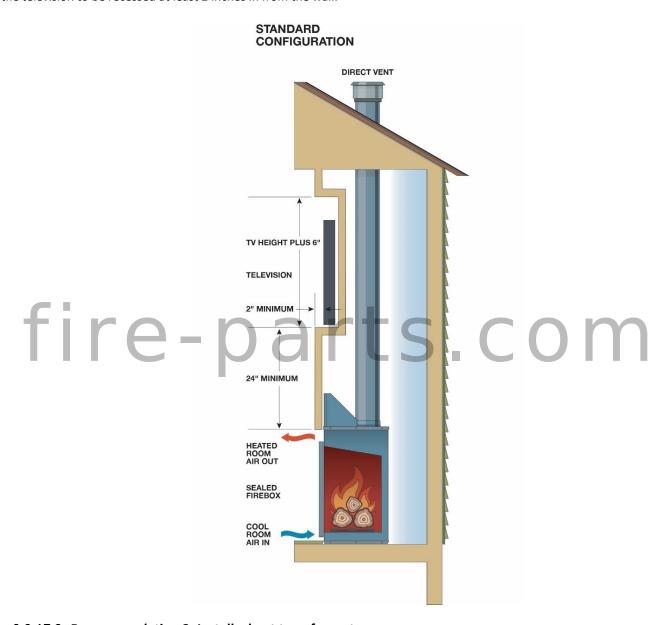
Add a mantel above the fireplace. The mantel shall be at least 2 inches deeper than the depth of the television, and at least as wide as the television. The mantel shall be mounted so that its top surface is a minimum of 18 inches above the top air gap of the fireplace.

Attention: If the mantel is constructed of combustible materials, make certain that the entire mantel meets the clearances to combustible mantel requirements.



3.2.17.2 Recommendation 2: Create a recessed cavity

Frame a recessed cavity above the fireplace. The cavity shall be at least 6 inches taller and 6 inches wider than the television. The cavity's bottom surface must be a minimum of 24 inches above the top air gap of this fireplace. The cavity must be deep enough for the television to be recessed at least 2 inches in from the wall.



3.2.17.3 Recommendation 3: Install a heat transfer system

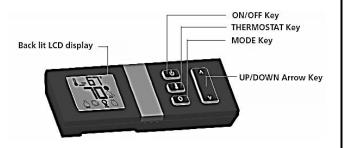
Mendota Hearth offers three heat transfer systems that take heat from the fireplace and redirect it to another area. When used correctly these heat transfer systems can make it possible to mount a television above the fireplace without installing a mantel or creating a recessed cavity.

Note: Heat transfer systems are not available for use on M27 model fireplaces.

WARNING: The convection fans on the fireplace must be turned off to insure the heat from the fireplace is redirected through the heat transfer system. Turning the convection fans on will force heated air out the front of the fireplace, heating the surrounding area.

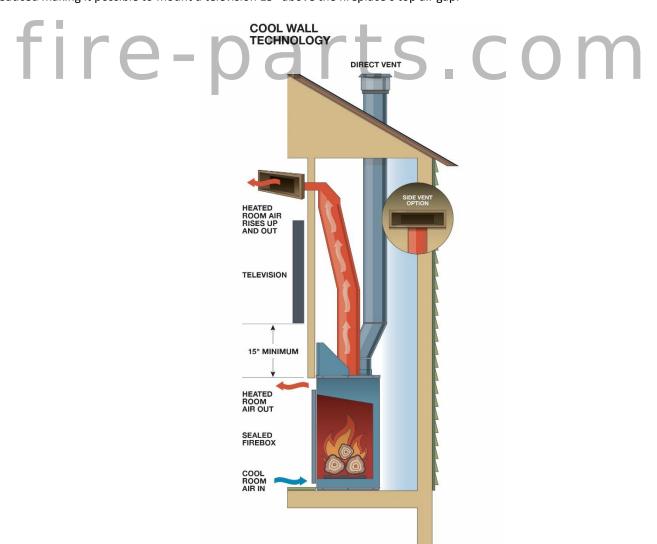
- On fireplaces with a millivolt system: DXV35 Timberfire, DXV42, DXV60, M50 the convection fans must be disconnected from power to insure they cannot be turned on.

- On fireplaces with electronic ignition system that come with a PF2 remote the convection fans function must be programed out of the remote. This will ensure that the convection fans cannot be turned on. Follow the directions below to remove the convection fans function from the remote.
 - 1. Remove a battery from the remote.
 - 2. Hold down both the ON/OFF key and MODE key and reinstall the battery.
 - 3. Continue to hold the ON/OFF key. Release the MODE key. Press the MODE key once to highlight the convection fan function.
 - 4. While still holding the ON/OFF key press the DOWN ARROW key. The display will change from "Set" to "Clr" to indicate that the convection fan function has been disabled.
 - 5. Release the ON/OFF key.



3.2.17.3.1 Mendota Cool Wall

The Mendota Cool Wall system uses natural convection to take heat off the wall directly above the fireplace and redirects it up and away from surrounding areas. Testing has shown that when using a Cool Wall system, temperatures above the fireplace are reduced making it possible to mount a television 15" above the fireplace's top air gap.



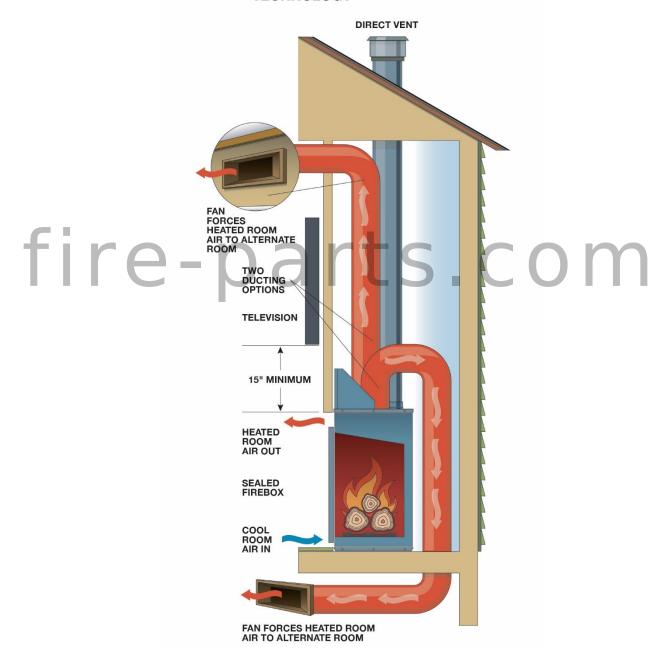
3.2.17.3.2 Versiheat

The Versiheat system uses a fan to redirect heat from the fireplace to an alternate room in the home.

WARNING: To reduce temperatures above the fireplace for mounting a television the Versiheat system must always be on when the fireplace is in operation. Because the Versiheat system must be running to reduce temperatures the fireplace cannot be operated during a power outage.

Testing has shown that when using two Versiheat systems temperatures above the fireplace are reduced making it possible to mount a television 15" above the fireplace's top air gap.

VERSIHEAT TECHNOLOGY



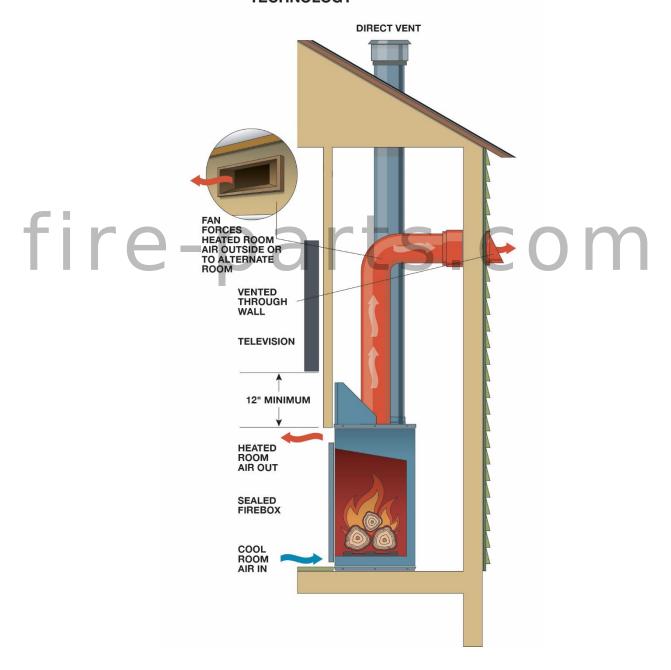
3.2.17.3.3 FlexHeat

The FlexHeat system uses two inline fans to redirect heat from the fireplace outside the home or to an alternate room in the

WARNING: To reduce temperatures above the fireplace for mounting a television the FlexHeat system must always be on when the fireplace is in operation. Because the FLexHeat system must be running to reduce temperatures the fireplace cannot be operated during a power outage.

Testing has shown that when using the FlexHeat system temperatures above the fireplace are reduced making it possible to mount a television 12" above the fireplace's top air gap.

FLEXHEAT TECHNOLOGY



3.2.18 **Venting**

The M50 Fireplace must be vented to the outside and must use one of the approved coaxial rigid ducting systems. Do Not Use any silicone sealants at pipe joints. Stove gasket cements may be used at pipe joints but is not required.

The M50 Fireplaces requires coaxial rigid-5" diameter exhaust & 8" diameter air inlet and approved vent caps for most installations. In some special cases, flexible ducting may be used. Contact Mendota Technical Service Department if your installation requires other than standard rigid 5" X 8" Coaxial venting components.

All UL Listed Coaxial Rigid 5" X 8" Vent pipe components and vent caps are approved for use. Do not mix components of different brands or series. Always use the same brand and series components throughout the entire vent system.

All warranties will be voided and serious fire, health or other safety hazards may result from any of the following actions: Installation by unauthorized personnel; installation of any damaged component; unauthorized modification of vent system; installation of any components not approved by Mendota; failure to meet all clearance requirements; failure to properly twist-lock and positively seal all components. Consult local building codes before beginning the installation.

WARNING: Always maintain required clearances (air spaces) to combustibles to prevent a fire hazard. Do not fill air spaces with insulation. Check installation instructions for minimum clearance requirements between the outer walls of the vent pipe and nearby combustible surfaces. Be sure to check the vent termination clearance requirements from decks, windows, soffit, gas regulators, air supply inlets, and public walkways, as specified in these installation instructions and local building codes.

SAFETY PRECAUTIONS FOR THE INSTALLER: 1) Wear gloves and safety glasses for protection; 2) Exercise extreme caution when using ladders or on rooftops; and 3) be aware of electrical wiring locations in walls and ceilings.

This gas appliance and vent system must be vented directly to the outside of the building, and never attached to a chimney serving another solid fuel or gas burning appliance. Each direct vent gas appliance must have its own separate vent system. Common vent systems are prohibited.

To assure proper venting performance of this high-performance Mendota Direct Vent Fireplace, it is critical that all brands of vent pipe sections are sealed tightly and leak-proof. This means that all pipe sections must be carefully rotated into the fully "twist-locked" position.

We strongly recommend that fixed length pipe sections be used in place of telescoping sections whenever possible.

3.2.18.1 COMPONENT "TWIST-LOCK" CONNECTION PROCEDURE

DuraVent and American Metals pipe and fittings are designed with special twist-lock connections. Twist-lock procedure is as

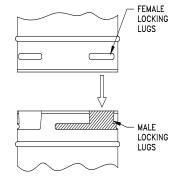
follows: four (4) indentations, located on the female ends of pipes and fittings are designed to slide straight in to the male ends of the adjacent pipes and fittings, by

orienting the four pipe indentations so that they match and slide into the four entry slots on the male ends.

Push the pipe sections completely together then twist-lock one section clockwise, approximately ¼ turn until the two sections are fully locked. The female locking lugs will not be visible from the outside on the black pipe or fittings. They may be located by examining inside of the female ends.

3.2.18.2 Wall Heat Shield for Horizontal Vent Caps

Always use heat shield (#AA-11-00458) when the exterior wall covering is made of vinyl, wood or other combustible materials. Heat shield (#AA-11-00458) or an equivalent heat shield shall be installed. This Heat shield is available for order directly from Mendota fireplaces.



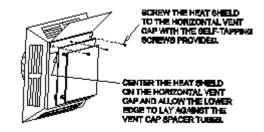
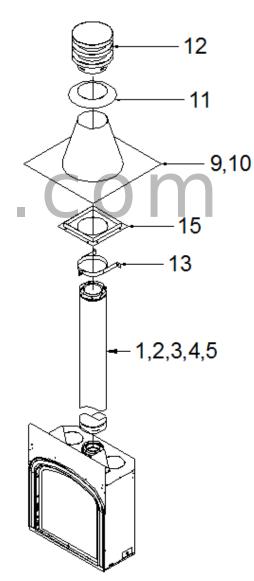


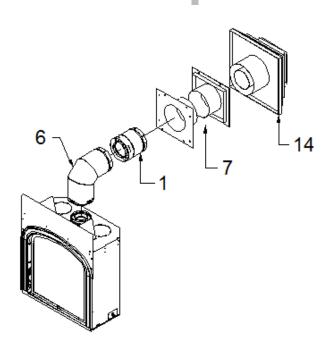
Figure 3-21WALL HEAT SHIELD

3.2.18.3 Flue Venting Components Identification Diagrams

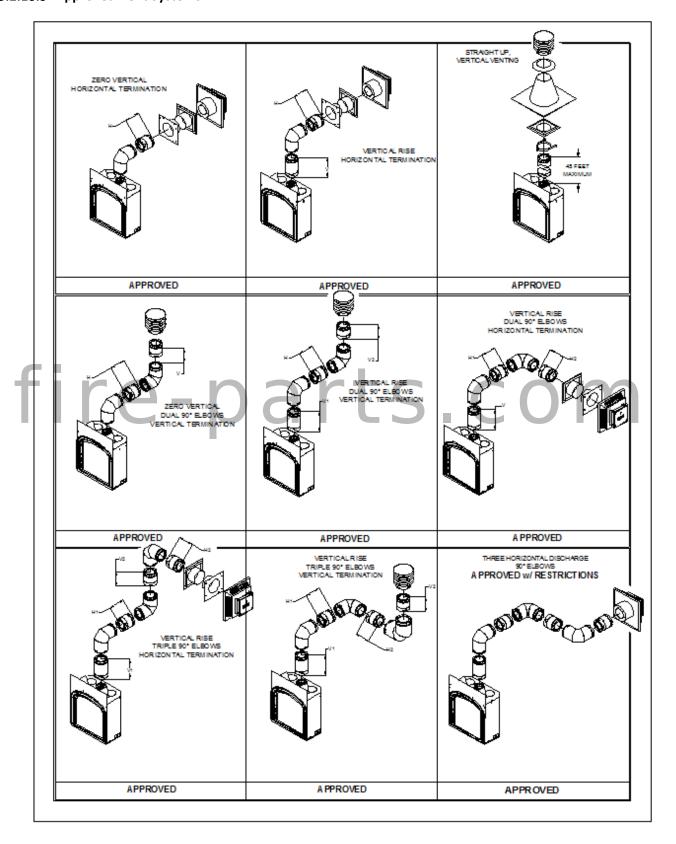
Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

ITEM	DESCRIPTION			
1	6" or 7" PIPE (DuraVent 6"/Amerivent 7"), 9", 12"			
2	12" VENT STACK			
3	24" VENT STACK			
4	36" VENT STACK			
5	48" VENT STACK			
6	90°GALVANIZED ELBOW			
6a	45° GALVANIZED ELBOW			
7	ADJUSTABLE WALL THIMBLE			
8	ATTIC INSULATION SHIELD 12"			
9	ROOF FLASHING (0/12 TO 6/12)			
10	ROOF FLASHING (7/12 TO 12/12)			
11	STORM COLLAR			
12	VERTICAL VENT CAP			
13	SUPPORT BAND			
14	HORIZONTAL VENT CAP			
15	FIRE STOP SPACER			



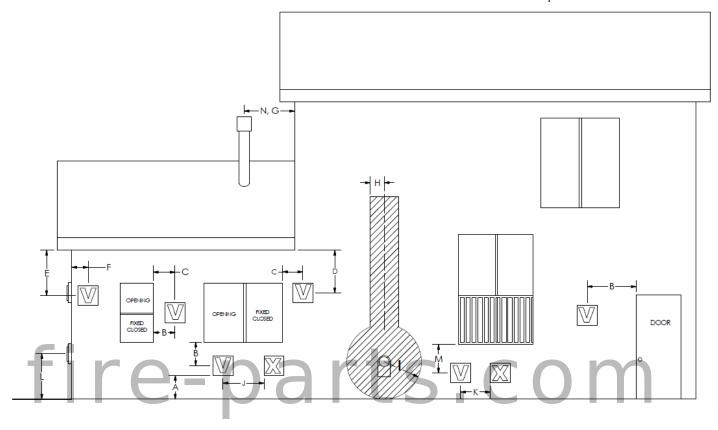


3.2.18.5 Approved Vent Systems



3.2.18.7 Exterior Vent Locations and Restrictions

Note: All measurements are to be taken from the center of the vent cap.



,	✓ - Vent Terminal	X - Air Supply Inlet		≡ - Area where terminal is not permitted	
A =	Clearance above grade, veranda, porch, deck, or balcony (*18 inches (45 cm) minimum)		H =	*Not to be installed above a meter/regulator assembl within 3 feet (90 cm) horizontally from the center-line of the regulator; within a height of 15 feet	
B =	Clearance to window or door that may be opened (*18 inches (45 cm) minimum.		l =	*Clearance to service regulator vent outlet *3 feet (92 cm) minimum.	
C =	*Clearance to permanently closed window (minimum 18 inches (45 cm) recommended to prevent condensation on window)		J =	*Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance. 12 inches (30 cm) minimum.	
D =	*Vertical clearance to ventilated soffit located above the terminal from the center-line of the terminal 18" (45 cm) min. Minimum 24" (60 cm to Vinyl Soffit)		K =	*Clearance to a mechanical air supply inlet In USA, 3 feet minimum above, if within 10 feet horizontally. In Canada, 6 feet minimum	
E =	*Clearance to unventilated soffit 18" min (45 cm) min. Minimum 24" (60 cm to Vinyl Soffit)		L =	† Clearance above paved side-walk or a paved driveway located on public property (*7 feet (2.1 m) minimum)	
F =	Clearance to outside corn	er - 12 inches (30 cm).	M =	Clearance under veranda, porch, deck, or balcony (*18 inches (45 cm) minimum ‡)	
G =	Clearance to inside corner - 12 inches (30 cm). Vinyl surfaces require 24" min (60 cm).		N=	Minimum 24" horizontal clearance to any surface, such as an exterior surface, for vertical terminations.	

3.2.18.8 Side by Side installation of two Vent Caps

When two or more vertical vent caps are located within proximity of one another, it is required that a galvanized steel 18-gauge or heavier barrier wall be installed between the two vent caps to eliminate recirculation of exhaust gases from one cap to another.

The galvanized steel barrier shall be 6" taller than the highest point of the vent caps and shall be 3" wider past the outer edges of the vent caps.

If two gravity direct vent system gas appliances are terminated next to each other, the minimum required distance between the vertical center line of the vent caps is 18" to prevent recirculation of exhaust from one vent cap outlet into the air intake of another vent cap.

If a wood burning flue opening is adjacent to a gravity direct vent system gas appliance vent cap and the distance between vertical center lines of the two terminations is less than 36", we recommend a metal divider plate be installed to prevent wood burning exhaust from entering the gas appliance air intake path. Alternatively, you may also vertically extend the wood burning flue liner up 24" higher than the top surface of the gas appliance vent cap.

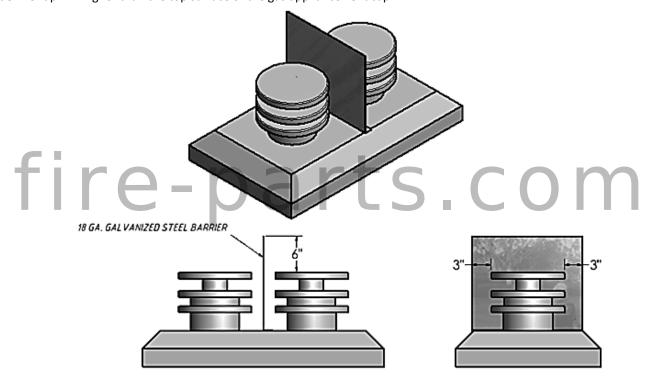


Figure 3-22 Side by Side Vent Caps

3.2.18.9 Decorative Cover for Vent Cap

It is acceptable to install a decorative stone, metal or terra cotta cover to disguise the vent terminal/cap used on Mendota Fireplaces if the decorative cover meets the following minimum requirements:

- 1. The decorative cover shall be manufactured from noncombustible materials.
- 2. The decorative cover shall provide a minimum of 3" clearance from the outer surface of the vent cap to the inner walls of the decorative cover on all sides of the vent cap, including on top above the vent cap.
- 3. Fresh air openings shall be provided at a level equal to or below the fresh air openings in the vent cap. The fresh air openings shall provide a minimum open area of 60 square inches. This fresh air opening area shall be broken into at least two equal openings (or more if possible). Each opening shall have a minimum height of 2" and a length that provides the required opening to yield a total of 60 square inches, minimum.
- 4. The fresh air openings shall be protected in a manner that prevents the accumulation of snow which can plug the fresh air openings.
- 5. Exhaust outlets must be 2X in area compared to the exhaust outlet openings of the vent cap and the exhaust outlets must be positioned starting at the same level or higher than the lowest level of the exhaust outlet ports of the vent cap.

Examples of Decorative Covers for Vent Caps











Figure 3-23 Decorative Covers

3.3 ELECTRICAL TECHNICAL REFERENCES

3.3.1 AC Power Requirements

WARNING: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

For operation of the blowers, this appliance requires 120 VAC, 2 Amp power source. The AC power supply to this Fireplace must be hot at all times and shall not have a switch installed in it.

This appliance is equipped with an electrical junction box on the right side.

3.3.2 Planning for AC Power Connection

On the right-side, you will find an electrical junction box with a strain relief clamp. To connect AC power to this Fireplace, follow these steps:

- Remove the junction box cover plate (secured with two screws), route the 3-wire end of house power wire cable through the strain relief in the cover plate.
- Strip the ends of the house power wires and the three-color coded wires within the junction box. Connect each color-coded wire to corresponding colored wires within the junction box. Use the supplied wire nuts to connect each wire pair ends.



Note: When connecting two braided wires using wire nuts, strip both braided wires ends at least ½" and twist the two bare ends together before using wire nuts. When connecting a braided wire to a solid copper wire, strip the solid copper wire end ½" and the braided wire end ¾". Twist the braided wire around the solid copper wire end before applying the wire nut.

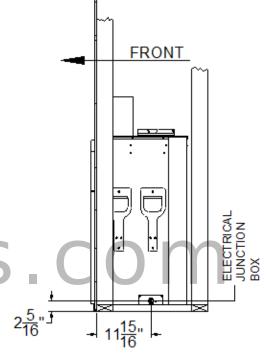


Figure 3-24 Electrical Junction Box

3. Place connected wire ends within junction box then close and secure the junction box cover plate.

3.3.2.1 AC Power Connection Option

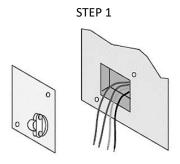
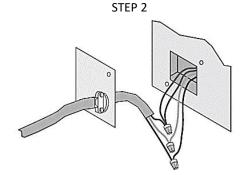
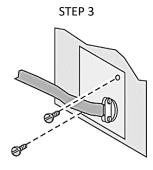
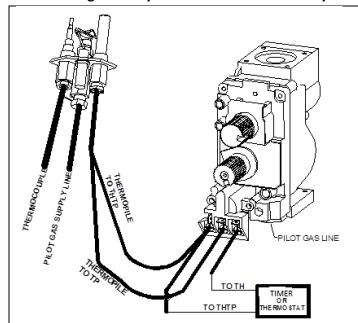


Figure 3-25 Wire Connections



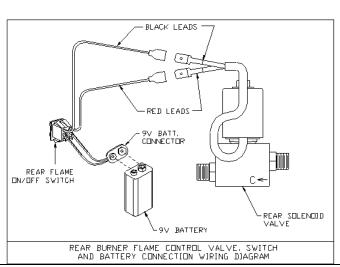


3.3.4 Ignition System & Burner Controls System Diagrams



Note: Connect wires in junction box located on the right side of this appliance to house power using supplied wire nuts.

Replacement wires must have the same type and size of insulation as the original.



This appliance must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current NFPA 70- National Electric Code or CSA C22.1- Canadian Electrical Code.

Label all wires prior to disconnection when servicing control. Wiring Errors can cause improper and dangerous operation. Verify proper operation after servicing.

3.3.5 Convection Blower System

Dual blowers are provided as standard equipment with this M50 Fireplace. The dual blowers have an air output rating of 190 CFM (in free air). This Fireplace is designed to operate with the blowers turned off or on. Turning the blower on aids in distributing and circulating heat to the room this Fireplace is installed in.

3.3.5.1 BLOWER OPERATION

The blower speed control (rheostat) supplied with this blower system can turn the blowers ON or OFF and infinitely regulate the speed of the blowers. The blower air output can be regulated by turning the rheostat knob.

NOTE: There will be a time delay in blower operation during "heat-up" (approx. ½ hour) and extended blower operation during "cool-down" of unit (approximately ½ hour).

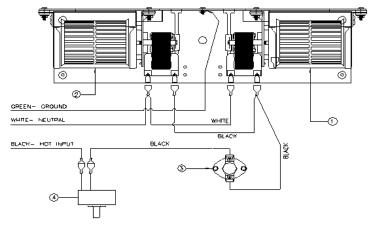


Figure 3-26 BLOWER CIRCUIT DIAGRAM

3.4 PLUMBING TECHNICAL REFERENCES

3.4.1 Gas Supply Requirements

NOTE: if Fireplace is to be operated with LP gas, see Natural Gas to LPG Conversion Section in this manual before proceeding.

CORRECT GAS PRESSURE AND PROPER GAS SUPPLY LINE SIZING IS IMPERATIVE TO THE SUCCESSFUL PERFORMANCE OF YOUR MENDOTA GAS FIREPLACE. BE SURE THE GAS SUPPLIER OR PLUMBER CAREFULLY CHECKS FOR CORRECT GAS PRESSURE AND GAS LINE SIZING WHEN INSTALLING THE FIREPLACE.

IT IS CRITICAL TO CAREFULLY CHECK FOR GAS LEAKS WHEN HOOKING UP THE FIREPLACE. CHECK WITH SOAP AND WATER SOLUTION OR COMBUSTIBLE GAS SNIFFER.

BE SURE TO INSTALL CSST FLEX GAS LINE WITH BRASS-TO-BRASS FITTINGS TO PREVENT GAS LEAKS AT CONNECTIONS.

GAS SUPPLY PIPING MUST INCLUDE A DRIP LEG TO ELIMINATE THE POSSIBILITY OF CONTAMINANTS ENTERING THE GAS TRAIN. ADHERE STRICTLY TO LOCAL AND NATIONAL CODES.

3.4.2 Gas Supply Line Sizing

This Mendota Gas Fireplace comes equipped with a 1/2" N.P.T. Female inlet. Gas supply piping must enter the Fireplace cabinet on the left side.

Use the table, below, to determine the proper gas line diameter that must be installed to run from the supply regulator to the factory installed manual shutoff valve. Refer to the following table for proper gas pipe diameters.

PIPE LENGTH [FEET]	SCHEDULE 40 PIPE INSIDE DIA.		TUBING, TYPE L OUTSIDE DIAMETER	
	NAT.	L.P.	NAT.	L.P.
0-10	1/2" [1.3 cm]	3/8" [1.0 cm]	1/2" [1.3 cm]	3/8" [1.0 cm]
10-40	1/2" [1.3 cm]	1/2" [1.3 cm]	5/8" [1.6 cm]	1/2" [1.3 cm]
40-100	1/2" [1.3 cm]	1/2" [1.3 cm]	3/4" [2.0 cm]	1/2" [1.3 cm]
100-150	3/4" [2.0 cm]	1/2" [1.3 cm]	7/8" [2.3 cm]	5/8" [1.6 cm]
150-200	3/4" [2.0 cm]	1/2" [1.3 cm]	7/8" [2.3 cm]	3/4" [2.0 cm]

NOTE: Some areas allow copper tubing or galvanized pipe - check with local approval agencies and codes NEVER_use plastic pipe.

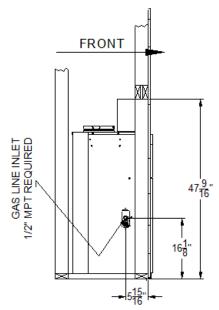


Figure 3-27 Gas Line Inlet Location

3.4.3 Gas Pressure Requirements and Checking

Two pressure taps for checking input and output gas pressures are located on the main gas valve. A qualified installer should use this fitting for setting the correct gas pressure during initial installation.

The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its equipment shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

3.4.4 **Drip Leg Requirement**

A drip leg/ sediment trap must be installed within the main gas supply line serving this appliance.

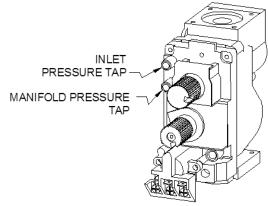


Figure 3-28 Main Gas Valve

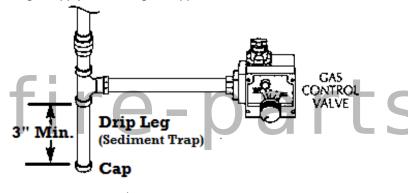


Figure 3-29 Drip Leg/ Sediment Trap

3.4.5 Manual Gas Shutoff Valve Requirement

If local building codes require one, obtain an external keyed wall-mounted or floor-mounted manual gas shutoff valve approved per local gas plumbing codes and install per local gas plumbing codes in the specified location. Local requirements supersede all other codes.



Figure 3-30 Keyed Manual Gas Shutoff Valve

3.4.6 Factory Installed Manual Gas Shutoff Valve

A manual gas shutoff valve is factory installed and located in the left-side above the main gas valve. To operate the manual gas shutoff, open left side door to expose controls. Located manual gas shutoff handle. Rotate clockwise to shut off gas flow or counter-clockwise to turn on gas flow.

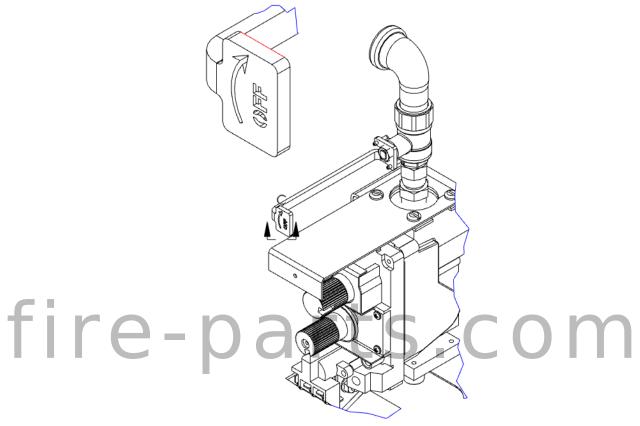


Figure 3-31 MANUAL GAS SHUTOFF

3.4.7 **Gas Inlet Fittings Information**

Caution: Before you run the gas line, read, understand and properly calculate the required gas line size. Improper (too small) gas line size application can lead to improper burner ignition and can cause property damage and/or injury. If you are not qualified or certified to run a gas line, do not proceed. Contact a qualified Gas Plumber.

The gas inlet fitting supplied with this Fireplace provides a 1/2" female NPT fitting. This requires you to supply a ½" NPT male fitting for connection to this appliance.

Based on the gas line size you have selected use an appropriate NPT fitting to adapt and connect to the 1/2" male NPT end adapter.

3.4.8 Gas Input Rate Verification

3.4.8.1 Natural Gas Input Rate Verification

- 1. Verify main orifice size. The main orifice body has the orifice hole size stamped on it. NG orifice size shall be #43 (rear burner) and #35 (front burner) for all elevations in between 0-2000ft. NG orifice size shall be #44 (rear burner) and #36 (front burner) for all elevations exceeding 2000ft.
- Verify that the Manifold Gas Pressure is within 3.5" WC +/- 1/8".
 Once setup, read the main home gas supply meter reading.
- 4. Run this appliance for a period of 30 minutes on maximum flame size. Turn off main burner and pilot flame. Read the main home gas supply meter reading after the 30 minutes of burn time.
- 5. Write the reading here >> final gas meter reading ______ Calculate the following:
- 6. FINAL GAS METER READING INITIAL GAS METER READING...Subtract initial gas meter from final gas meter reading. This will yield the number of Therms used during the 30-minute burn time.
- 7. Multiply the result in Item #6 by 100,000.
- 8. Multiply the result in Item #7 by 2. Write down the result here >>______
- 9. The result in item #8 shall be at least maximum input rate (50,000 Btu) for altitudes below 2000 Feet. For altitudes higher than 2000 feet, the result in item #8 shall be at least 48,000 Btu.

3.4.8.2 LPG Input Rate Verification

10. Verify main orifice size. The main orifice body has the orifice hole size stamped on it. LPG orifice size shall be #54 (rear burner) and #51 (front burner) for all elevations in between 0-2000ft. LPG orifice size shall be #55 (rear burner) and #52 (front burner) for all elevations exceeding 2000ft.

Verify that the manifold gas pressure is within 10.0" WC +/- 1/8".

3.4.9 High Altitude De-Rating

Consult with your local gas supplier regarding high altitude derating necessity. It may not be necessary to change orifice sizes if the gas supply is already adjusted for high altitude usage.

If you are de-rating this appliance at a high altitude, attach the High-Altitude De-Rating Label, supplied in the Owner's Manual Packet, to the back surface of the listing label plate located in the air gap at the bottom of the Fireplace. If you are also converting the Fireplace for LP Gas attach the labels included with the conversion kit to the same surface. Prior to attaching the label, fill in all the information that is requested on the label.

For installations from 610-1370 meters (2000-4500 ft.) the orifice sizes (DMS) for Natural Gas are #44(Rear) and #36(Front) and Propane Gas are #55(Rear) and #52(Front), respectively. See data plate for additional information. For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information sticker must be filled out by the installer and adhered to the appliance at the time of conversion."

This appliance has been converted for use at an altitude of:		
Orifice size:	Manifold Pressure:	
Input (Btu/h):	Fuel Type:	
Date of conversion:	Converted by:	

Cet appreeil a été converti au
Injecteur
Pression à la tubulure d'alimentation
Déoit calorifique

85-03-01121 M50 Page **46**

4 INSTALLATION INSTRUCTIONS

4.1 INSTALLATION CHECKLIST

The instructions provided in this chapter are arranged in the sequence of occurrences.

This installation checklist is supplied as a guide for installers to follow step by step. As you complete each step of the installation work, check mark the completed work item in the list, below. All items in this installation checklist must be completed. When all work is complete, fill in your name and the date this installation was completed.

 □ Unpack the Fireplace body. □ Open and inspect the Manual Packet. □ Unbolt the Fireplace body from the wooden pallet. □ If planning to burn LPG, perform the NG to LPG conversion work. □ Place Fireplace body inside Framed Chase, level and plumb fireplace body and secure to framing studs. □ Open the Fireplace Glass Door. □ Measure chimney Length required. □ Install Vent System. 				
·	·	ealants in vent connection joints anywhere. gth. See 4.10.12 VERTICAL THROUGH-		
THE-ROOF VENTING US				
	of this fireplace and its venting system of minimum prerequisites.	point for the vent system. Mendota has spent m. Through this effort, Mendota has been able cap.		
•		connected directly to the top of this fire-place.		
Prerequisite #3: For vertical starter section	· ·	ce 6 feet off the maximum horizontal run		
allowed per the Master Venting Chart, Zon				
☐ Vent Damper Adjustm		Southalland have Adam data arranged		
	e, wall vent cap or roof vent cap is	installed by a iviendota approved		
•	rdance with instructions.			
-	"twist-locked" and leak-proof.			
Horizontal or vertical instructions.	vent cap is installed "right-side-up"	and tightly sealed to structure per		
	iterior clearances for vent systems	and locations for wall vent cap/roof vent cap		
are maintained.				
	proper size gas lines and gas leaks a			
	e and gas supply is installed in acco	ordance with instructions and local and		
national codes.				
	are not separated. They were used			
Connect Gas Supply to the Fireplace. Verify that gas pressures are proper and perform a complete leak test of all field				
installed gas joints and factory installed gas train joints using a gas sniffer.				
☐ Verify orifice sizes.				
☐ Verify gas input rates.	inculars Sec 2.2.2.1 AC Passer Cons	tion Ontion		
☐ Connect Electrical Supply to the Fireplace. See 3.3.2.1 AC Power Connection Option . ☐ Install firebox inner liner kit. Follow instruction supplied with the Liner Kit.				
The state of the s				
		contared in firehov energing		
	t it is in proper closed position and o	ternered in irrebox opening.		
Test fire Fireplace. Complete warranty registration at http://mandetabourth.com/gas_fireplace_and_staye_registration.php				
	☐ Complete warranty registration at http://mendotahearth.com/gas-fireplace-and-stove-registration.php			
This installation was performed and comple	rtea by:	Date:		

4.2 UNPACKING THE FIREPLACE

The Fireplace arrives from the factory on a wooden pallet with a cardboard box encasing the pallet and Fireplace. To remove the outer box, identify and remove four Philips head drywall screws that secure a cardboard L pincher at the bottom of each corner of the box.

Lift the outer box vertically straight upward until lower edge of the box clears the top of the unit body. Set the box aside. Mendota recommends recycling the outer box.

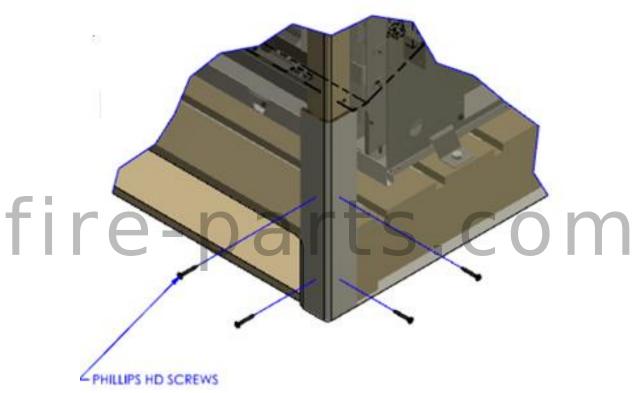


Figure 4-1 Outer Box Removal

4.3 CONTENTS OF THE MANUAL PACKET

Once the outer box is removed, you will find the Fireplace body and a manual packet white box. This manual packet white box includes the items shown in the table, below. Contact Mendota Technical Service if any parts are missing.

Glass Latch Tool #HA-77-00256 Must Leave with Homeowner.			
WALL THERMOSTAT #05-01-00198 Must Leave with Homeowner.	NO IMAGE		
INSWOOL BAG #35-01-00239	NO IMAGE		
SMALL COALS BAG #35-01-00240	NO IMAGE		
LARGE COALS BAG #35-01-00311	NO IMAGE		
Owner's Manual. Must Leave with Homeowner. Figure 4-2 Manual	This Manual I Packet Contents		

4.4 ITEMS PACKAGED INSIDE FIREBOX

- Firebox Lining (Red Brick or Milano Tile, depending on the specific model selected)
- Fiber Log set

4.5 WHAT IS NOT INCLUDED WITH THIS APPLIANCE?

Decorative front (s) are not included with this base Fireplace product. One of many Decorative Fronts options must be selected and purchased separately.

4.6 UNBOLTING FIREPLACE FROM PALLET

The Fireplace body is bolted to the pallet top surface using 5/16'' X 1'' Lag Screws in three points. One on each side and one or more at the rear. Use a 1/2'' socket and wrench to remove the lag screws and detach fireplace from the pallet top.

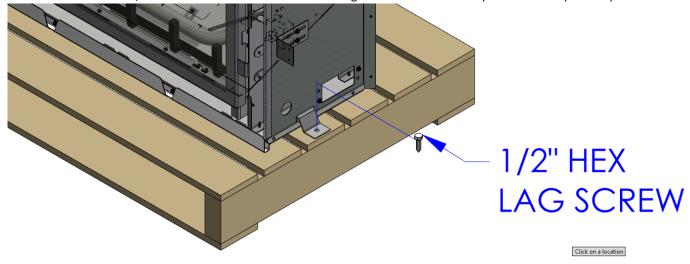


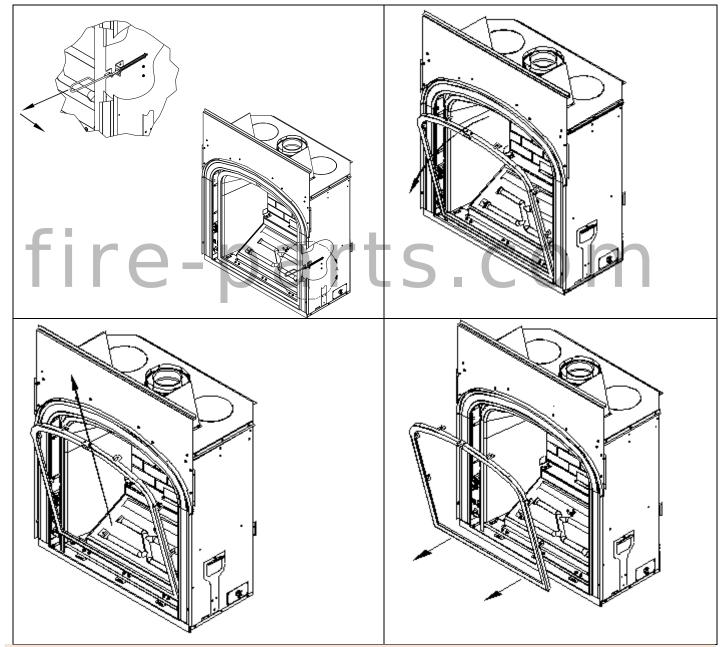
Figure 4-3 Unbolting Unit from Pallet

fire-parts.com

4.7 TO REMOVE DOOR

Use the glass latch tool to disconnect the spring latches from the glass frame. Insert tool into hole in latch, pull towards you and rotate 180-degrees to disengage top latches. Remove tool. There are four spring latches on this gas fireplace. Always make certain the hook glass latches are in the inverted position after removing the glass frame. This inverted latch position will make it easier to reinstall the glass frame later.

- 1. With both hands, rotate top edge of glass frame away from unit, approximately 8".
- 2. Lift glass frame up 1", at an angle, and move away from unit.
- 3. Door is now free from unit.

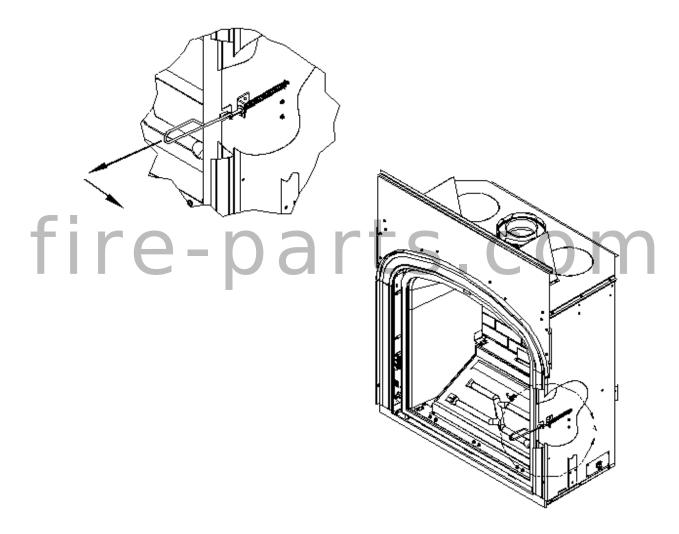


NOTE: Always check glass gasket condition and gasket seal any time the glass door is removed and when reinstalling glass door.

4.8 TO REPLACE DOOR

- 1. Line up the three bottom tabs in glass frame bottom with three slots in the glass clips located at the bottom of firebox. Insert tabs into slots and center tabs in slots, left to right.
- 2. Center glass frame over firebox; left to right.
- 3. After door has been placed into slots, rotate door towards firebox until gasket seal is touching the firebox frame.
- 4. Use the tool provided to connect the spring latches to the glass frame. Insert tool into hole in spring latch, pull latch towards you, rotate latch so the hook is facing downward then release latch to hook to door frame. Repeat for all four latches.

Door is now connected and sealed to unit.



4.9 NATURAL GAS TO LPG CONVERSION

WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the owner instructions supplied with the kit.

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

4.9.1 General Conversion Information

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

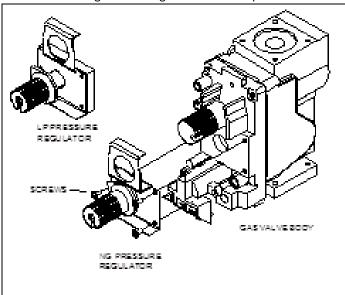
Caution: The electrical supply to the fireplace must be turned off prior to performing the conversion. The gas supply must be shut off prior to disconnecting the electrical power.

4.9.1.1 Orifice sizes requirement

A Natural Gas to LPG conversion kit #HA-52-00145 must be ordered and installed to convert the M50 Fireplace to burn LPG. LP Conversion Kit # HA-52-00145 contains the following parts: One manual Pressure Regulator, One LP Pilot Orifice Thimble, One Cap Orifice drill #54 (for rear burner) and One Cap Orifice drill #51 (for front burner). Specifically, identify the Rear and Front Burner Cap Orifices. Use proper sized drill bits' shaft ends to verify orifice size.

4.9.1.2 Procedure to Convert This Fireplace to Burn LPG

Refer to these diagrams during the conversion processes:



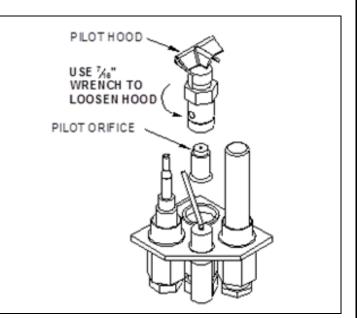


Figure 4-4 Conversion Preparation

WARNING: It is of the utmost importance that the correct burner orifices be installed for both the rear and front burners.

1. Turn off gas supply at the appliance service valve if gas line has been connected to this appliance.

4.9.2 **Pressure Regulator Conversion**

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

- Using a ¼" flat blade screwdriver, remove 3
 screws that secure the NG Pressure Regulator
 to the gas valve body and remove NG Pressure
 Regulator. Identify the pressure regulator
 spring that is located in the center of the black
 rubber gasket. Discard both the black rubber
 gasket and spring.
- 3. Install the new LP Pressure Regular onto the gas valve body in the same position and orientation as the NG Pressure Regulator you removed in Step 2, above. The LP Pressure Regulator can only be mounted in one position. Secure the LP Pressure Regulator in place using the 3 screws you removed in Step 2. Tighten down using a ¼" flat blade screwdriver.
- 4. Install the enclosed identification label (G) to the valve body where is can be easily seen.

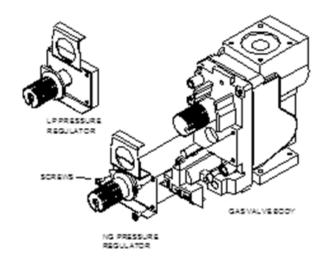


Figure 4-5 Pressure Regulator Conversion



Warning: Installation should be carried out in a clean environment.

Warning: This modulating conversion kit must only be applied as part of a conversion kit supplied by the fireplace manufacturer for specific fireplace and type of gas being converted.

Warning: Correct operation of the system cannot be guaranteed if the conversion kit or value have been dropped or sustained strong impact

Warning: A leak test must be conducted as the final step after conversion to burn LPG.

- 5. Remove both rear and front burners. Locate and identify the rear burner orifice spud and the front burner orifice spud. Both front and rear orifice spuds are removed and installed using a ½" deep well socket and ratchet.
- Install rear burner orifice #65-14-00054(#54 drill) for the rear burner. Tighten down securely.
- Install front burner orifice #65-14-00051 (#51 drill) for the front burner. Tighten down securely.
- Locate Pilot Light on right side of firebox.
 While holding the pilot base body with large vice grips tightly, loosen pilot light hood using a 7/16" open end wrench on the hex shaped base. Rotate counter clock-wise ¼ turn to loosen. REMOVE THE PILOT HOOD.
- Remove the NG Pilot Orifice Thimble (Pilot orifice thimble is located inside pilot hood base).
- 10. Insert the LP Pilot Orifice Thimble.
- 11. Thread on the pilot hood into pilot body base by hand until finger tight.
- 12. Tighten down hex shaped base of pilot using a 7/16" open end wrench.

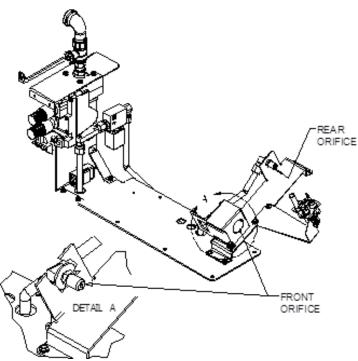
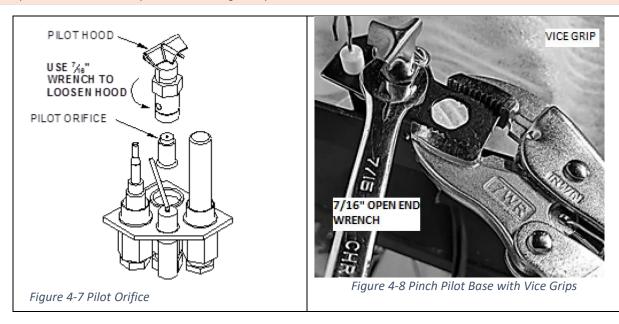


Figure 4-6 Removing Orifices

CAUTION: Always use one 7/16" open end wrench and one large pliers or vice grips tool to hold, loosen and tighten pilot hood base to prevent damage to pilot mount bracket.



4.9.3 **Burner Ignition Characteristics**

Note: Connect gas supply and verify that the minimum inlet and outlet pressures are conforming.

Once the conversion to LPG and all the above steps have been completed, light the main burners.

Use remote transmitter to turn on pilot light and burners. Main burner should now light IMMEDIATELY and flame should not "lift" off burner. If there is any delay in ignition or if flame is "lifting off" burner, turn off burner and carefully check for proper installation of logs/coals, vent system and proper pilot flame impingement on burner. Logs or coals must not block pilot flame or main burner flame. Vent system must be leak proof.

WARNING: Do not proceed with operation of this fireplace unless burner "cycles" on/off without delays!

4.9.4 Pilot Flame and Burner Relationship Verification

Prior to completing the LPG conversion process, the qualified service technician must light the pilot light and verify the relationship between the pilot light flames and the main burners. The pilot light flames directed towards the propagation ports on the rear and front burner must overlap the propagation ports on the burners.

The pilot light flames must be a minimum of 1" long and must overlap the propagation ports on both the rear and front burners as shown in the diagram, below. Verify that the burner tubes ignite quickly and the burner flames propagate smoothly along the entire length of the burners.

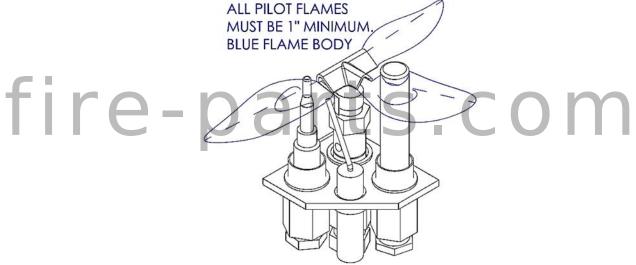


Figure 4-9 Pilot Flames

4.10 VENTING

WARNING: Proper installation of the vent system, as required in this manual, is vital to the performance of this Fireplace. Oversights or failure to conform to all installation requirements will void the applicable warranty.

The M50 Fireplace must be vented to the outside and must use one of the approved rigid coaxial ducting systems.

This heater must be properly connected to a venting system in accordance with the manufacturer's installation instructions. Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possibly death.

If the vent system of this appliance is disconnected for any reason, the vent and air intake systems must be properly reassembled and resealed before this appliance is put into use.

CAUTION: Each installation must conform to all local, state and national codes. Refer to the national fuel gas code and local zoning and code authorities for details on installation requirements. The Mendota Fireplaces must be vented to the outside in accordance with the latest edition of the National Fuel Gas Code. In the absence of local codes, the installation must conform with National Fuel Gas Code ANSI Z223.1 (NFPA 54), or Canadian Code CAN1-B149 or most current edition, also known as NFPA 54. Do not connect this Fireplace to a chimney flue serving a separate solid fuel or gas-burning appliance.

Do Not Use any silicone sealants at pipe joints. Stove gasket cements may be used at pipe joints but is not required.

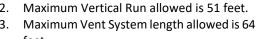
4.10.1 Wall Thimble Information

A wall thimble is required to be installed when penetrating any combustible wall, regardless of whether the wall is an internal wall or an external wall.

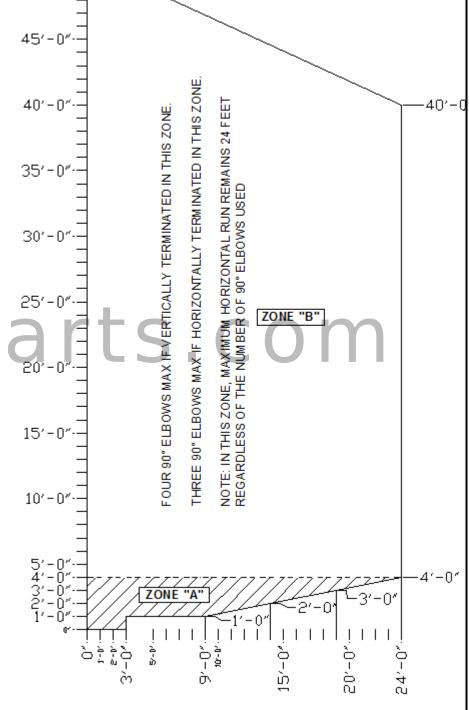
Wall thimbles are designed to reduce the required clearances to the exterior surfaces of the vent pipe that pass through combustible walls. The hole size that is specified to be cut in the wall for installation of the wall thimble takes into consideration the reduced clearance requirement.

4.10.2 M50 Master Venting Chart 36 inches maximum horizontal pipe run allowed with a 90°-elbow connected directly to this fireplace's flue starter collar.

51′ - 0″-50′ - 0″-



V min	H max	
0 in.	36"	
6 in.	36"	
12 in.	9'	
18 in.	11'6"	
24 in.	14'	
36 in.	19'	
4 ft 40 ft.	24'	



4.10.3 Maximum Horizontal Run

- Maximum Horizontal Run allowed is 24 feet if a vertical starter section that is between 4 feet to 40 feet is connected directly to this fireplace's flue starter collar and no more than three (3) 90-degree elbows are used.
- Maximum Horizontal Run allowed is 36" if a 90-degree elbow is connected directly to this fireplace's flue starter collar.

4.10.4 Maximum Vent System Length

- Combined total length of all straight pipe sections in the vent system shall be less than 64 feet.
- Combined total length of all straight pipe sections in the vent system shall be less than 64 feet when using three (3) 90-degree elbows or equivalent and terminating the vent system horizontally.
- Combined total length of all straight pipe sections in the vent system shall be less than 64 feet when using four (4) 90-degree elbows or equivalent and terminating vertically.

4.10.5 How to Calculate the Vent Lengths

For calculation purposes and usage of charts in this manual, simply add the lengths of all individual straight pipe sections. For example: if you use two 2-foot lengths and one 4-foot length, the total vent system length will be 2+2+4 = 8 feet.

4.10.6 USING 90 DEGREE ELBOWS

A single 90° vertical-to-horizontal elbow is already calculated into the allowable maximum 20' horizontal run. The Venting Requirements Chart (**Error! Reference source not found.**) assumes that for all horizontal runs calculated, one 90-degree elbow is used within the venting system. Each additional 90° elbow reduces the maximum horizontal distance by 3'.

If you plan to use more than one 90-degree elbow within the vent system, first use the Venting Requirements Chart (Figure #14) and calculate the maximum horizontal run you are allowed based on the first vertical section connected directly to the fireplace. From this maximum horizontal run calculated, subtract 3 feet for each additional 90- degree elbow you will use.

CAUTION: If a vertical-to-horizontal discharge elbow or a horizontal-to-horizontal discharge elbow is enclosed within a wall, floor or ceiling, a top air space clearance of 3" must be maintained. Be sure to maintain 1" air space to any combustibles (2" above horizontal runs).

Example 1: By using three 90° elbows the maximum horizontal distance has been reduced to 14 ft. (3 - 1 = 2 elbows x 3' = 6'; 24' Max. - 6' of elbows = 18' of horizontal run).

Example 2: If the first vertical section connected directly to the Fireplace is between 4 feet and 25 feet long, you are allowed a maximum 24 feet of horizontal run. If you plan to use two (2) 90-degree elbows in the entire system, subtract three (3) feet from the 24 feet maximum horizontal run calculated. Your maximum allowed horizontal run would then be 21 feet. Similarly, if you plan to use three (3) 90-degree elbows, subtract 6 feet; from the 24 feet maximum horizontal run calculated to yield a 18 feet maximum allowed horizontal run in that venting system.

4.10.7 USING 45-DEGREE ELBOWS

Two 45-degree elbows may be used in place of one 90-degree elbow. On 45-degree runs, one foot of diagonal pipe is equal to 8-1/2 inches horizontal run and 8-1/2 inches vertical run. Two 45-degree elbows may be connected directly to the vent starter adapter on this fireplace to create an offset to provide the required clearances to combustible framing or sheathing materials.

Two 45-degree elbows may be connected directly to the top of this fireplace to create a horizontal offset. 24 feet maximum horizontal run allowed with this offset configuration only if the first vertical section connected directly to the last 45-degree elbow is more than 4 feet long. For maximum allowable horizontal distances with the 45-degree offsets, see the Master Venting Configuration Chart.

Note: Each 45° elbow reduces the maximum horizontal distance by 1% '.

SUPPORT: Horizontal runs of pipe will require one vent support for every 3 ft. of pipe.

4.10.8 ZERO RISE HORIZONTAL TERMINATION

The M50 Fireplace must be installed by a qualified Mendota approved serviceperson.

A Maximum Horizontal Run allowed is 48 inches if a 90-degree elbow is connected directly to this fireplace's flue starter collar. When a 90-degree elbow is connected directly to this fireplace, the horizontal centerline of the 90° elbow will be 46-3/4" inches up from the floor level of this Fireplace.

See, MASTER VENTING CHART and Figures, below.

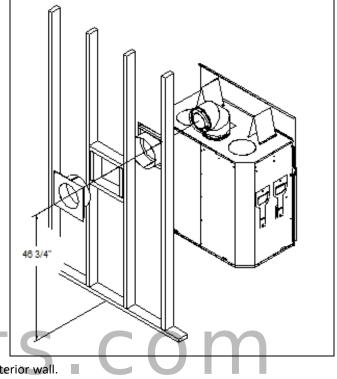
Use "fixed" pipe sections in place of adjustable pipe sections wherever possible.

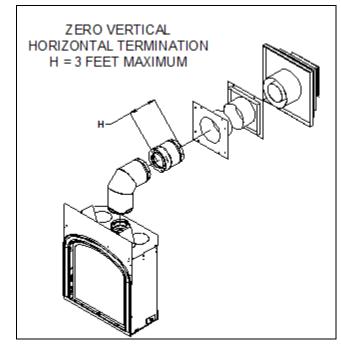
Always maintain 1" clearance from vent pipe sides and bottom to combustibles, 3" clearance on top of pipe on horizontal runs and on top of horizontal discharge elbows. Do not fill air spaces with insulation or other material.

- Position fireplace in desired location. See guidelines on proper vent cap placement on the exterior of home. Check to determine if wall studs are in the way when venting system is attached. If this is the case, you may want to adjust the fireplace location or modify the exterior wall framing to allow the vent system to penetrate the wall.
- 2. Measure from the floor level of the fireplace up 44-9/16" inches [add 1/4" rise for every foot of horizontal run] and mark wall directly at the center of where the vent pipe will penetrate the exterior wall.
- 3. Cut and frame a 10-3/4" wide x 10-3/4" high opening in the wall for use with a mandatory wall thimble. The hole must be positioned so the vent system will run level or have a ¼" rise per foot of run AND be perpendicular to the wall. The height of the opening must be located to meet all local and national building codes. Do not allow the termination to be easily blocked or obstructed. If wall being penetrated is non-combustible material, i.e. masonry block, brick, etc., a 9-inch diameter hole is acceptable.
- 4. Attach the 90-degree elbow to the fireplace starter adapter. Attach a horizontal section to the 90-degree elbow. Be sure all vent component connections are in their fully twist-locked position and are leak-proof. The length of the horizontal piece that fits through the wall will be determined by the location of the fireplace relative to the wall. For a normal installation where this fireplace is installed directly against an exterior wall constructed using 2x4 lumber or 2x6 lumber, only a 6" horizontal section is required. There MUST be a minimum of 1" air space clearance to combustibles from all vent components (3" above horizontal runs and horizontal discharge elbows).
- A wall thimble must always be used when penetrating any combustible wall materials.
- 6. From the exterior of the home, slide the horizontal vent cap over the end of the horizontal pipe and tightly secure the cap to the wall with screws. Seal with a high-quality caulking.

NOTE: Combustible wall thickness $\underline{\text{must}}$ be 4" to 8" maximum for wall thimble application.

NOTE: Vent Cap should not be recessed into wall or siding.





4.10.9 VERTICAL RISE HORIZONTAL TERMINATION

The minimum vertical section required to be connected directly to the starter adapter on this fireplace is 48 inches when used with a maximum horizontal run of 24 ft. If the total length of the vertical sections connected directly to the starter adapter on this fireplace is between 4 feet and 40 feet, you are allowed a maximum 24 feet horizontal run.

Combined total length of all pipe sections (include restriction of elbows) in the vent system shall be less than 64 feet. **NOTE:** The horizontal run of vent pipe must be level or have a ¼" rise for every 1' of run toward the termination. Never allow the vent to run downward. This will cause high temperatures and the possibility of a fire.

This M50 Fireplace must be installed by a qualified Mendota service person

1. Position fireplace in desired location. See 3.2.18.6

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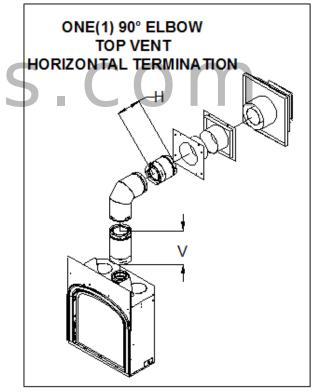
- 2. Exterior Vent Locations and Restrictions for guidelines on proper vent cap placement on exterior of home. Check to determine if wall studs are in the way when vent system is attached. If this is the case, you may want to adjust the fireplace location.
- 3. Locate where vent pipe will pass through any ceilings and will penetrate the outside wall. Since vent pipe sections "overlap" we suggest pre-assembling and measuring the total vent pipe run so you can more accurately locate the point where the vent pipe will penetrate the outside wall. Be sure all vent components are properly twist locked and leak-proof.
- 4. Cut and frame a 10-3/4" wide x 10-3/4"" high opening in the outside wall opening (for use with a mandatory wall thimble) and 10" x 10" opening in ceiling openings (for use with a mandatory ceiling fire stop). The outside wall hole must be positioned so the vent system will run level or have a ¼" on rise AND be perpendicular to the wall. The height of the opening must be located to meet all building codes and not allow the termination to be easily blocked or obstructed. A ceiling fire stop spacer is required at all floor (ceiling) opening.
- 5. Connect vent pipe to the fireplace adapter on top of fireplace vent outlet.
- 6. The horizontal pipe must end flush with the exterior wall of the home. Horizontal pipe will require a proper support every 3 ft. of vent pipe. THERE MUST BE A MINIMUM OF 1" CLEARANCE TO COMBUSTIBLES FROM ALL VENT PIECES ON THE SIDES AND BOTTOM AND 3" ABOVE HORIZONTAL RUNS.
- 7. A wall thimble must always be used when penetrating combustible wall materials and a ceiling fire stop must always be used when penetrating combustible ceiling materials.

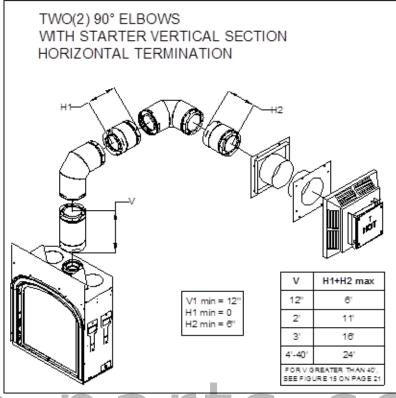
NOTE: Combustible wall thickness <u>must</u> be 4" to 8" maximum.

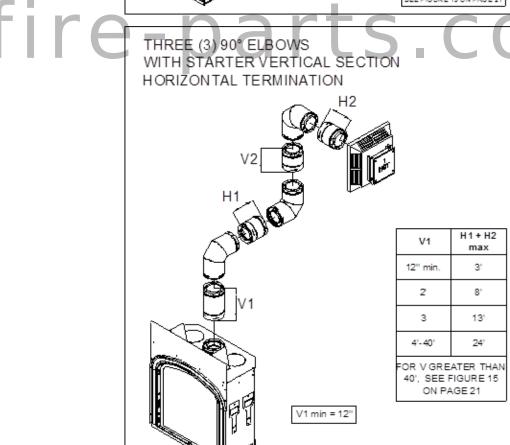
8. From the exterior of the home, slide the horizontal vent cap over the end of the horizontal pipe and tightly secure the vent cap to the wall with screws. Seal with high quality caulking.

NOTE: Venting terminal (Vent Cap) should not be recessed into wall or siding.

V	Н	
0"	36"	
12"	2" 9'	
2'	14'	
3'	19'	
4'- 40' 24'		
For V greater than		
40', see Figure 15		
on Page 21		







4.10.10 VERTICAL THROUGH-THE ROOF VENTING

The maximum vertical run of vent pipe is 61 ft. from the top of the fireplace. The fireplace will support a run of a maximum of 51 ft. Maintain 1" air space clearances on all sides of vents (3" above horizontal runs).

If an offset is required directly on top of the fireplace, two 45° elbows may be connected directly to the top of this fireplace to create a horizontal offset then to run upwards vertically. Doing so will continue to allow the use of the 51 feet maximum vertical run.

The M50 Fireplace must be installed by a qualified Mendota approved serviceperson.

- 1. Place the fireplace in its desired location. Drop a plum bob from the ceiling to the position of the fireplace flue exit. Mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling. Mark and drill the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters or other framing will obstruct the venting system. You may wish to relocate the fireplace or to offset, to avoid cutting load bearing members.
- 2. Cut and frame a 10" x 10" opening in the ceiling centered on the hole drilled in Step No. 1.
- 3. To determine the length of the vent pipe required, measure the distance from the fireplace flue outlet to the ceiling, the ceiling thickness and the vertical rise in the attic or second story and allow sufficient vent height above roofline. For two story installations, fire stops are required at each floor level. If an offset is needed in the attic, additional pipe and elbows will be required.
- 4. Assemble the desired lengths of vent pipe and elbows to reach from the fireplace flue outlet. Ensure that all vent pipe and elbow connections are in their fully twist-lock position and that inner pipe joints are sealed and are leak-proof. Maintain 1" airspace clearances to combustibles (3" above horizontal runs). Cut a 10" x 10" or larger opening in the roof, centered in the small drilled hole placed in the roof in No. 1. Make the opening large enough to be of sufficient size to meet all clearance requirements. Continue to assemble lengths of pipe and elbows necessary to reach up through the roofline. Galvanized pipe and elbows may be utilized in the attic, as well as above the roofline. The galvanized finish is desirable above the roofline due to its higher corrosive resistance.
 - a) If an offset is necessary, it is important to support the vent pipe every 3 ft. to avoid excessive stress on the elbows and possible separation. Wall straps are available for this purpose.
- 5. Slip the flashing over the pipe sections protruding through the roof. Secure the base of the flashing to the roof with roofing nails and seal flashing to roof. Ensure the roofing material overlaps the top edge of the flashing. Verify you have at least the minimum clearance to combustibles at the roofline.
- 6. Continue to add pipe sections until the pipe and the vent cap meet the minimum building code requirement.

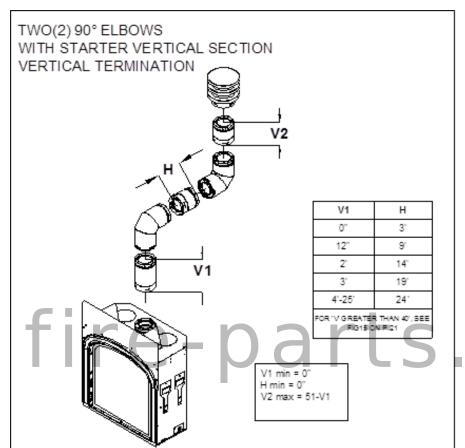
For multi-story vertical installation, a ceiling fire stop is required at the second floor and any subsequent floors. The opening should be framed to $10" \times 10"$ inside dimensions.

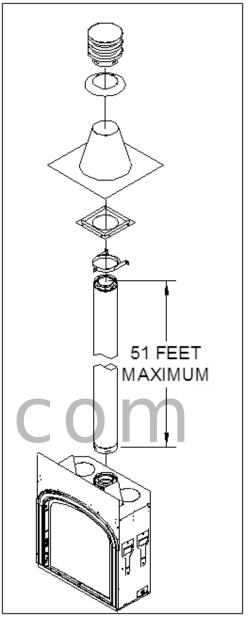
Add an attic insulation shield to keep attic insulation materials away from vent pipe.

Vertical Pipe runs must be supported using wall straps every 3 feet.

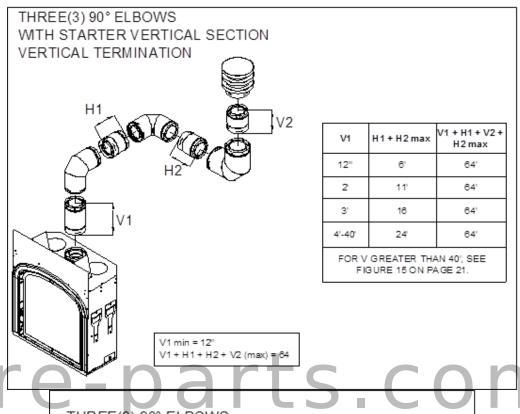
- 7. Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passes through, must be enclosed. The enclosure may be framed, and sheet rocked with standard construction materials, however, be sure to maintain minimum allowable clearances between the outside of the vent pipe and the combustible surfaces of the enclosure.
- 10. Height "*H" from roof surface to the top of vent cap can be determined as follows:
- 11. Complete installation with storm collar and vent cap.

	"H" DIMENSION	
ROOF PITCH	FEET	METERS
FLAT to 6/12	2	.6
7/12 to 9/12	2	.6
10/12 to 12/12	4	1.2
13/12 to 16/12	6	1.8
17/12 to 21/12	8	2.4

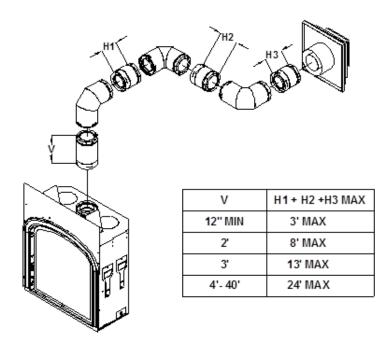




4.10.11 VERTICAL THROUGH-THE-ROOF VENTING USING THREE 90° ELBOWS



THREE(3) 90° ELBOWS
WITH STARTER VERTICAL SECTION
ALL ELBOWS IN HORIZONTAL DISCHARGE POSITION
HORIZONTAL TERMINATION



4.10.12 VERTICAL THROUGH-THE-ROOF VENTING USING FOUR 900 ELBOWS

In extreme situations, Four 90° elbows may be required to reach a proper exit point for the vent system. Mendota has spent considerable time and effort in the design of this fireplace and its venting system. Through this effort, Mendota has been able to certify the use of Four 90° elbows.

The use of Four 90° elbows must meet some minimum prerequisites.

Prerequisite #1: The vent system must terminate vertically using a vertical vent cap.

Prerequisite #2: There must be a minimum 12 inches of vertical starter section connected directly to the top of this fire-place.

Prerequisite #3: For vertical starter sections less than 4 feet tall, you must reduce 6 feet off the maximum horizontal run allowed per the Master Venting Chart, Zone A.

4.10.13 **Vent Damper Adjustments**

This fireplace is equipped with a vent damper system that can be adjusted. Locate damper adjustment rod above the glass frame in convection chamber at the center. If this fireplace's vent is terminated horizontally, DO NOT CLOSE the vent damper completely. Adjust position of damper by judging the flame characteristics after 20 minutes of burn time. If the flames ghost off burners or if sooting occurs [in LPG units], open the vent damper FULLY and work backwards in increments to determine the correct damper position for that particular installation.

Look into the convection air cavity and note the Damper Position Indicator. 1" downward bend shows the damper plate position. Vertical position of the 1" bend means the damper is fully open vertically.

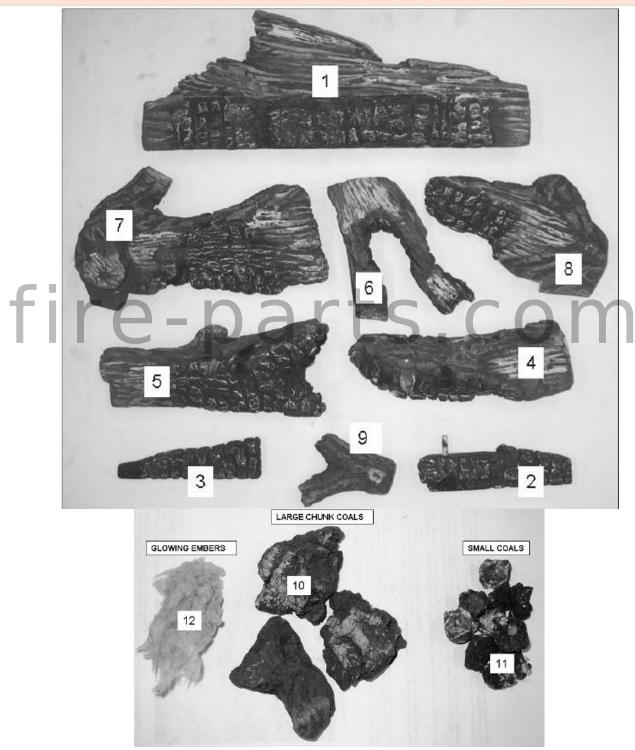




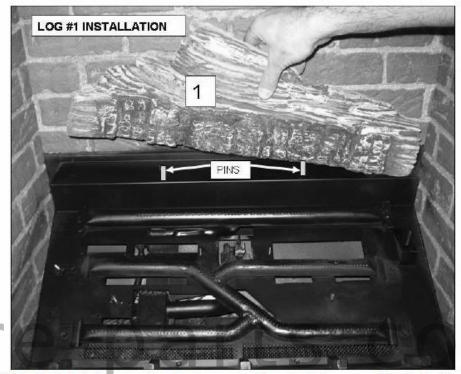
4.11 M50 LOG SET INSTALLATION INSTRUCTIONS

Cut the clear tapes and outer plastic wrap using a sharp utility knife or equivalent. Locate the 2 bags of coals, glowing embers and the log pieces. Identify each log piece numbered 1 through 8 and the Large Chunk coals (10), Small coals (11) and Glowing Embers (12) per the diagram show on this page.

CAUTION: HANDLE LOG PIECES WITH CARE. LOGS ARE FRAGILE



1. Identify two ¼" diameter Pins located on the top-most shelf of the burner airbox. Identify two holes located in the base surface of Log #1. Align holes in log with pins on the top-most shelf and set the log on that shelf.

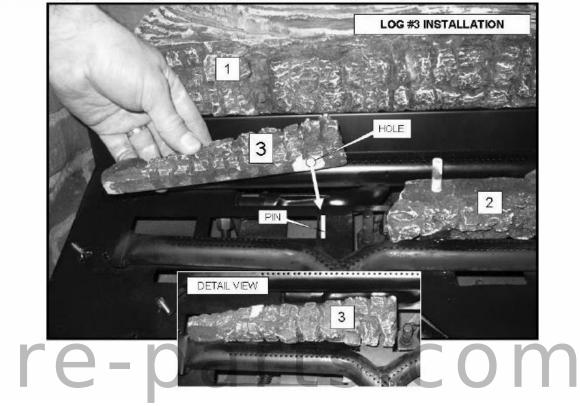


m

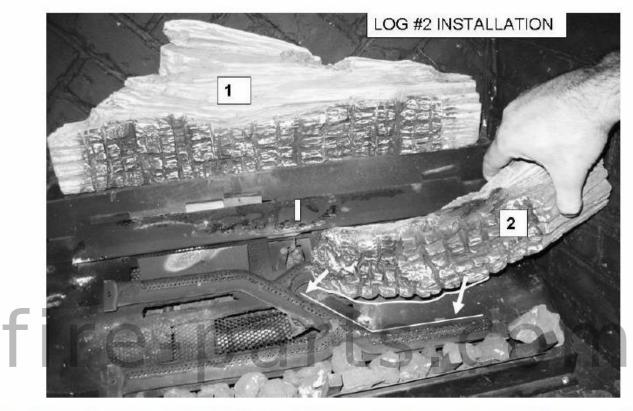
2. Identify Log #2. Log #2 installs between the rear burner and the middle burner, on the right side. Locate the hole in the base of Log #2. This hole aligns with a stud located to the right of the pilot light assembly. Set Log #2 as shown in the diagram, below, against the middle burner.



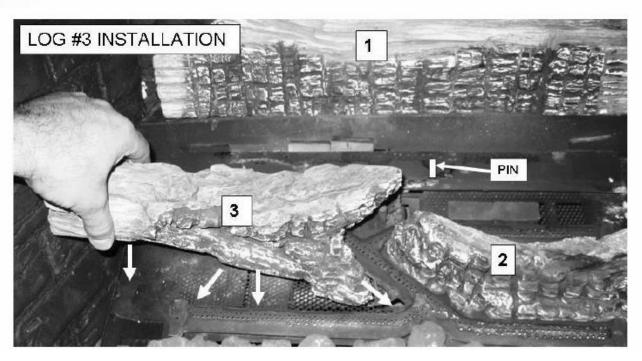
3. Identify Log #3. Locate the hole in the base of Log #3. This hole aligns with a stud located to the left of the pilot light assembly. Set Log #3 as shown in the diagram, below, against the middle burner and adjacent to the pilot light's Thermopile. Allow a ¼" gap between right edge of Log #3 and the thermopile body.



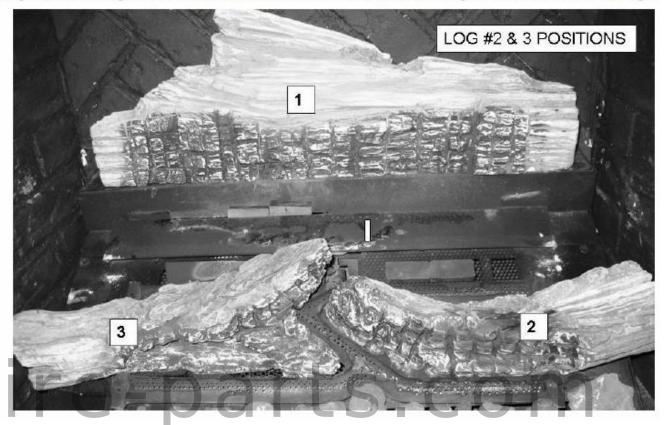
4. Identify Log #2 and the ¼" Pin Located on the right side between the middle and front burner legs. Log #2 has a hol in its base surface. Align this hole with the pin and set Log #2 between the middle and front burner legs as shown in the diagram, below.



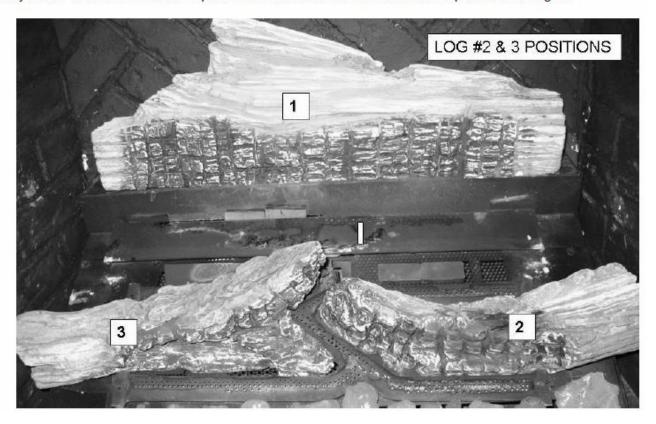
5. Identify Log #3 and the ¼" Pin Located on the left side between the middle and front burner legs. Log #3 has a hole in its base surface. Align this hole with the pin and set Log #3 between the middle and front burner legs as shown in the diagram, below.



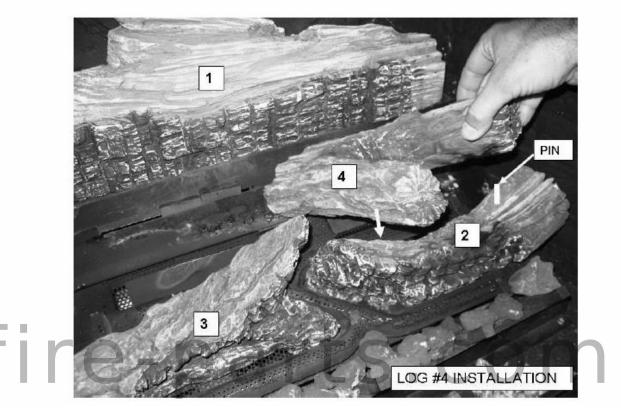
6. See Figure, below. Logs #1, #2 and #3 should be located as shown in this diagram relative to the burner legs.



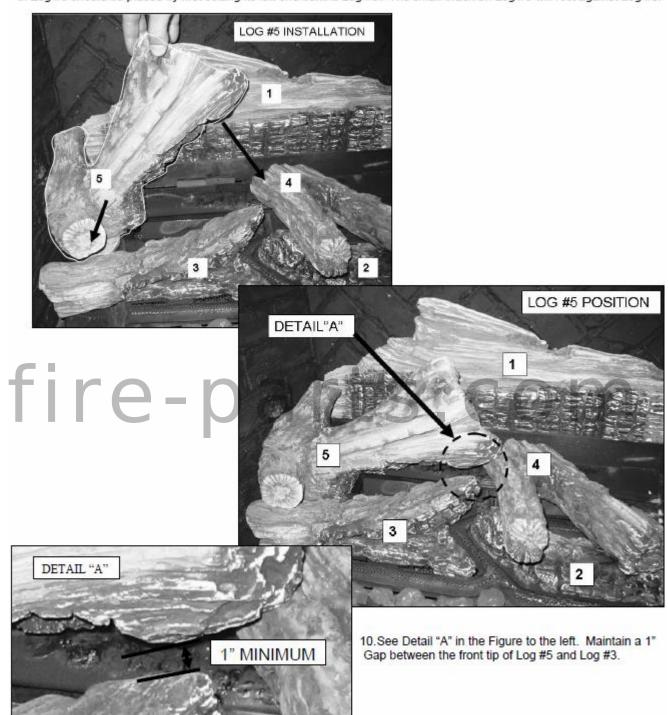
7. Identify the 1/4" Pins located on the top surface of the Rear Burner and on the top surface of Log #2.



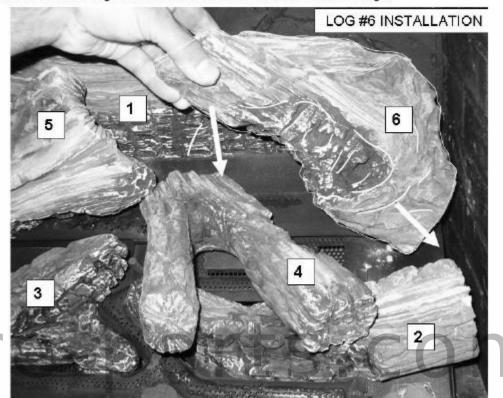
8. Log #4 has two holes in its base surface. Align corresponding holes and pins per diagrams in this page and set log # on top of Rear Burner and cross over Log #2.



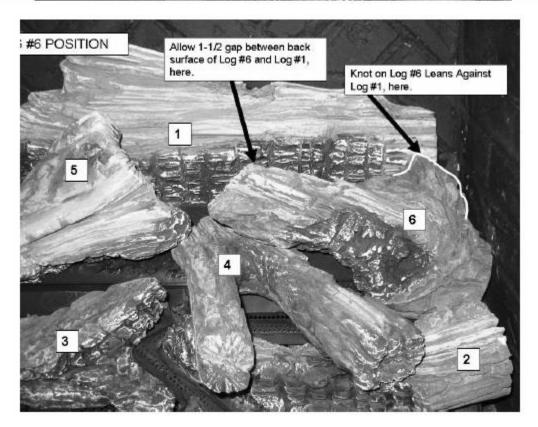
9. Log #5 should be placed by first setting its left end behind Log #3. The small brach on Log #5 will rest against Log #3.



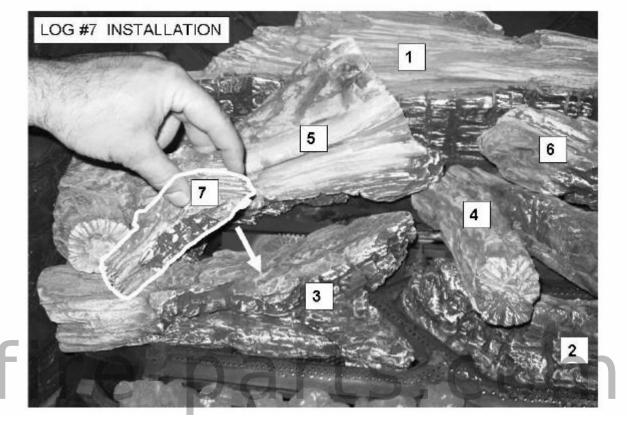
10 Log #6 sits in the right corner inside the cavity created by Log #1, Log #2 and Log #4. Place the Right Bottom corner of Log #6 behind middle burner tube leg and in front of rear burner leg. The Left End of Log #6 sits on top of Log #4. The Knot on the right top of Log #6 leans against Log #1. Make certain that there is a minimum ¾ gap between Rear Surface of Log #6 and Front Surface of Log #1 to allow flames to travel between these two logs.



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10. Log #7 Sits on top of Log #3. The position of this log is not critical. Position this log as shown in the figures, below. Small variations in its position will not affect the flame characteristics.



The completed log set shall look as depicted in the Step 14, above.

Add small coals (I), first, in the area between the firebox front edge and the grate bars. Also add small coals (I) in front and behind the front burner. When adding the small coals, space them ½ inches apart, left to right, to allow combustion air to flow to burner ports. Otherwise, place them randomly along the burner length and in any area on the firebox floor you desire.

Add Large Chunk Coals (H) on top of front burner. Space them apart about ¼ inches side to side and bridge coals that span across the burner ports across the burner tube to the main ember bed (B) so that the coals do not plug any burner ports. This also provides for a cove under each coal that will glow red and create an attractive ember bed effect. If you provide large gaps between the large chunk coals and leave the gaps open, the front burner flames will yield random yellow flames along the front edge and between the coal pieces.

Avoid packing small coals tightly. Doing so will only yield red glow effects.

Loosely spread Glowing embers over the coals and any other burner surfaces, lightly. Do not use large and dense amounts of glowing embers in any area over burner ports. If taller flames are desired along front burner or rear burner, add thin layers of glowing embers over burner ports in that area. If sooting occurs around areas where coals or glowing embers are located, remove and allow more room in that area for gas and air to mix together properly.

4.12 LIGHTING CHECKLIST

Be sure to check these items before final operation of the Fireplace.
☐ All items on "Installation Checklist" must be completed.
☐ Carefully follow all lighting and log installation instructions. Make certain that pilot flame lights immediately and lights both
front and rear burners.
☐ Check for Gas leaks and gas pressures prior to installing facing materials.
☐ Follow "First-Time Lighting Instructions" to synchronize the remote control and the ignition module.
\Box Air shutter opening 0" to $\frac{1}{8}$ " for natural gas or $\frac{1}{4}$ " to fully open for LP gas is checked.
\square All lighting and log installation instructions were followed.
☐ Burners lights immediately and flame runs promptly around rear burner and lights entire burner.
Note: Do not proceed with operation unless burner cycles "on/off" without delays.
☐ Flame is "stable" and does not "lift" off burner after 5 minutes of startup. If flame still lifts off burner after 5 minutes,
turn unit off and check that all vent pipes are "twist locked" and leak proof, the vent cap is "right side up". Do not
proceed with operation if flame is "lifting off" burner.
□ DO NOT proceed with operation unless burner cycles "on/off" without delays and the flame is "stable" and not "lifting" off
burner after 5 minutes of initial ignition.
Caution: If ignition system goes into lockout mode, he sure to wait a minimum of five minutes before

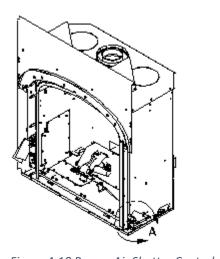
Caution: If ignition system goes into lockout mode, be sure to wait a minimum of five minutes before attempting to relighting.

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4.13 AIR SHUTTER CONTROL AND FLAME APPEARANCE

During initial installation, the air shutter opening should be checked to be certain that the shutter is set correctly at 1/8" open for natural gas and 1/2" minimum open for L.P. gas. NOTE: For altitudes above 5,000', some variations may be required.

Be sure burner and logs are properly installed. After log set has been properly installed, adjustments to the air shutter shall be made for final flame appearance. These small shutter adjustments can be made by the following procedure:



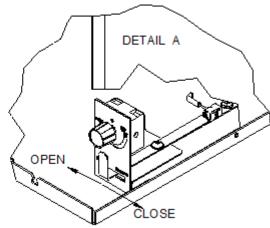
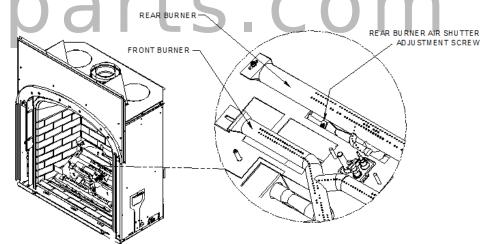


Figure 4-10 Burner Air Shutter Controls

NOTE: All adjustments to the air shutter setting must be made by a qualified installer, service agency, or the gas supplier. Very small changes in shutter settings make major changes in flame appearance.

Two air shutters exist. The front burner air shutter adjustment lever is located in the right side, behind the hinged surround leg. Slide the lever to the "left" to Open and to the "right" to Close the front burner shutter.

- The rear burner air shutter must be manually adjusted after removing the glass door and loosening a screw that secures the rear burner shutter. The rear burner air shutter adjustment screw is located near the rear burner orifice. See diagram, below.
- Loosen the screw and rotate the air shutter open or closed as desired to achieve the desired flame pattern.
- For NG applications, start with the rear burner air shutter open 1/8". For high altitude applications, air shutter may need to be open further.



4. For LPG applications, start with the rear burner air shutter 3/8" open. For high altitude applications, air shutter may need to be fully open.

LPG Air shutter settings hint: A properly adjusted air shutter setting will yield burner flames that have an approximate 2" high blue color base. If yellow colored flames are starting at burner level, air shutter is closed too far and will create soot. If you observe that the flame is yellow starting very close to or at the burner surface level, open air shutter. Also, if a log or part of a log is suspended and hanging inside a yellow portion of the flame, soot can form easily on the part of the log that is inside the yellow flame area.

IMPORTANT: Try each new shutter setting approx. ½ hr. before making additional changes. NOTE: Changes in front burner flame can be made by re-arranging the coals and front burner air shutter opening.

5 HOMEOWNER INFORMATION

Welcome to Mendota. We are proud to be the makers of world-class direct vent fireplaces and fireplace insert. We understand that a fireplace is a long-term investment, and we are happy you have chosen us to be a part of your family. We are committed to quality and satisfaction for all Mendota owners. Thank you for choosing a Mendota to be a source of comfort and beauty in your home.

We have designed this manual to help you enjoy all that your Mendota Fireplace has to offer. You will find tips, operating instructions, and frequently asked questions to support the features and functions of your Fireplace.

We want you to enjoy your Mendota for years to come. If you have any additional questions regarding operation of your Fireplace, please contact your Mendota local dealer.

5.1 AESTHETIC CONSIDERATIONS

Burning or static fireplaces are a major aesthetic focus in any room. In addition to offering the most realistic log details, textures, coloration and the most realistic wood fire options, Mendota also offers a large array of internal firebox lining options and external decorative options. Visit www.mendotahearth.com and your local Mendota dealer's show room to view all options available.

5.2 HEATING PERFORMANCE

Mendota's high heat output Fireplace will heat a large area of your home. Air movement options for maximizing heat circulation that can be considered are operating the Fireplace's convection blowers, continuous operation of central heating furnace blowers or room ceiling fans. The heat output of the fireplace can be reduced by turning off the Rear Burner and reducing flame height using the remote control. Blowers can be turned down or turned off to reduce heat distribution.

5.3 IMPORTANT INFORMATION FOR HOMEOWNER

Before you begin operation of your Gas Fireplace Heater, read and familiarize yourself with information provided in the following chapters of this manual:

Chapter 3.2.6 Normal Surface Temperatures

Chapter 3.1.1 Mendota Fireplace Curing Instructions

5.4 FIRST TIME LIGHTING INSTRUCTIONS

5.4.1 Safety Information

Warning: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury, and loss of life. WHAT TO DO IF YOU SMELL GAS

Do not light any appliance.

Do not touch any light switch

Do not use any phone in your building.

Call your gas supplier from a neighbor's phone.

Follow the provider representative's instructions.

If you cannot reach your gas supplier, call the fire

department for assistance.

5.4.2 LIGHTING INSTRUCTIONS

IMPORTANT: Be sure all items on "INSTALLATION CHECK OFF LIST" (pg. 39 have been completed!

CAUTION: If the pilot goes out, be sure to wait a minimum of five minutes before relighting.

BE SURE TO ALWAYS REMOVE THE GLASS BEFORE RELIGHTING THE PILOT.

ALWAYS LIGHT PILOT WITH GLASS REMOVED!

- 1 Make sure any gas supply shut-off cocks are open and Thermostat is "OFF".
- Push in Gas Cock Dial Slightly and turn clockwise to "OFF". NOTE: Dial cannot be turned from "PILOT" to "OFF" unless dial is pushed slightly. DO NOT FORCE!
- 3 Wait five (5) minutes to allow gas, which may have accumulated in main burner compartment to escape. If you smell gas, STOP.T
- 4 Turn Gas Cock Dial Counterclockwise to "PILOT" position.
- 5 Depress Gas Cock Dial and push in red Piezo igniter button. Once pilot ignites, continue depressing dial for about 1/2 minute. If pilot does not remain ignited, repeat operation allowing a longer period before releasing Gas Dial.
 - IMPORTANT: After pilot is lit, system millivolt readings and gas pressure should be taken by qualified installer.
 - Pilot flame must register a minimum of 325 millivolt.
- 6 After pilot is lit and <u>before</u> installing logs, turn Gas Dial to "ON".
- 7 Push Main Burner ON/OFF switch to "on" position. Burners should light immediately.
- 8 If Rear Burner does not light, Push Rear Burner ON/OFF switch to "on".
- 9 Push MAIN BURNER ON/OFF SWITCH to ON then OFF to "cycle" the burner on/off to make certain it ignites promptly and that the flame runs smoothly around burner curves and promptly lights both burners.
- 10 With pilot operating, install logs and coals. With logs/coals in place, "cycle" the burner again to make sure of prompt ignition of burner and that the flame runs smoothly around entire burner and does not "lift off" burner. NOTE: Logs will produce a strong, acrid odor on initial contact with flames (about 2 hrs.).
- 11 Reinstall glass front & screen.
- 12 Push MAIN BURNER ON/OFF SWITCH to ON to turn on burner.

Main burner should now light <u>IMMEDIATELY</u> and flame should not "lift" off burner after 5 minutes of initial startup. If there is any delay in ignition or if flame is "lifting off" burner after 5 minutes, turn off burner and carefully check for proper installation of logs/coals, vent system and proper pilot flame impingement on burner and thermopile. Logs or coals must <u>not</u> block pilot flame or main burner flame. Vent system must be leak proof.

DO NOT PROCEED WITH OPERATION UNLESS BURNER "CYCLES" ON/OFF WITHOUT DELAYS!

- 13 To reduce heat output, turn Hi/Lo Knob counterclockwise to reduce flame height and heat output. Blower speed can also be turned down to reduce heat distribution.
 - NEVER "over fire" by increasing BTUH above nameplate specifications.
 - NEVER turn down (reduce) pilot flame below the minimum 325 millivolts.
- 14 Open windows for first two hours of operation.

NOTICE: Initial start-up will cause some NON-TOXIC "off gassing" of adhesives, binders, paint, etc. Most nuisance odors will be

eliminated after the first 2 hrs. of operation, however, slight amounts may be present during the first 24 hrs.

5.5 TO TURN OFF GAS TO FIREPLACE

- 1. Toggle the MAIN BURNER ON/OFF button to OFF.
- 2. Turn Gas Cock Dial clockwise to "PILOT" then to "OFF" position.
- 3. Turn off the internal manual shutoff valve in the appliance.
- 4. Turn OFF the external manual shutoff valve if one was required and supplied by installer and mounted adjacent to fireplace.
- 5. Turn OFF all electric power to the fireplace if service is to be performed.

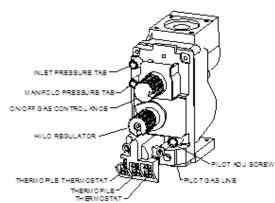
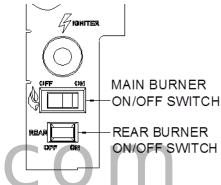


Figure 5-1 Gas Valve



5.6 FREQUENTLY ASKED QUESTIONS

5.6.1 What to do if I smell gas?

If you smell gas:

- Do not light any appliance.
- Do not touch any light switches.
- Do not use any phone in your building.
- Call your gas supplier from a neighbor's phone.
- Follow the provider representative's instructions.
- If you cannot reach your gas supplier, call the fire department for assistance.

5.6.2 Where can I find the model and serial numbers?

When requesting service, you will be asked to provide the model number and serial number to your Mendota dealer. This information will expedite the warranty verification process. The Listing Label contains the model number and serial number for your particular appliance.

This is an example of your listing label:

Listing label location: The listing label is located in the air gap below the bottom edge of the glass door frame. It is attached to a cable and can be pulled out to be viewed.

DIRECT VENT GAS FIREPLACE HEATER: NOT FOR USE WITH SOLID FUEL.

(NE CONVIENT PAS AUX COMBUSTIBLES SOLIDES.) MANUFACTURED BY (FABRIQUÉ PAR): JOHNSON GAS APPLIANCE CO. CEDAR RAPIDS, IOWA CERTIFIED TO (CERTIFIE) ANSI Z21.88-2016

Intertek

Refer to the Intertek Directory of Building Products (https://budirectory.intertek.com) for detailed inf

HOT GLASS WILL CAUSE BURNS DO NOT TOUCH GLASS UNTIL COOLED. NEVER ALLOW CHILDREN TO TOUCH GLASS. A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

A DANGER

□ NATURAL GAS

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. REFER TO THE OWNER'S INFORMATION MANUAL PROVIDED WITH THIS APPLIANCE. INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER. THIS VENTED DECORATIVE, GAS APPLIANCE INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER. THIS VENTED DECORATIVE GAS APPLIANCE IS NOT FOR USE WITH AIR FILTERS. REGISTER KIT MAY BE USED. FOR USE ONLY WITH GLASS BRITER PAIR TO AATI-12/2022 MISSE EN GARDE: INSTALLATION, RÉGLAGE, MODIFICATION, ENTRETIEN OU DÉPANNAGE NON APPROPRIÉS POURRONT CAUSER DES BLESSURES OU DES DOMMAGES MATERIELS. RÉFEREZ-VOUS AU MANUEL DU PROPRIETARE POURNI AVICC CET APPARIEL, POUR ASSISTANCE OU RENSEIGNEMENTS COMPLÉMENTAIRES, VEUILLEZ CONSULTER UN INSTALLATEUR EXPÉRIMENTÉ, UNE AGENCE DE DÉPANNAGE/ENTIFETIEN OU COTRE COMPAGNIE GAZIERE, POUR UTILISATION AVEC LES PORTES EN VERRE CERTIFIÉE L'APPAREIL SEULEMENT. NE PAS OPÈRER AVEC LE VERRIÉRE ENLURE, ROAQUELURE, BRISÉ WARNING: DO NOT OPERATE THE APPLIANCE WITH GLASS FRONT REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE PANEL(S) SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON. FOR USE WITH GLASS DOORS CERTIFIED WITH THE APPLIANCE ONLY.

AVERTISSEMENT: NE PAS UTILISER L'APPAREIL SI LE PANNEAU FRONTAL EN VERRE N'EST PAS EN PLACE, EST CRAQUÉ OU BRISÉ. CONFIEZ LE REMPLACEMENT DU PANNEAU À UN TECHNICIEN AGRÉÉ. SEULES DES PORTES CERTIFIÉES POUR CET

	(GAZ NATUREL)	(GAS DE PÉTROLE) LIQUÉFIÉ (GPL))
INPUT RATING (BTR/HR) 0-2000ft (0-610m) (ENTREÉ NOMINALE)	50,000	50,000
MIN. INPUT RATING (BTU/HR) 0-2000ft (0-610m) (MINIMALE ENTRÉE NOMINALE)	15,800	16,200
ORIFICE 0-2000ft (0-610m) (FRONT/REAR)	#35/ #43	#51/ #54
ORIFICE 2000-5000ft (610-1370m) (FRONT/REAR)	#36/ #44	#52 /#55
INPUT RATING (BTU/HR) 2000-5000ft (610-1370m)	48,000	47,600
MAXIMUM OUTPUT (BTÚ/HR) (SORTIÉ MAXIMALÉ)	36,600	38,300
MANIFOLD PRESSURE (in. w.c./kPa) (PRESSION AU COLLECTEUR)	3.5 (0.87)	10.0 (2.5)
MANIFOLD PRESSURE, LOW (in. w.c./kPa) (PRESSION AU COLLECTEUR MINIMALE)	1.6 (0.40)	6.4 (1.59)
MINIMUM INLET PRESSURE (in. w.c./kPa) (PRESSION D'ENTRÉE MINIMALE)	5.0 (1.24)	11.0 (2.74)

THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING PLATE AND MAY BE INSTALLED IN AN AFTERMARKET, PERMANENTLY LOCATED, MANUFACTURED HOME (USA ONLY) OR MOBILE HOME, WHERE NOT PROHIBITED BY LOCAL CODES. SEE OWNER'S MANUAL FOR DETAILS. THIS APPLIANCE IS NOT CONVETILE FOR USE WITH OTHER GASES, UNLESS A CERTIFIED KIT IS USED.

CET APPAREIL DOIT ÉTRE UTILISÉ UNIQUEMENT AVEC LE TYPE DE GAZ INDIQUÉ SUR LA PLAQUE SIGNALÉTIQUE. CET APPAREIL PEUT ÊTRE INSTALLÉ DANS UNE MAISON PRÉFABRIQUÉE OU MOBILE (É.U. SEULEMENT) INSTALLÉE À DEMEURE SI LES

RÈGLEMENTS LOCAUX LE PERMETTENT. VOIR LA NOTICE DE L'UTILISATEUR POUR PLUS DE RENSEIGNEMENTS. CET APPAREIL NE PEUT PAS ÊTRE UTILISÉ AVEC D'AUTRES GAZ SAUF SI UNE TROUSSE DE CONVERSION CERTIFIÉE EST FOURNIE.

GLASS EDGE TO ADJACENT SIDEWALL 0in. (0 mm) UNIT TO ENCLOSURE SIDEWALL ½ in. (13 mm) VENT PIPE TOP TO COMBUSTIBLES 3in. (76 mm) VENT PIPE SIDES TO COMBUSTIBLES
VENT PIPE BOTTOM TO COMBUSTIBLES
8" MANTLE ABOVE DISCHARGE AIR OPENING 1in. (0 mm) 1in. (0 mm) 15in. (381 mm) UNIT TO ENCLOSURE BACK WALL 1/2 in. (13 mm) UNIT TOP TO ENCLOSURE CEILING UNIT BOTTOM TO ROOM CEILING 1-1/2in. (38 mm) 72 in. (183 cm)

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH, KEEP CHILDREN, CLOTHING, FURNITURE, AND FLAMMABLE LIQUIDS OR

VALUES AWAY. ATTENTION: L'APPAREIL EST CHAUD LORSQU'IL FONCTIONNE. NE PASS TOUCHER L'APPAREIL. SURVIELLER LES ENFANTS. GARDER LES VÉTEMENTS, LES MEUBLES, L'ESSENCE OU AUTRES LIQUIDES À VAPEUR INFLAMMABLES LOIN DE L'APPAREIL.

DO NOT REMOVE OR COVER THIS LABEL 65-01-01435 VEILLEZ A NE JAMES ENLEVER NI DISSIMULER CETTE ÉTIQUETTE MODEL: M50 0813 □ 0920 SN:

Figure 5-2 Listing Label

5.6.3 Can I use my Fireplace during power outages?

During the power outage, the fireplace's burner will function as well as the flame height adjustment. The fans will not function.

5.6.4 What maintenance is required?

5.6.4.1 Required Annual Maintenance

The following procedures <u>must</u> be performed each year by a qualified installer, service agency or the gas supplier. Note: Any adjustments to burner, pilot or logs <u>must</u> be done by a qualified installer, service agency or the gas supplier.

Recommended steps for yearly maintenance:

- 1. Clean all lint and dust build-up around the control. Inspect the condition of any wiring under the burner for melting or damage.
- 2. Clean pilot light thermocouple, thermopile and sparker rod using emery cloth. Vacuum clean pilot light assembly.
- 3. Visual check of pilot flames is required. Pilot flame must overlap thermocouple tip and top 3/8" of thermopiler and burner ignition ports always. Especially for LP gas applications, always verify visible pilot flame length is at least 1" long.
- 4. Vacuum all burner ports. Be sure the burner ports are "open".
- 5. Visual check of main burner's rear and front flames is required.
- 6. Remove logs and coals and clean away any foreign matter (lint, carbon, etc.) on the burner and logs.
- 7. Clean under side of the logs for any carbon deposits. Note: Logs should be visually checked for carbon buildup. If carbon deposits are visible on logs, unit should be turned off and a qualified installer, service agency or the gas supplier contacted. Be sure logs are re-installed per instructions.
- 8. Check condition of glass door gasket, gasket must seal tightly over firebox. Inspect gasket along top and sides of glass. If gasket bulb along top edge or side top areas are discolored to a white color appearance (through the whole thickness of the gasket bulb in a 3" to 12" long area) and the gasket adhesive in no longer functional to stick to glass, then replace the gasket.
- 9. Visually inspect the vent terminal (vent cap) for leaves, twigs and other debris accumulation. Clean if required.
- 10. Clean door glass..

5.6.4.2 **Periodic Inspection**

Follow these steps for periodic inspections:

- 1. Check to verify that the vent system and vent cap are open and free of blockage.
- 2. Before re-installing glass, have qualified service person check the operation of the pilot and cycle the burner per lighting instructions. Be sure all items in lighting and installation checklists are completed.
- 3. Periodic visual check of pilot flames is required. Pilot flame must overlap thermocouple, thermopile and burner ignition ports always. Especially for LP gas applications, always verify visible pilot flame length is at least 1" long.
- 4. Periodic visual check of main burner's rear and front flames is required.

5.6.5 How do I clean the viewing glass?

The viewing glass should be cleaned periodically. Exterior glass surface may be cleaned with cleaner as desired. To clean interior glass surface, use <u>Kel Kem</u> Polish Plus (part # 65-06-00455) or a comparable product. **Caution:** <u>Do not</u> use oven cleaner to clean glass. **Clean the glass only when it has cooled to room temperature.**

Additives that are put in gas (both natural and propane) to make it smell can be harmful to glass and can leave a white film deposit on the glass. This deposit can be removed, if cleaned in a timely manner, with cleaners such as KEL KEM "Polish Plus" (part # 65-06-00455) or comparable product (contact your dealer).

5.6.6 Is my flame performance correct?

Your fireplace has air shutters, dampers, coals, and embers that can be adjusted depending on your fuel and venting configuration. These adjustments should be made by a qualified technician to achieve the best flame performance. Contact your installer or Mendota dealer if you feel your fireplace is not burning correctly. Improper setup and adjustment is not covered under warranty.

5.6.7 What should I do if my fireplace is sooting?

Sooting is caused by improper installation or air shutter operation. However, some small areas of soot deposits on log surfaces are deemed acceptable. If you observe large soot areas (larger than 1"x1") on log surfaces or signs of sooting on the door glass (usually a thin black film on the Fireplace viewing glass or on the outside of the home around the vent cap), the unit <u>must</u> be <u>immediately turned off</u> and the local Mendota dealer promptly informed. Mendota dealers will correct "sooting" problems, but Mendota and their dealers are <u>not</u> responsible for damage caused by excessive sooting that has not been immediately brought to their attention. Troubleshooting soot:

Issue:	Possible Causes:	Corrective Action:
Thin black	A. Burner Air Shutter closed too	Open air shutter on burner fully. Check exhaust damper position.
coating (soot)	much.	It may be closed too far. Open exhaust damper. Check glass gasket
forms on	B. Exhaust Damper is closed too	for proper seal. Corners of glass gaskets cannot be bulging out. If
viewing glass.	much.	glass gasket along top edge in the middle is white in color across
	C. Improper log and/or ember	entire thickness of gasket bulb and gasket adhesive is not
	placement	functional, replace glass gasket. If sooting continues, shut off unit
	D. Glass door seal is	and call Mendota service person. Have service person check for
	compromised.	proper Orifice Sizes and correct gas outlet pressure (3.5" W.C. Nat.
	E. Incorrect gas pressure or	Gas; 10" W.C. LP Gas).
	burner orifice size.	NOTE: To clean glass - remove glass and wipe glass with cloth or
		paper towel.

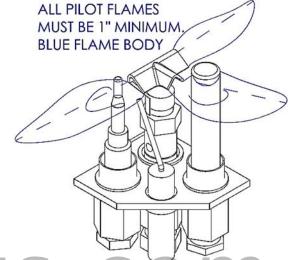
5.6.8 What happens when I first light my fireplace?

When you first light your fireplace, the initial curing phase is initiated. During the initial curing phase, a small amount of smoke and odor will be emitted. This is normal. To complete the curing process, run your fireplace, on high fire, for two hours with the fans on level 3. Open doors and windows to dissipate any odor. Turn your fireplace off. After it has cooled, run it again, on high fire, with the blowers off until no smoking or odor remains. Refer to Chapter 3.1.1 Mendota Fireplace Curing Instructions for more information.

6 MAINTENANCE INFORMATION

6.1 REQUIRED PERIODIC INSPECTIONS

- 1. Check to verify that the vent system and vent cap are open and free of blockage.
- 2. Have qualified service person check the operation of the pilot light. Pilot light must light within the first five to eight seconds of ignitor sparks initiation. If it takes more ten seconds to ignite the pilot flame, check pilot spark rod position and ignitor wires for pinched areas or damaged areas.
- Periodic visual check of pilot flames is required. Pilot
 Flame must overlap thermocouple tip and burner ignition
 ports always. Especially for LPG applications, always verify
 visible pilot flame length is at least 1" long, minimum.
- Cycle the burners to make certain burner ignition is prompt and flame propagation along burner length is quick and smooth. If flame propagation is delayed, remove obstructing debris, vacuum burner ports and retry.
- 5. Periodic visual check of rear and front burner flames pattern is required.



6.2 CLEANING VIEWING GLASS

WARNING: Do not clean when glass is hot.

The viewing glass should be cleaned periodically. Exterior glass surface may be cleaned with cleaner as desired. To Figure 6-1 Minimum Pilot Flame Length clean Interior glass surface, remove glass frame assembly. See 4.7 To Remove Door. Use Kel Kem "polish plus" (part # 65-06-00455) or comparable product to clean glass interior surface. Do not use oven cleaner or abrasive cleaners to clean glass.

6.3 REQUIRED ANNUAL MAINTENANCE

See Chapter 5.6.4 What maintenance is required?

In addition to the "Required Periodic Inspections", the following procedures must be performed each year by a qualified installer, service agency or the gas supplier. Any adjustments to burner, pilot or logs must be done by a qualified installer, service agency, or the gas supplier.

Clean all lint and dust build-up around the control and blowers. Inspect the condition of any wiring under the burner for melting or damage. Clean thermocouple and thermopile tips using emery cloth. Vacuum all burner ports and pilot assembly.

Remove logs & coals and clean away any foreign matter (lint, Carbon, etc.) on the burner and logs. Be sure the burner ports are "open". Clean the pilot and under side of the logs for any Carbon deposits.

NOTE: Logs should be visually checked for Carbon "build-up". If heavy carbon deposits are visible on logs, unit should be turned off and a qualified installer, service agency, or the gas supplier should be contacted. Be sure logs are re-installed per instructions.

Check glass gasket seal. Visually inspect glass gasket, especially at the corners of the glass piece. Glass gasket is installed as a 4-piece assembly. Check joints between the gasket pieces at the corners. They should butt against each other to create a seal. Gaps between gasket pieces can cause exhaust leaks and lead to acrid smell concerns.

6.4 OVER FIRING OR UNDER FIRING OF BURNER

NEVER "over fire" or "under-fire" units by increasing or decreasing the main orifice sizes or by adjusting gas pressure to increase BTUH above nameplate specifications.

Over firing can cause permanent damage to firebox and deterioration of parts and void the warranty.

Under-firing can potentially cause delayed ignition and lead to property loss and person injury and will void the warranty.

If you are using a "backyard" Natural Gas well as the gas source, you must submit formal gas analysis data sheets to Mendota Fireplaces for review and calculation of proper main burner orifice sizes prior to first firing. It is known that unpurified Natural Gas from "backyard" wells can contain high energy levels causing over firing. Further, unpurified gas can contain high levels of Sulphur and other compounds which can damage the burner materials and the ceramic glass. Use of unpurified gas will void the warranty for this product.

6.5 PILOT OUTAGE AND RE-LIGHTING

If pilot goes out, be sure to wait a minimum of five minutes before attempting to re-light. If lockout occurs frequently, contact you Mendota Dealer for diagnosing the problem.

Frequent pilot outages can be caused by many factors and must be properly diagnosed, and the primary cause identified. It should never be assumed that the ignition control system is faulty without proper diagnosis.

6.6 COMBUSTION SYSTEM MILLIVOLT READINGS

Millivolt readings must be taken by a qualified installer at the time of installation and after any interruption in burner operation. These readings will establish proper thermopile millivolt generation and assure trouble-free burner operation. Readings must be taken with:

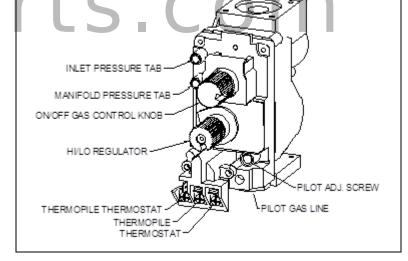
A. Pilot ONLY operating.

3. Main Burner operating.

6.6.1 PILOT ONLY OPERATING

Thermostat "OFF" Minimum Millivolts 325

Using a Millivolt Meter, a millivolt reading should be taken by attaching Meter leads to terminals #1 and #2 on the main gas valve. The Meter must read a minimum of 325 millivolts with the Pilot Light operating, Thermo-stat turned "OFF" and Main Burner "OFF". To increase or decrease millivolts (and pilot flame) adjust pilot screw on control (see Error! Reference source not found.). Pilot Flame must be a minimum of ¾" long on all three branches.



6.6.2 MAIN BURNER OPERATING

Thermostat "ON" -Minimum Millivolts 100

Using a Millivolt Meter, a millivolt reading should be taken by attaching Meter leads to terminals #2 and #3 on the millivolt panel on the main gas valve. The Meter must read a minimum of 100 millivolts with the Gas Cock Dial turned "ON", Thermostat "ON" and Main Burner operating. To increase or decrease millivolts (and pilot flame) adjust pilot screw on control

CHECK TEST	TO TEST	CONNECT METER LEADS TO TERMINALS	THERMOSTAT CONTACTS	METER READING SHOULD BE
А	COMPLETE SYSTEM	2 & 3	CLOSED	100MV OR MORE
В	THERMO-PILE OUTPUT	1 & 2	OPEN	GREATER THAN 325 MV
С	SYSTEM RESISTANCE	1 & 3	CLOSED	LESS THAN 2.8 ohms
D	AUTO/ PILOT DROPOUT	1 & 2	OPEN	BETWEEN 120-30 MV

6.7 BURNER FLAME HEIGHTS REFERENCE DIAGRAM

This image provides a visual reference for the burner flames burning at maximum height after the burners have been operating for 30 minutes or longer. A normal rear flame will be 1 to 2 inches above the rear log top edge. This, however, is dependent on the gas type, air shutter opening setting and vent system configuration. Actual flame heights can be slightly higher or lower when compared to this reference image.



7 REPLACEMENT PARTS INFORMATION

7.1.1 How to Access Components

The descriptions below show where the main fireplaces components are located and how to access them for service. The descriptions show how to access the components after the fireplace has been installed. All components are also accessible from the outside of the unit before the fireplace is installed.

Pilot: The pilot is the middle of the firebox between the rear and front burners.

Gas Valve: The main gas valve is located behind the left side surround hinged door. Open the left side surround hinged door to inspect the gas valve, wiring, and gas inlet connections.

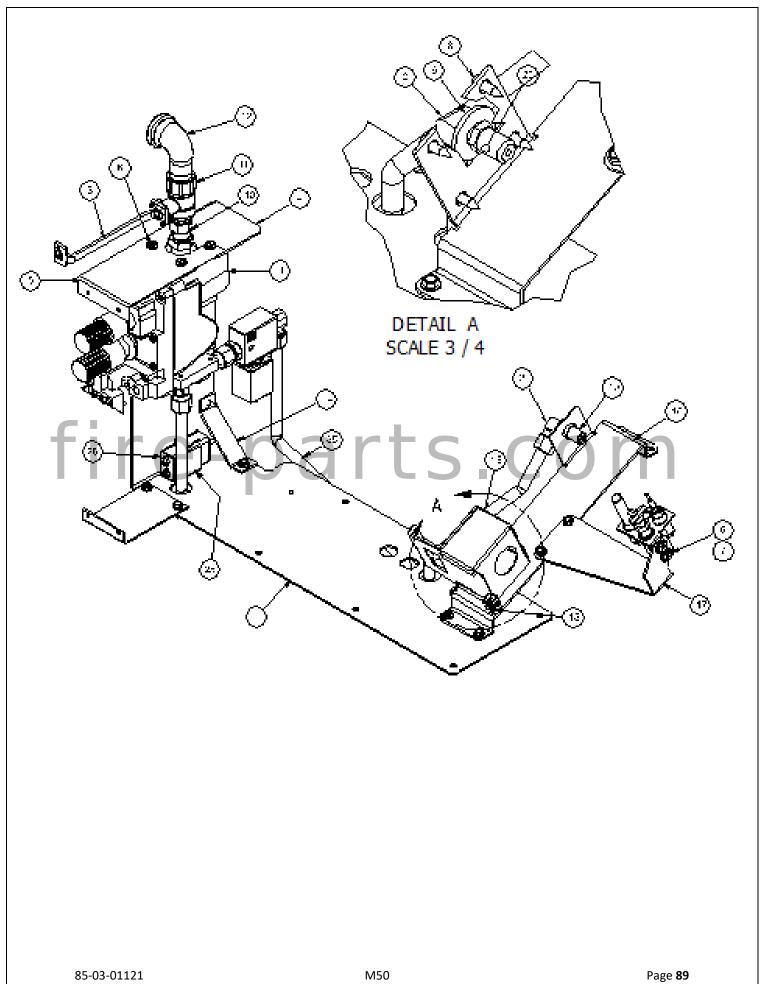
Complete Valve Assembly: To make working on components easier, this fireplace has been designed with the valve, pilot, shutter boxes, shutter cables and gas lines as part of one assembly that can be removed from the fireplace. To remove the assembly first remove the inspection panel. This will allow the main gas inlet and wires to the valve, rear burner solenoid and pilot to be disconnected. After disconnecting the gas line and wires remove the screws from the valve mounting plate (13 on the left side and two on the floor of the firebox). Then remove the entire assembly from the firebox.

Convection Blowers: The convection blowers are mounted behind the rear wall of the of firebox. To access the convection blowers, it is necessary to remove firebox liner, logs, burner system and burner airbox and an access cover plate in the firebox floor. Convection blowers control rheostat is mounted behind hinged right-side surround leg.

fire-parts.com

7.1.2 Gas Train Replacement Parts List

M50 GAS TRAIN PARTS LIST						
ITEM	QTY	QTY PART# DESCRIPTION				
1	1	05-02-00313	VALVE, SIT, NATURAL GAS,225F,3.5-1.3			
2	2	65-07-00010	BCF,3/8 TBE X 1/8MPT COMP ELBW-AF			
3	1	HA-48-00021	EXTENSION, MANUAL SHUTOFF, ASM			
4	1	HA-51-00019	VALVE BRACKET, M50			
5	1	HA-51-00017	TOP BRACKET VALVE M50			
6	6	50-01-00123	SCREW, PLATED,10-32 x 1/4", RSLMS			
7	2	50-04-00047	WASHER, FLAT, #10			
8	12	50-01-00102	TEKS, HEX #8 X 1/2 BLK ZINC			
9	2	50-04-00022	WASHER, STD 3/8" 7/16 X 1 OD			
10	1	65-07-00748	CONNECTOR, SWIVEL 3/8MPT FLARE			
11	1	65-07-00744	VALVE, BALL 1/2FPT X 3/8 FLARE			
12	1	60-05-00049	ELBOW, 1/2" STREET BLACK			
13	1	HA-51-00032	BRACKET, COVER PLATE, M50			
14	1	HA-51-00054	STIFFENER, VALVE BRACKET			
15	1	HA-51-00059	SLIDER, AIRBOX, M50			
16	1	HA-51-00062	BRACKET, ORIFICE, M47			
17	1	HA-51-00063	BRACKET, PILOT ASSY, M47			
18	1	HA-51-00058	SHUTTER BOX, M50			
19	1	65-14-00043	ORIFICE, #59 4,268 BTU NAT			
20	1	65-14-00033	ORIFICE, #33			
21	1	05-04-00039	ASSY, PILOT NAT #PSE-NA274			
22	1	05-02-00283	EXTENSION, SHORT KNOB, ON/OFF			
23	1	05-02-00284	EXTENSION, SHORT KNOB, HI/LO			
24	1	05-02-00310	VALVE, SOLENOID REAR BURNER,9VDC			
25	1	65-06-00986	BATTERY CLIP			
26	1	65-06-00987	BATTERY, 9V ALKALINE			
27	1	60-02-00005	BUSHING, 3/8 MPT X 1/4 FPT HEX BLK			
28	1	HA-41-00119	LINE, GAS FRONT BURNER DXV-45			
30	1	65-07-00020	3/8 BCH COMPRESSION NUT			
31	1	65-07-00021	3/8" BCF SLEEVE			
32	1	HOSE				
33	1	65-07-00060	BCF, 3/8" X 3/8" X 1/4" MALE			
34	1	65-07-00745	BCF, 1/4 MPT X 3/8 COMP ELBOW			



7.1.3 Convection Air Blower System Parts

Item 1	15-02-00120	BLOWER, RH
Item 2	15-02-00121	BLOWER, LH

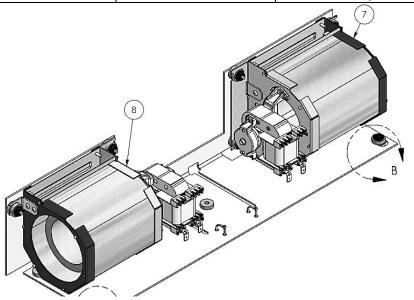


Figure 7-1 M50 BLOWER ASSEMBLIES

fire-parts.com

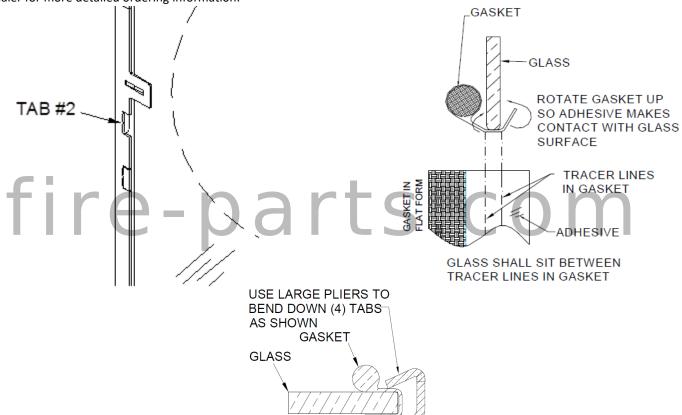
7.1.4 Glass Frame Parts Replacement Procedure

WARNING: do not use substitute materials. All replacement materials must be certified and obtained through Mendota fireplaces.

TO REPLACE DAMAGED GLASS

- 1. Bend glass retainer tabs up 90 degrees. Four tabs hold down the glass and gasket assembly.
- 2. Remove the damaged glass and gasket material. Clean the inner surface of the glass frame.
- 3. Assemble new gasket on glass edge starting with the bottom left corner. The adhesive on the gasket should contact the glass surface. Use tracer lines in gasket to determine where the glass should sit on the gasket surface.
- 4. Place glass and gasket assembly in glass frame and carefully bend down glass retainer tabs. Extra glass retainer tabs are provided should any originally used tabs break off.

The glass frame assembly and its individual components are available through Johnson Gas Appliance Company. Contact your dealer for more detailed ordering information.



GLASS FRAME ASSEMBLY REPLACEMENT PARTS LIST				
ITEM	PART NUMBER	DESCRIPTION		
1	HA-52-00003	FRAME, WELDMENT, GLASS, M50		
2	65-02-00103	GASKET, TADPOLE, 3/8"BULB, 3/4" TAIL		
3	65-06-01063	GLASS, CERAMIC, M50		

8 WARRANTY QUALIFICATION AND SERVICE

The following information verifies proper installation and operation of your Mendota fireplace. All installation and operating instructions must be carefully followed. This Mendota fireplace must be installed and serviced by a qualified installer, service agency, or the gas supplier.

Q 1	EINIAI IN		AND HOMEOWNER	CHECKLIST
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intact and remain woodburning capable (inserts only INSERTS ONLY: Woodburning chimney interior and check No offensive odor emitting materials exist around ap All surrounding finishing materials are conforming to Electrical power supply system conforms to NEC and Gas supply must conform to national and local building All gas line joints were checked for leaks using gas lead All internal gas plumbing joints were checked for leak Glass gasket was inspected and verified that it is seal Gas supply line was bled of air and pilot flame was iguing Pilot flame overlaps burner flame propagation ports Burners light and flames travel promptly along entire Logs/media are installed properly per installation install Burner(s) air shutter is adjusted properly. Shutter open Burner flames are "stable" and are not "lifting" off but the supplementary of the Burner flames are "stable" and are not "lifting" off but the supplementary of the s	nimney top cap are inspected and repaired or replaced if damaged. ppliance such as low temp rated adhesives, plastics or others. manual requirements. local electrical codes. ng codes. ak detector solution or a gas sniffer. ks using gas leak detector solution or a gas sniffer. ing properly. nited. properly. elength of burner. tructions. ening set properly per installation manual. urner. dead and follow Mendota Fireplace and Insert Curing Instructions mit during initial curing step. ket. lass latch tool, backup battery system, etc. front. ass door. equirement. CPI shall be used for winter months. old the flame height. peed. ghtness. poperate appliance during power outage. gency shutoff function. e using glass latch tool. is required per manual. DUCING APPLIANCES. KEEP CHILDREN AND PERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.
Staff Name	Staff Signature Date
Homeowner's Name	Homeowner's Signature Date

85-03-01121 M50 Page **92**

8.2 WARRANTY POLICY STATEMENT

Mendota Fireplace, a division of Johnson Gas Appliance Company, extends this Limited Lifetime Warranty to the original purchaser of this appliance provided the product remains in the original place of installation. The items covered by this limited warranty and the period of such coverage is set forth in the table below.

Some conditions apply (see below).

The policy is not transferable, amendable or negotiable under any circumstances.

	Parts Coverage				
Description	Lifetime	3 years	2 years	1 year	90 days
Firebox and Heat Exchanger	STD				
Glass-thermal (breakage only)	STD				
Stainless Steel Burner Tubes/Ceramic Burners	STD				
All Castings		EXT	STD		
Valve Assembly and all gas control components (Pilot Assembly, Flame Sensor, Spark Electrode, Pilot Tubing, Orifices, Thermocouple, Thermopile)		EXT	STD		
All other Electrical Components (Ignition Control Boards, Wiring, Switches, Blowers, Blower Control Module, Battery Pack)	ar	EXT	STD		m
Venting/Venting Components		EXT	STD		
Remote Control Transmitter				EXT	STD
Exterior Painted Finishes			EXT	STD	
Exterior Plated Finishes			EXT	STD	
Brick Panels and Log Sets (coloration failures only)			EXT	STD	
All Firebox Media (Glass Beads, Ceramic Stones, Tumbled Marble)			EXT	STD	
All hardware			EXT	STD	
Mesh/Glass Safety Barriers			EXT	STD	
Enamel Panels				STD	
Accent Light Bulbs					STD

STD = Mendota Standard Warranty

EXT = Mendota Extended Warranty With Registration

8.3 CONDITIONS

- Warranty protects against defect in manufacture or Mendota factory assembled components only, unless herein specified otherwise.
- It remains the full responsibility of the owner to operate this appliance within the guidelines provided in the Installation and Operating Instructions Manual accompanying this appliance. Further, the owner shall bear full responsibility to enforce clearances to combustibles requirements and cautioning others about hot glass surface and hot metal surfaces.
- Owner by operating this appliance accepts that this is a heat producing appliance which has glass and steel parts that are hot enough to cause severe burns. Owner accepts that this appliance requires close monitoring of children and vulnerable individuals who are in the vicinity of this appliance when it is in operation. Mendota does not assume or accept any liability claims for burns or other physical or material damages resulting from touching hot glass surface and hot metal surfaces that are part of this appliance or other adjacent object such as hearth pads and mantels that may heat up during operation of this appliance.
- Any part(s) found to be defective during the warranty period as outlined above will be repaired or replaced at Mendota's option through an accredited distributor, dealer or pre-approved and assigned agent provided that the defective part is returned to the distributor, dealer or agent for inspection if requested by Mendota. Alternatively, Mendota may at its own discretion fully discharge all of its obligations under the warranty by refunding the verified purchase price of the product to the original purchaser. The purchase price must be confirmed by the original Bill of Sale.
- The authorized selling dealer, or an alternative authorized Mendota dealer if pre-approved by Mendota, is responsible for all infield diagnosis and service work related to all warranty claims. Mendota is not responsible for results or costs of workmanship of unauthorized Mendota dealers or agents in the negligence of their service work.
- At all times Mendota reserves the right to inspect reported complaints on location in the field claimed to be defective prior to processing or authorizing of any claim. Failure to allow this upon request will void the warranty.
- All warranty claims must be submitted by the dealer servicing the claim, including a copy of the Bill of Sale (proof of purchase by you). All claims must be complete and provide full details as requested by Mendota to receive consideration for evaluation. Incomplete claims may be rejected.
- Unit must be installed according to all manufacturers' instructions as per the manual by a Mendota authorized dealer, an authorized dealer technician or an authorized service person only.

All Local and National required codes must be met.

The installer is responsible to ensure the unit is operating as designed at the time of installation.

The original purchaser is responsible for annual maintenance of the unit, as outlined in the owner's manual. As outlined below, the warranty may be voided due to problems caused by lack of maintenance.

Repair/replacement parts purchased by the consumer from Mendota after the original coverage has expired on the unit will carry a 90-day warranty, valid with a receipt only. Any item shown to be defective will be repaired or replaced at our discretion. No labor coverage is included with these parts

8.3.1 Exclusions

- 1. This Limited Lifetime Warranty does not extend to paint, rust or corrosion of any kind due to a lack of maintenance or improper venting, combustion air provision, corrosive chemicals (i.e. chlorine, salt, air, etc.), door or glass gasketing.
- 2. Discoloration and some minor warping are normal, not a defect and therefore not covered under this warranty. The installer must insure the unit is burning as per the rating tag at the time of installation. Over-firing (operation above the listed BTU rating of this unit can cause serious damage and will nullify this warranty.
- 3. Mendota will not cover the cost of the removal or re-installation of hearths, facing, mantels or other components.
- 4. This warranty does not cover dealer travel costs for diagnostic or service work. All labor rates paid to authorized dealers are subsidized, pre-determined rates. Dealers may charge homeowner for travel and additional time beyond their subsidy.
- 5. Damages to plated surfaces caused by fingerprints, scratches, melted item or other external sources left on plated surfaces from the use of cleaners other than denatured alcohol is not covered by this warranty.

- 6. Mendota is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty.
- 7. Exclusions to this warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration of the manufacturer's setting of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, or by act of God.
- 8. Malfunction, damage or performance based issues of any and all components as a result of environmental conditions, location, chemical damages, downdrafts, installation error, installation by an unqualified installer, incorrect chimney components (including but not limited to cap size or type), operator error, abuse, misuse, use of improper fuels, lack of regular maintenance and upkeep, acts of God, weather related problems from hurricanes, tornados, earthquakes, floods, lightning strikes/bolts or acts of terrorism or war, which result in malfunction of the appliance are not covered under the terms of this Limited Lifetime Warranty.
- 9. Mendota has no obligation to enhance or modify any unit once manufactured (i.e. as products evolve, field modifications or upgrades will not be performed on existing appliances).
- 10. Any unit showing signs of neglect or misuse will not be covered under the terms of this warranty policy and may void this warranty. This includes units with rusted or corroded fireboxes which have not been reported as rusted or corroded within three (3) months of installation/purchase.
- 11. Units which show evidence of being operated while damaged, or with problems known to the purchaser and causing further damages will void this warranty.
- 12. Units where the serial no. has been altered, deleted, removed or made illegible will void this warranty.
- 13. Noises due to minor movement, expansion and contraction of the steel is normal and is not covered under the terms of this warranty.
- 14. Freight damages for products or parts are not covered under the terms of the warranty.
- 15. Products made or provided by other manufacturers and used in conjunction with the Mendota appliance without prior authorization from Mendota may void this warranty.

8.3.2 Limitations of Liability

The original purchaser's exclusive remedy under this warranty, and Mendota's sole obligation under this warranty, express or implied, in contract or in tort, shall be limited to replacement, repair, or refund, as outlined above. In no event will Mendota be liable under this warranty for any incidental or consequential commercial damages or damages to property. To the extent permitted by applicable law, Mendota makes no express warranties other than the warranty specified herein. The duration of any implied warranty is limited to duration of the expressed warranty specified above. If implied warranties cannot be disclaimed, then such warranties are limited in duration to the duration of this warranty.

Some U.S. states do not allow limitations on how long an implied warranty lasts or allow exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Customers located outside the U.S. should consult their local, provincial or national legal codes for additional terms which may be applicable to this warranty.

8.3.3 How to Obtain Warranty Service

- 1. If you discover a problem that you believe to be covered by the warranty, you must report to your Mendota Dealer within 30 days, with proof of purchase, purchase date, model name and serial number.
- 2. Customers should contact the authorized selling dealer to obtain warranty service. In the event the authorized selling dealer is unable to provide warranty service, please contact Mendota by mail at the address listed below. Please include a brief description of the problem and your address, email and telephone contact information. A representative will contact you to make arrangements for an inspection and/or warranty service.

Warrantor:

Johnson Gas Appliance Company Mendota Fireplace Division 520 E Avenue NW, Cedar Rapids, IA 52405, USA

8.3.4 Owner Registration

After installation, Mendota fireplace owners must register with Mendota to qualify for the Lifetime Limited Warranty within 30 days. Product registration will activate your Lifetime Limited Warranty.

Owners should complete the forms available at:

mendotahearth.com/warranty

Note: Your Mendota dealer can assist with warranty applications and information.

fire-parts.com

MENDOTA EXTENDED WARRANTY FORM

As a part of Mendota's on-going program of customer satisfaction, this form verifies proper installation and operation. It is important as a reference for future service. It ensures long life and trouble-free operation of Mendota fireplaces and stoves and qualifies the owner for Mendota's limited lifetime parts warranty on the firebox, heat exchanger, burners and glass. Mendota will extend our standard 2-year parts warranty an extra year when you complete the certified installation and registration process.

WARNING: MENDOTA GAS FIREPLACES ARE HEAT PRODUCING APPLIANCES. KEEP CHILDREN AND FURNITURE A SAFE DISTANCE AWAY TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

All information below is required to qualify for the Mendota Extended Warranty.

HOMEOWNER/BUILDER CONTACT DETAILS

Homeowner/Builder:	:			
Address:				
Phone/Email: Dealer Name: Address:	e- p	arts	.con	
Installer/Contractor:				
Phone/Email:				
TO QUAI	LIFY FOR EXTENDED WA	ARRANTY, FILL OUT PROD	UCT DETAILS AND CHECK	LIST
Model No		Serial No.		
Date Purchased		Date Installed		
Log Set/Media Part	No		Date Code	
Firebox Liner Part No	0		Date Code	
Front/Door/Safety S	creen Part No		Date Code	
Vent Brand	Vent Lo	ength (FT)	Vent Cap Type/Part No.	
Check If Installed Wi	ith Unit: Heat Transf	fer Kit □ Cool Wall □	Power Vent □	Versiheat □
Gas Type: Na	atural Gas □ LPG □	Inlet Gas Pressure ("WC)	
	PLEASE USE MENT	OOTA PART NUMBERS AND	D PRINT CLEARLY	

Johnson Gas Appliance Company 520 E Avenue NW Cedar Rapids, Iowa 52405 Mendota Warranty Registration

fire-parts.com

POSTAGE NEEDED