PHONE	DATE	ADDRESS	SIGNATURE OF APPLICANT RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE
yy the owner of o all applicable cial's authorized ion of the code	posed work is authorized but and I agree to conform to I certify that the code office hour to enforce the provision	med property, or that the proceed agerication as his authorized agerd in the application is issued, ich permit at any reasonable	I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.
_ ~		CERTIFICATION	
Date:	Date:	Date: JUB 1/13/05	
Approved w/Conditions Denied	Denied	Maj Minor MM	
Approved	Interpretation	Subdivision Site plan	permit and stop all work
Requires Review	Conditional Use	☐ Flood Zone	3. Building permits are void if work is not started within six (6) months of the date of issuance.
Does Not Require Review	Miscellaneous	Wetland	Building permits do not include plumbing, septic or electrical work.
Historic Preservation Not in District or Landman	Zoning Appeal Variance	Special Zone or Reviews Shoreland	 This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
,-	Zoning Approval		dmartin Date Applied For: 01/05/2005
Date:	Signature:	Sign	
Approved w/Conditions	Approved	Action:	
Signature M	Signature:	Sign	Proposed Project Description: Install a Starbridge gas heater w/direct venting
Use Group: 7	Approved Denied	, and the second	Çun Ivanov.
:: CEO District: 1.45 5	Cost of Work 8.00 \$2,43	Proposed Use: Single Family install a Starbridge oas heater	Past Use: Proposed Use: Single Family Single Family
י כיז ראַנער י	Permit Type: VIII VI HVAC	Perm H\	Lessee/Buyer's Name Phone:
7037	Contractor Address: (SON)		Business Name: Contractor Name: Frost N Flame
1 4 205	Owner Address: 104 Shepherd Ln JAN	&	Location of Construction: Owner Name: 104 Shepherd Ln Scala Michael F
T ISSUEJU	Permit No:		Maine , 04101



APPLICATION FOR PERMIT

HEATING OR POWER EQUIPMENT

Inspector's Signature Date Approved	Signature of Testalla
See anacticu tener or requirement	Ele.:
	Fire: Approved
Permit Fee: \$ 44,00	
Cost of Work: \$ 2,431.45	A Gas # CNT 1606
Distance from Tank to Center of Flame 20 feet.	☐ Solid Fuel #
Number of Tanks /	The Type of License of Installer: Master Plumber #
Size of Tank 50	
A Gas	IF NO Explain:
Type of Fuel Tank	Will appliance be installed in accordance with the manufacture's installation instructions? Yes ONO
Type Sumpson Duz New Tul# 3N98	Appliance Name: 1/10 200 XX
☐ Metal Factory Built U.L. Listing #	Type of Fuel: Gas
Type of Chimney: Masonry Lined Factory built	Basement C Roof
	(3N/cm
Z Couller	Installer's name and address FON + Flame
Use of Bailding Residentic Dave 12/30/1	Location / CBL 104 Shipherd GAR ROPHER Name and address of owner of appliance 104 Shipherd
stall the following heating, cooking or power equipment in the City of Portland, and the following specifications:	In the INSPECTOR OF BUILDINGS, PORTLAND, ME. The undersigned hereby applies for a permit to install the following heating, cooking or power equipmen accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:
	The second section of the section

City of Portland, N	City of Portland, Maine - Building or Use Permit	Permit	Permit No:	Date Applied For:	CBL:
389 Congress Street,	389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716	, Fax: (207) 874-8716	05-0011	01/04/2005	351 A028001
Location of Construction:	Owner Name:	0	Owner Address:		Phone:
104 Shepherd Ln	Scala Michael F &		104 Shepherd Ln		
Business Name:	Contractor Name:		Contractor Address:	The state of the s	Phone
THE THE THE TAXABLE THE TAXABL	Frost N Flame	6	629 Main St. Portland		
Lessee/Buyer's Name	Phone:	P	Permit Type:		
The state of the s		THE PARTY OF THE P	HVAC		
Proposed Use:		Proposed	Proposed Project Description:		
Single Family install a Starbridge gas heater	Starbridge gas heater	Install a	Install a Starbridge gas heater w/direct	nter w/direct venting	
Dept: Zoning Note:	Status: Approved	Reviewer:	Reviewer: Jeanine Bourke	Approval Date: Ok	ite: 01/13/2005 Ok to Issue:
Dept: Building	Status: Approved	Reviewer:	Reviewer: Jeanine Bourke	Approval Date:	e: 01/13/2005
Note:				0	Ok to Issue:
The installation mu	1) The installation must comply with the State of Maine Gas Regulations	ine Gas Regulations.			





- Direct Vent Freestanding Stove
- Natural Gas or Propane
- Vent Horizontally or Vertically
- Standard Residential
- Mobile Home Approved

Tested and Listed by



OMNI-Test Laboratories, Inc. Report # 028-S-50-5 Beaverton, Oregon ANSI Z21.88

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

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

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.
- if you cannot reach your gas supplier, call the fire department. Immediately call gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- Installation and service must be performed by a qualified installer, service agency or the gas

This appliance may be installed as an OEM installation in a manufactured (mobile) home and must be installed in accordance with the manufacturer's instructions and the manufactured home construction and safety standard, Title 24 CFR, Part 3280.

This appliance is only for use with the type(s) of gas indicated on the rating plate. conversion kit is supplied with the appliance.

Sturbridge Owner's Manual

nstaller After installation give this manual to the home-owner and explain operation of this heater.

© Copyright 2003, T.I.

Part # 100-01142



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Saya

Specifications

Features:

- Ember FyreTM Burner for "Wood Fire" Look Works During Power Outages (millivolt system)
- High Efficiency
- Optional Thermostat or Remote Control
 Optional Blower for Quicker Heat Distribution
- Convenient Operating Controls
- Variable-Rate Heat Output ow Maintenance

Installation Options:

- Freestanding Stove
- Horizontal or Vertical Vent
- Residential or Mobile Home
- Bedroom Approved Straight or Corner Placement

Heating Specifications:

AFUE (without blower) Steady State Efficiency..... Minimum Output On Low (in BTU's)......9,900 Maximurn Input (in BTU's)18,000 Approximate Heating Capacity (in square feet)* temperature. Heating capacity will vary depending on the home's floor plan, degree of insulation, and the outsideup to 850 with Blower, up to 650 Withoutup to 80.1%Up to 67.8%

of installed system. Efficiency rating is a product of thermal efficiency rating determined under continuous operation independent

Dimensions & Weight:

and back clearances from the stove top. Measure side, corner, 241/2" behind the stove top The flue collar protrudes 2-7/8" Weight: 130 Lbs. 20-3/4" 18-1/2"

Electrical Specifications (for optional blower)

Electrical Rating.....115 Volts, 1.3 Amps, 60 Hz (150 watts on high)

This heater is shipped in natural gas (NG) configuration but may be converted to propane (LP) using the included LP conversion kit. The sticker on top of the gas control valve will verify the correct fuel.



Installation Warnings:

- Failure to follow all of the requirements may result in property damage, bodily injury, or even death.
- This heater must be installed by a qualified installer who has gone through a training program for the installation of direct vent gas appliances.
- This appliance must be installed in accordance with all local codes, if any; if not, in U.S.A. follow ANSI Z223.1 and NFPA 54(88).
- In Manufactured or Mobile Homes must conform with 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/NCSBCS A225.1. This appliance may be installed in Manufactured House only after the home is site located. This appliance may be installed in Manufactured Housing
- This stove is designed to operate on natural gas or propane (LP).
- All exhaust gases must be vented outside the structure of the living-area Combustion air is drawn from outside the living-area structure.
- Notify your insurance company before hooking up this stove.
- The requirements listed below are divided into sections. All requirements must be met simultaneously. The order of installation is not rigid the qualified installer should follow the procedure best suited for the installation.

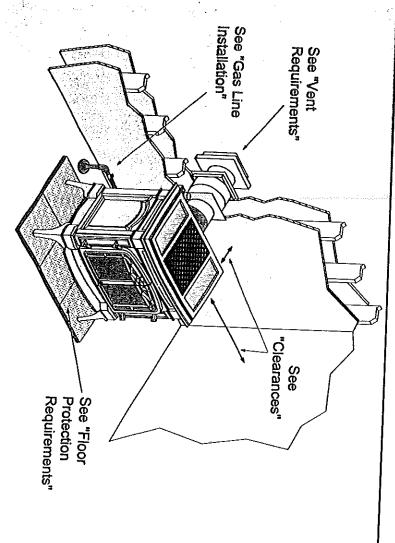
Packing List

Additional Items Required

Vent (see "Venting Requirements" for details) Gas Line Equipment (shutoff valve, pipe, etc.)

- Propane Conversion Kit
 Log Set
 2" Pipe, 8" Pipe, and 90° Elbow (for gas inlet)
 Door Latch Tool (to un-latch glass frame) Touch-Up Paint

Installation Overview

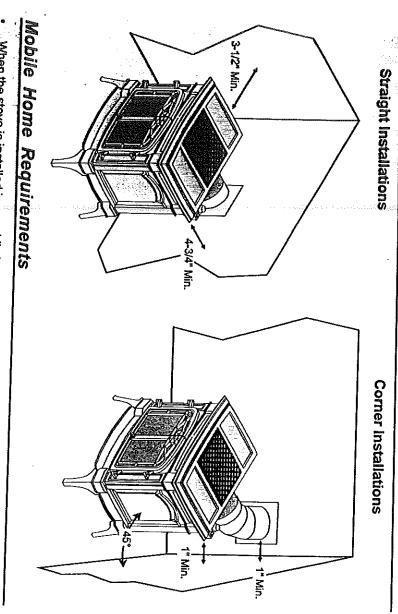




Installation Hints:

- If converting to LP, convert the appliance prior to installation.
- position. The blower is easiest to install prior to installation. Because the blower is located near the gas inlet location, we recommend using the included pipe and elbow to route the gas inlet around the blower
- Install the logs last they are fragile.
- When determining the location of the stove, locate the wall studs (for horizontal penetrations) and ceiling trusses (for vertical penetrations). You may wish to adjust the stove position slightly to ensure the vent does not intersect with a framing member.
- Furnes and smoke from the paint curing and oil burning off the steel may occur the first time you start this heater. This is normal. We recommend you open windows to vent the room.

Stove Clearances



- When the stove is installed in a mobile home, it must be bolted to the floor.
- When the optional blower is installed it must be connected to a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from the optional blower cord.

Heater Placement Requirements

furniture and draperies. Heater must be placed so no combustibles are within, or can swing within 36" of the front of the heater (e.g. drapes, doors) Due to the high temperature of the heater, it should be located out of traffic and away from Heater must be installed on a level surface capable of supporting the heater and vent

When placed in a location where the floor to ceiling height is under 7 feet, the installation is considered an alcove and must meet the following requirements:

- The alcove floor to ceiling height must be at least 36" tall
- The alcove must not be more than 48" deep before the ceiling returns to 7".

 The alcove must be at least 27-3/4" wide

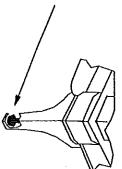
heater, or along the back of the heater can become blocked The heater must not be placed so the vents below or above the door, along the sides of

This heater may be placed in a bedroom. Please I appliance produces when determining a location. Please be aware of the large amount of heat this

Protection Requirements

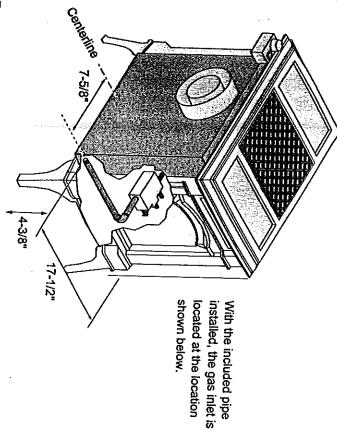
a metal or wood protection panel extending the full width and depth of the stove top (Minimum 20-3/4" wide by 14" deep). When the stove is installed directly on carpeting, vinyl or other combustible material other than wood flooring or a high pressure laminate wood floor, the stove must be installed on

not adjust with weight on the legs, the rubber tips may tear. transmit through the hearth). Do (they dampen any noise that may bolts on each leg contact the floor Make sure these rubber tipped



Gas Line Installation

- The gas line must be installed in accordance with all local codes, if any; if not, follow current ANSI Z223.1 or NFPA 54.
- The heater and gas control valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.45 kPA). For pressures under 1/2 psig (3.45 kPA), isolate the gas supply piping by closing the manual shutoff valve.
- top of the gas control valve to verify the correct fuel is used (see page 4). This heater is designed for natural gas but can be converted to propane. Check the sticker on
- Leak test all gas line joints and the gas control valve prior to and after starting the heater
- The gas inlet accepts a 3/8" F.P.T. Fitting
- The location of the gas inlet is shown below
- A manual shutoff valve is required for installation (it must be located within 3' of the heater). T-Handle gas cocks are required in Massachusetts in compliance with code 248CMR.
- Massachusetts a licensed plumber/gasfitter). Installation must be performed by a qualified installer, service agency or the gas supplier (In



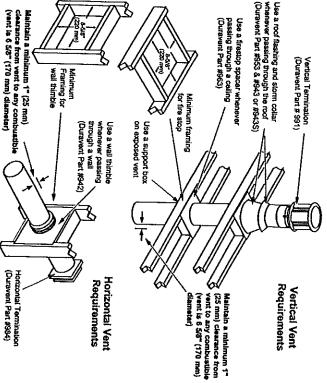
Gas inlet Pressure

- With the heater off, the inlet pressure must meet the requirements listed in the table below
- If the pressure is not sufficient, make sure the piping used is large enough and the total gas load for the residence does not exceed the amount supplied.
- supplier if the regulator is at an improper pressure. The supply regulator (the regulator that attaches directly to the residence inlet or to the propane tank) should supply gas at the suggested input pressure listed below. Contact the local gas

Fropane	Natural Gas	
13" W.C. (3.23 Kpa)	7" W.C. (1.74 Kpa)	Standard Input Pressure

Vent Requirements

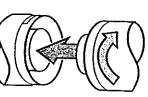
- Always maintain the required 1" clearance (air space) to combustible materials to prevent a fire hazard. Do not fill air spaces with insulation.
- appliance must use it's own separate vent system The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. Each direct vent gas Each direct vent gas
- This appliance is equipped only for altitudes 0-2000 ft. However, our inhouse testing has shown that the unit operated at altitudes to 8000 ft.
- Failure to adjust the air shutter properly may lead to improper combustion which can create a safety hazard. Consult your dealer or installer if you suspect an improperly adjusted air shutter.
- When the vent passes through a wall, a wall thimble is required. When the vent passes through a ceiling, a support box or firestop is required. When the vent passes through the roof, a roof flashing and storm collar are required. Follow the instructions provided with the vent (from Duravent®) for installing these items.



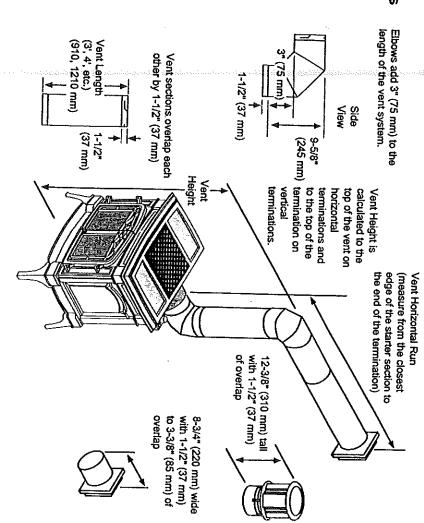
Use Model GS Direct Vent manufactured by Simpson Dura-Vent only (or the Chimney Conversion Kit see Addendum #2). Follow the installation instructions included with the vent. For the nearest Simpson Dura-Vent supplier, call (800) 835-4429. Part numbers and descriptions are listed below.

٠.		3.0						
		912B	962	900	28	98	9078	- King
	- Ja. Aujustabie, Black (intenor)	48" Pipe Length, Black (Interior)	36" Pipe Length, Black (Interior) 48" Pipe Length, Galvanized	36" Pipe Length, Black (Interior)	24" Pipe Length, Galvanized	12" Pipe Length, Galvanized	9" Pine Length, Black (interior)	Wit - engins
	945 90° Elbow, Black (interior)		Elbows	950 Vinyl Siding Standoff	baseme	(for basement installations)	981 Snorkel Termination (36" rise)	Vent Terminations
			983	943S F	943	946	Leneura.	7
		Vall Strap	Storm Collar	lashing, 7/12 to 12/12 Roof	Pathedral Ceiling Support Box	Optional Wall Thimble Cover	ion. Support Parts	

- Slide the vent sections together and turn 1/4 turn until the sections lock in place.
- secure vent sections together if desired. Screws are not required to secure the vent. However, three screws may be used to
- (use high-temperature silicone or Mill-Pac®). High temperature sealant is recommended at the appliance starter section connection
- If disassembly is required, at time of re-assembly check to see if the vent creates a tight If it does not, apply high temperature sealant to the joints of the affected sections.
- "Horizontal sections require a 1/4" rise every 12" of travel
- Horizontal sections require non-combustible support every three feet (e.g.; plumbing



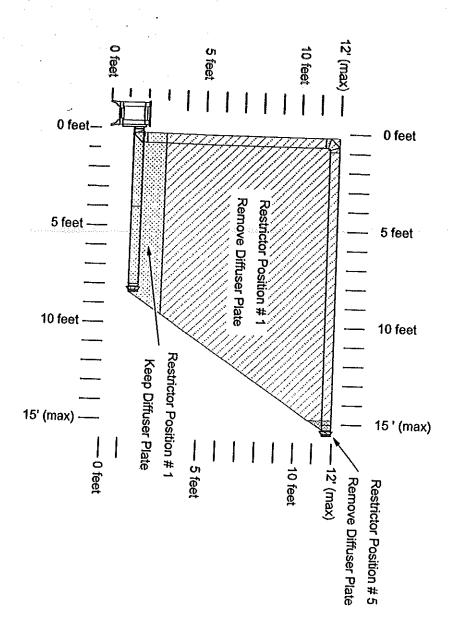




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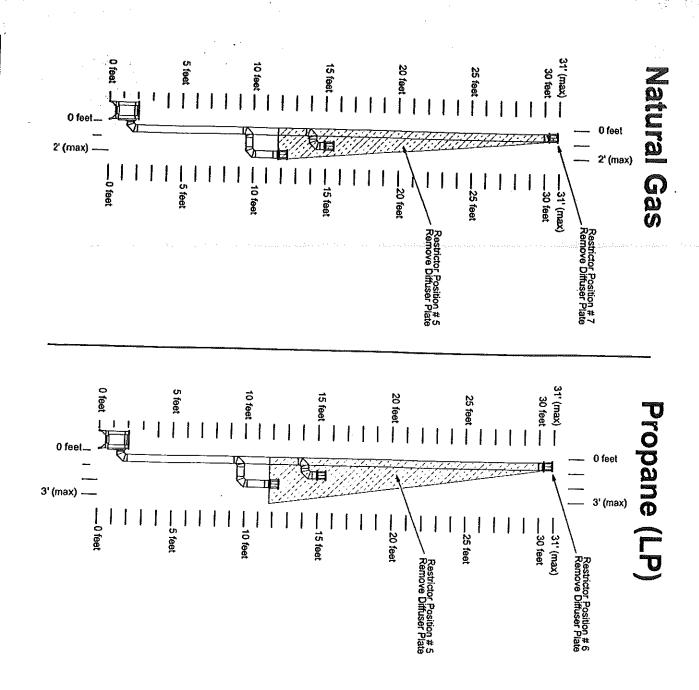
Approved Venting Configurations for Horizontal Terminations

- 12' Maximum System Height
- 15' Maximum Offset
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor position.
- One 45° elbow may be used. It must be positioned horizontally (connecting one horizontal section or starter section to a horizontal section).
- If using a Snorkel Termination (14" or 36") add the snorkel height to the vertical height (snorkel terminations are used primarily for basement installations).



Approved Venting Configurations with a Vertical Termination

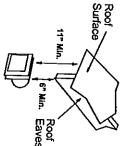
- Remove the diffuser plate (see "Diffuser Plate Removal" on page 12)
- Maximum 31' Rise
- Two 90° elbows or two 45° offsets may be used (after the initial 90° elbow)
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor position.



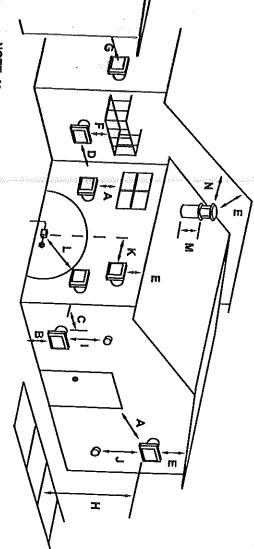
Vent Termination Requirements (see illustration below)

- Venting terminals shall not be recessed into a wall or siding.
- Minimum 9" clearance from any door or window
- w Minimum 12" above any grade, veranda, porch, deck or balcony
- O Minimum 12" from outside corner walls
- U Minimum 12" from inside comer walls
- Minimum 6" clearance from roof eaves Minimum 11" clearance below unventilated soffits or roof surfaces Minimum 18" clearance below ventilated soffits

NOTE: Vinyl surfaces require 24"



- Ø Minimum 18" clearance below a veranda, porch, deck or balcony (must have two open sides)
- I Minimum 48" dearance from any adjacent building
- Minimum 84" clearance above any grade when adjacent to public walkways or driveways NOTE: may not be used over a walkway or driveway shared by an adjacent building
- Minimum 48" clearance from any mechanical air supply inlet
- Minimum 36" clearance above and 48" below and to the sides of non-mechanical air supply inlet
- Minimum 36" from the area above the meter/regulator (vent outlet)
- Minimum 36" from the meter/regulator (vent outlet)
- Z Minimum 12" above the roof line (for vertical terminations)
- Minimum 24" horizontal clearance to any surface (such as an exterior wall) for vertical terminations



NOTE: Measure clearances to the nearest edge of the exhaust hood.

- Use the vinyl siding standoff (#1250) when installing on an exterior with vinyl siding.
- Vent termination must not be located where it will become plugged by snow or other material These clearances meet UMC-1994 and the CNA/CGA-B149 code standards.

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The safety (listing) label is on the back of the stove. A copy of the safety label is shown below.





Sturbridge Vented Gas Fimplace Heater



Tested to: ANSI 221.98b-2001 "Vented Gas Fireplace Heater" and UL 307b-1995 "Gas Burning Heating Appliances for Manufactured Homes".

VENTED GAS FIREPLACE HEATER - NOT FOR USE WITH SOLID FUEL

This appliance must be installed in accordance with local codes, if any; if none, follow the National Fuel Gas Code, ANSI 2223.1.

This vented gas fireplace heater is equipped at the factory for use with natural gas. If conversion to propane (LP) is desired, the optional factory conversion kit must be used.

This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an after-market, permanently located, manufactured (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.

This varied gas lineplace heater is not for use with air filters.

Keep turner and control compartment clear. See installation and operating instructions accompanying appliance.

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.

WARANING: Operation of this appliance when not connected to a properly installed and maintained venting system or tempering with the blocked vent shutoff system can result in carbon monoxide (CO) poisoning and possible death.

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

CAUTION: Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids hav-ing flammable vapors away.

This appliance must be properly connected to a venting system in accordance with the manufacturer's installa-tion instructions. Use only approved coaxial direct vent system to vent this appliance to the exterior 's manual for approved brands of venting.

2000	AND THE STATE OF T		
2003 2004	Input Rate on "Hi" (BTU/Hr)" 18,000 18,000 Minite Imput Rate on "LO" (BTU/Hr)" 14,500 14,100 Minite Imput Rate on "LO" (BTU/Hr)" 14,500 14,100 Manife Imput Rating: 1154 1.5 Amps, 60 Hz	Stove Top to Sidewall	
Feb.	only for al		
	14,500 11 14,500 11 14,500 12	n num	
	N.G. 18,000 14,100 -2000 ft (0-61	Clearand 3.5" 4.75" 1" 36"	
Dec.	Minimum Inlet P Manifold Pressu () m).	Minimum Clearances to Combustibles 3.5" Alcove Min. Height 4.75" Alcove Max. Depth 1" Alcove Min. Width 36"	
Travis Industries, Inc. 1949 1178 PLAC KIRGING WA NOOS 1GN	Minimum Inlet Pressure (Inches W.C.) Manifold Pressure on "H!" (Inches W.C.)	bustibles n. Height x. Depth n. Width	
IGN 0466	4 = ₽	36" 48" 27.75"	
0466	3.5° 3.5° 3.8°	*	