

# TASMAN 1000 OD

## Natural Gas & Propane Outdoor Gas Fireplace

### Installation and Operating Instructions

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

#### **For your safety**

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.

**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

**WARNING:** For Outdoor Use Only.  
**Retain this manual for future reference.**

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# 1.0 INTRODUCTION

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## 1.1 SPECIFICATIONS

TABLE 1

<b>ITEM</b>	<b>NATURAL GAS</b>	<b>PROPANE (LPG)</b>
INPUT: Hi	40,000 Btu/hr (11.72 kW)	40,000 Btu/hr (11.72 kW)
INPUT: Lo	28,000 Btu/hr (8.21 kW)	32,000 Btu/hr (9.38 kW)
GAS INLET SUPPLY PRESSURE:	Minimum: 5.0" w.c. (1.2 kPa)	Minimum: 12" w.c. (2.99 kPa)
	Maximum: 13.5" w.c. (3.4 kPa)	Maximum: 14" w.c. (3.49 kPa)
AIR SHUTTER SETTING	adjustable from 50% open to fully open	adjustable from 50% open to fully open
ORIFICE SIZE: @ 0-2000'	# 30 DMS	# 47 DMS

## **APPLIANCE DIMENSIONS**

**Figure 1**

### **TASMAN 1000 OD**

#### **INSTALLATION CODES**

Installation must conform to local codes or in the absence of local codes, installation must conform to the *National Fuel Gas Code, ANSI Z233.1*, or the current *CAN/CGA B149.1 Installation Codes*. In the state of Massachusetts, this product can only be installed by a licensed plumber or a licensed gas fitter. Failure to comply will void the warranty.

## GENERAL SAFETY

- Solid fuels shall not be burned in this fireplace.
- Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Inspect the burner prior to each use, if the burner is damaged it must be replaced prior to use.  
**NOTE:** Use only with burner part# IMC1128B.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- Do not locate the gas supply hose in a pathway where people may trip over it or in areas where the hose may be subjected to accidental damage.
- This fireplace is intended for installation on an outdoor patio or in your yard. It must never be installed inside the warm air envelope of your structure.
- The curtain mesh should be kept fully closed during operation to help prevent accidental burns from occurring.

Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

Young children should be carefully supervised when they are in the area of the appliance.

Clothing or other flammable material should not be hung from the appliance or placed near the appliance.

Any guard or other protective device removed for servicing the appliance must be replaced prior to operating the appliance.

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

- It is highly recommended that this fireplace be installed in a “sheltered” area. Direct wind will cause an erratic flame and possible pilot or main burner outage.
- An erratic flame could also lead to excessive carboning (black soot), this condition is not a safety issue but is visually undesirable.
- Typical installation may include covered patio, screened porch, gazebo or an outside wall of a house. (If installing a propane fireplace the propane cylinder must always be on the exterior of such a structure).

**NOTE: Ensure the area has adequate ventilation.**

## LIGHTING INSTRUCTIONS

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### FOR YOUR SAFETY, READ BEFORE LIGHTING

**WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

- A. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS**
- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- B. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

### LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above on this label.
2. Controls are found at the front of the appliance.
3. Push in gas control knob slightly and turn clockwise to ☺ "OFF".
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "A" in the safety information above on this label. If you don't smell gas, go to the next step.
5. Turn gas supply to unit on.
6. Push in the sparker button.
7. Depress and turn control knob counterclockwise ☹ to the "ON" position.

### TO TURN GAS OFF TO APPLIANCE

1. Push in gas control knob slightly and turn clockwise ☺ to "OFF", do not force.

## **FLAME ADJUSTMENT**

The valve supplied with the appliance has a HI/LO knob to control the flame height. To adjust the flame height, turn the adjustment knob. Turning the knob in a clockwise direction sets the valve to the maximum setting, turning the knob in the counterclockwise direction sets the valve to the minimum setting.

## **LP GAS CYLINDER SAFETY INFORMATION**

- The gas appliance is for use with a gas cylinder that does not exceed 20 lbs. (9 kg) capacity.
- The gas cylinder to be used must be constructed and marked in accordance with the *Specifications for LP-Gas Cylinders* of the U.S Department of Transportation (D.O.T.) or the National Standard of Canada *CAN/CSA-B339, Cylinders, Spheres and Tubes for Transportation of Dangerous Goods; and Commission*.
- This appliance shall be used only outdoors in a well ventilated space and shall not be used in a building, garage or any other enclosed area.
- The gas must be turned off at the supply cylinder when the appliance is not in use.
- This appliance can be stored indoors only if the cylinder is disconnected and removed from the appliance.
- Cylinders must be stored outdoors in a well ventilated area out of the reach of children. Disconnected cylinders must have threaded plugs tightly installed and must not be stored in a building, garage or any other enclosed area.
- Inspect the hose assembly for damage prior to each use. If the hose is damaged or there are signs of excessive abrasion or wear replace the hose.
- Use only the pressure regulator and hose assembly supplied with the appliance. Replace the regulator/hose assembly only with part 150#20855, these are available from your local dealer.
- The LP cylinder must include a collar to protect the cylinder valve.
- The cylinder supply system must be arranged for vapor withdrawal.

This appliance uses a "Type 1" cylinder connection device see below for proper connection instructions.

## **WARNING**

When disconnecting and removing the gas cylinder, from the appliance, always be sure to adhere to the following items:

- Check that the gas control valve on the appliance as well as on the cylinder are turned off before disconnecting the gas line from the cylinder.
- Never smoke or have an open flame in the vicinity of the gas appliance or gas cylinder.
- Upon replacing the gas supply cylinder be sure to tighten all connections and leak test the connections (with a soapy water solution) prior to placing the tank back in the enclosure.

## **LP GAS CYLINDER CONNECTION**

The Tasman 1000 OD is made for connection to a remote LP gas Cylinder. All that is needed is to connect the regulator /hose assembly from your LP gas cylinder to the fitting which extends through the side of the appliance.

The remote cylinder is to be placed in the tank stabilizer (part# OD5024) shown below.

## **GAS SAFETY INFORMATION**

### **How to Leak Test Your Appliance**

- Mix a solution of liquid soap and water in a small container.
- Make sure that the gas supply is turned on. For LP gas appliances make sure that the valve on the gas cylinder is turned on.
- Ensure that the gas control valve on the appliance is in the “OFF” position.
- Use a spray bottle or a small brush and liberally apply the solution to the gas line and to each connection.
- If there are bubbles forming this means that a leak is present.
- Tighten any connections that may be loose and leak test again.
- If no more leaks are found use the appliance, if leaks persist and cannot be stopped turn off the gas supply and contact your distributor or local gas service technician for assistance.
- **WARNING: Do not use an open flame to test for gas leaks.**

## **INSTALLATION & SAFETY NOTES**

Read all instructions before starting installation and follow them carefully during installation to ensure maximum benefit and safety. Failure to follow these instructions will void your warranty and may present a fire hazard. See the warranty at the back of this manual for disclaimers regarding improper installation. This outdoor fireplace and its components are tested and safe when installed in accordance with this installation manual.

### **UNPACKING**

Please check the appliance carefully for any damaged or missing components. Report any problems to your dealer within 30 days of purchase.

### **MINIMUM CLEARANCES**

The minimum clearance to combustibles are as follows:

## MINIMUM CLEARANCES - continued

A – Top	0"
B – Unit Trim to sidewall	6" (152 mm)
C - Mantle	(see chart)
D - Floor	0"
E - Back & Sides	0"

**Note:** Check local codes for floor requirements. This fireplace is suitable for installation on a combustible surface.

**When using paint or lacquer to finish the mantel, such paint or lacquer must be heat resistant (up to 250° F) to prevent discolorations.**

“Clearances are in accordance with local installation codes and the requirements of the gas supplier.”

- For ease of accessibility, an optional remote wall switch may be installed in a convenient location.

## MINIMUM CLEARANCES - continued

\*\*The mantel placement chart on this page illustrates the allowable mantel sizes and placements. The 1" incremental grid can be used to determine the allowable mantel size based on the elevation above the units upper trim.

Mantle Height from Floor (Y)	Mantle Depth (X)
44"	10"
43"	9-1/4"
42"	8-9/16"
41"	7-3/16"
40"	7-1/8"
39"	6-3/8"
38"	5-5/8"
37"	4-15/16"
36"	4-3/16"
35"	3-1/2"
34"	2-3/4"
33"	2"

## **INITIAL FIRING**

When lit for the first time, the appliance may emit an odor resulting from evaporation of paint and lubricants used in the manufacturing process. This is normal and will subside after the unit has run for an hour or so.

## **MANIFOLD PRESSURE REGULATOR ADJUSTMENT**

The manifold pressure regulator controls gas input and flame height, and is pre-adjusted at the factory. No further adjustment is required.

## **PRIMARY AIR ADJUSTMENT**

Aeration is factory set but may need adjustment for altitude or movement during shipping. To adjust the air shutter loosen the screw on the bottom of the valve tray and slide the shutter bolt right or left to suit. Sliding the lever to the right closes the air shutter making the flame taller and more colorful, sliding the lever to the left opens the air shutter this brings down the flame height and reduces flame color.

**Caution: Parts requiring adjustment during operation may be hot.**

**Note:** Burner and bottom of firebox **only** shown for illustration purposes.

## **ALTITUDE ADJUSTMENT**

All valves have been pre-set and certified for installation at elevations from 0 – 2000 feet (1 – 610 m) above sea level.

When installing this unit at higher elevations, it is necessary to decrease the input rating by replacing the existing burner orifice with a smaller size for installations over 2000 feet (610 m). The appliances input should be reduced 4% for each additional 1000 feet (305m) above sea level. For the USA, derate the unit from sea level according to the gas installation code.

## **FIELD ASSEMBLED PARTS**

Your outdoor fireplace comes fully assembled, to finish assembling the unit you must do the following:

1. Install the logs.
2. Install the lava rock on the burner.
3. Connect the gas supply.

## **CERAMIC LOG INSTALLATION**

Step 1:

Place the rear log on the log pins as shown in Figure 9.

## **CERAMIC LOG INSTALLATION (continued)**

Step 2:

Place the twig, which has 2 pins, onto the log pins on the burner as shown in Figure 10.

Step 3:

Place the large wye shaped log on the log pins as shown in Figure 11.

## **CERAMIC LOG INSTALLATION (continued)**

Step 4:

Place the other small twig onto the first small twig as shown in Figure 12.

Step 5:

Place 1 of the remaining 3 identical wye shaped logs on the pin on the rear log and in the notch on the front left log as shown in Figure 13.

## **CERAMIC LOG INSTALLATION (continued)**

Step 6:

Place the 2<sup>nd</sup> identical wye shaped log on the pin on the rear log and in the notch on the front right twig as shown in Figure 14.

Step 7:

Place the remaining wye shaped twig on the log pin on the small twig and in the notch on the large wye shaped log as shown in Figure 15.

## LAVA ROCK INSTALLATION

Install the lava rock in the area shown in Figure 16, be sure not to cover any burner ports with the lava rock.

**Note:** For illustration purposes this unit is shown with ceramic brick panels, the actual unit does not use brick panels.

**MAIN FLAME PICTURE**

**Figure 17**

# **MAINTENANCE**

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## **MAINTENANCE SAFETY**

**Turn off the gas to the main burner and allow the fireplace to cool for 30 minutes before servicing.**

Service and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service technician. It is important that the access door compartment and burner be kept clean to provide for adequate combustion and ventilation airflow. Do not substitute materials or use components other than factory supplied.

## **RECOMMENDED SERVICE**

Visually check the burner flame occasionally.

Have the appliance inspected annually by a professional service technician.

Clean the appliance regularly.

## **BURNER CLEANING**

Periodic cleaning is necessary for proper operation.

Remove the burner, and check that the burner orifice is clean.

Visually inspect the burner. Brush or blow away any dust, lint, or foreign debris. If the orifice is plugged, disassembly may be required to remove any foreign material from the orifice or tubing. For re-lighting, refer to the lighting instructions on page 6.

# TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
I. Pilot will not light after repeated triggering of the piezo ignition button	<b>A. No spark at electrode (weak or not heat source for pilot ignition)</b>	
	1. Improper ignition	1. Align the electrode with 1/8" (3mm) gap to pilot hood
	2. Poor connections at starter and ignition electrode	2. Reconnect if loose
	3. Broken ceramic cover on ignition electrode	3. Replace pilot assembly
	4. Defective piezo igniter	4. Replace piezo igniter
	5. Poor grounding of piezo igniter	5. Tighten mounting nut and/or igniter screws
	<b>B. No gas or low gas pressure</b>	
	1. Gas line shut off(s) may not be turned on	1. Turn on shut-off valves
	2. Air in gas lines	2. Purge gas lines
	3. Gas lines may not be connected	3. Connect all gas lines
4. Low pressure may be caused by bent line	4. Check for a kinked line	
5. Valve control knob not fully depressed in "PILOT" position	5. Fully depress control knob	
II. Pilot will not stay lit after following the lighting instructions	<b>A. Thermocouple / Valve</b>	
	1. Weak or improperly located pilot flame	1. Adjust and clean pilot. The flame must impinge on or engulf the thermocouple.
	2. Defective thermocouple	2. Replace thermocouple
	3. Thermocouple not installed properly	3. Make sure all wire connections at the gas valve terminals are tight and the thermocouple is fully inserted into the mounting bracket
	4. Open wire connection in pilot circuit	4. Check wire continuity and connections in the pilot circuit
	5. Defective Valve	5. Connect the millivolt meter probes to the thermopile terminals on the gas valve. Turn the valve to the "PILOT" position, depress, and light. If the meter reading is greater than 540 millivolts after 30 seconds, the thermopile is good. If the pilot does not stay lit, the valve is defective. Check section "B" below, before replacing valve
	6. High wind	1. Unit has been exposed to a high wind condition. A "sheltered" area is recommended for the installation location. Close mesh screens

<b>Pilot will not stay lit after following the lighting instructions continued ...</b>	<b>B. Defective safety circuit</b>	
<b>III. Main burner will not light</b>	<b>A. Valve / Switches</b>	
	<ol style="list-style-type: none"> <li>1. Loose or defective connections</li> <li>2. Blockage at the burner (line, orifice, or ports)</li> <li>3. Defective on/off switch.</li> <li>4. Defective wiring or connections</li> <li>5. Defective Valve</li> <li>6. Thermopile may not be generating sufficient voltage (750 mV)</li> </ol>	<ol style="list-style-type: none"> <li>1. Check continuity, tighten wiring or connections, and repair</li> <li>1. Turn to "ON" position</li> <li>2. Check and clean</li> <li>3. Conduct a continuity test or jumper wire test and replace if defective</li> <li>4. Conduct a test with a jumper wire and repair as required</li> <li>5. Turn valve and "ON/OFF" switch to the "ON" position. Check with millivolt meter at terminals TP-TH. Millivolt meter should read greater than 540 millivolts. If the reading is OK and the burner does not come on, replace the gas valve</li> <li>6. Recheck using the millivolt meter. The pilot flame may not be high enough for the flame to properly engulf the thermopile. If so, adjust and reset. If voltage is still insufficient, replace thermopile</li> </ol>

# **REPLACEMENT PARTS**

When requesting service or replacement parts for your unit, please provide model name and serial number. All parts listed below may be ordered from an authorized dealer.

<b><u>Description</u></b>	<b><u>Part#</u></b>
Upper Louvers	IMC1012AU
Lower Louvers	IMC1012AL
Burner	IMC1128B
Valve Bracket	IMC1048
Lava Rock	IMC1200
Pilot Assembly	PSE-C4-519
Orifice - NG	MP0505-30
Orifice - LPG	MP0505-47
Gas Valve (Honeywell)	VS8420-E
Gas Valve (SIT)	0.820.634
Gas Valve (Robertshaw)	7000MVRB-5-LC
Gas Valve (Robertshaw)	7500 MVRBC -5
Piezo Igniter (R/S only)	1244-US
Rear Log (1)	IMC1095
Left Large Twig (1)	IMC1096
Front Small Twig (2)	IMC1098
Wye Twig (3)	IMC1099
Curtain Mesh	39-0087-01-1616-27
Curtain Rod	"S" slide rod
Curtain Rod Bracket	Bkt CR

# **INCA'S WARRANTY PROTECTION FOR ALL INCA GAS FIREPLACE PRODUCTS**

Inca's products are designed with superior components and materials, assembled by trained craftsmen who take great pride in their work. The burner and valve assembly are leak tested and test fired at a quality control test station. Once assembled the complete fireplace is thoroughly inspected by a qualified technician, before packaging, to ensure that you, the customer, receives the quality product that you expect from Inca's.

## **INCA'S GAS FIREPLACE'S WARRANTY**

Your Inca gas fireplace is guaranteed to be free of defects in materials and workmanship for a period of 5 years from the date of purchase. This covers: combustion chambers and wearable parts such as gas valves, wiring, igniter and gaskets are covered and Inca will provide replacement parts free of charge during the first year of the limited warranty

## **CONDITIONS AND LIMITATIONS**

Inca warrants its products against manufacturing defects to the original purchaser only – i.e. the individual or legal entity (registered customer) whose name appears on the original invoice – provided that the purchase was made through an authorized Inca dealer and is subject to the following conditions and limitations:

This factory warranty is nontransferable and may not be extended whatsoever by any of our representatives.

A licensed, authorized service technician or contractor must have installed the gas fireplace. Installation must be done in accordance with the installation instructions included with the product and all local and national building and fire codes.

This limited warranty does not cover damages caused by misuse, lack of maintenance, accident, alterations, abuse or neglect. Parts installed from other manufacturers will nullify this warranty.

This limited warranty further does not cover any scratches, dents, corrosion or discoloring caused by excessive heat, abrasives, chemical cleaners nor any venting components used in the installation of the fireplace.

Any installation, labor, construction, transportation or other related costs or expenses arising from defective part(s), repair or replacement or otherwise of same, will not be covered by this warranty nor shall Inca assume responsibility for same. Further, Inca will not be responsible for any incidental, indirect or consequent damages, except as provided by law, and in no event shall they exceed the original purchase price.

## **CONDITIONS AND LIMITATIONS (continued)**

In the first year only, this warranty extends to the repair or replacement of warranted parts, which are defective in material or workmanship provided that the product has been operated in accordance with the operation instructions and under normal conditions.

After the first year, Inca may, at its discretion, fully discharge all obligations with respect to this warranty by refunding to the original warranted purchaser the wholesale price of any warranted but defective part(s).

Notwithstanding any provisions contained in this warranty, Inca's responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages.

This warranty defines the obligations and liability of Inca with respect to the Inca gas fireplace and any other warranties expressed or implied with respect to this product, its components or accessories are excluded.

Inca neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this product.

Any damages to fireplace, combustion chamber, or other component due to water, weather damage, long periods of dampness, condensation, damaging chemicals or cleaners will not be the responsibility of Inca.

The bill of sale or copy will be required together with a serial number and a model number when making any warranty claims from your authorized dealer.

Inca reserves the right to have its representative inspect any product or part thereof prior to honoring any warranty claim.