

# Installation Manual

## Installation and appliance setup

**INSTALLER:** Leave this manual with the appliance.

**CONSUMER:** Retain this manual for future reference.

**NOTICE:** DO NOT discard this manual!

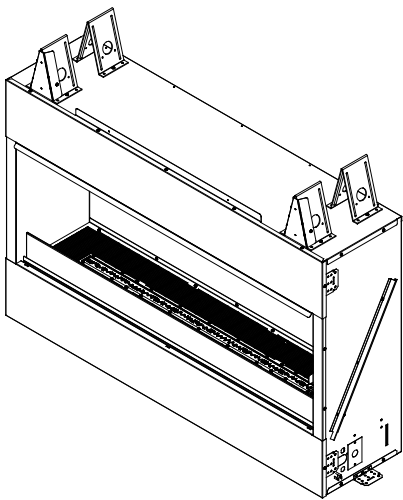


### Model:

**ODLANAIG-48**

**ODLANAIG-60**

**ODLANAIG-72**



### **WARNING! Risk Of Fire!**

**Do not install glass doors on this appliance.**

**Glass doors could cause overheating of adjacent structures.**

### **DANGER**

#### **FIRE OR EXPLOSION HAZARD**

If you smell gas:

- Shut off gas to the appliance.
- Extinguish any open flame.
- If odor continues, leave the area immediately.
- After leaving the area, call your gas supplier or fire department.
- Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.

### **WARNING**

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

An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

### **WARNING:** For outdoor use only.

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:** 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.

### **DANGER**



#### **CARBON MONOXIDE HAZARD**

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.

Never use this appliance in an enclosed space such as a camper, tent, car or home.

## ▲ Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Used to address practices not related to personal injury.

## Table of Contents

|                                                 |    |                                                   |    |
|-------------------------------------------------|----|---------------------------------------------------|----|
| Standard Work Checklist .....                   | 3  | <b>5 Electrical Information</b>                   |    |
| <b>1 Product Specific Information</b>           |    | A. Wiring Requirements .....                      | 17 |
| A. Appliance Certification .....                | 4  | B. IntelliFire Pilot Ignition System Wiring ..... | 17 |
| B. BTU Specifications .....                     | 4  | C. Installing the Electrical .....                | 17 |
| C. High Altitude Installations .....            | 4  | D. Wall Switch Control Assembly .....             | 20 |
| D. Non-combustible Materials Specification ...  | 4  | <b>6 Gas Information</b>                          |    |
| E. Combustible Materials Specification .....    | 4  | A. Valve Access .....                             | 21 |
| F. Electrical Codes .....                       | 4  | B. Gas Pressure .....                             | 21 |
| G. Fuel .....                                   | 4  | C. Gas Connection and Gas Line Purging .....      | 22 |
| <b>2 Getting Started</b>                        |    | D. Fuel Conversion .....                          | 22 |
| A. Design and Installation Considerations ..... | 5  | E. High Altitude Installations .....              | 22 |
| B. Tools and Supplies Needed .....              | 5  | <b>7 Finishing</b>                                |    |
| C. Inspect Appliance and Components .....       | 6  | A. Facing Material .....                          | 23 |
| <b>3 Framing and Clearances</b>                 |    | <b>8 Appliance setup</b>                          |    |
| A. Appliance Dimension/Weights Diagrams ...     | 7  | A. Remove the Shipping Materials .....            | 25 |
| B. Clearances to Combustibles .....             | 9  | B. Clean the Appliance .....                      | 25 |
| C. Vent Minimum Clearances .....                | 13 | C. Optional Accessories .....                     | 25 |
| D. Hearth Extension/Floor Protection .....      | 14 | D. Verify Pilot Shield .....                      | 25 |
| E. Stand-Alone Installation .....               | 14 | E. Install Deflection Glass .....                 | 25 |
| F. Moisture Resistance .....                    | 15 | F. Install Clear Crystal Media .....              | 25 |
| <b>4 Appliance Preparation</b>                  |    | G. Remove Media Placement Template .....          | 25 |
| A. Securing and Leveling Appliance .....        | 16 | <b>9 Reference Materials</b>                      |    |
| B. Flashing .....                               | 16 | A. Accessories .....                              | 26 |
|                                                 |    | B. Addendum .....                                 | 27 |

## Standard Work Checklist

### Attention Installer: **Follow this Standard Work Checklist**

This standard work checklist is to be used by the installer in conjunction with, not instead of, the instructions contained in this installation manual

Customer: \_\_\_\_\_  
Lot/Address \_\_\_\_\_  
\_\_\_\_\_  
Model ODLANAIG-48, ODLANAIG-60,  
ODLANAIG-72

Date Installed: \_\_\_\_\_  
Location of fireplace \_\_\_\_\_  
Installer \_\_\_\_\_  
Dealer/Distributor Phone # \_\_\_\_\_  
Serial # \_\_\_\_\_



**WARNING! Risk of Fire or Explosion! Failure to install appliance according to these instructions could lead to a fire or explosion.**

#### **Appliance Install Section 3 & 4**

Required non-combustible board is installed.  
Verified clearances to combustibles.  
Fireplace is leveled and secured.

YES

IF NO, WHY?

☐ \_\_\_\_\_  
☐ \_\_\_\_\_  
☐ \_\_\_\_\_

#### **Electrical Section 5**

Unswitched power (110-120Vac.) provided to the appliance.  
Switch wires properly installed.

☐ \_\_\_\_\_  
☐ \_\_\_\_\_

#### **Gas Section 6**

Proper appliance for fuel type.  
Was a conversion performed?  
Leak check performed and inlet pressure verified.

☐ \_\_\_\_\_  
☐ \_\_\_\_\_  
☐ \_\_\_\_\_

#### **Finishing Section 7**

Combustible materials not installed in non-combustible areas.  
Verified all clearances meet installation manual requirements.  
Mantels and wall projections comply with installation manual requirements.

☐ \_\_\_\_\_  
☐ \_\_\_\_\_  
☐ \_\_\_\_\_

#### **Appliance Setup Section 8**

All packaging and protective materials removed (inside and outside of appliance)  
Media installed correctly.  
Optional screen or trim kit properly installed.  
Manual bag and all of its contents are removed from inside/under the appliance and given to party responsible for use and operation.  
Started appliance and verified no gas leak exists.

☐ \_\_\_\_\_  
☐ \_\_\_\_\_  
☐ \_\_\_\_\_  
☐ \_\_\_\_\_  
☐ \_\_\_\_\_

#### **Hearth & Home Technologies recommends the following:**

- Photographing the installation and copying this checklist for your file.
- That this checklist remain visible at all times on the appliance until the installation is complete.

Comments: Further description of the issues, who is responsible (Installer/Builder/Other trades, etc.) and corrective action needed \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments Communicated to party responsible \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_  
(Builder/Gen. Contractor) (Installer) (Date)

# 1 Product Specific Information

## A. Appliance Certification

**Model:** ODLANAIG-48, ODLANAIG-60, ODLANAIG-72  
**Laboratory:** Underwriters Laboratories (UL)  
**Type:** Outdoor Decorative Gas Appliances  
**Standard:** ANSI Z21.97-2017, CSA 2.41-2017

This product is listed to ANSI standards for “Outdoor Decorative Gas Appliances” and “Gas Fired Appliances for Use at High Altitudes”.

**Notice:** *This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1- latest edition in the U.S.A. and the CAN/CGA B149 Installation codes in Canada.*

*When an appliance is connected to a fixed piping system, the installation must conform with local codes, or in the absence of local codes with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or International Fuel Gas Code.*

## B. BTU Specifications

| Model       | Gas Type | Max Input BTU | Orifice Size           |
|-------------|----------|---------------|------------------------|
| ODLANAIG-48 | Natural  | 55,000        | #26 (.147)<br>3.73 mm  |
|             | Propane  | 55,000        | # 42 (.093)<br>2.36 mm |
| ODLANAIG-60 | Natural  | 65,000        | #23 (.154)<br>3.91 mm  |
|             | Propane  | 65,000        | #39 (.099)<br>2.51 mm  |
| ODLANAIG-72 | Natural  | 65,000        | #23 (.154)<br>3.91 mm  |
|             | Propane  | 65,000        | #39 (.099)<br>2.51 mm  |

## C. High Altitude Installations

Notice: If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1350m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370m.)

Check with your local gas utility to determine proper orifice size.

## D. Non-combustible Materials Specification

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass, plasters or any combination thereof.

Materials that are reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C** shall be considered non-combustible materials.

## E. Combustible Materials Specification

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered shall be considered combustible materials.

## F. Electrical Codes

Notice: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electrical Code CSA C22.1.**

- A 110-120Vac. circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes.

## G. Fuel

This appliance must not be used to burn solid fuel. When an appliance is connected to a fixed piping system, the installation must conform with local codes, or in the absence of local codes with the **National Fuel Gas Code, ANSI Z223.1/NFPA 54, or International Fuel Gas Code.**

 **WARNING:** 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](http://www.P65Warnings.ca.gov).

## 2 Getting Started

### A. Design and Installation Considerations

The Lanai series gas appliance is designed for outdoor use and may be installed as a stand alone appliance or built into a wall.

Outdoor spaces - For the purpose of these instructions, an appliance is considered to be outdoors if installed with shelter no more inclusive than:

1. With walls on all sides, but no overhead cover
2. Within a partial enclosure which includes an overhead cover and no more than two side walls. These side walls may be parallel, as in a breezeway, or at right angles to each other; or
3. Within a partial enclosure which includes an overhead cover and three sidewalls, as long as 30 % or more of the horizontal periphery of the enclosure is permanently open. See Addendum on page 27.

NOTE: Screen may be used on the open sides of the shelter. 14x18 and 16x18 screen mesh is approved for use. DO NOT use solar screen or no-see-um screen.

Install on wood, composite or non-combustible continuous flat surface, extending full width and depth of the appliance to prevent damage.

Refer to section three for clearances.

Installation MUST comply with local, regional, state and national codes and regulations. Consult the authorities having jurisdiction over restrictions, installation inspection and permits.

Before installing, determine the following:

- Where the appliance is to be installed.
  - Clearances to side walls.
  - Location of indoor appliance terminations, air inlets, gas meters, etc.
  - Location of the appliance to a door that swings open to ensure it doesn't interfere with the appliance when opened
  - Location of Windows.
  - Location of Walkways.
  - Possibility of flooding or running water.
- Gas supply piping requirements.
- Electrical wiring requirements.
- Framing and finishing details.

### B. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Tape Measure                                                  | Framing material                |
| Pliers                                                        | Hammer                          |
| Phillips screwdriver                                          | Manometer                       |
| Gloves                                                        | Framing square                  |
| Voltmeter                                                     | Electric drill and bits (1/4in) |
| Plumb line                                                    | Safety glasses                  |
| Level                                                         | Reciprocating saw               |
| 3/4 inch wrench                                               | Crescent wrench                 |
| 7/8 inch wrench                                               | 1/4 inch nut driver             |
| 7/16 inch wrench                                              | pipe sealant                    |
| Flat head screwdriver                                         |                                 |
| Non-corrosive leak check solution                             |                                 |
| 1/2 - 3/4 inch length, #6 or #8 Self-drilling screws          |                                 |
| Caulking material (300°F Minimum continuous exposure rating.) |                                 |



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals



Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified service technician, service agency or your dealer.

NOTE: 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 the control compartment, burners, and circulating air passageways of the appliance are kept clean.

## C. Inspect Appliance and Components

- Carefully remove the appliance and components from the packaging.
- Remove deflection glass and packaging from inside of appliance.
- Remove crystal media which is packaged separately and located inside of the appliance.
- Remove wall control which is packaged separately and located inside of the appliance.
- Remove protective coating.
- Report any components damaged in shipping to your dealer.
- Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.

***WARNING! Risk of Fire or Explosion! Damaged parts could impair safe operation. DO NOT install damaged, incomplete or substitute components.***

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the media.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

**Any such action may cause a fire hazard.**

### ***WARNING! Risk of Fire, Explosion or Electric Shock!***

***DO NOT use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water. DO NOT use this appliance if any of the media area is contaminated with snow or debris.***

### 3 Framing and Clearances

#### A. Appliance Dimension/Weights Diagrams

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Figures 3.3, 3.4 and 3.5.

Appliance Weight

| Model       | Pounds |
|-------------|--------|
| ODLANAIG-48 | 215    |
| ODLANAIG-60 | 245    |

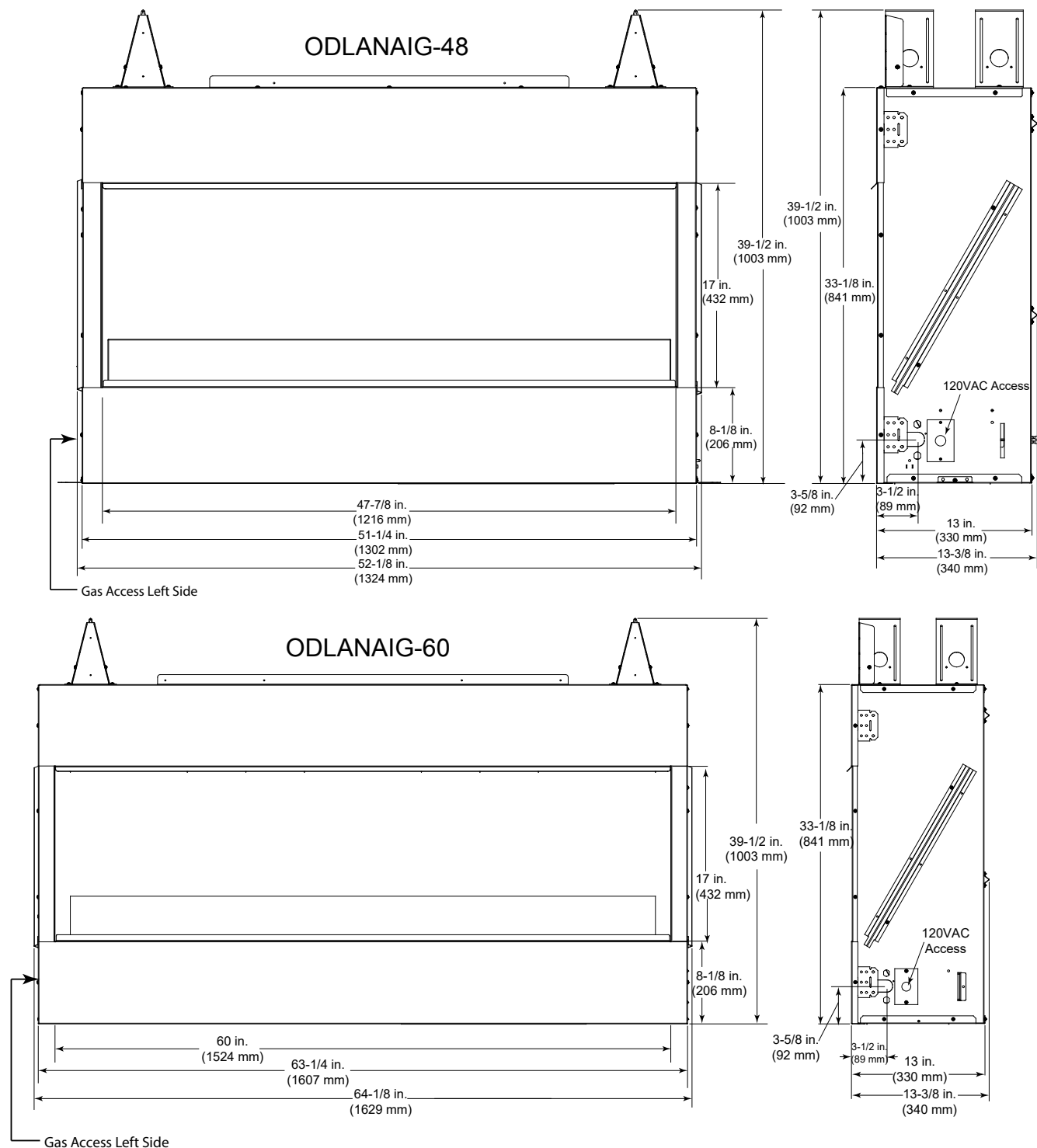
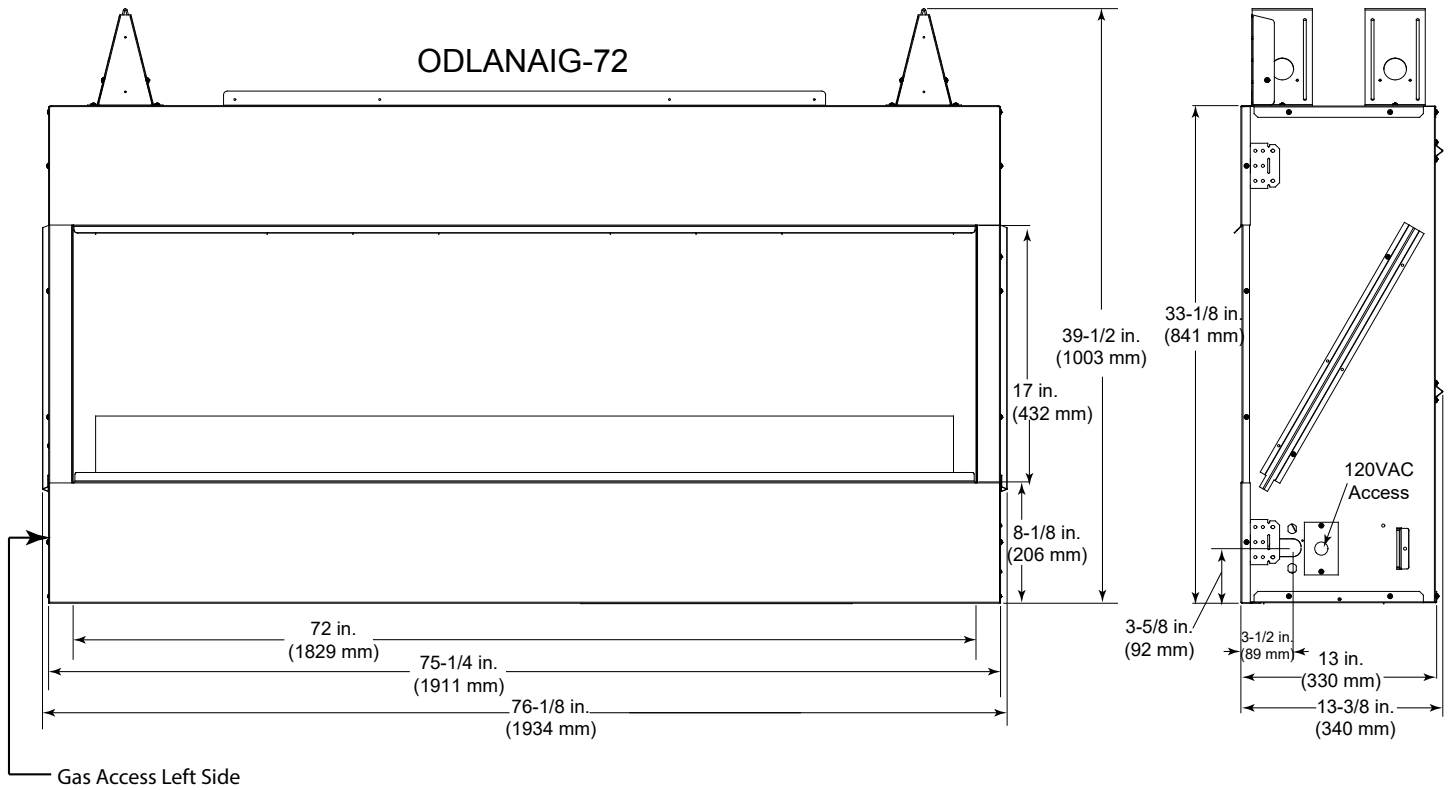


Figure 3.1. Appliance Dimensions – ODLANAIG-48/60

### Appliance Weight

| Model       | Pounds |
|-------------|--------|
| ODLANAIG-72 | 275    |



**Figure 3.2.** Appliance Dimensions – ODLANAIG-72



## B. Clearances to Combustibles

When selecting a location for the appliance, it is important to consider the required clearances to walls (see Figures 3.3, 3.4, 3.5 and 3.6.)

***WARNING! Risk of Fire or Burns! Provide adequate clearance around air openings and for service access. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.***

***WARNING! Risk of Fire or Burns! The appliance is hot and wind may cause flames to reach out in front.***

- Be sure to install eyebrow in the top of the opening before using appliance.
- Keep furniture, draperies and other combustibles away.
- Locate the appliance away from traffic areas.
- Clean up fallen leaves, branches and other combustible materials before using the appliance.
- See Figure 3.3, 3.4, 3.5 and 3.6 for required clearances.
- Install on wood, composite or non-combustible continuous flat surface, extending full width and depth of the appliance to prevent damage.

***WARNING! Risk of Fire! Maintain specified air space clearances to appliance:***

- *Insulation and other materials must be secured to prevent accidental contact.*
- The chase/enclosure must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with the appliance.
- Failure to maintain air space may cause overheating and a fire.

ODLANAIG-48

NOTICE: Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/ diagrams are not drawn to scale. Actual installation may vary due to individual design preference.

Note: For actual appliance dimensions refer to Section 3.A.

| MODEL       | FRONT WIDTH       |                   | BACK WIDTH        |                   | HEIGHT            |                   | DEPTH            |                  | VIEWING AREA                  |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------------------|
|             | Actual            | Framing           | Actual            | Framing           | Actual            | Framing           | Actual           | Framing          |                               |
| ODLANAIG-48 | 52-1/8"<br>[1324] | 52-3/4"<br>[1340] | 52-1/8"<br>[1324] | 52-3/4"<br>[1340] | 39-1/2"<br>[1003] | 39-3/4"<br>[1009] | 13-3/8"<br>[340] | 13-3/8"<br>[340] | 47-7/8" x 17"<br>[1216 x 432] |

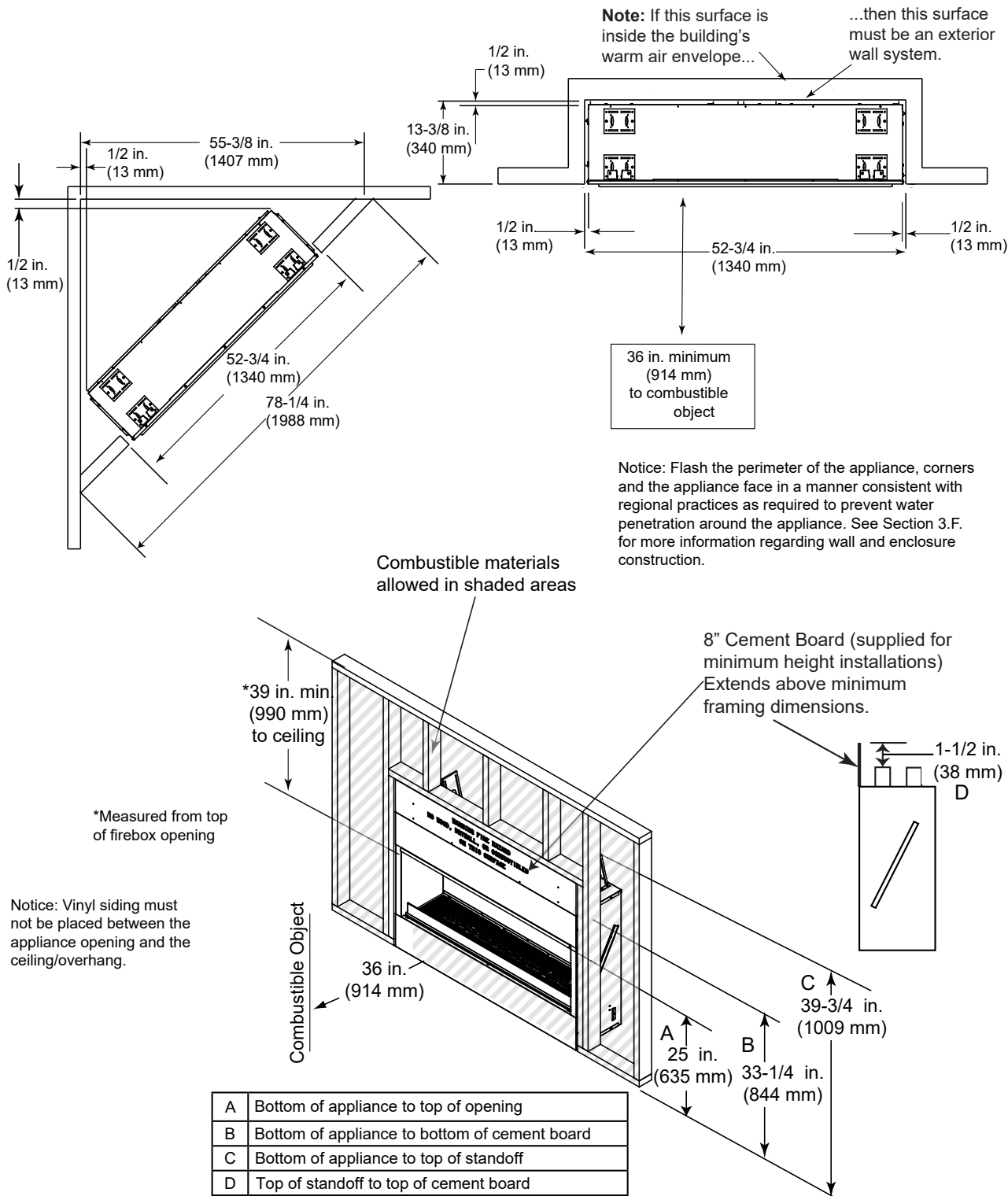


Figure 3.3. Appliance Locations and Framing Dimensions - ODLANAIG-48

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## ODLANAIG-60

NOTICE: Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/diagrams are not drawn to scale. Actual installation may vary due to individual design preference.

Note: For actual appliance dimensions refer to Section 3.A.

| MODEL       | FRONT WIDTH       |                   | BACK WIDTH        |                   | HEIGHT            |                   | DEPTH            |                  | VIEWING AREA              |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|---------------------------|
|             | Actual            | Framing           | Actual            | Framing           | Actual            | Framing           | Actual           | Framing          |                           |
| ODLANAIG-60 | 64-1/8"<br>[1629] | 64-3/4"<br>[1645] | 64-1/8"<br>[1629] | 64-3/4"<br>[1645] | 39-1/2"<br>[1003] | 39-3/4"<br>[1009] | 13-3/8"<br>[340] | 13-3/8"<br>[340] | 60" x 17"<br>[1524 x 432] |

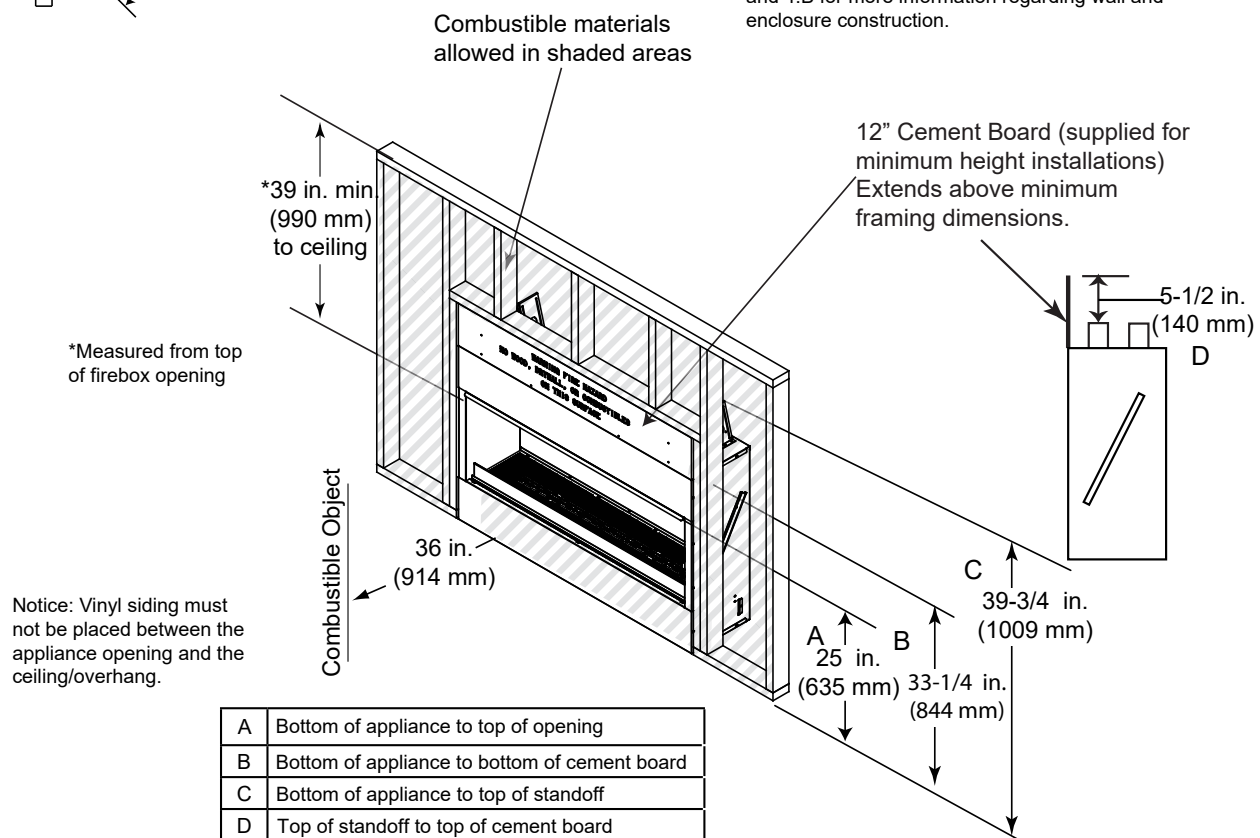
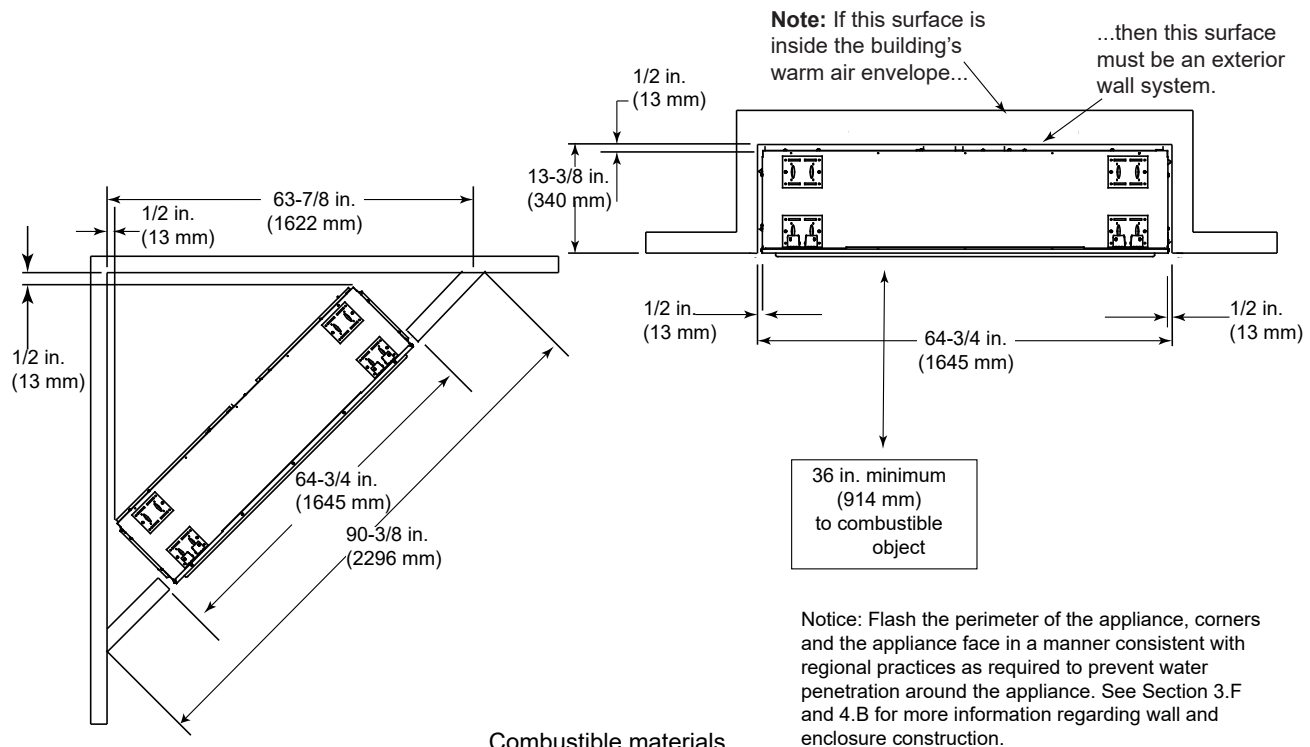


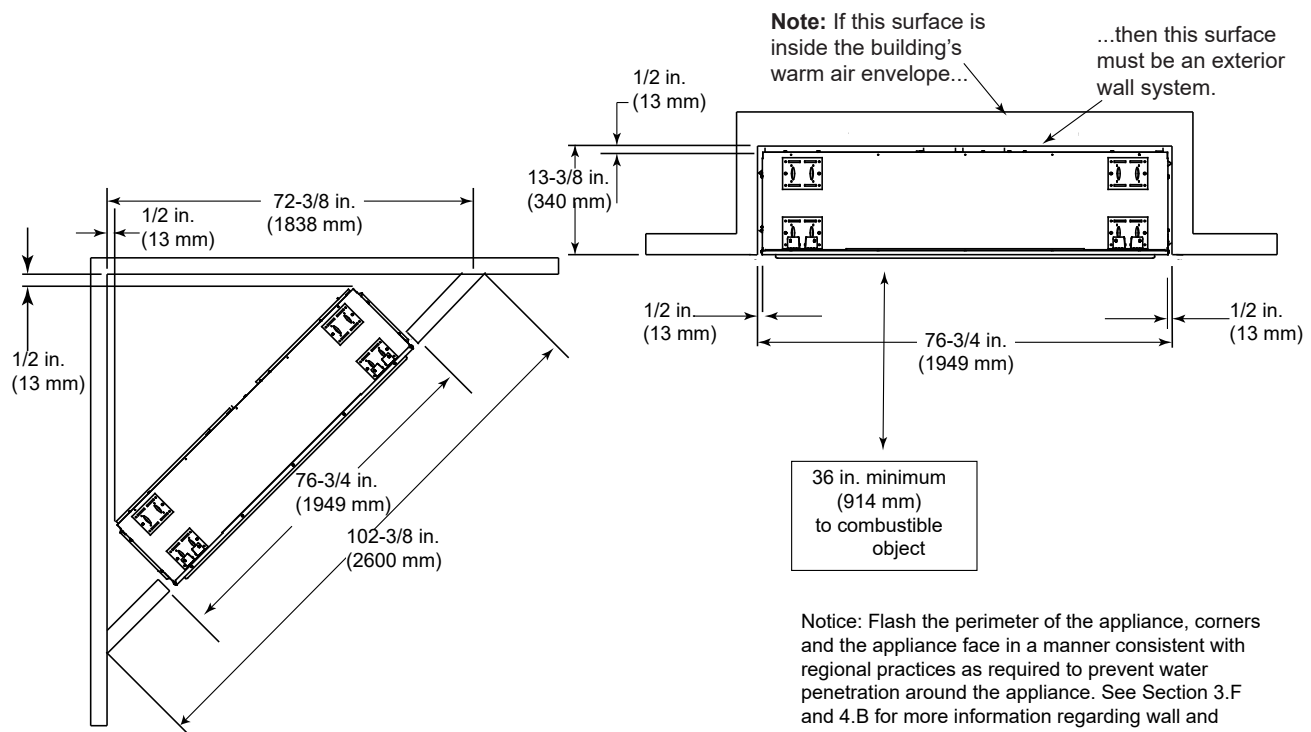
Figure 3.4. Appliance Locations and Framing Dimensions - ODLANAIG-60

## ODLANAIG-72

NOTICE: Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/ diagrams are not drawn to scale. Actual installation may vary due to individual design preference.

Note: For actual appliance dimensions refer to Section 3.A.

| MODEL       | FRONT WIDTH       |                   | BACK WIDTH        |                   | HEIGHT            |                   | DEPTH            |                  | VIEWING AREA              |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|---------------------------|
| ODLANAIG-72 | Actual            | Framing           | Actual            | Framing           | Actual            | Framing           | Actual           | Framing          | 72" x 17"<br>[1829 x 432] |
|             | 76-1/8"<br>[1934] | 76-3/4"<br>[1949] | 76-1/8"<br>[1934] | 76-3/4"<br>[1949] | 39-1/2"<br>[1003] | 39-3/4"<br>[1009] | 13-3/8"<br>[340] | 13-3/8"<br>[340] |                           |



Notice: Flash the perimeter of the appliance, corners and the appliance face in a manner consistent with regional practices as required to prevent water penetration around the appliance. See Section 3.F and 4.B for more information regarding wall and enclosure construction.

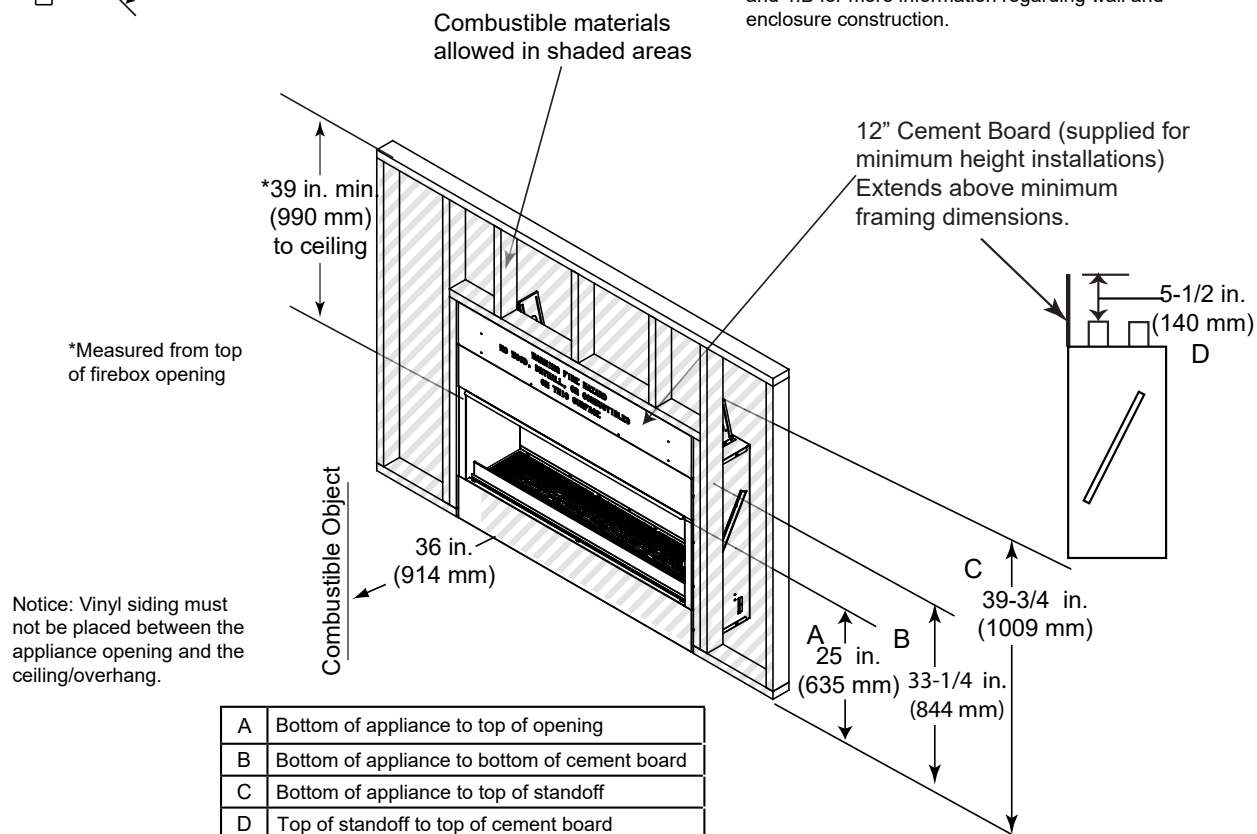
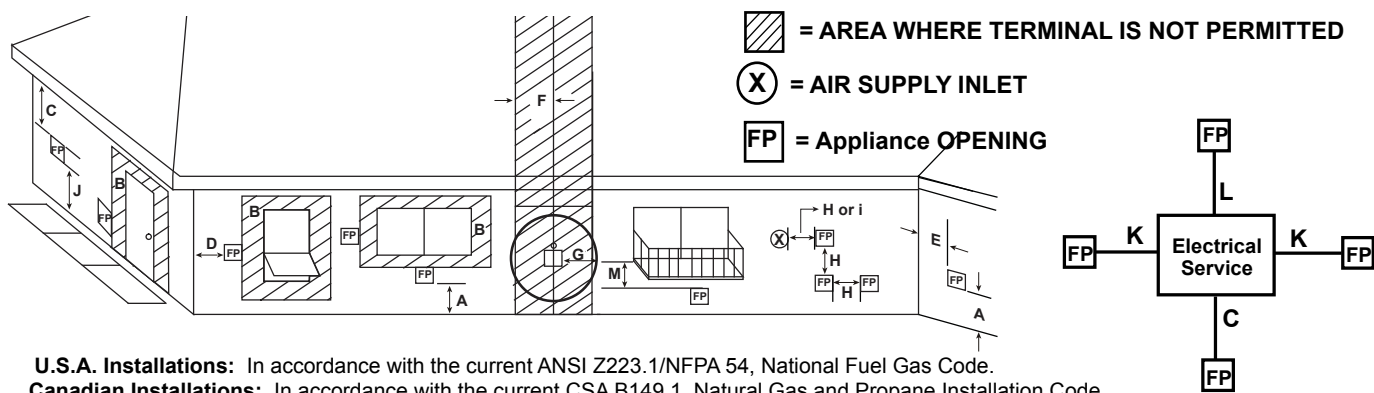


Figure 3.5. Appliance Locations and Framing Dimensions - ODLANAIG-72

## C. Vent Minimum Clearances



|   |                                                                                                                                                                                                                                 | U.S.A.                    | CANADA               |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|
| A | Clearance above grade, veranda, porch, deck, or balcony                                                                                                                                                                         | 0 in. (0 cm)              | 0 in. (0 cm)         |
| B | Clearance to window or door that may be opened, or to permanently closed window                                                                                                                                                 | Non-vinyl                 | 12 in. (305 mm)      |
|   |                                                                                                                                                                                                                                 | Vinyl                     | 24 in. (610 mm)      |
| C | clearance below unventilated soffit                                                                                                                                                                                             | 39 in. (990 mm)           | 39 in. (990 mm)      |
|   | clearance below ventilated soffit                                                                                                                                                                                               | 39 in. (990 mm)           | 39 in. (990 mm)      |
|   | clearance below any vinyl soffits and electrical service                                                                                                                                                                        | 60 in. (1524 mm)          | 60 in. (1524 mm)     |
| D | clearance to outside corner                                                                                                                                                                                                     | 9 in. (229 mm)            | 9 in. (229 mm)       |
| E | clearance to inside corner                                                                                                                                                                                                      | Non-vinyl siding (1 side) | 4 in. (102 mm)       |
|   |                                                                                                                                                                                                                                 | Non-Vinyl siding (Alcove) | 8 in. (203 mm)       |
|   |                                                                                                                                                                                                                                 | Vinyl siding & windows    | 48 in. (1219 mm)     |
| F | not to be installed above a gas meter/regulator assembly within 3 feet horizontally from the center-line of the regulator                                                                                                       | 3 ft (914 mm)             | 3 ft (914 mm)        |
| G | clearance to gas service regulator vent outlet                                                                                                                                                                                  | 3 ft (914 mm)             | 3 ft (914 mm)        |
| H | clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance termination (mechanical or non-mechanical)                                                                          | 12 in. (305 mm)           | 12 in. (305 mm)      |
| I | clearance to a mechanical (powered) air supply inlet<br>*** (All mechanical air intakes within 10 feet of a horizontal termination cap must be a minimum of 3 feet below termination.)                                          | 3 ft (914 mm)***          | 6 ft (1829 mm)       |
| J | For appliances installed facing or opening onto public property or property servicing more than one single family dwelling, such as driveways, sidewalks, etc. refer to local building codes/regulations for proper clearances. | Refer to local codes      | Refer to local codes |
| K | clearance from sides of electrical service                                                                                                                                                                                      | 24 in. (610 mm)           | 24 in. (610 mm)      |
|   | Location of the vent termination must not interfere with access to the electrical service.                                                                                                                                      |                           |                      |
| L | clearance above electrical service                                                                                                                                                                                              | 12 in. (305 mm)           | 12 in. (305 mm)      |
|   | Location of the vent termination must not interfere with access to the electrical service.                                                                                                                                      |                           |                      |
| M | clearance under veranda, porch, deck, balcony or overhang<br>(Permitted only if the area meets the requirements of an outdoor space as defined in section 2.A "Design and Installation Considerations")                         | 39 in. (990 mm)           | 39 in. (990 mm)      |
|   | vinyl or composite overhang                                                                                                                                                                                                     | 72 in. (1829 mm)          | 72 in. (1829 mm)     |

Figure 3.6 Minimum Clearances

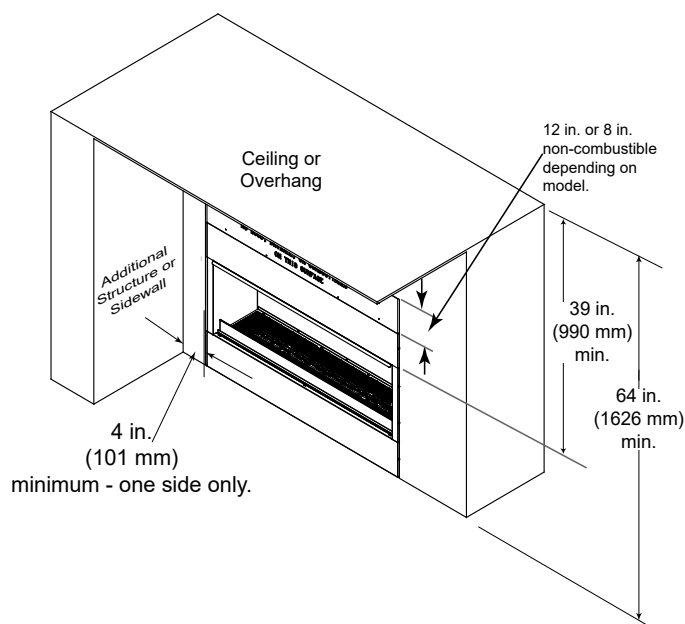


Figure 3.7 Clearances to Combustibles

**WARNING! Risk of Fire!** *Comply with all minimum clearances to combustibles as specified. Framing or finishing material closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc).*

#### D. Hearth Extension/Floor Protection

This application does not require a hearth extension.

#### E. Stand-Alone Installation

This appliance may be installed as a stand-alone appliance.

- Construct a stand-alone framing of combustible or noncombustible materials.
- Cement board or other noncombustible material can be applied directly to the face of the appliance.
- Tape and seal all joints and corners.
- Provide proper flashing and moisture management if installed on surfaces that may rot or otherwise be damaged by water. (See also Section 4.B.)

#### • Built-in Installation

When this appliance is installed into a wall, we recommend that the wall be an exterior wall system.

- See framing measurements in Figure 3.3, 3.4 and 3.5.
- You must maintain ½ in. air space at the back and sides.
- The header must not be placed below the top of the top standoffs.
- Noncombustible wall sheathing material is required above the appliance. (See Figure 3.6 and 3.7)
- A cement board has been provided for this installation.

Flash the perimeter of the appliance, corners and the appliance face in a manner consistent with regional practices as required to prevent water penetration around the appliance. See Section 3B and Figure 3.3, 3.4 and 3.5 for more information regarding wall and enclosure construction.

## **F. Moisture Resistance**

This outdoor appliance will shed moderate amounts of water, but is not waterproof. This appliance must be enclosed or covered with noncombustible finish material and all joints sealed to prevent water infiltration.

The firebox will not perform as an exterior wall. Moisture penetration must be considered for construction that places the appliance in structure walls or on moisture sensitive surfaces.

**When installed on exterior walls:** Hearth & Home Technologies recommends that the chase be constructed outside the structure's weather envelope. Where the platform meets the wall, use a flashing detail similar to that required for attached decks. Chase platforms, including hearths should slope away from the structure at 1/8 in. to 1/4 in. per foot. The appliance can be shimmed level.

**Water Drainage:** The Lanai is designed to operate outdoors experiencing rain and other sources of moisture that will enter the firebox. The appliance has built-in drain holes in the base which will allow moisture to pass through the bottom of the enclosure. When constructing the enclosure, the builder must provide a means of draining water from under the appliance and out of the structure. This can be achieved by properly positioned drain holes, slots or other means to allow water to exit at the lowest grade of the structure. Choosing the location of the appliance is also important so that an area that may experience excessive water flow or standing water is avoided. In some cases a drain pan is needed to ensure proper drainage. This can be constructed from a corrosion resistant metal, or suitable material for outdoor use with a water resistant membrane. A slope of 1/4" per foot toward the drain ports of the structure is recommended. A drain pan can also be purchased (ODLANAIG-48DP) for the 48 inch appliance, (ODLANAIG-60DP) for the 60 inch appliance or (ODLANAIG-72DP) for the 72 inch appliance.

# 4 Appliance Preparation

## A. Securing and Leveling Appliance

**CAUTION! Risk of cuts, abrasions or flying debris. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.**

Position, level and secure the appliance.

- Install on wood, composite or non-combustible continuous flat surface, extending full width and depth of the appliance to prevent damage.
- Level the appliance from side to side and front to back.
- Shim the appliance with noncombustible material, such as sheet metal, as necessary.
- Chase platforms, including hearths, should slope away from the structure at 1/8 inch to 1/4 inch per foot.
- Nailing tabs must be moved from shipping position to installation position and secured to framing. Bend the four nailing tabs out on each side. See Figure 4.1.

## B. Flashing

- Flash the appliance in a manner consistent with regional practices to prevent water penetration around the appliance. Due to elevated temperatures across the top of the appliance, metal flashing and high temperature sealant must be used. Adhesive or polymer flashing materials may melt.
- For brick, stone, stucco and similar construction, weep screeds should be installed per regional codes.
- See Section 3.F. and Figures 3.3, 3.4, and 3.5 for more information regarding wall and enclosure construction required to prevent moisture penetration into the structure. The appliance will shed moderate amounts of water but is not waterproof.

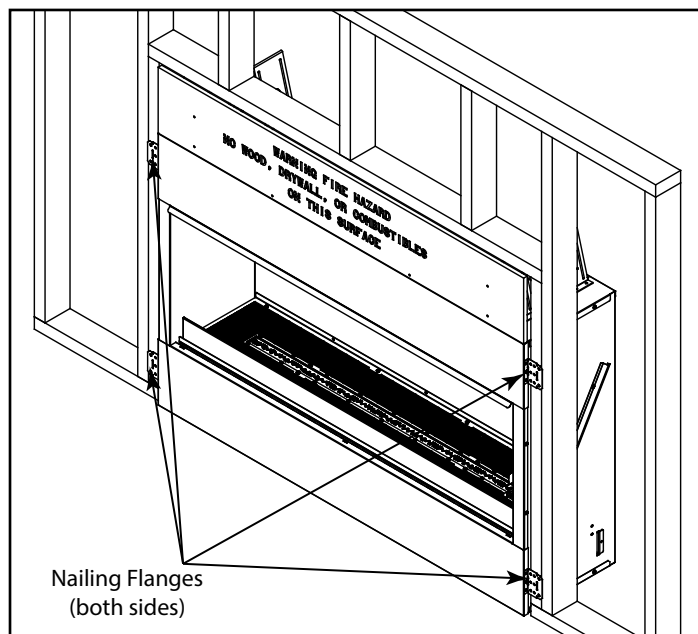


Figure 4.1. Positioning and Securing Nailing Flange

**NOTE:** Use high temp silicone or sealant recommended by the manufacturer of the house wrap to seal between combustible sheathing house wrap and non-combustible sheathing. The sealant material used within 6 inches of the top and 1 inch on the sides of the appliance surround must be approved to withstand a minimum temperature of 225°F continuous exposure. House wrap tape with a 225°F minimum temperature may also be used. See Figure 4.2.

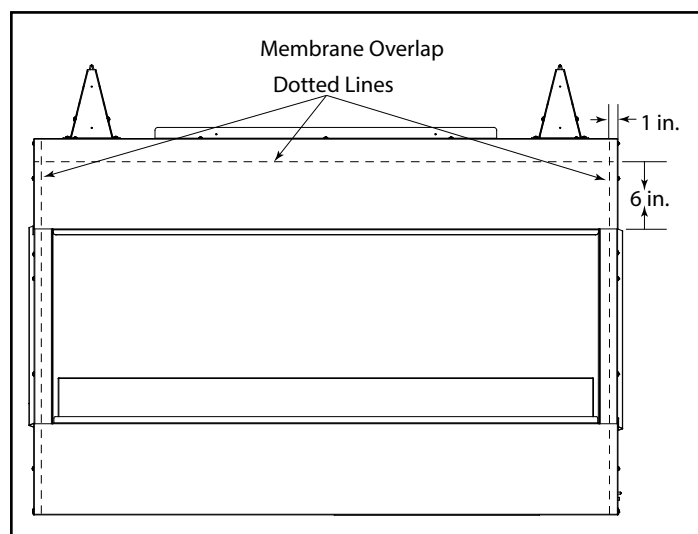


Figure 4.2. Membrane Overlap



# 5 Electrical Information

## A. Wiring Requirements

**Note:** The Lanai appliance **MUST** be connected to a GFCI (Ground Fault Circuit Interrupt) protected circuit breaker.

**WARNING! Risk of Shock or Explosion! DO NOT** wire 110-120 Vac. to the valve or to the appliance wall switch. Incorrect wiring will damage controls.

**NOTICE:** This appliance must be electrically wired and grounded in accordance with local codes, or in the absence of local code, with **National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electric Code CSA C22.1.**

**Total Electrical Requirements: 110-120Vac., 60Hz., less than 12 Amperes.**

- Wire the appliance junction box to unswitched 110-120Vac. This is required for proper operation of the appliance.
- A 110-120Vac. circuit for this appliance must be protected with ground-fault circuit-interrupter protection in compliance with the applicable electrical codes.
- Low voltage and 110-120 VAC voltage cannot be shared within the same wall box.

## Electrical Service and Repair

**WARNING! Risk of Shock! Label all wires prior to disconnection when servicing controls. Wiring errors could cause improper and dangerous operation. Verify proper operation after servicing.**

## B. IntelliFire Pilot Ignition System Wiring

- Wire the appliance junction box to 110-120Vac. for proper operation of the appliance.

**WARNING! Risk of Shock or Explosion! DO NOT** wire IPI controlled appliance junction box to a switched circuit. Incorrect wiring will override IPI safety lockout.

**THIS APPLIANCE IS SUPPLIED STANDARD WITH:**

- IntelliFire control valve (3V)
- Wall switch Control – Operates appliance On/Off and LED lights.

- Two (2) LED outdoor rated light strips (12V)
- Conductor wall switch wire

## C. Installing the Electrical

The Lanai is supplied with the junction box located on the right side of the appliance. There is no option to relocate junction box to the left side of the appliance.

### Wiring Junction Box

- Remove (2) screws securing junction box access panel. See Figure 5.1.

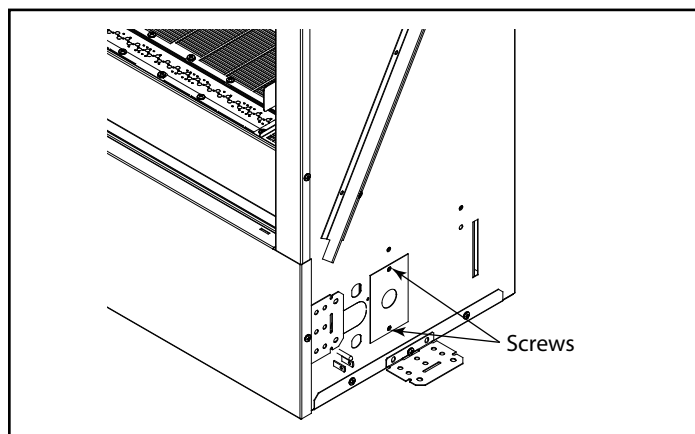


Figure 5.1. Access Panel Removal

- Unplug transformer and power supply.
- Disassemble junction box. See Figure 5.2

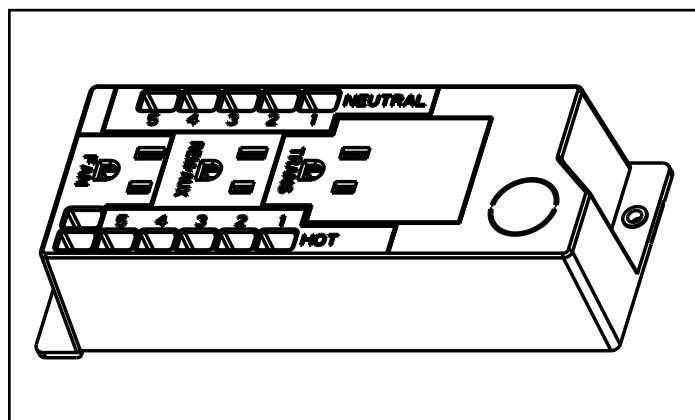


Figure 5.2. Junction Box

- Wire junction box and reassemble. See Figure 5.3.

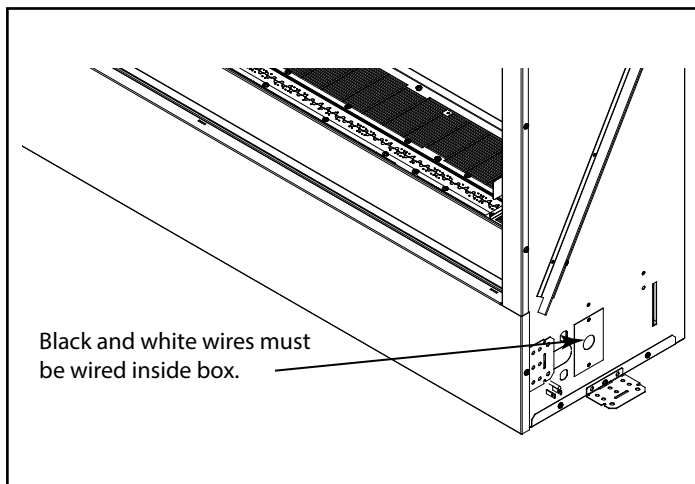


Figure 5.3. Wire Junction Box

- Plug in transformer and power supply to junction box. See Figure 5.4.

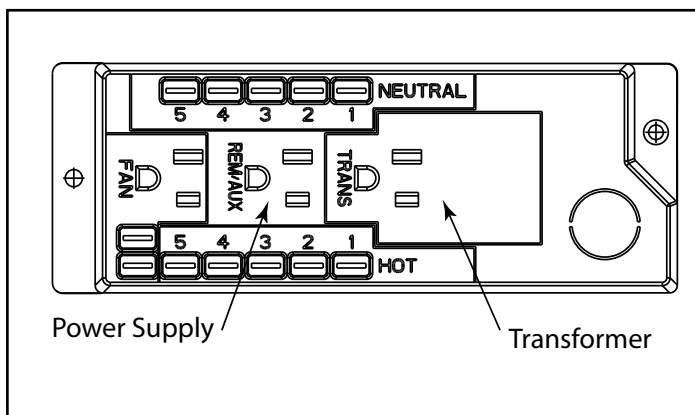


Figure 5.4. Power Supply

## Wiring Diagram

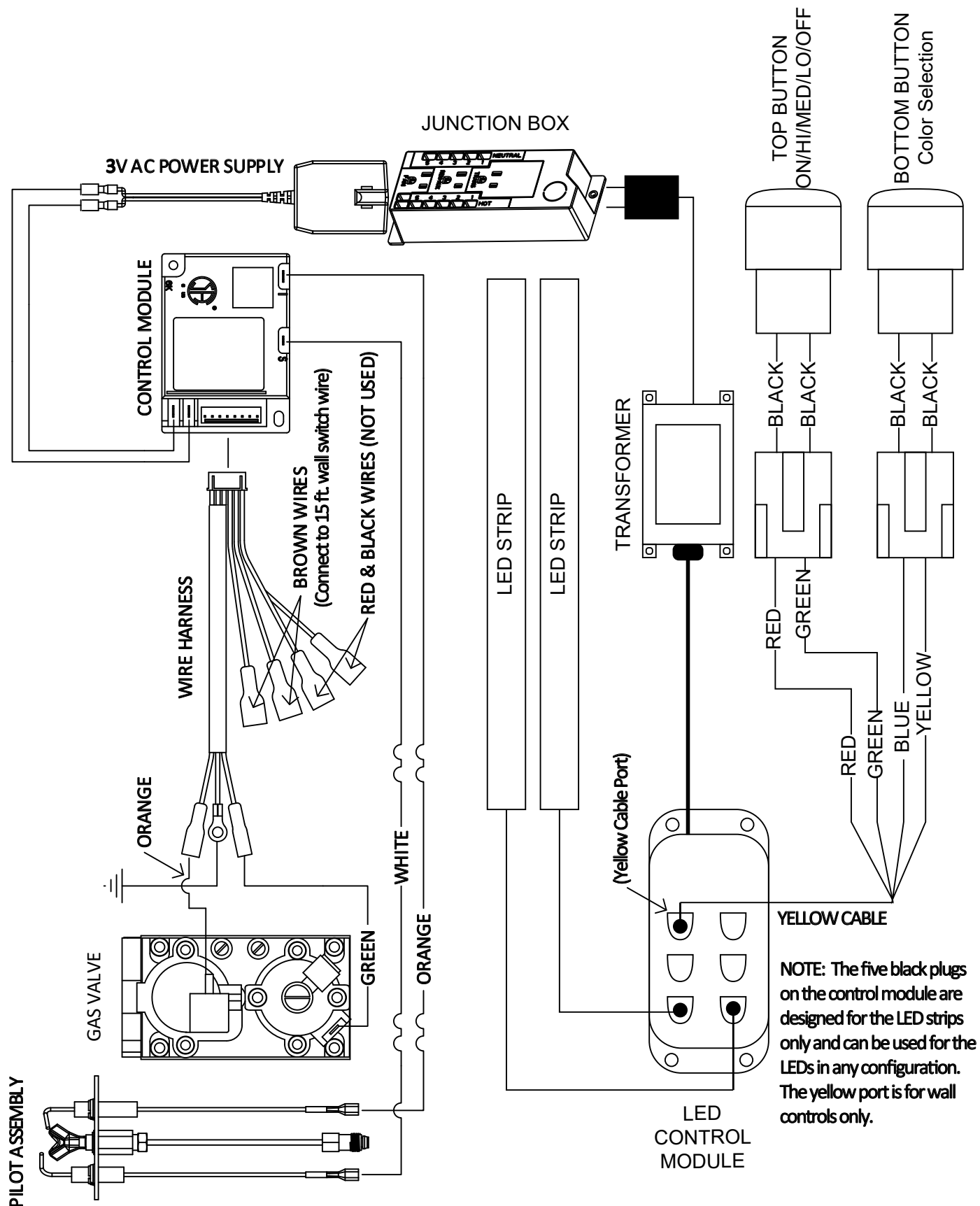


Figure 5.5. Wiring Diagram

## D. Wall Switch Control Assembly

The Lanai series outdoor gas appliance is supplied with a wall switch control panel, and control mounting box. See Figure 5.6.

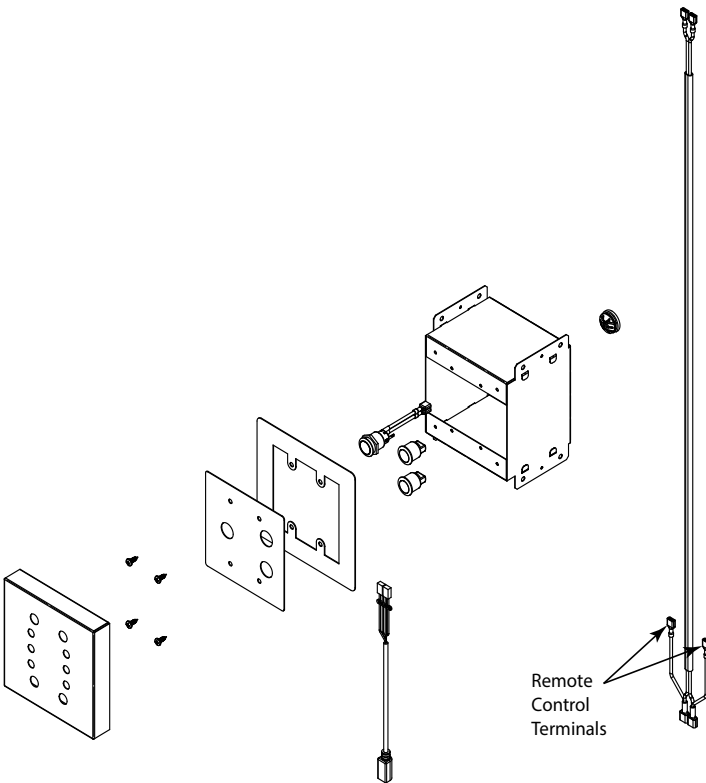


Figure 5.6. Wall Control Switch Assembly

**NOTE:** Supplied wire allows for the control assembly to be mounted up to 14 feet from the appliance. The supplied grommet can be installed on the left or right side of the appliance for wall switch control wire routing.

- The control box can be rerouted on the right or left side of the appliance.
- Locate controls by lifting engine and using support legs. To access Intellifire control module and LED control module, lift control box cover off of controls.
- The rocker switch wire (Black/white) must be plugged into the two brown wires on the control wiring harness. There is no incorrect connection for these two wires. Shown in wiring diagram (Figure 5.5.)
- The yellow cable for the two LED buttons plugs into the LED module (Yellow control module) located under the control cover which is under side of the engine base.
- Make sure the cable is completely engaged and clip is over top of the plug.

- Using the tabs, mount the wall control switch assembly to a stud within 14 feet of the appliance.

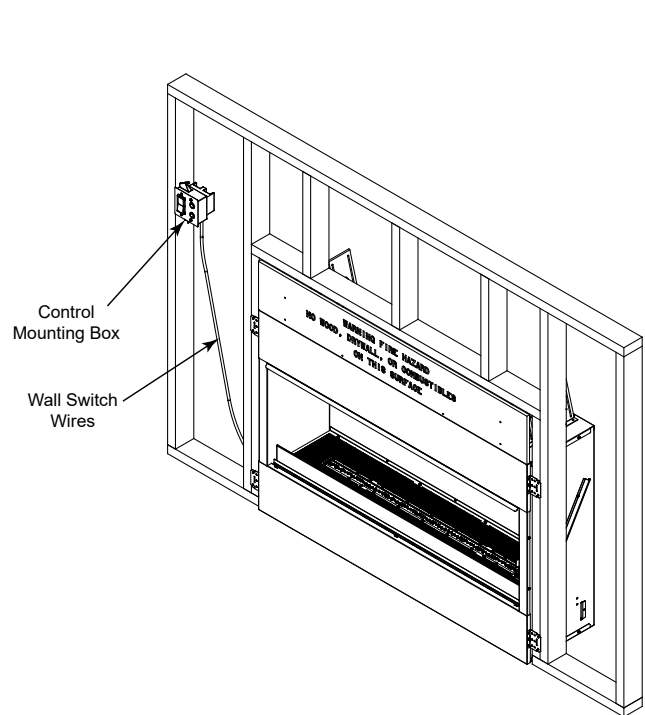


Figure 5.7. Wall Switch Mounting

## 6 Gas Information

### ⚠ WARNING



Risk of Fire! Risk of Explosion! Risk of Asphyxiation!

Follow all instructions and warnings for installing and servicing gas line.



- Gas line installation and service must be performed by a qualified installer or licensed plumber in accordance with all applicable codes for the installation location (NFPA 54 / ANSI Z223.1, the current International Fuel Gas Code, or CAN/CSA B149 in Canada) (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

- Check all fittings and connections by means of a listed combustible gas detector, a noncorrosive leak detection fluid, or other approved leak detection method. **DO NOT** use open flame.

### ⚠ WARNING



Risk of Fire! Risk of Explosion!

Pressure exceeding 1/2 PSIG (14 in. w.c. / 3.5 kPa) will damage gas valve control.



- Disconnect appliance and its manual shutoff valve BEFORE line pressure testing.
- Cap outlet on piping system at appliance connection BEFORE line pressure testing.
- Connect appliance AFTER confirming piping system pressure is equal or less than 1/2 PSIG (14 in. w.c. / 3.5 kPa).

#### A. Valve Access

The valve and controls are located in the appliance control box. See Figure 6.1.

The control box and controls can be accessed by lifting engine assembly as shown in Figure 6.1

- Make sure appliance is off and cool.
- Remove media and deflection glass panel from hearth pan.
- Remove the 3 or 5 screws (depending on the model) from the back of the hearth pan.
- Lift the front of the burner assembly and place the two leg supports, provided under the Engine, against lower front space at the bottom of the face, and slide into the slots at the bottom of the engine assembly. See Figure 6.1.
- Remove control box cover panel revealing control board if access to any controls is needed.

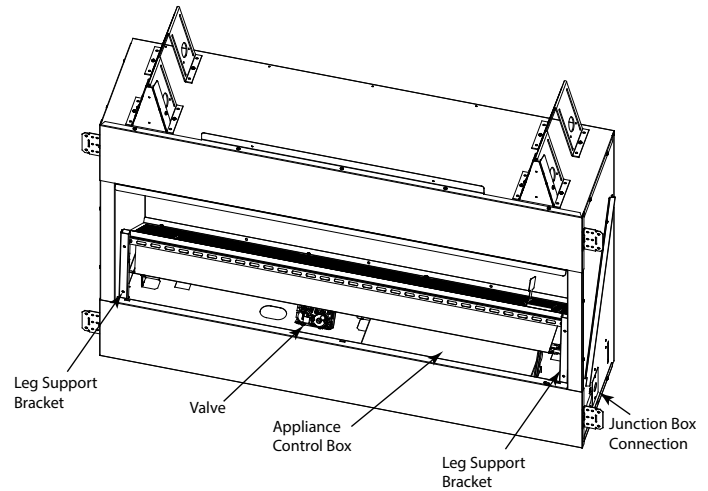


Figure 6.1. Appliance With Engine Lifted

#### B. Gas Pressure

- Install pressure regulator upstream of gas valve if line inlet pressure exceeds 1/2 PSIG.
- Recommended inlet pressure for optimal appliance performance: 7.0 in. w.c. (NG) 12.0 in. w.c. (Propane)
- Verify inlet pressure is within specified range, including when other household gas appliances are operating.
- Pressure requirements when in operation are:

| Gas Pressure           | Natural Gas   | Propane     |
|------------------------|---------------|-------------|
| Minimum inlet pressure | 5.0 in. w.c.  | 11 in. w.c. |
| Maximum inlet pressure | 10.5 in. w.c. | 13 in. w.c. |
| Manifold pressure      | 3.5 in. w.c.  | 10 in. w.c. |

**Note:** A listed (and commonwealth of Massachusetts approved) 1/2 inch (13mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 inch (13mm) control valve inlet.

- If substituting for these components, please consult local codes for compliance.**

## C. Gas Connection and Gas Line Purging

| <b>⚠ WARNING</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Risk of Fire! Risk of Explosion!</p> <p>Gas buildup during line connection and purging could ignite.</p> <ul style="list-style-type: none"><li>• Support gas control when attaching pipe to prevent bending gas line.</li><li>• Gas line installation and purging of the gas fuel line <b>MUST</b> be performed by a qualified service technician or a licensed plumber in accordance with the applicable gas code for the installation location (NFPA 54 / ANSI Z223.1, the current International Fuel Gas Code, or CAN/CSA B149 in Canada).</li></ul> |
|  | <ul style="list-style-type: none"><li>• Use a listed combustible gas detector, a noncorrosive leak detection fluid, or other approved leak detection method to check all fittings and connections for gas leaks before lighting the appliance.</li><li>• Ensure ventilation</li><li>• Eliminate ignition sources, such as sparks or open flames.</li></ul>                                                                                                                                                                                                 |

- Refer to Section 3 for location of gas line access in appliance.
- The gap between supply piping and gas access hole may be caulked with a minimum of 300°F continuous exposure rating or stuffed with noncombustible, unfaced insulation to help prevent rodents and insects from getting into the control area of the appliance.
- Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.
- Pipe incoming gas line into lower compartment.
- Connect incoming gas line to the 1/2 inch (13mm) connection on the manual shut-off valve.
- A small amount of air will be in the gas supply line and must be purged. Light the appliance to allow air to purge through the pilot assembly.

## D. Fuel Conversion

- Make sure the appliance is compatible with available gas types.
- The Lanai series gas appliance is supplied from the factory for use with natural gas. If a Propane(LP) conversion is required, kit LPK-ODLANAIG48 or LPK-ODLANAIG60 must be purchased in order to convert the appliance for use with propane. The LPK-ODLANAIG60 is used to convert the ODLANAIG-60 and ODLANAIG-72
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

## E. High Altitude Installations

**Notice:** If the heating value of the gas has been reduced, these rules do not apply. Check with w local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In Canada: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370m.)

Check with your local gas utility to determine proper orifice size. See conversion kit (LPK-ODLANAIG48 or LPK-ODLANAIG60) for instructions on how to change main burner orifice. The LPK-ODLANAIG60 is used to convert the ODLANAIG-60 and ODLANAIG-72.

## A. Facing Material

The appliance structure can be covered with any noncombustible material. Refer to Section 1.D.

**WARNING! Risk of Fire! DO NOT** apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Overlapping materials could ignite. Any installation outside the scope as stated in this manual please contact your authorized Hearth & Home Technologies dealer prior to installation.

## Mantel and Wall Projections

**WARNING! Risk of Fire!** Comply with all minimum clearances to combustible as specified. Framing or finishing material closer than the minimums listed must be constructed entirely of noncombustible materials (i.e. steel studs, concrete board, etc.) Figures 7.1 and 7.2 show the dimensions for mantels or other combustible projections above the appliance opening.

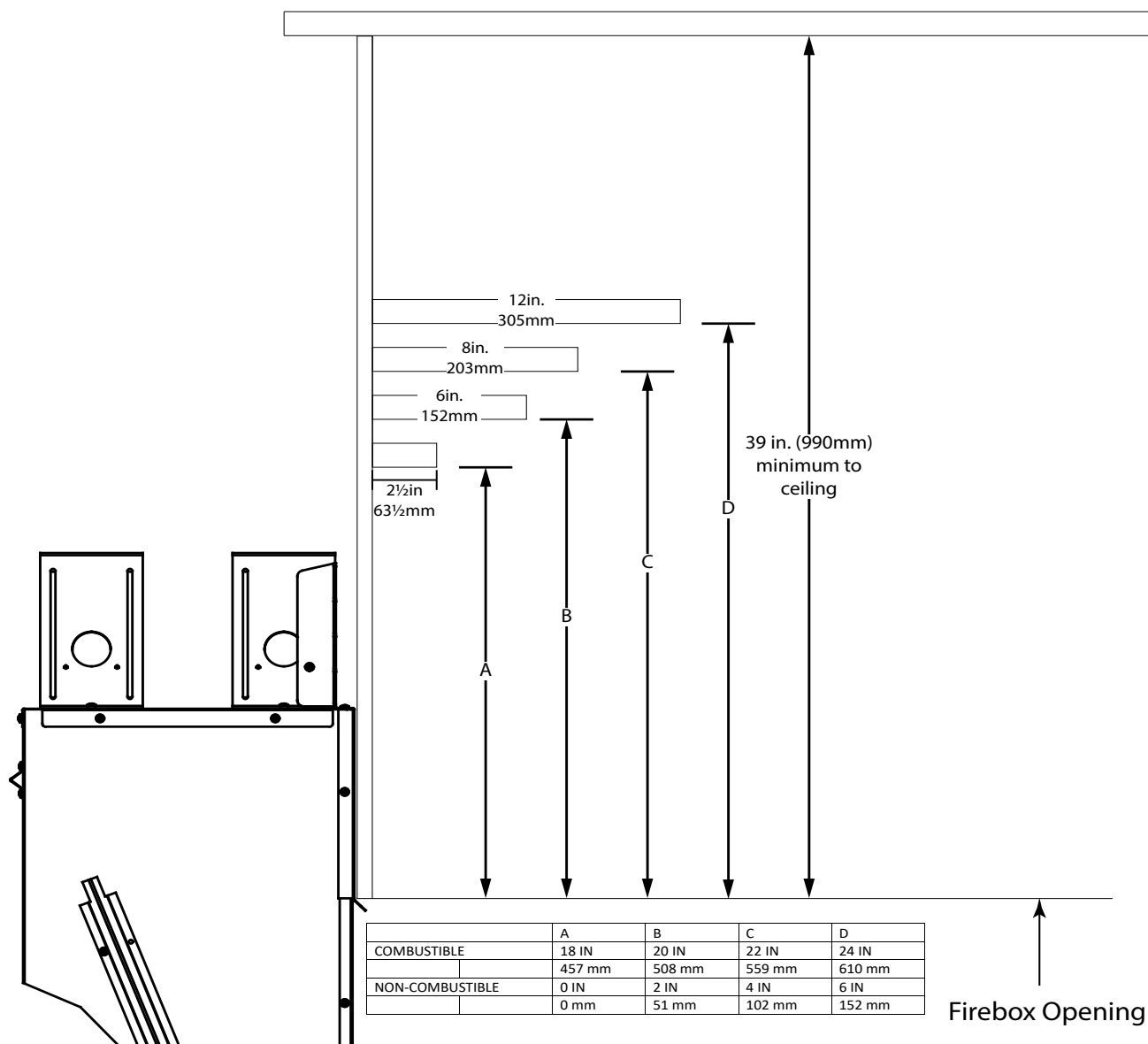
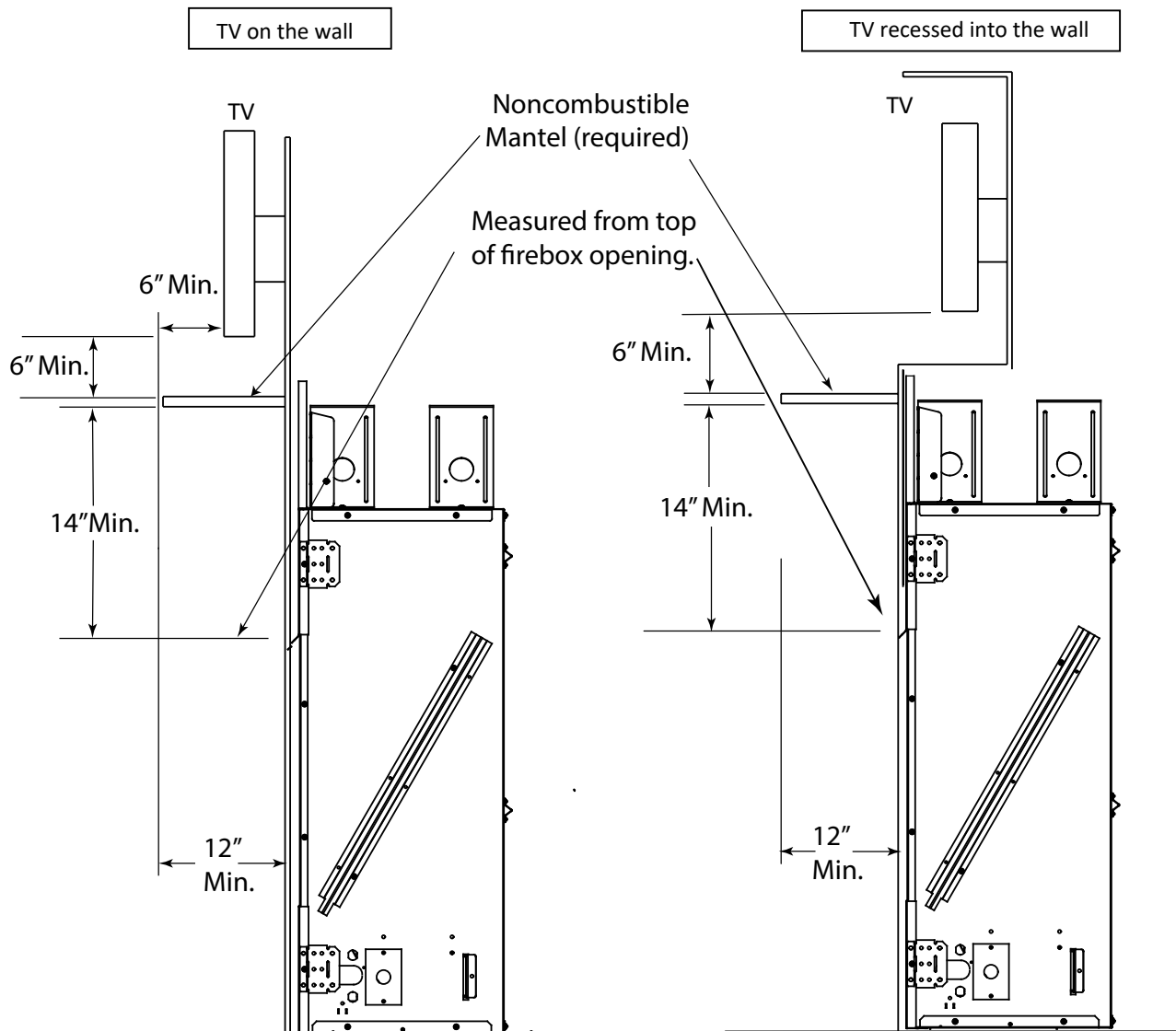


Figure 7.1. Minimum vertical and maximum horizontal mantel dimensions for combustible and non-combustible materials.

## Good Faith Guidelines for TV Installations above a Typical Gas Fireplace



### Notes:

1. TV installation as shown requires the mantel be constructed entirely of non-combustible material as it is below the allowable height for a combustible mantel.
2. These are good faith recommended clearances only and not a guarantee of compliance with all TV manufacturers' maximum allowable operating temperatures.
3. Since every home has unique air flow characteristics and maximum allowable operating temperatures can vary from manufacturer to manufacturer and from model to model, actual TV temperatures should be validated at the time of each installation. TVs should not be used in situations where the actual TV temperature exceeds the manufacturers' maximum allowable operating temperatures identified in the TV's technical specifications. Contact the TV's manufacturer directly if you cannot locate this information or have questions regarding the information.
4. Mantel height and depth must conform to mantel requirements specified in the appliance installation manual.

**Figure 7.2.** Good Faith TV Guidelines



## 8 Appliance setup

### A. Remove the Shipping Materials

Remove the plastic coating and shipping materials from the firebox.

**WARNING! Risk of Fire!** Close the ball valve before installing the media template to prevent accidental lighting. Remove the media template before lighting the appliance.

### B. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox.

### C. Optional Accessories

Install approved accessories per instructions included with accessories. Contact your dealer for a list of approved accessories.

**WARNING! Risk of Fire and Electric Shock!** Use ONLY Hearth & Home Technologies-approved optional accessories with this appliance. Using non-listed accessories could result in a safety hazard and will void the warranty.

### D. Verify Pilot Shield

Ensure proper placement of the pilot shield and media placement template. See Figure 8.1. Shipping could cause them to become displaced.

### E. Install Deflection Glass

Deflection glass is stored on top of the media tray. Remove the two brackets holding the deflection glass. Remove deflection glass packaging. Carefully place deflection glass into support bracket provided. See Figure 8.1.

### F. Install Clear Crystal Media

Pour crystal media into the hearth area. Cover the entire hearth pan area evenly, including burner area and the pilot cover.

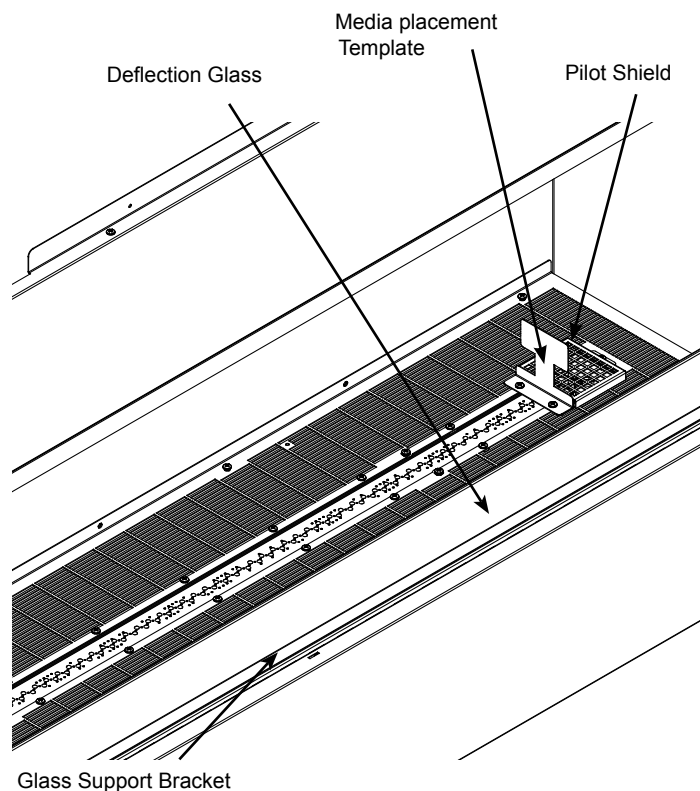


Figure 8.1. Media Placement Template

### G. Remove Media Placement Template

Remove screws attaching the media placement template and remove. Do not discard template. This must be used at any time media is applied to appliance.

## 9 **Reference Materials**

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### **A. Accessories**

#### **LP Conversion Kit:**

- LPK-ODLANAIG48
- LPK-ODLANAIG60 (For use on ODLANAIG-60 and ODLANAIG-72)

#### **Media Kits:**

- Media-Ebony-48 (For use on ODLANAIG-48 and ODLANAIG-60)
- Media-Cobalt-48 (For use on ODLANAIG-48 and ODLANAIG-60)
- Media-Red-48 (For use on ODLANAIG-48 and ODLANAIG-60)
- Media-Amber-48 (For use on ODLANAIG-48 and ODLANAIG-60)
- Media-Ebony-72
- Media-Cobalt-72
- Media-Red-72
- Media-Amber-72

#### **Optional Screen – ODLANAIG-48SCN, ODLANAIG-60SCN, ODLANAIG-72SCN**

- The Lanai series outdoor gas appliance offers a protection screen that is designed to protect the inside of the appliance from trash and other debris (sticks, leaves, etc.) while not in use. This appliance may be operated with the screen installed.

#### **Optional Trim Kit – ODLANAIG-48CFT, ODLANAIG-60CFT, ODLANAIG-72CFT**

- The Lanai series outdoor gas appliance offers a trim kit that will allow the owner the option to cover the face of the appliance down to the firebox opening. This four (4) piece kit comes with an integrated eyebrow and 3/4" stainless steel lip that frames in the opening for a clean and seamless install.

#### **Optional Drain Pan – ODLANAIG-48DP, ODLANAIG-60DP, ODLANAIG-72DP**

- The Lanai series outdoor gas appliance offers a drain pan that is designed to channel moisture to the front or rear of the enclosure housing the appliance. This option will help ensure moisture does not become trapped inside the structure and helps to keep the area under the appliance free of standing water.

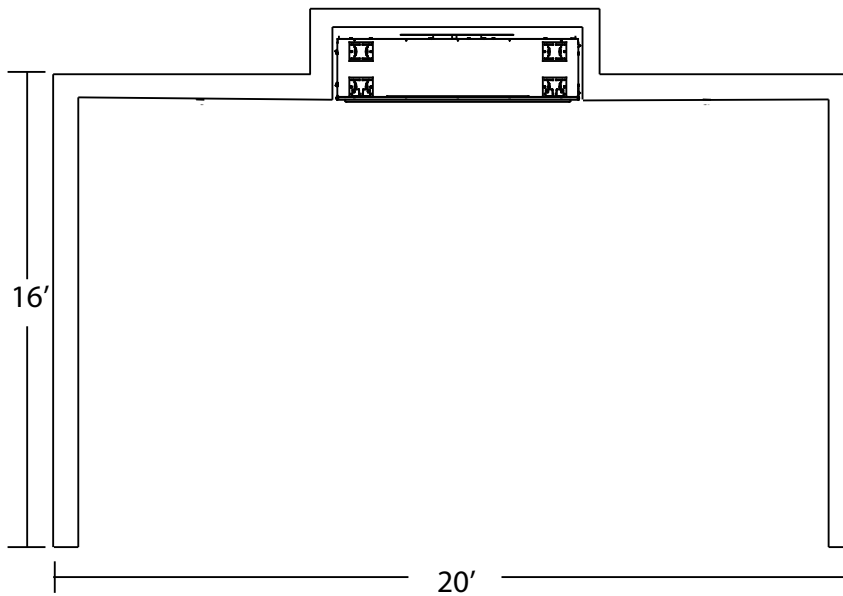
#### **Optional Contemporary Driftwood Log Set - CDLS**

#### **Optional Stone Kit - STONEKIT**

NOTE: CDLS and STONEKIT cannot be used in conjunction with each other.

## B. Addendum

### How to Calculate the Minimum Opening Needed In an Outdoor Living Space



30% (or .30) of the outdoor living space periphery needs to be open.

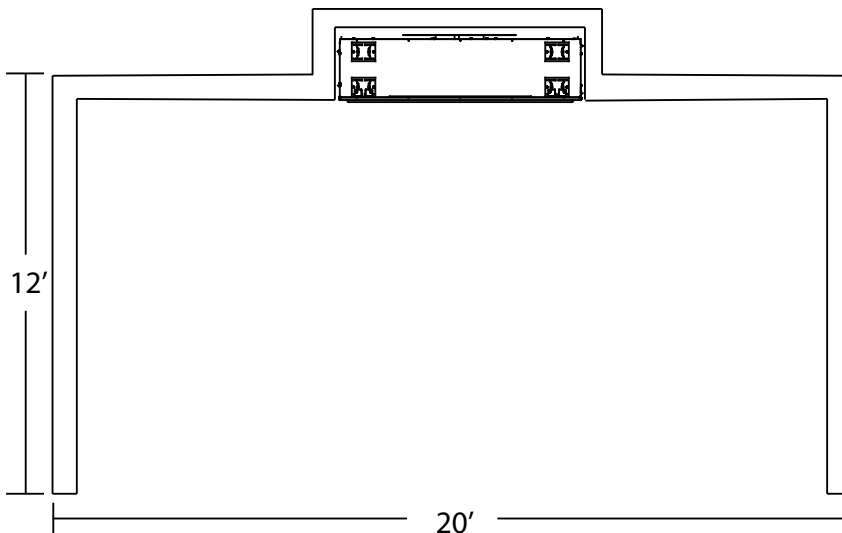
1. Add lengths of the outside living space.

$$16' + 20' + 16' + 20' = 72'$$

2. Divide the open area length by the total outdoor living space.

$$20/72 = .28$$

.28 is less than the .30 required and therefore this installation would not be approved.



1. Add lengths of the outside living space.

$$12' + 20' + 12' + 20' = 64'$$

2. Divide the open area length by the total outdoor living space.

$$20/64 = .31$$

.31 is greater than the .30 required and therefore this installation would be approved.



Outdoor Lifestyles, a brand of Hearth & Home Technologies  
2571 215th Street West, Lakeville, MN 55044  
[www.hearthnhome.com](http://www.hearthnhome.com)

Please contact your Outdoor Lifestyles dealer with any questions or concerns.  
For the location of your nearest Outdoor Lifestyles dealer,  
please visit [www.hearthnhome.com](http://www.hearthnhome.com)