Installation and Operation Manual
Built-in Models

Built-In Models:
Front Facing Series
Traditional Series
Corner (RS/LS) Series
Tunnel Series
Three Side Series
Space Creator Series

“→” Denotes a crucial information change
Addendum: Removal of Inner 5/8” Type X Drywall Requirement

We are happy to announce that Ortal, Lyric, and Wilderness fireplaces are approved to be installed without an inner layer of 5/8” Type X Drywall inside the chase. This approval applies to all Ortal-manufactured built-in fireplaces sold in the North American market, with exception of the Ortal Traditional 90 & 110.

The temperatures inside the cavity can reach up to 90°F above room temperature and the appliances are meeting these criteria and approved by CSA with no requirement to use the inner layer of 5/8” Type X Drywall.

Figure 1 below illustrates framing installation without the inner layer of 5/8” Type X Drywall inside the chase.

In addition, heat release requirements for Wilderness series fireplaces have been updated to match the requirements for the rest of the Ortal series fireplaces, as detailed in the Ortal Installation Manual: Built-In Models (V2) pages 6-8.

All other framing and building requirements remain unchanged.

We will be working over the next several weeks to update all our manuals and technical documents with this information. In the meantime, this document serves as official approval letter to permit installations that follow these new installation instructions. This document supersedes all current and previous manuals.

Warmly,
Fireplace Safety Information and Warnings

This section provides safety guidelines and instructions. It is important to SAVE THESE INSTRUCTIONS and to make yourself fully aware of all the safety protocols and the many features of the Ortal direct vent gas fireplace. ALL warnings and instructions below apply to all products manufactured and distributed by Ortal.

⚠️ WARNING – HEAT BARRIER
A barrier designed to reduce the risk of burns from hot viewing glass is provided with this fireplace and shall be installed. Fireplace MUST not be used without the heat barrier in place. If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this fireplace. Any safety screen, guard, or barrier removed for servicing the fireplace must be replaced prior to operating.

⚠️ WARNING – FIREPLACE TEMPERATURE
Due to hot temperatures, the fireplace should be located out of traffic and away from furniture and draperies. Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Clothing or other flammable material should not be placed on or near the fireplace. Young children should be carefully supervised when they are in the same room as the fireplace. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at-risk individuals out of the room and away from hot surfaces.

⚠️ WARNING – GLASS HANDLING
The glass must ONLY be removed by an authorized and/or qualified installer. The authorized technician should ONLY remove the glass with the suction cups supplied by the manufacturer. To prevent damage to the glass edges, lower the glass to rest in a safe place. Follow these guidelines for glass handling:
- Step 1: Prepare a safe place for the glass to rest.
- Step 2: Remove the glass using the suction cup.
- Step 3: The glass can now be rested safely.

⚠️ WARNING – ELECTRICAL GROUNDING
These Direct Vent fireplaces must be electrically grounded in accordance with the local codes or, in the absence of local codes, with National Electric code, ANSI/NFPA 70, or the Canadian Electric Code, CSA C22.1.

⚠️ WARNING – INSTALLATION AND OPERATION
The direct vent system fireplace must be installed as an OEM installation in manufactured homes (USA only) or an aftermarket permanently located, or a mobile home, where not prohibited by local codes. The fireplace must be installed in accordance with the Manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States, or the Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series, in Canada. If the information in these instructions are not followed exactly, a fire or explosion may result, causing property damage, personal injury or loss of life. Do not store or use gasoline or other flammable vapors and liquids near this fireplace.

⚠️ WARNING – INSTALLATION AND SERVICE
Installation and repairs must be done by an authorized qualified installer service agency or gas supplier. The fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean. Any alteration to the product can cause soot or carbon to form and may result in damage. This damage and any other damage that results from not following the instructions outlined in this manual is not the responsibility of the manufacturer.

⚠️ WARNING – GAS FIREPLACE
This fireplace is for use only with the type of gas indicated on the rating plate. These fireplaces are not convertible for use with other gases unless a certified kit is used, and the conversion is performed by an authorized and qualified technician. Applicable standards are Vented Gas Fireplace Heaters ANSI Z21.88 / CSA 2.33a and Gas-fired Fireplaces for Use at High Altitudes CAN/CGA 2.17-M91.
Table of Contents

Fireplace Safety Information and Warnings ........... 1
Certifications and Codes .......................................... 4
Product List: Built-In Ortal Models and Burners .......... 5
Building Requirements ........................................... 6
  Non-combustible Material .................................. 6
  Framing and Drywall........................................... 6
  Heat Release .................................................... 6
    Horizontal Heat Release: Reveal or Gap ........ 7
    Horizontal Heat Release: Ventilation Grille (Louver) ............ 7
  Vertical Heat Release: Front Split .................. 8
  Vertical Heat Release: Full Side ..................... 8
  Sprinkler Clearance to Heat Release ............... 8
  Air Intake ................................................... 8
  Fireplace Legs ............................................ 8
  Access Panel .............................................. 9
  Double Glass Requirements ................................ 10
  Power Requirements ...................................... 10
  Air Intake Requirements ................................ 10
  Air Intake for a Platform ................................ 11
Framing Diagrams ................................................. 12
  → Front (F) & Traditional (TR) Series Framing Diagram ........... 13
    Wood Framing ........................................... 13
    Metal Framing ........................................... 14
  → Corner (RS/LS) Series Framing Diagram ........... 15
    Wood Framing ........................................... 15
    Metal Framing ........................................... 16
  → Tunnel (TN) Framing Diagram ....................... 17
    Wood Framing ........................................... 17
    Metal Framing ........................................... 18
  → Three Side (TS) Framing Diagram .................. 19
    Wood Framing ........................................... 19
    Metal Framing ........................................... 20
  → Space Creator (SC) Framing Diagram ............ 21
    Wood Framing ........................................... 21
    Metal Framing ........................................... 22
Clearance & Finish Diagrams ................................... 23
  → General Clearance Requirements .................... 23
  → Minimum Firebox Clearances Diagram ............. 25
  → Clearance to Combustibles ............................ 26
  → Inside Corner Clearances ............................. 26
  → Television/Art Installation ........................... 27
  → TV and Art Mounting Requirements ................. 27
  → Finish Diagrams ......................................... 30
    → Non-Combustible (Stone) Finish .................. 30
    → Non-Combustible (Stone) Finish with Non-
      combustible Hearth Extension ...................... 31
    Brick Veneer Finish .................................... 32
    Recessed Combustible (Wood) Finish ............. 33
    Flush Combustible (Wood) Finish .................. 34
    Wood Hearth Extension ................................ 35
  → Mantel Diagrams ......................................... 36
    → Mantel Detail for a Recess and Flush Application .................. 36
    → Mantel Surround Detail ............................... 37
    Ledge (Shelf) Detail .................................... 38
    Chase Area Minimums .................................... 39
    Diagram for Structural Weight Support ........... 40
Gas Requirements & Setup ........................................ 41
  → Routing the Gas Line .................................... 41
  → Routing the Gas Line for Traditional Series ...... 42
  → Gas Pressure and Heat Input Charts ............... 43
  → High Altitude Gas Requirement ..................... 43
  → Gas Control Assemblies and Components ........ 44
    → Gas Conversion ....................................... 45
    Pilot Inspection ......................................... 45
    Pilot Maintenance ....................................... 45
    Thermocouple Maintenance ............................ 45
Electrical Guidelines .............................................. 46
  → Electrical Requirements ................................ 46
    → Electrical Requirements for Traditional Series ......... 46
    TV/Electronics Electrical Wires ..................... 46
  → Wiring Diagrams ......................................... 47
    → Screen Fireplace ..................................... 47
Screen Fireplace with Lights........................ 47
Screen Fireplace with Ortal Power Vent...... 48
Screen Fireplace with Ortal Power Vent and
Lights.......................................................... 49
Double Glass Fireplace.................................. 50
Double Glass Fireplace with Lights .............. 51
Double Glass Fireplace with Ortal Power Vent
................................................................... 52
Double Glass Fireplace with Ortal Power Vent
and Lights................................................... 53
Smart Home System Wiring Information.... 54
Vent System Information............................ 55
General Pipe Requirements & Certified Pipe
Manufacturers ................................................. 55
Venting Installation and Clearances .......... 55
→ Vent Pipe Clearances.............................. 56
Venting Diagrams........................................ 56
Offset (bends/elbows) Maximums .............. 56
Horizontal Termination Venting Diagram .... 57
Vertical Termination Venting Diagram ...... 58
Vertical Termination Venting Diagram –
Straight Vertical.................................. 59
Vent Restrictor Sizing Guidelines ............ 59
Restrictors and Vent Arrangement ............ 60
Restrictor Table: Series 40 ....................... 61
Restrictor Table: Series 75 ....................... 61
Restrictor Table: Series 110-130.............. 61
Restrictor Table: Series 150-170.............. 62
Restrictor Table: Series 200..................... 62
Restrictor Table: Series 250..................... 62
→ Horizontal Termination Clearance Diagrams 63
→ Vertical Termination Clearance Diagrams .... 64
Chimney Shroud Detail ............................. 65
Vent Maintenance.................................... 65
Fireplace Cavity (Chase) Construction....... 66
Cavity (Chase) Construction Notes......... 67
Fireplace Installation Instructions............ 69
Selecting a Location................................ 69
Installation Sequence ......................... 69
First Trip to Site: Planning Phase.......... 69
Second Trip to Site: Installation Phase .... 69
Third Trip to Site: Startup Phase .......... 70
Working with Glass Panels .................... 71
→ Remote Control Setup and Operation ...... 72
10-Button Remote................................. 72
Operating Instructions......................... 73
Puck Handset......................................... 74
Operating Instructions......................... 74
Wall Switch......................................... 75
Operating Instructions......................... 75
myfire App ......................................... 76
myfire Wi-Fi Box................................. 76
Pairing Remote Control to Receiver ....... 77
Receiver Power Requirements .......... 77
Interior Design Media ......................... 78
Media Placement Guidelines .............. 78
Cold Climate Insulation ......................... 80
Post-installation Procedures ............. 81
Operating Warnings ......................... 81
General Maintenance ......................... 82
→ Warranty Policy......................... 83
Sample Product Certification Labels ...... 85
Certifications and Codes

All Ortal fireplaces have been tested and approved by CSA for safety and efficiency for use with either Natural Gas (NG) or Propane (LP), and NOT for use with solid fuels.

**NOTE:** Some fireplaces are not certified to be used with Propane gas. “See Product List” below for details.

**Certification Code (U.S. & Canada):**

- ANSI Z21.88/CSA 2.33 - Vented Gas Fireplace Heaters
- ANSI Z21.50/CSA 2.22 - Decorative Vented Gas Fireplaces

**Products:**

- CLASS 2901 84 – DOMESTIC HEATERS (GAS) Vented Fireplace – Certified to US Standard
- CLASS 2901 04 – DOMESTIC HEATERS (GAS) Vented Fireplace

**CSA Group is approved by the American National Standards Institute (ANSI) as an Accredited Standards Developer.**

All Ortal fireplaces, except Tunnel models, are permitted for indoor use only. Tunnel models can be specialized for indoor-outdoor use with an “Indoor-Outdoor Kit” supplied by Ortal. For indoor installation, fireplaces must be installed while maintaining required clearances. Ortal fireplaces are not approved for fully outdoor installation. Installation is recommended in living spaces such as bedrooms, living rooms, great rooms, etc. The fireplaces are not approved for closet installation.

The fireplace must be installed according to Ortal requirements in addition to any local codes that may apply, such as:

- USA: ANSI Z223.1/NFPA 54
- Canada: CSA B149

In addition:

- Consult the authority having jurisdiction to determine the need for a permit PRIOR to starting the installation.
- It is the responsibility of the installer to ensure that this fireplace is installed in compliance with the manufacturer's instructions and all the applicable codes.
- Before starting, take careful note of ALL the WARNINGS in this manual.

Patent Pending for screen barrier glass bracket: USSN 60/040,074
Product List: Built-In Ortal Models and Burners

This manual applies to the Ortal models mentioned in the following table.

<table>
<thead>
<tr>
<th>Fireplace Series</th>
<th>Models</th>
<th>Burner Size</th>
<th>Certification Standard</th>
<th>Available Gas Type</th>
<th>Vent Pipe Size Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>Clear 40H70 F/RS/LS/TS/TN</td>
<td>30S</td>
<td>ANSI Z21.88/CSA 2.22-2018</td>
<td>Natural Gas</td>
<td>4x6 co-axial direct vent pipe</td>
</tr>
<tr>
<td>60 75</td>
<td>Clear 60x80 F/TN Clear 75 F/RS/LS/TS/TN Space Creator 75 Clear 75x65 F/TN Clear 75x65H F/TN</td>
<td>45S</td>
<td>ANSI Z21.88/CSA 2.22-2018</td>
<td>Natural Gas</td>
<td>4x6 co-axial direct vent pipe</td>
</tr>
<tr>
<td>TR 90 TR 110</td>
<td>Traditional 90 Traditional 110</td>
<td>45D</td>
<td>ANSI Z21.50/CSA 2.33-2016</td>
<td>Natural Gas (Propane is unavailable)</td>
<td>5x8 co-axial direct vent pipe</td>
</tr>
</tbody>
</table>

⚠️ NOTE: Vent pipe is not supplied by Ortal with the fireplace. Ortal fireplaces are certified to be used with and can be obtained from the following direct vent pipe manufacturers:

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Direct Vent Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olympia</td>
<td>Ventis</td>
</tr>
<tr>
<td>DuraVent</td>
<td>Direct Vent Pro</td>
</tr>
<tr>
<td>ICC</td>
<td>EXCELDirect</td>
</tr>
<tr>
<td>BMD</td>
<td>Pro-Form Direct Vent System</td>
</tr>
<tr>
<td>Selkirk</td>
<td>Direct-Temp System</td>
</tr>
</tbody>
</table>
Building Requirements

This section provides information, diagrams and recommendations related to mounting, minimum clearances, television installation and more.

Non-combustible materials may be installed on the fireplace face as long as the minimum clearances are maintained between the fireplace and the non-combustible material. Surrounding material is not allowed to transfer weight to the unit or be connected in any way to the unit, with the exception of 5/8 Type X drywall (or its equivalent) in a flush install. It may be fastened to the frame with 1” self-tapping drywall screws 16” on center, with a minimum of 2 ½” from the glass lip. It must not transfer weight to the fireplace or cover any portion of the removable glass panel or the control compartment. To ensure the safety and proper functioning of the fireplace, the minimum clearances (air space) to any building materials must be adhered to, as stipulated in the diagrams and instructions contained in this manual and found on our website.

Non-combustible Material

“Non-combustible material” is defined as material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or 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 ºC shall be considered non-combustible materials. An exception is made only for fire rated 5/8” Type X drywall UL authorized or equivalent. For the purposes outlined in this manual, 5/8” Type X drywall may be used as a non-combustible material. Fireplace-specific construction boards such as Promafour made by Promat are approved for use for added heat protection in place of 5/8” Type X drywall. This is not a requirement. The use of these materials does not reduce any of the listed clearances. These materials are not being used for fire protection. They are used for high K and R value. Do not use cement boards containing EPS beads.

Framing and Drywall

Fireplace chase may be framed with metal studs or wood studs. If framing with wood studs, at minimum the first 18” above the fireplace glass must be framed with steel studs. Wood framing must be covered completely with non-combustible material and have the gaps sealed with a non-combustible fire sealant. We recommend using 5/8” Type X drywall with a level 1 finish or its equivalent for the enclosure of the fireplace chase. The framing of the fireplace chase wall must be designed to carry the entire weight of the wall. Plan to include weight of other finish materials placed on the drywall.

Heat Release

A heat release is required for all built-in models. This allows for heat building up within the fireplace chase to be released back into the living space, helping to keep the fireplace wall cool. It must be located at the top of the fireplace chase and be placed within 6 inches (0-6”) of the fireplace chase ceiling (aka draft stop). It can be located on the front, sides or back of the fireplace chase, as long as it is being released into an interior space. The heat release cannot be vented outdoors as this would expose the fireplace to outdoor elements. A minimum air space is required per series.

<table>
<thead>
<tr>
<th>Fireplace Series</th>
<th>Horizontal Heat Release</th>
<th>Vertical Heat Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-130</td>
<td>Minimum 124 sq. in. of free air space</td>
<td>Minimum 160 sq. in. of free air space</td>
</tr>
<tr>
<td>150-200</td>
<td>Minimum 200 sq. in. of free air space</td>
<td>Minimum 260 sq. in. of free air space</td>
</tr>
<tr>
<td>250</td>
<td>Minimum 250 sq. in. of free air space</td>
<td>Minimum 325 sq. in. of free air space</td>
</tr>
</tbody>
</table>

These air space values are the minimum required; they can always be greater. The heat release can be in the form of (but not limited to) a ventilation grille (louver), gap, or reveal. If using a grille, make sure that the net free air space allowed in the louvered area is equal or greater than the minimum number of square inches required per unit. The interior area of the fireplace cavity (in square inches) can never be less than your required heat release size. The area of the fireplace cavity is determined by multiplying the cavity width by the cavity depth.
Horizontal Heat Release: Reveal or Gap

Screen Heat Barrier - Gap Heat Release

Double Glass Heat Barrier – Reveal Heat Release

Horizontal Heat Release: Ventilation Grille (Louver)

Screen Heat Barrier – Ventilation Grille (Louver)

Double Glass Heat Barrier – Ventilation Grille (Louver)
<table>
<thead>
<tr>
<th>Vertical Heat Release: Front Split</th>
<th>Vertical Heat Release: Full Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>The heat release is oriented vertically and split between the two sides.</td>
<td>The entire heat release is put on just one side of the fireplace cavity.</td>
</tr>
</tbody>
</table>

**Sprinkler Clearance to Heat Release**

In a situation where a sprinkler head is in close proximity to the heat release, the detail shown in the diagram below must be followed. The distance between the sprinkler head to the heat release opening cannot be less than 60 inches (linear length) from every point of the heat release opening.

**Air Intake**

An air intake is only required for double glass models. The air intake must be located at or below the level of the double glass fans. This allows for fresh air to be provided to the double glass fans. See the “Double Glass Requirements” section for details.

**Fireplace Legs**

All Ortal built-in fireplaces come standard with legs (with the exception of the Traditional, which does not have legs). These legs ensure that there is enough air flow under the fireplace for proper operation. The legs cannot be removed or altered.
Access Panel

An access panel is not required, but it is highly recommended for all built-in Ortal fireplaces (except the Traditional series*). It allows for access to the fireplace’s gas and electrical components for servicing.

Access Panel Size and Location Recommendations:
- Minimum of 10”x10” in size
- Located within 36” of the pilot (see “Gas Requirements and Setup” for diagram)

The size and location of the access panel may vary, but in all cases, it must allow the technician to comfortably access and service the fireplace’s gas and electrical components. These components are attached to the pilot on a flexible gas line and can be moved to any location within 36 inches of the pilot (which is located at the center front of the burner).

For ease of access, move the fireplace’s gas and electrical components as close to the access panel as possible. If there is any distance between the access panel and the gas and electrical components, it is recommended to increase the size of the access panel accordingly. Prior to installation, fireplace dealers/installers should work with their clients, project architects and/or interior designers to determine the best size and location of their access panel.

If an access panel cannot be incorporated, the alternative method of servicing the gas and electrical components would be through the firebox. This procedure requires removing the glass panel(s), taking out the interior design media, and lifting the grill, burner and bottom pressure release valve. This will increase service time and difficulty. An access panel is always preferred.

Fireplace dealers/installers are advised to consult with their clients regarding the advantages and disadvantages of each service option.

*Exception: The Traditional series has an access panel built in on the left side of the interior of the firebox and does not need an access panel incorporated into the firebox surroundings. This access panel is hidden under a removable decorative interior panel, and opens to the gas and electrical components, which have been built onto the left side of the unit. To access these components, remove heat barrier (screen or double glass), interior glass, and left decorative side panel, and access components through the access panel door. However, if a Traditional series fireplace is being power vented, a 12”x12” access panel is required for access to power vent control box under the fireplace. Please see the Ortal Power Vent Manual for details.
**Double Glass Requirements**

When installing a double glass Ortal fireplace, it is essential to maintain cool air flow between the glass panels and through the chase cavity. To maintain air flow between the glass panels and to allow cool room air to enter the chase cavity, an opening must be provided at or below the level of the double glass fans. This opening, called an air intake, needs to be made before closing the wall surface below the fireplace.

**Power Requirements**

Prepare a 110-volt 15-amp dedicated power line (2 gang outlet) to the access panel area (or near the burner area if an access panel isn’t available) to provide power for the double glass fans that circulate cooling air between the safety barrier glass panels and up through the chase.

The following diagrams show two options for constructing the chase cavity air intake when the fireplace is located on a platform. Please note that these drawings are not to scale. All fireplace drawings with correct dimensions are available on our website.

**Air Intake Requirements**

Each series has a minimum air intake size requirement:

<table>
<thead>
<tr>
<th>Fireplace Series</th>
<th>Air Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-130</td>
<td>Minimum 124 sq. in. of free air space</td>
</tr>
<tr>
<td>150-200</td>
<td>Minimum 200 sq. in. of free air space</td>
</tr>
<tr>
<td>250</td>
<td>Minimum 250 sq. in. of free air space</td>
</tr>
</tbody>
</table>

These air space values are the minimum required; they can always be greater. The air intake can be in the form of a ventilation grille (louver), gap, or toe kick. If using a grille, make sure that the net free airspace allowed in the louvered area is equal or greater than the minimum number of square inches required per unit.

The air intake is not required to be on the front wall of the fireplace. As long as the entire air intake is located at or below the level of the fans, it can be on the front, the back, or sides of the wall, or any combination thereof on an interior wall. An air intake cannot be on an exterior wall.
Air Intake for a Platform

LEGEND:

<table>
<thead>
<tr>
<th></th>
<th>Wood framing</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Non-combustible material" /></td>
<td>5/8&quot; Type X fire rated drywall (or equivalent)</td>
</tr>
<tr>
<td><img src="image2" alt="Combustible material" /></td>
<td>Metal framing</td>
</tr>
</tbody>
</table>

⚠️ The air flow area must be free from any obstruction to allow heat from the chase to be released.

⚠️ NOTE: Please refer to the section “Cavity (Chase) Construction Notes” for details on platform construction requirements.
Framing Diagrams

The following diagrams show framing dimensions in a flush application. A flush application is not the only permitted application. The fireplace may be recessed up to 4.5” into the wall. The fireplace may be framed with wood or metal framing. Refer to diagrams and values below and in the following pages for details.

Wood Framing
5/8” Type X Drywall is required on the interior (cladding the entire inner cavity/chase) and exterior of the wood framing. This provides heat protection for both the combustible framing and your finish material.

The first 18” above the top of the fireplace glass must be metal framing. This is the minimum and can be made larger.

Metal Framing
5/8” Type X Drywall is required on the exterior of the metal framing only. This provides heat protection for your finish material.

❗ NOTE: The leg height used for calculating the framing dimensions in the following diagrams is 9-13/16”, which will be standard leg height for both double glass and screen units starting March 2018 with serial #15275 (see page 13 for details on leg height). For framing diagrams for screen units with a leg height of 8-1/4” manufactured prior to March 2018, please visit our website.

⚠ IMPORTANT – Review the “General Clearance Requirements” section before framing to ensure all clearances are followed.
IMPORTANT – The air flow area must be free from any obstruction to allow heat from the chase to be released.

<table>
<thead>
<tr>
<th>Model</th>
<th>Framing</th>
<th>Dimension A</th>
<th>Dimension B</th>
<th>Dimension C</th>
<th>Dimension D</th>
<th>Dimension E</th>
</tr>
</thead>
<tbody>
<tr>
<td>40H70 F</td>
<td>Wood</td>
<td>61&quot;</td>
<td>25-7/8”</td>
<td>18-3/4”</td>
<td></td>
<td>19-3/4”</td>
</tr>
<tr>
<td>60x80 F</td>
<td>Wood</td>
<td>61”</td>
<td>30-5/8”</td>
<td>18-11/16”</td>
<td></td>
<td>18”</td>
</tr>
<tr>
<td>75x65 F</td>
<td>Wood</td>
<td>61”</td>
<td>39-9/16”</td>
<td>18-5/8”</td>
<td></td>
<td>22-1/16”</td>
</tr>
<tr>
<td>75 F</td>
<td>Wood</td>
<td>50-1/2”</td>
<td>38-15/16”</td>
<td>18-5/8”</td>
<td></td>
<td>22-1/16”</td>
</tr>
<tr>
<td>110 F</td>
<td>Wood</td>
<td>50-1/2”</td>
<td>53-1/8”</td>
<td>18-11/16”</td>
<td></td>
<td>22-3/8”</td>
</tr>
<tr>
<td>110H F</td>
<td>Wood</td>
<td>55-1/2”</td>
<td>53-1/8”</td>
<td>18-11/16”</td>
<td></td>
<td>19-1/2”</td>
</tr>
<tr>
<td>130 F</td>
<td>Wood</td>
<td>50-1/2”</td>
<td>59-13/16”</td>
<td>18-11/16”</td>
<td></td>
<td>22-3/8”</td>
</tr>
<tr>
<td>130H F</td>
<td>Wood</td>
<td>55-1/2”</td>
<td>59-13/16”</td>
<td>18-11/16”</td>
<td></td>
<td>19-1/2”</td>
</tr>
<tr>
<td>150 F</td>
<td>Wood</td>
<td>50-1/2”</td>
<td>69-11/16”</td>
<td>18-11/16”</td>
<td></td>
<td>22-3/8”</td>
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Refer to pipe manufacturer’s firestop dimensions

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### Metal Framing

![Diagram of metal framing]

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Three Side (TS) Framing Diagram

**Wood Framing**

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<td>55-1/2&quot;</td>
<td>102-7/16&quot;</td>
<td>22-7/8&quot;</td>
<td>18-1/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**IMPORTANT** – The air flow area must be free from any obstruction to allow heat from the chase to be released.

**IMPORTANT** – Review “Clearance & Finish Diagrams” section prior to framing to ensure all clearances are followed.
Metal Framing

**NOTE:** Use Wood framing values for installations with TV or artwork over the fireplace.

<table>
<thead>
<tr>
<th>Model</th>
<th>Framing</th>
<th>Dimension A</th>
<th>Dimension B</th>
<th>Dimension C</th>
<th>Dimension D</th>
</tr>
</thead>
<tbody>
<tr>
<td>40H70 TS</td>
<td>Metal</td>
<td>42-1/2&quot;</td>
<td>22-5/16&quot;</td>
<td>18-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>75 TS</td>
<td>Metal</td>
<td>32-1/2&quot;</td>
<td>33-9/16&quot;</td>
<td>20-1/16&quot;</td>
<td></td>
</tr>
<tr>
<td>110 TS</td>
<td>Metal</td>
<td>30-1/2&quot;</td>
<td>48-15/16&quot;</td>
<td>20-9/16</td>
<td></td>
</tr>
<tr>
<td>110H TS</td>
<td>Metal</td>
<td>38&quot;</td>
<td>48-15/16&quot;</td>
<td>22-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>130 TS</td>
<td>Metal</td>
<td>30-1/2&quot;</td>
<td>55-5/8&quot;</td>
<td>20-9/16</td>
<td></td>
</tr>
<tr>
<td>130H TS</td>
<td>Metal</td>
<td>38&quot;</td>
<td>55-5/8&quot;</td>
<td>22-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>150 TS</td>
<td>Metal</td>
<td>30-1/2&quot;</td>
<td>65-7/16&quot;</td>
<td>20-9/16</td>
<td></td>
</tr>
<tr>
<td>150H TS</td>
<td>Metal</td>
<td>38&quot;</td>
<td>65-7/16&quot;</td>
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<tr>
<td>170 TS</td>
<td>Metal</td>
<td>30-1/2&quot;</td>
<td>73-5/16&quot;</td>
<td>20-9/16</td>
<td></td>
</tr>
<tr>
<td>170H TS</td>
<td>Metal</td>
<td>38&quot;</td>
<td>73-5/16&quot;</td>
<td>22-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>200 TS</td>
<td>Metal</td>
<td>30-1/2&quot;</td>
<td>82-3/4&quot;</td>
<td>20-9/16</td>
<td></td>
</tr>
<tr>
<td>200H TS</td>
<td>Metal</td>
<td>38&quot;</td>
<td>82-3/4&quot;</td>
<td>22-1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>250 TS</td>
<td>Metal</td>
<td>30-1/2&quot;</td>
<td>102-7/16&quot;</td>
<td>20-9/16</td>
<td></td>
</tr>
<tr>
<td>250H TS</td>
<td>Metal</td>
<td>38&quot;</td>
<td>102-7/16&quot;</td>
<td>22-1/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**IMPORTANT** – The airflow area must be free from any obstruction to allow heat from the chase to be released.

**IMPORTANT** – Review “Clearance & Finish Diagrams” section prior to framing to ensure all clearances are followed.
### Space Creator (SC) Framing Diagram

#### Wood Framing

![Wood Framing Diagram]

<table>
<thead>
<tr>
<th>Model</th>
<th>Framing</th>
<th>Dimension A</th>
<th>Dimension B</th>
<th>Dimension C</th>
<th>Dimension D</th>
<th>Dimension E</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 75</td>
<td>Wood</td>
<td>50-1/2&quot;</td>
<td>37-15/16&quot;</td>
<td>19-3/8&quot;</td>
<td>Refer to pipe manufacturer’s firestop dimensions</td>
<td>19&quot;</td>
</tr>
<tr>
<td>SC 120</td>
<td>Wood</td>
<td>50-1/2&quot;</td>
<td>57-5/16&quot;</td>
<td>19-3/8&quot;</td>
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<td>18-1/4&quot;</td>
</tr>
<tr>
<td>SC 150</td>
<td>Wood</td>
<td>50-1/2&quot;</td>
<td>69-3/16&quot;</td>
<td>19-3/8&quot;</td>
<td></td>
<td>18-1/4&quot;</td>
</tr>
<tr>
<td>SC 200</td>
<td>Wood</td>
<td>50-1/2&quot;</td>
<td>89-1/4&quot;</td>
<td>19-3/8&quot;</td>
<td></td>
<td>18-1/4&quot;</td>
</tr>
</tbody>
</table>

⚠️ **IMPORTANT** – The air flow area must be free from any obstruction to allow heat from the chase to be released.

⚠️ **IMPORTANT** – Review “Clearance & Finish Diagrams” section prior to framing to ensure all clearances are followed.
**NOTE:** Use Wood framing values for installations with TV or artwork over the fireplace.

<table>
<thead>
<tr>
<th>Model</th>
<th>Framing</th>
<th>Dimension A</th>
<th>Dimension B</th>
<th>Dimension C</th>
<th>Dimension D</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 75</td>
<td>Metal</td>
<td>32”</td>
<td>37-5/16”</td>
<td>19-3/8”</td>
<td>Refer to pipe manufacturer’s firestop dimensions</td>
</tr>
<tr>
<td>SC 120</td>
<td>Metal</td>
<td>32-1/2”</td>
<td>56-11/16”</td>
<td>19-3/8”</td>
<td></td>
</tr>
<tr>
<td>SC 150</td>
<td>Metal</td>
<td>32-1/2”</td>
<td>68-9/16”</td>
<td>19-3/8”</td>
<td></td>
</tr>
<tr>
<td>SC 200</td>
<td>Metal</td>
<td>32-1/2”</td>
<td>88-5/8”</td>
<td>19-3/8”</td>
<td></td>
</tr>
</tbody>
</table>

**IMPORTANT** – The air flow area must be free from any obstruction to allow heat from the chase to be released.

**IMPORTANT** – Review “Clearance & Finish Diagrams” section prior to framing to ensure all clearances are followed.
Clearance & Finish Diagrams

General Clearance Requirements
Maintain clearances as shown in the figures below. Clearances are to non-combustible materials, or 5/8” Type X drywall or its equivalent.

- FRONT (F) & TRADITIONAL (TR)
- TUNNEL (TN)
- LEFT SIDE (LS)
- RIGHT SIDE (RS)
- SPACE CREATOR (SC)
- THREE SIDES (TS)
Fireplace Recess/Overhang
A recessed fireplace cannot be have a top overhang deeper than 4-1/2” (including finish materials). This restriction applies to all glass sides in multisided units as well.

Framing Clearance
Maintain ¼” of space between your framing and the firebox.

Air Flow Clearance
It is critical a 4” air space from the top of the fireplace is maintained. Do NOT put framing or any building material in this area. Doing so will block the air vents on the fireplace and cause the entire surrounding to overheat.

⚠️ IMPORTANT – The air flow area must be free from any obstruction to allow heat from the chase to be released.

⚠️ NOTE: Current framing drawings and dimensions for each model can also be found on our website.
**Minimum Firebox Clearances Diagram**

The following diagram shows the minimum clearances to the sides and back of any built-in Ortal fireplace.

---

**LEGEND:**

- ![Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)](image)
- ![Wood framing](image)
- ![Combustible material](image)
- ![Metal framing](image)

**NOTES:**

- The clearances mentioned in the diagrams on the immediately previous page apply to the front of the firebox.
- The 12” clearance spans from the top of the fireplace viewing area to the bottom of the framing.
- The 9-13/16” clearance spans from the bottom of the legs to the bottom of the fireplace viewing area. Legs are not removable or adjustable.
- While not shown in this diagram, a heat release is required for all built-in Ortal fireplaces (see section labeled “Heat Release” details). An air intake is also required for all built-in Ortal fireplaces with the double glass heat barrier (see section labeled “Air Intake” details).
- No building material is permitted to touch the vent pipe. Only tested, listed and approved components are permitted to touch the pipe.
Clearance to Combustibles
Furniture and other combustibles are not permitted within 36” of the fireplace glass. The diagram below shows a Three Side model as an example.

Combustible Clearance Diagram (Plan View)

Inside Corner Clearances
The diagram below shows inside corner options. No combustible material should be placed within the dimensions shown. This diagram only applies if there is a wall on one or both sides of the fireplace.

The finish materials within dimensions shown must be non-combustible.
Television/Art Installation

Ortal’s Cool Wall Technology is a technique that reduces the heat from the glass and the firebox and prevents heat buildup, mitigating any damage that may result from high heat temperatures. Ortal’s Cool Wall system enables the option of installing artwork, a TV, or other similar electronic components above the fireplace:

<table>
<thead>
<tr>
<th>Location</th>
<th>Wall Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6” above fireplace</td>
<td>100°F - 120°F</td>
</tr>
<tr>
<td>6-12” above fireplace</td>
<td>90°F - 100°F</td>
</tr>
<tr>
<td>12” above fireplace</td>
<td>80°F - 90°F</td>
</tr>
</tbody>
</table>

Required minimum clearance between bottom edge of TV or other similar device or artwork and top of fireplace opening is 12”.

TV and Art Mounting Requirements

Ortal requires the following general guidelines to mount a TV or artwork above the fireplace and prevent heat damage:

- Mount the TV or artwork a minimum of 12 inches above the top opening of the firebox.
- Line the interior and exterior of your framing with fire rated 5/8 Type X drywall (or equivalent), regardless of your framing material (wood studs vs. metal studs).

The following recommendation will further mitigate heat impact to electronics and artwork, but is not a requirement:

- Use mineral wool insulation in the air space between Type X drywall layers.

The decision to install a television above an Ortal fireplace is up to the discretion of the consumer. TV and art manufacturers may specify in their instructions that the product should not be installed on, near or above a heat source. Ortal will not be held liable for any adverse effects on a TV, artwork or other equipment located near the Ortal fireplace. It is the customer’s responsibility to verify that their TV or artwork can withstand the wall temperatures as outlined in the previous wall temperature chart.

The drawings in the following sections can be used as a guide for customers who do decide to locate their TV and artwork above their Ortal fireplace. These drawings illustrate ways of reducing the amount of heat impact to the area surrounding the fireplace.

Wiring

When running wires for electronics (such as a TV) through the fireplace chase, it is recommended to wrap wires in a thermal insulating wrap (R-6) as shown in diagram below:

⚠️ WARNING – Be sure to disconnect the power supply before servicing any electrical components.
TV Detail for a Flush Fireplace and Mounted TV

LEGEND:

- Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)
- Wood framing
- Combustible material
- Metal framing

⚠️ The air flow area must be free from any obstruction to allow heat from the chase to be released.
TV Detail for a Recessed Fireplace and Recessed TV

LEGEND:

- Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)
- Wood framing
- Combustible material
- Metal framing

⚠️ The air flow area must be free from any obstruction to allow heat from the chase to be released.

⚠️ NOTE: TV may be in the same plane as the wall above the fireplace.
Finish Diagrams
The following diagrams show various finish applications.

**Non-Combustible (Stone) Finish**

- Backer board
- Stone
- Mortar

LEGEND:

<table>
<thead>
<tr>
<th>Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)</th>
<th>Wood framing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combustible material</td>
<td>Metal framing</td>
</tr>
</tbody>
</table>

⚠️ The air flow area must be free from any obstruction to allow heat from the chase to be released.

⚠️ **NOTES:**
- For manufactured stone products, a minimum 2” recess is recommended. The clearance requirements will be determined by the stone manufacturer. Natural stone finishes do not require a recessed application and may be flush with the fireplace.
- Only your Type X or equivalent material (like backer board) is permitted to touch the unit.
Non-Combustible (Stone) Finish with Non-combustible Hearth Extension

LEGEND:

| Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent) | Wood framing |
| Combustible material | Metal framing |

⚠️ The air flow area must be free from any obstruction to allow heat from the chase to be released.

⚠️ NOTES:
- For manufactured stone products, a minimum 2” recess is recommended. The clearance requirements will be determined by the stone manufacturer. Natural stone finishes do not require a recessed application and may be flush with the fireplace.
- Only your Type X or equivalent material (like backer board) is permitted to touch the unit.

⚠️ HEARTH EXTENSION NOTES:
- The framing must maintain a ¼” clearance to the firebox
- The finish must maintain at least a 1/8” clearance to the firebox.
- Don’t frame or finish above the bottom lip of the firebox (otherwise the fireplace glass cannot be removed).
Brick Veneer Finish

**LEGEND:**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🪧</td>
<td>Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)</td>
<td>🪧</td>
<td>Wood framing</td>
</tr>
<tr>
<td>🪧</td>
<td>Combustible material</td>
<td>🪧</td>
<td>Metal framing</td>
</tr>
</tbody>
</table>

**NOTES:**

- A recessed application is not required. Brick Veneer may be installed flush to the fireplace.
- Only your Type X or equivalent material (like backer board) is permitted to touch the unit.
Recessed Combustible (Wood) Finish

Legend

- 5/8" Type X fire rated drywall
- Non-Combustible (min 1/4" thick)
- Wood Finish

⚠️ NOTE: Non-combustible plate goes around the entire fireplace opening as a border.
Flush Combustible (Wood) Finish

LEGEND:

- Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)
- Wood framing
- Combustible material
- Metal framing

NOTE: Non-combustible trim goes around the entire fireplace opening as a border.
WOOD HEARTH EXTENSION

**WARNING** – Wood hearth extensions may dry out, crack, warp or become discolored.

**LEGEND:**

| Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent) | Wood framing |
| Combustible material | Metal framing |

**WARNING** The air flow area must be free from any obstruction to allow heat from the chase to be released.

**NOTES:**

- A hearth extension is not required for any Ortal fireplaces, but it can be used as a design feature.
- A hearth extension and/or non-combustible hearth zone is not required for the Ortal Traditional series. The Traditional series may sit flush to any surface other than carpet without a non-combustible hearth zone.
- This 2” clearance also applies to a wood floor.
**Mantel Diagrams**

A mantel is not required for any Ortal fireplaces but may be incorporated as a design feature. The following diagrams show how to safely design a mantel above your Ortal fireplace.

**Mantel Detail for a Recess and Flush Application**

![Mantel Diagrams](image)

**NOTE**: Mantel can be combustible or non-combustible material.

**LEGEND:**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Non-combustible" /></td>
<td>Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)</td>
<td><img src="image" alt="Wood framing" /></td>
<td>Wood framing</td>
</tr>
<tr>
<td><img src="image" alt="Combustible" /></td>
<td>Combustible material</td>
<td><img src="image" alt="Metal framing" /></td>
<td>Metal framing</td>
</tr>
</tbody>
</table>

⚠️ The air flow area must be free from any obstruction to allow heat from the chase to be released.
Mantel Surround Detail

Refer to diagram below for clearance requirements for a mantel surround.

![Diagram of mantel surround with notes]

**NOTE:** If your mantel legs are deeper than 2”, you must provide a 1” clearance around the opening of the fireplace for every additional inch of depth.

**LEGEND:**

- ![Non-combustible material such as 5/8” Type X fire rated drywall (or equivalent)]
- ![Wood framing](image)
- ![Section Cut](image)
- ![Metal framing](image)

⚠️ The air flow area must be free from any obstruction to allow heat from the chase to be released.
Ledge (Shelf) Detail

A ledge over the top of a fireplace that is less than 24” (48” for Traditional) from the top of the fireplace glass may require a heat release on top of the ledge if the surface area of the ledge exceeds the maximum allowable surface area as listed in the following table.

<table>
<thead>
<tr>
<th>Fireplace Series</th>
<th>Maximum Ledge Surface Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>A x B ≤ 220 sq. in.</td>
</tr>
<tr>
<td>90-130</td>
<td>A x B ≤ 340 sq. in.</td>
</tr>
<tr>
<td>150-170</td>
<td>A x B ≤ 410 sq. in.</td>
</tr>
<tr>
<td>200</td>
<td>A x B ≤ 520 sq. in.</td>
</tr>
<tr>
<td>250</td>
<td>A x B ≤ 580 sq. in.</td>
</tr>
</tbody>
</table>

If your ledge exceeds the maximum allowable surface area, you will need to divide your heat release between the ledge and the chase ceiling: 25% in the ledge and 75% in the chase, as pictured in the following diagram (showing a Space Creator model as an example):

*Note: entire shelf must be non-combustible.*

**NOTE**: Two layers of 5/8” Type X Drywall (or its equivalent) below the ledge will help keep the surface temperature down.
**Chase Area Minimums**

No part of the fireplace chase can have a smaller area than the required heat release size for your model (in square inches). See the section “Heat Release” to find your model’s minimum required heat release size.

To determine your chase size:

\[
X = (L \times W) - (\pi r^2)
\]

Where:
- \(X\) = total chase area (in square inches)
- \(L\) = chase length
- \(W\) = chase width
- \(\pi r^2\) = the area of your pipe
  - \(\pi \approx 3.14156\) (a universal constant used when determining the area of a circle)
  - \(r\) = the radius of your pipe (which is half of the diameter)

The size of the smallest part your chase should not be less than the size of your required heat release.

If your heat release is split into 25/75 portions due to an oversized ledge, your chase only needs to be the size of 75% of your heat release because 25% of the heat is already being released at the ledge (see the section “Ledge (Shelf) Detail” for more information).
Diagram for Structural Weight Support

Ortal fireplaces must not carry any structural weight. The framing must be supported by another surface. Please consult with your structural engineer and refer to your local building codes for proper wall support.

The following drawing shows a recommended approach to this type of installation. Please note that this drawing is not to scale. All fireplace drawings with correct dimensions are available on our website.
Gas Requirements & Setup

Ortal fireplaces are sealed direct vent systems that can operate with natural gas (NG) or propane (LP). The following sections present detailed information about gas routing, pressures, and more.

Routing the Gas Line
Correctly size and route the gas supply line from the supply regulator to the area where the access panel is located (or to the burner area if no access panel is available – see diagram below), as per the requirements outlined in the latest edition of the National Fuel Gas Code, NFPA 54 (USA) or CAN/CSA-B1491 (Canada).

The gas and electrical components for all built-in models (except the Traditional series) are attached to the pilot on a flexible gas line and can be moved to any location within 36 inches of the pilot (which is located at the center front of the burner). Gas line should be routed to the access panel area (see “Access Panel” section for details). If no access panel is planned, gas line should be routed to most accessible area within 36 inches of the pilot.

A gas shut-off valve and a 12” gas flex connector are provided with every Ortal fireplace. The location of the gas shut-off valve is dependent on local codes and requirements. Check with your authority having jurisdiction for more information.

⚠️ WARNING – The main gas valve must be installed to allow complete disconnection of the fireplace from the gas supply piping system for servicing purposes.
Routing the Gas Line for Traditional Series

The gas and electrical components on a Traditional series fireplace are located in a control box on the left side of the fireplace.

This control box houses the gas valve, a single gang outlet, and the electrical receiver. Route the gas line through cut out in the upper left side of the control box according to local codes and requirements. Check with your authority having jurisdiction for more information.

A gas shut-off valve and a 12” gas flex connector are provided with every fireplace. The location of the gas shut-off valve is dependent on local codes and requirements. Check with your authority having jurisdiction for more information.
### Gas Pressure and Heat Input Charts

<table>
<thead>
<tr>
<th>Fireplace Series</th>
<th>Burner</th>
<th>Electrical Requirements</th>
<th>Gas Type</th>
<th>Inlet Pressure (Inch W.C.)</th>
<th>Manifold Pressure (Inch W.C.)</th>
<th>Heat Input (BTU/hr)</th>
<th>Orifice Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>30S</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>3.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Propane</td>
<td>11.0</td>
<td>13.0</td>
<td>0.9</td>
<td>10.9</td>
</tr>
<tr>
<td>60 75</td>
<td>45S</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>4.7</td>
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<td></td>
<td></td>
<td></td>
<td>Propane</td>
<td>11.0</td>
<td>13.0</td>
<td>0.9</td>
<td>9.5</td>
</tr>
<tr>
<td>Curve TR 90 TR 110</td>
<td>45D</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>5.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Propane</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>70S</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>4.0</td>
</tr>
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<td></td>
<td></td>
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<td>13.0</td>
<td>0.9</td>
<td>6.5</td>
</tr>
<tr>
<td>110 120 130</td>
<td>100S</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>5.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Propane</td>
<td>11.0</td>
<td>13.0</td>
<td>4.9</td>
<td>10.0</td>
</tr>
<tr>
<td>140 150 170</td>
<td>135S</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Propane</td>
<td>11.0</td>
<td>13.0</td>
<td>4.4</td>
<td>9.5</td>
</tr>
<tr>
<td>200</td>
<td>160S</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Propane</td>
<td>11.0</td>
<td>13.0</td>
<td>0.9</td>
<td>10.0</td>
</tr>
<tr>
<td>250</td>
<td>180S</td>
<td>Dedicated Outlet: 120v 15-amp 60hz OR Battery: AA X 4</td>
<td>Natural Gas</td>
<td>5.0</td>
<td>10.0</td>
<td>0.9</td>
<td>4.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Propane</td>
<td>11.0</td>
<td>13.0</td>
<td>0.9</td>
<td>9.0</td>
</tr>
</tbody>
</table>

### High Altitude Gas Requirement

For elevations above 2,000 feet, fireplace shall be re-rated 4% for each 1,000 feet above sea level.
Gas Control Assemblies and Components

Assemblies and components are listed and described in the tables following the figure.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D23</td>
<td>Orifice LPG</td>
</tr>
<tr>
<td>D36</td>
<td>Orifice NG</td>
</tr>
<tr>
<td>G02</td>
<td>Mertik Gas Valve</td>
</tr>
<tr>
<td>G301</td>
<td>Symax Receiver</td>
</tr>
<tr>
<td>G202</td>
<td>Symax Wi-Fi Box</td>
</tr>
<tr>
<td>G203</td>
<td>Symax Wi-Fi Box Cable</td>
</tr>
<tr>
<td>G07</td>
<td>Thermocouple Block</td>
</tr>
<tr>
<td>G09</td>
<td>Wire Harness for Receiver and Gas Valve</td>
</tr>
<tr>
<td>G10</td>
<td>Switch w. cables 180/500 mm</td>
</tr>
<tr>
<td>G11</td>
<td>Spark Wire</td>
</tr>
<tr>
<td>G12</td>
<td>Pilot Wire</td>
</tr>
<tr>
<td>G75</td>
<td>Thermocouple NG</td>
</tr>
<tr>
<td>G14</td>
<td>Thermocouple LPG</td>
</tr>
<tr>
<td>G13</td>
<td>Electrode Target Type</td>
</tr>
<tr>
<td>G121</td>
<td>Main Burner Gas Fitting</td>
</tr>
<tr>
<td>G25</td>
<td>Burner Gas Tube</td>
</tr>
<tr>
<td>G19</td>
<td>Pilot Gas Tube</td>
</tr>
<tr>
<td>G34</td>
<td>Spark Plug Connector</td>
</tr>
<tr>
<td>G35</td>
<td>Thermocouple Connector</td>
</tr>
<tr>
<td>G36</td>
<td>OLIVE D.4 Pilot gas tube compression ring valve</td>
</tr>
<tr>
<td>G37</td>
<td>Pilot gas tube fitting burner side</td>
</tr>
<tr>
<td>G38</td>
<td>Pilot Assembly Gasket</td>
</tr>
<tr>
<td>G45</td>
<td>Red Cable</td>
</tr>
<tr>
<td>G47</td>
<td>Fitting for main line inlet to gas valve GV60</td>
</tr>
<tr>
<td>G58</td>
<td>Connection fitting 4mm One-piece</td>
</tr>
</tbody>
</table>

The manufacturer of Ortal’s gas and electrical components is Mertik Maxitrol. For information on these components, please visit the manufacturer’s website: www.mertikmaxitrol.com
**Gas Conversion**
Gas conversion (NG to LP or LP to NG) can be done in the field. Gas conversion can be performed only by technicians who have specific authorization by Ortal to change these components. The conversion kit must be supplied by Ortal. Using parts from other manufacturers or having an unauthorized party performing the conversion will void your fireplace’s warranty.

**Pilot Inspection**
The burner comes complete with all necessary parts assembled, including the air shutter, pilot orifice, pilot hood, thermocouple and spark plug. The parts are pre-set for the specific gas type (natural gas or propane), and no field adjustments are necessary at sea level. Elevations over sea level may require adjustments. During start up and service, the pilot and its accessories must be inspected for cleanliness and completeness. Do NOT disassemble the components. The green pilot gasket must be replaced anytime the assembly is unscrewed.

**Pilot Maintenance**
- Remove the media and vacuum all debris from the firebox, burner and grill area at least once a year (quarterly for commercial installations).
- Visually inspect the pilot flame. The appearance should be candle-like with blue and yellow coloring. The pilot flame has two distinct flames. One engulfs the thermocouple, and the other reaches the main burner. Both flames must be present.
- The area around the pilot orifice should be inspected. Any foreign material must be removed with a brush or vacuum.

![Pictured: Pilot Components (left to right: pilot, spark plug, thermocouple)](image)

⚠️ **WARNING** – For safety reasons, always be present when the fireplace is in operation.

**Thermocouple Maintenance**
Thermocouple integrity and operation must be checked. The service technician needs to confirm that the thermocouple is in place and is not cracked or damaged.
Electrical Guidelines

⚠️ WARNING – Be sure to disconnect the power supply before servicing any electrical components.

Electrical Requirements
With the exception of the Traditional series, a single gang outlet (120v 15-amp 60hz) must be provided in the location where the gas and electrical components will be placed, which must be within 36” of the pilot (see diagram in “Gas Requirements and Setup” for visual). An AC Adapter is provided with all Ortal fireplaces to connect the electrical receiver to the outlet. Electrical work should be done by a qualified licensed electrician, per local code.

Electrical Requirements for Traditional Series
The gas and electrical components on a Traditional series Ortal fireplace are located in a control box on the left side of the fireplace where a single gang outlet (120v 15-amp 60hz) is provided. See the section labelled “Routing the Gas Line for Traditional Series” for a visual. Electricity must be supplied to this outlet by a qualified licensed electrician, per local code. An AC Adapter is provided with all Ortal fireplaces to connect the electrical receiver to the outlet.

TV/Electronics Electrical Wires
When running wires for electronics (such as a TV) through the fireplace chase, it is recommended to wrap wires in a thermal insulating wrap (R-6) as shown in diagram below:
→ Wiring Diagrams
The following diagrams show the electrical wiring required for different feature combinations.

**Screen Fireplace**

**Screen Fireplace with Lights**
Screen Fireplace with Ortal Power Vent
Screen Fireplace with Ortal Power Vent and Lights
Double Glass Fireplace with Lights
Double Glass Fireplace with Ortal Power Vent
Smart Home System Wiring Information

The following wiring diagram is for incorporating fireplace control into a Smart Home System, taken from the Mertik Maxitrol operation guide:

---

**MERTIK MAXITROL®**

gV60 Remote electronic ignition and Control system external source operation

**Contact Options/Operation**

**WARNING**

Fire or explosion hazard. Attempted disassembly or re-pair of controls can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

Read these instructions carefully and completely before installing or operating. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. Service and installation must be performed by a trained/experienced service technician. The Mertik Maxitrol product should not be operated until it has been inspected and approved by the local code authority.

**What to do if you smell gas:**

- Do not operate any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately evacuate the area and contact the gas supplier. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.
- Do NOT use this product if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart.
- Do NOT use a product if you suspect it has been under water or that liquid has seeped into the product. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.
- Do not store or use gasoline or other flammable vapors and liquids near this control or other appliances.
- Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, DO NOT try to repair it. Call a qualified service technician. Force or attempted repair can result in a fire or explosion.

**Description**

The gV60 will operate through an external source, such as a home automation system, by using the 5-wire pin connector on the receiver. A 1000 mm cable with the 2510-Z connector (part number G60-2510-Z/1000) is available. The overall length of the cable should not exceed 8 m. Signal relays (gold contacts) or opto-couplers are recommended.

**WARNING**

It is the appliance manufacturer's responsibility to fully disclose any operation from a remote source that will create an unsafe operating condition. For Europe see GADAC guidance sheet B12.

---

**Possible modes of Operation**

**Mode 1**

The external source provides ON and OFF operation only. The Timer/Thermostat handset provides all other functions.

**NOTICE**

The Timer/Thermostat handset in Thermostatic Mode controls the room temperature even if the fire is turned on by the external source. If the handset is in Manual Mode, the fire will go to High Fire in the next cycle of external operation.

**Mode 2**

The external source controls the room temperature. The Timer/Thermostat handset must be set to Manual Mode (or use a standard handset). If the Timer/Thermostat handset is set to Thermostatic Mode, it will override the external source.

**NOTICE**

Frequent ON/OFF cycles will limit the life expectancy of the valve and will increase the battery consumption. The AC Mains Adapter may be used instead of batteries.
Vent System Information

General Pipe Requirements & Certified Pipe Manufacturers

Ortal fireplaces operate using a direct vent system and require a co-axial direct vent pipe. The fireplace must be properly connected to an approved vent system. Pipe is not provided with the fireplace and must be sourced from a direct vent pipe manufacturer that has been certified to be used with Ortal fireplaces.

<table>
<thead>
<tr>
<th>Fireplace Series</th>
<th>Vent Type</th>
<th>Required Pipe Size</th>
<th>Approved Pipe Manufacturer</th>
</tr>
</thead>
</table>
| 40 60 75         | Direct Vent              | 4x6 co-axial direct vent pipe (4-inch interior, 6-5/8-inch exterior) | Olympia: Ventis  
|                  | Enervex Power Vent*      |                                                              | DuraVent: Direct Vent Pro  
|                  |                          |                                                              | ICC: EXCELDirect  
|                  |                          |                                                              | BDM: Pro-Form Direct Vent System  
|                  |                          |                                                              | Selkirk: Direct-Temp System  
|                  | Ortal Power Vent*        | 3x5 co-axial direct vent pipe (3-inch interior, 5-inch exterior) | DuraVent: CVS line.  
| 90 110 120 130 150 170 200 250 | Direct Vent              | 5x8 co-axial direct vent pipe (5-inch interior, 8-inch exterior) | Olympia: Ventis  
|                  | Enervex Power Vent*      |                                                              | DuraVent: Direct Vent Pro  
|                  |                          |                                                              | ICC: EXCELDirect  
|                  |                          |                                                              | BDM: Pro-Form Direct Vent System  
|                  |                          |                                                              | Selkirk: Direct-Temp System  
|                  | Ortal Power Vent*        | 3x5 co-axial direct vent pipe (3-inch interior, 5-inch exterior) | DuraVent: CVS line.  

*Power Vent: a fan-assisted direct vent system that boosts air flow for vent runs with too much constriction. “Venting Diagrams” section to determine if your fireplace needs a power vent.

Proper installation, use and maintenance of pipe is determined by and can be acquired from the vent pipe manufacturer.

⚠️ NOTE: See the Ortal Power Vent Manual for more details on Power Venting.

⚠️ WARNING – Do NOT combine vent components from different pipe manufacturers. Please follow the manufacturer’s instructions for vent system installation.

Venting Requirements

When installing the venting, follow all instructions of the venting system manufacturer. For vertical and horizontal distances, refer to the charts in the Venting Diagrams section. Maintain all clearances specified in Vent Installation Clearances specified on the following pages. Alternatively, follow the vent system manufacturer’s instructions, provided they meet local code.

Venting Installation and Clearances

The first section of venting must be secured to the starter with a minimum of 3 sheet metal screws no longer than ½”. DO NOT use silicone to seal the sections. If sealing is required by the venting manufacturer or local code, use Mil-Pac sealant.

When installing the venting, be sure that the vent pipe is supported by the structural surrounding and not by the firebox. Secure the vent connection to the fireplace with a minimum of 3 self-tapping screws. Each elbow should be strapped to reduce movement or possible disconnection. Follow the installation instructions of the vent system manufacturer.
Vent Pipe Clearances

The following clearances apply to all pipe regardless of which pipe manufacturer is used.

<table>
<thead>
<tr>
<th>→ Vent Pipe Clearances</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sides:</strong> 1”</td>
</tr>
<tr>
<td>Applies to entire circumference when pipe is oriented vertically. Clearance is to <em>any</em> material.</td>
</tr>
<tr>
<td><strong>Top:</strong> 3”</td>
</tr>
<tr>
<td>Applies to pipe oriented horizontally or at an angle. Clearance is to <em>any</em> material.</td>
</tr>
<tr>
<td><strong>Bottom:</strong> 1”</td>
</tr>
</tbody>
</table>

Minimum Vertical Rise (A)

| Series 40-170 | 3 ft | Required from the top of the fireplace before any offset may be used. |
| Series 200-250 | 6 ft | *See exception below.* |

*Exception:* Two 45° offsets may be used before any vertical rise with up to a 12” section between them. The V minimum starts above them. They do not count in elbow totals.

Venting Diagrams

The following sections provide information for calculating venting run distances.

Offset (bends/elbows) Maximums

Up to 180° of offset may be used in your venting run. If your venting run exceeds this maximum, consider an Ortal Power Vent System, which can allow for up to 540° of offset. See the Ortal Power Vent Manual for details.

**Offset Maximum Exception:** Two 45° offsets may be used directly on the fireplace with up to a 12” section between them. The V minimum starts above them. They do not count in elbow totals.

**NOTE:** If your initial vertical rise off the top of the unit does not meet the V minimum, consider an Ortal Power Vent System, which can allow for any initial vertical rise amount. See the Ortal Power Vent Manual for details.
Use this diagram and tables below to calculate distances for venting runs that terminate horizontally.

### Horizontal Termination Venting Diagram

![Diagram of horizontal termination venting](image)

Use this diagram and tables below to calculate distances for venting runs that terminate horizontally.

<table>
<thead>
<tr>
<th>Series 40-75</th>
<th>SERIES 110-130</th>
<th>Series 150-170 &amp; Traditional</th>
<th>Series 200-250</th>
</tr>
</thead>
<tbody>
<tr>
<td>V minimum = 3 feet</td>
<td>V minimum = 3 feet</td>
<td>V minimum = 3 feet</td>
<td>V minimum = 6 feet</td>
</tr>
<tr>
<td>Vertical (V)</td>
<td>Max Horizontal (H)</td>
<td>Vertical (V)</td>
<td>Max Horizontal (H)</td>
</tr>
<tr>
<td>3 ft</td>
<td>21 ft</td>
<td>3 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>6 ft</td>
<td>24 ft</td>
<td>6 ft</td>
<td>18 ft</td>
</tr>
<tr>
<td>9 ft</td>
<td>24 ft</td>
<td>9 ft</td>
<td>24 ft</td>
</tr>
<tr>
<td>12 ft</td>
<td>24 ft</td>
<td>12 ft</td>
<td>21 ft</td>
</tr>
<tr>
<td>15 ft</td>
<td>24 ft</td>
<td>15 ft</td>
<td>21 ft</td>
</tr>
<tr>
<td>18 ft</td>
<td>21 ft</td>
<td>18 ft</td>
<td>18 ft</td>
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<tr>
<td>21 ft</td>
<td>18 ft</td>
<td>21 ft</td>
<td>15 ft</td>
</tr>
<tr>
<td>24 ft</td>
<td>15 ft</td>
<td>24 ft</td>
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<tr>
<td>27 ft</td>
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<td>12 ft</td>
</tr>
<tr>
<td>30 ft</td>
<td>12 ft</td>
<td>30 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>33 ft</td>
<td>12 ft</td>
<td>33 ft</td>
<td>12 ft</td>
</tr>
</tbody>
</table>

**NOTES:**
- It is no longer required to maintain ¼” of rise per foot of pipe.
- For venting runs that exceed these maximums, consider Ortal’s Power Vent System. See the Ortal Power Vent Manual for details.
**Vertical Termination Venting Diagram**

Use this diagram & tables below to calculate distances for venting runs that jog and terminate vertically.

<table>
<thead>
<tr>
<th>Series 40-75</th>
<th>SERIES 110-130</th>
<th>Series 150-170 &amp; Traditional</th>
<th>Series 200-250</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>V minimum = 3 feet</strong></td>
<td><strong>V minimum = 3 feet</strong></td>
<td><strong>V minimum = 3 feet</strong></td>
<td><strong>V minimum = 6 feet</strong></td>
</tr>
<tr>
<td><strong>V = V1 + V2</strong></td>
<td><strong>V = V1 + V2</strong></td>
<td><strong>V = V1 + V2</strong></td>
<td><strong>V = V1 + V2</strong></td>
</tr>
<tr>
<td><strong>Vertical (V)</strong></td>
<td><strong>Max Horizontal (H1)</strong></td>
<td><strong>Vertical (V)</strong></td>
<td><strong>Max Horizontal (H1)</strong></td>
</tr>
<tr>
<td>3 ft</td>
<td>15 ft</td>
<td>3 ft</td>
<td>6 ft</td>
</tr>
<tr>
<td>7 ft</td>
<td>18 ft</td>
<td>7 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>10 ft</td>
<td>18 ft</td>
<td>10 ft</td>
<td>12 ft</td>
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<tr>
<td>13 ft</td>
<td>18 ft</td>
<td>13 ft</td>
<td>12 ft</td>
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<tr>
<td>16 ft</td>
<td>18 ft</td>
<td>16 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>19 ft</td>
<td>15 ft</td>
<td>19 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>22 ft</td>
<td>12 ft</td>
<td>22 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>25 ft</td>
<td>9 ft</td>
<td>25 ft</td>
<td>9 ft</td>
</tr>
<tr>
<td>28 ft</td>
<td>6 ft</td>
<td>28 ft</td>
<td>9 ft</td>
</tr>
<tr>
<td>31 ft</td>
<td>6 ft</td>
<td>31 ft</td>
<td>6 ft</td>
</tr>
<tr>
<td>34 ft</td>
<td>6 ft</td>
<td>34 ft</td>
<td>6 ft</td>
</tr>
<tr>
<td><strong>Series 200-250</strong></td>
<td><strong>Series 150-170</strong></td>
<td><strong>Series 40-75</strong></td>
<td><strong>Series 110-130</strong></td>
</tr>
<tr>
<td><strong>V minimum = 6 feet</strong></td>
<td><strong>V minimum = 3 feet</strong></td>
<td><strong>V minimum = 3 feet</strong></td>
<td><strong>V minimum = 3 feet</strong></td>
</tr>
<tr>
<td><strong>V = V1 + V2</strong></td>
<td><strong>V = V1 + V2</strong></td>
<td><strong>V = V1 + V2</strong></td>
<td><strong>V = V1 + V2</strong></td>
</tr>
<tr>
<td><strong>Vertical (V)</strong></td>
<td><strong>Max Horizontal (H1)</strong></td>
<td><strong>Vertical (V)</strong></td>
<td><strong>Max Horizontal (H1)</strong></td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>3 ft</td>
<td>6 ft</td>
</tr>
<tr>
<td>6 ft</td>
<td>3 ft</td>
<td>7 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>10 ft</td>
<td>12 ft</td>
<td>10 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>13 ft</td>
<td>12 ft</td>
<td>13 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>16 ft</td>
<td>12 ft</td>
<td>16 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>19 ft</td>
<td>12 ft</td>
<td>19 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>22 ft</td>
<td>12 ft</td>
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<td>12 ft</td>
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<tr>
<td>25 ft</td>
<td>12 ft</td>
<td>25 ft</td>
<td>12 ft</td>
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<tr>
<td>28 ft</td>
<td>12 ft</td>
<td>28 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>31 ft</td>
<td>9 ft</td>
<td>31 ft</td>
<td>9 ft</td>
</tr>
<tr>
<td>34 ft</td>
<td>9 ft</td>
<td>34 ft</td>
<td>9 ft</td>
</tr>
</tbody>
</table>

**NOTES:**
- It is no longer required to maintain ¼” of rise per foot of pipe.
- For venting runs that exceed these maximums, consider Ortal’s Power Vent System. See the Ortal Power Vent Manual for details.
Vertical Termination Venting Diagram – Straight Vertical

<table>
<thead>
<tr>
<th>Series 40-250</th>
</tr>
</thead>
<tbody>
<tr>
<td>V minimum = 3 feet</td>
</tr>
<tr>
<td>Vertical (V)</td>
</tr>
<tr>
<td>42 ft</td>
</tr>
</tbody>
</table>

**NOTE:** For venting runs that exceed this maximum, consider Ortal’s Power Vent System. See the Ortal Power Vent Manual for details.

**Vent Restrictor Sizing Guidelines**

**SCENARIO A**
When you have vertical elbows of 45°, no additional length for the (H) calculation for the restrictor plate size is needed. For example:
Total height of duct work = 6 feet (V)
Length between the center of the two 45° elbows = (B) = 3 feet
The (H) calculation is (H) = (B) so the restrictor plate size is 1.97”, per the table.

**SCENARIO B**
If there are two 90° elbows in the vent system, an additional 6 feet must be added to the (H) calculation for the restrictor plate size. For example:
Total height of duct work = 18 feet (V)
Length between the center of two 90° elbows = (B) = 21 feet
The (H) calculation to be used in the restrictor table is (H) = (B) +6 feet, so the (H) length is 27 feet.
Per the table, the restrictor plate is 0. No restrictor is required.
SCENARIO C
The first 90° elbow is not taken into calculation of the (H) length for the restrictor plate size. For example:
Total height of duct work = 15 feet (V)
Length between the center of the 90° elbow and wall termination cap = (B) = 11 feet
The (H) calculation is (H) = (B) = 11. Therefore, the restrictor plate size is 1.18”, per the table.
The value of 11 does not appear on the x scale of the table. The choices are then 9 and 12. Always choose the next higher value, which is also the smaller restrictor if there is a difference between the values provided.

SCENARIO D
There are no 90° elbows or 45° angles. The venting is a straight vertical run. For example:
Total height of duct work = 24 feet (V)
The (H) calculation is = 0. Therefore, the restrictor plate size is 1.97”.

Restrictors and Vent Arrangement
The information and tables in this section will help you calculate the correct restrictor selection. The tables below show the options permitted for both vertical and horizontal positioning of the pipe and the required restrictor. Any venting pathway that does not appear in the tables requires approval from the manufacturer.
The tables below apply to both Natural Gas and Propane. The tables represent manufacturer’s guidelines. Environment gas type (NG vs. LP and the source of the gas) and other factors may affect the best restrictor choice.

The following symbols are used in the tables:
X: The path is not allowed.
0: There is no restriction.
Numbers other than zero: The number represents the width recommended for the size of restrictor.

NOTE: Space Creator models may require special restrictors. Traditional models do not require restrictors.

REMINDER:
Series 40-170: A minimum 3’ vertical run is required before any offset.
Series 200-250: A minimum 6’ vertical run is required before any 90° bends.
### Restrictor Table: Series 40

<table>
<thead>
<tr>
<th>Burner 30</th>
<th>V</th>
<th>27”</th>
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Ortal Installation Manual: Built-in Models, December 2019 (V2) 61
### Restrictor Table: Series 150-170

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<td>1.97”</td>
<td>1.57”</td>
<td>1.18”</td>
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<tr>
<td>9'</td>
<td>1.97”</td>
<td>1.97”</td>
<td>1.57”</td>
<td>1.18”</td>
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<tr>
<td>6'</td>
<td>1.97”</td>
<td>1.57”</td>
<td>1.57”</td>
<td>1.18”</td>
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<tr>
<td>3'</td>
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<tr>
<td>1.5' x</td>
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<td>x</td>
<td>x</td>
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<td>x</td>
</tr>
</tbody>
</table>
**CAUTION NOTE:** If exterior walls are finished with vinyl siding, it is **required** that a vinyl protector kit be installed.
WARNING

Fire Risk.
Maintain vent clearance to combustibles as specified.
- **DO NOT** pack air space with insulation or other materials.
Failure to keep insulation or other materials away from vent pipe may cause overheating and fire.

**NOTE:** This chart does not apply to a chimney shroud application. See Chimney Shroud Detail on the next page for more information.

**Vertical Termination Clearance Diagrams**

**Staggered Termination Caps**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 in. (minimum) up to 24 in.</td>
<td>18 in. minimum</td>
<td></td>
</tr>
<tr>
<td>24 in. and over</td>
<td>0 in. minimum</td>
<td></td>
</tr>
</tbody>
</table>

*If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.*

**Gas, Wood or Fuel Oil Termination Cap**

- **A**
- **B**

**Notes:**
1. Maintain a minimum of 2 feet clearance between edge of vertical termination and perpendicular wall.
2. If terminating near window, keep minimum of 2 feet clearance between window and vent termination.
3. All mechanical air intakes (such as an Eновex power vent) within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap.
4. All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

*3 foot minimum is recommended in snow regions. Please refer to local codes and authorities having jurisdiction.*
Chimney Shroud Detail

Keep a minimum 6-inch clearance around the vent termination to surrounding. This includes the bottom side of termination as well.

If the top of the shroud is enclosed, keep a maximum of 10 inches clear from the top of the termination to the shroud ceiling.

For openings in the shroud, make sure to allow for enough air flow space to release the exhaust gases and allow the vent to operate properly.

The center of the openings must be aligned to the center of the termination cap as displaced in “X” and “Y”.

Vent Maintenance

Regular inspection of the venting system by a qualified service technician is recommended every six months. The following maintenance routing is recommended:

1. Inspect for excessive condensation, e.g., water droplets forming in the inner lining, and subsequently dripping from the joints. This can cause corrosion in the system.
2. Check for corrosion in areas exposed to the elements. Components with rust spots or holes must be immediately replaced.
3. Ensure that there is no foreign material in the vents. Survey by removing the cap and shining a light down the vent.
4. If possible, check all joints and pipes to make sure that nothing has been disturbed or loosened.
Fireplace Cavity (Chase) Construction

The process of building the chase can be divided into four main phases:

**IMPORTANT –** Review “Clearance & Finish Diagrams” section prior to framing to ensure all clearances are followed.

**PHASE 1: BUILD BACK AND SIDE WALLS**
- Frame the back and side walls. (See “Building Back and Side Walls” section below for details.)
  - If using wood framing or plan on putting a TV or artwork above the fireplace, cover the inside of the walls (the side facing towards the cavity) with 5/8” Type X Drywall or equivalent and level 1 finish.
  - If using metal framing and there is no TV or artwork, inside layer of 5/8” Type X Drywall or equivalent is not required.
- Build the platform (if necessary) to the desired height and install inside fireplace cavity. Platform must be stable and able to bear the full weight of the fireplace. Platform can be constructed out of wood, concrete, metal or any other solid materials. Material does not have to be non-combustible.

**PHASE 2: INSTALL FIREPLACE & VENTING, RUN GAS & ELECTRICAL**
- Install the fireplace. This can only be completed by an authorized Ortal dealer (unless otherwise authorized by Ortal with written approval). See the “Fireplace Installation Instructions” section for details.
- Install pipe/venting. See the “Fireplace Installation Instructions” section for details.
- Move the gas valve & receiver unit to the designated access panel location. If the fireplace will not have an access panel, keep gas valve & receiver unit directly underneath the firebox.
- Run gas and electric to the gas valve & receiver unit location.

**PHASE 3: BUILD FRONT WALL**
- Build front cavity wall (aka infill panel):
  - **For Metal/Non-Combustible Framing:**
    - Build the front wall using metal studs.
    - Stand up the front wall and move into place.
    - Secure front wall to the rest of the cavity structure.
  - **For Wood/Combustible Framing:**
    - Build the front wall using wood studs (leaving room for min. 18” non-combustible/metal insert directly above the fireplace opening).
    - Cover the inside portion of the wall with 5/8” Type X Drywall or equivalent and level 1 finish.
    - Stand up front wall and move into place.
    - Secure front wall to the rest of the cavity structure.
    - Build & install min. 18” non-combustible metal insert (see “Framing Requirements & Diagrams” section for details).
  - Cover the exterior of each wall (sides and front, and back if applicable depending on your design) with 5/8” Type X Drywall or equivalent and level 1 finish.

**PHASE 4: APPLY FINISHES**
- Apply finishes and install accessories. Make sure to follow all clearances as outlined in the “Clearance & Finish Diagrams” section.
- Turn the project over to the customer. See “Turning Project Over to End User” section for details.
**Cavity (Chase) Construction Notes**

**Non-combustible Framing**
The wall behind an Ortal fireplace (either at the back or side of the fireplace) and the ceiling above the unit must be non-combustible construction such as 5/8” Type X Drywall, concrete, brick, concrete masonry units, or plaster on metal framing and lath. Penetrations in the wall or ceiling, such as electrical boxes, must be removed and patched to assure integrity of the non-combustible enclosure.

**Combustible Framing**
The first 18” (minimum) of framing MUST be non-combustible (steel studs). Existing walls or ceilings built of combustible materials may be used if the wall or ceiling is covered with 5/8” Type X Drywall or its equivalent.

An exception to this rule is when the walls of the chase do not extend all the way to the ceiling and allow a “gap” for heat release. In this scenario, ½” Type X Drywall (or its equivalent) may be used to match the thickness of Type X Drywall used on the ceiling outside the chase.

**Floor/Platform**
The fireplace can be set on wood, concrete, metal and other typical solid floor types. Material does not have to be non-combustible.

To raise the fireplace higher than standard height, build a platform to which the unit can be secured. Platform must be stable and able to bear the full weight of the fireplace. Platform can be constructed out of wood, concrete, metal or any other solid materials. Material does not have to be non-combustible.

To lower a fireplace, it must be recessed into the floor. If your fireplace has legs, they cannot be removed, cut or adjusted.

**Drywall Chase Interior**
Wood framing must be covered with 5/8” Type X Drywall or its equivalent on the inside portion of the cavity.

In remodeling projects, apply a layer of 5/8” Type X Drywall (or its equivalent) over existing material, unless it is certain that the existing surfaces are 5/8” Type X Drywall or another acceptable non-combustible material.

**Installing the Fireplace and Venting**
The installation of the fireplace and venting can only be completed by an authorized Ortal dealer unless otherwise authorized by Ortal via documented approval. Ortal fireplaces must be installed in accordance with the Ortal Installation Manual and applicable local and national building codes. Install the direct vent pipe, make gas and power connections, and provide fire stopping or thimble where the direct vent pipe penetrates the wall or ceiling of the chase.

**Building the Front Wall**
It is recommended to postpone installation of the front wall of the cavity until after the fireplace and pipe have been installed. This will allow access for installing drywall inside the chase, positioning the Ortal fireplace and direct vent pipe, and making necessary connections.

Install framing in accordance with building codes and project specifications. All studs are placed 16 inches on center, or per local code.

Plan your work carefully, paying attention to:
- Required clearances (see “Clearances & Finish Diagrams” section for details).
- Blocking for securing the fireplace, direct vent pipes, mantles, drywall, etc.
- Access panel for the gas valve and receiver unit (see “Access Panel” section for details).
- Heat release & air intake (see “Heat Release” and “Double Glass Requirements” sections for details).
- Direct vent, direct vent strapping, and penetrations through walls and ceiling.
- Recesses for TV, audio speakers, light fixtures, artwork, and other items built into chase (if required).
Take a moment for a final visual inspection of the chase interior. Remove any construction debris that may be inside the chase.

Install conduit, wiring, power outlets, and electrical boxes between framing members with 5/8 Type X or its equivalent on both sides.

⚠️ Building and structural loads must not bear on the fireplace.

Working with Drywall
Cover the metal framing with 5/8” Type X Drywall (or its equivalent) to exterior face of the chase. Exceed these requirements where fire-resistance-rated construction or other methods are required.

5/8” Type X Drywall or its equivalent must comply with ASTM C1396 - Specification for Gypsum Board. Provide Level 1 or better finish, in accordance with GA-214 - Recommended Levels of Gypsum Board Finish.

Do not locate exposed 5/8” Type X Drywall joints directly above the fireplace.

If corner beads and other drywall trim are required, use metal products where non-combustible materials are required. For added Cool Wall effect, cover both the interior and exterior of steel studs (this is absolutely required if framing in wood or installing a TV/artwork above the unit). Use fireplace-specific cement boards such as manufactured by Promat and Skamol for maximum heat protection.
Fireplace Installation Instructions

The following sections describe fireplace components and installation operations.

Selecting a Location
Keep the following factors in mind when selecting a location for the fireplace:

• Minimum clearances to combustible materials must be met.
• Adequate clearances for servicing need to be provided.
• Consider the minimum vent vertical and allowed horizontal lengths and number of bends.
• Consider framing and finishing requirements (surrounding framing and materials to be completed after fireplace installation).
• The fireplace must be installed on a flat, solid, continuous surface (e.g., wood, metal, or concrete). This may be the sub-floor or a raised platform.

Installation Sequence
Use the following guidelines to help ensure a smooth and error-free installation. The installation sequence is divided into three phases: planning, installation, and startup.

First Trip to Site: Planning Phase
Consult with the contractor and go over all Ortal requirements:

• Chase and framing requirements.
• Drywall or noncombustible inside the chase.
• Air intake and heat release.
• Access panel size and location.
• Gas and electrical specs and location.
• Venting configuration.
• Finishing details.

Second Trip to Site: Installation Phase

• Confirm the framing and platform are built to spec.
• Confirm gas and electric are in the correct location.
• Confirm access panel location and size.
• Confirm air intake and heat release locations.
• Make sure there is a clear path to carry in the unit.
• Uncrate the unit and set in place.
• Use the shipping bracket for the legs and seismic brackets to level and secure the unit (see note below).
• Cut off ALL the zip ties.
• Move the components to the access panel location. Be mindful of the routing for future service needs.
• Install the venting components per the venting manufacturer’s instructions and Ortal requirements.
• Go over the infill panel requirements and finishing details with the contractor.
• Protect the fireplace and components from damage.

SECUING THE UNIT: Use the supplied seismic brackets and leg shipping brackets to secure and level the fireplace. If necessary, the brackets can be extended with similar steel components. It is crucial to the finishing that the unit is stable, level and plumb. The legs are zero clearance. Wood shims are acceptable.
Third Trip to Site: Startup Phase

- Perform a visual inspection to confirm that all work was completed per Ortal specifications.
- Confirm that gas and electric are properly connected and live.
- Remove the safety barrier and glass.
- Clean the inside of the unit.
- Confirm operation and remote-control setup.
- Set up the media per Ortal specifications.
- Remove protective layers and clean glass.
- Install the glass and safety barrier.
- Go over operation of the unit and remote with the homeowner.
- Set up return visit to clean glass after initial burn-off period.
Working with Glass Panels

5mm ceramic glass front and side panels are provided. Contact Ortal for replacement parts if required. 3/16 tempered glass exterior panels can be sourced locally.

Silicone comes pre-applied to any glass-to-glass connections (LS, RS, TS and SC models), on both sides of the glass. Keep the following guidelines in mind when handling silicone and glass panels:

The purpose of the silicone is to create a gasket, not to “glue” the glass panels together. When placing glass panels, ensure that the glass is fully in place and that the silicone is filling the space between the glass panels. Place the front (or center) panel in place first and then slide the side panel into place so that the silicone edge touches the glass edge.

Glass Seal Assembly Diagram

- Re-apply silicone only if the original silicone is damaged (Rutland 500° Clear Silicone is recommended).
- If new silicone is applied, cure time is 24 hours before operation of the fireplace.
- Do not use silicone to seal the glass after it is in place.
- Always use appropriate materials and cleaning agents to clean glass. Ammonia free glass cleaners and/or ceramic glass cleaners are recommended.
Remote Control Setup and Operation

WARNING – Read these instructions carefully before lighting the fireplace.

Remote Control Options
1. 10-Button Handset (new)
2. Puck Handset (new)
3. Wall Switch
4. myfire App (new)

IMPORTANT NOTES:
• Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
• If operating the fireplace without an AC adapter, battery replacement is recommended at the beginning of each heating season.
• Fireplaces with double glass, power vented, and/or lights features must operate using the AC Adapter and therefore will not operate during a power failure.
• Only the Mertik Maxitrol AC Adapter (or one pre-approved by Mertik Maxitrol) is permitted for use with the fireplace. Use of other adapter brands can render the system inoperable. The handsets, receivers, wall switches are not interchangeable with other electronics.
• Batteries must be kept within their recommended temperature limits (32°F to 131°F).

10-Button Remote

NOTE:
Any device that functions using the same radio frequency as the handset will be affected when handset is in use.
Operating Instructions
Instructions for operating the 10-Button Handset are shown below. For more in-depth instructions regarding operation of each control option, please refer to either the “Homeowner’s Fireplace Operation Manual” or “Remote Operation Instructions”.

⚠️ NOTE: Some options on the remote may not be available for all fireplaces.

### Turning the Fireplace On

1. Press ⏰ button and ▲ button simultaneously until you hear continuous beeping and a blinking series of lines confirms the start sequence has begun; release buttons.
2. Main gas flows once pilot ignition is confirmed.
3. The Symax system automatically goes into Manual Mode after main burner ignition.

⚠️ NOTE: When pilot ignition is confirmed, motor turns automatically to maximum flame height.

⚠️ NOTE: If the Timer function has been set and the fireplace is manually turned on, the Timer function will need to be reset.

### Turning the Fireplace Off

1. Press ⏪ button to turn the fireplace off.

⚠️ NOTE: The fireplace may be turned on again after the OFF icon stops flashing.

### Flame Height Adjustment

1. To increase flame height, press and hold ▲ button to desired flame height.
2. To decrease flame height, or to set appliance to pilot flame only, press and hold ▼ button.
Puck Handset

ON/OFF

Flame Down

Flame Up

Control Option | Radio Frequency | Power Supply
---|---|---
Puck Handset | 918.0 MHz (U.S. & Canada) | 2 x 1.5V AAA batteries (quality alkaline recommended) | Replace batteries after 2 years or when low battery indicator appears on handset display

**Important:** For safety/communication purposes, Puck handset must be located within **26 feet** of the receiver.

![NOTE: Any device that functions using the same radio frequency as the handset will be affected when handset is in use.](image)

**Operating Instructions**

Instructions for operating the Puck Handset are shown below. For more in-depth instructions regarding operation of each control option, please refer to either the “Homeowner’s Fireplace Operation Manual” or “Remote Operation Instructions”.

**Turning the Fireplace On/Off**

**ON:**
- Press and hold the button until two short beeps confirms the start sequence has begun; release button.

**OFF:**
- Press and hold the button.

**Flame Height Adjustment**

**INCREASE:**
- To increase flame height, press and hold + button.

**DECREASE:**
- To decrease flame height, press and hold – button.
- Holding the – button long enough sets the fireplace to pilot flame (Standby Mode).
**Operating Instructions**

Instructions for operating the Puck Handset are shown below.

### Turning the Fireplace On/Off

**ON:**
- Press and hold the ON-OFF button until two short beeps confirms the start sequence has begun; release button.

**OFF:**
- Press the ON-OFF button.

### Flame Height Adjustment

**INCREASE:**
- To increase flame height, press and hold (up flame) button.

**DECREASE:**
- To decrease flame height, press and hold (down flame) button.
- Holding the (down flame) button long enough sets the fireplace to pilot flame (Standby Mode).

---

**Control Option** | **Radio Frequency** | **Power Supply**
---|---|---
Wall Switch | 918.0 MHz (U.S. & Canada) | N/A

**IMPORTANT:** For safety/communication purposes, 10-button handset must be located within **26 feet** of the receiver.
**myfire App**

**IMPORTANT:** For safety/communication purposes, the 10-button handset must be located within **26 feet** of the receiver.

**NOTES:**
- For detailed App setup and operating instructions, refer to www.myfireapp.com.
- The myfire Wi-Fi box is required for myfire operation.

**myfire Wi-Fi Box**

The myfire Wi-Fi router box provides the Wi-Fi connection that allows the myfire App to operate the fireplace.

<table>
<thead>
<tr>
<th>Part</th>
<th>Radio Frequency</th>
<th>Power Supply</th>
<th>Wireless Communication</th>
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</thead>
<tbody>
<tr>
<td>myfire Wi-Fi Box</td>
<td>2.4 GHz</td>
<td>Connects to Receiver</td>
<td>• WPA2 authentication</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• AES 256-bit encryption security</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>• Compatible with IEEE 802.11 b/g/n</td>
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</tbody>
</table>
**Pairing Remote Control to Receiver**

To make sure your choice of remote control can operate your fireplace, follow these guidelines to set the code on the radio frequency handset and pair the remote and receiver. These instructions are taken directly from the electronics manufacturer Mertik Maxitrol:

1. Press and hold the receiver’s reset button until you hear two beeps. The first beep is short, and the second beep is long. After the second beep, release the reset button.

2. Within the subsequent 20 seconds, press the following button depending on the mode of operation:
   - **10-Button Handset**: Press the button. “CONN” and a running number from 1 to 8 will appear on the handset display confirming that the synchronization and data exchange are in process.
   - **Puck Handset**: Press and hold the button approximately 4 seconds.
   - **Wall Switch**: Use the 10-button handset to synch with the receiver. Once the remote and receiver are paired, the wall switch will function normally.
   - **myfire App**: Use the 10-button handset to synch with the receiver. Once the remote and receiver are paired, the App will function normally.

3. You will hear two short beeps confirming the connection.

**NOTES:**
- If you hear one long beep, this indicates the connection has failed or the wiring is incorrect.
- The connection between remote and receiver only needs to be made once and is not required after changing the batteries in the remote or receiver.

**Receiver Power Requirements**

Batteries are not required for the receiver as an AC adapter is provided with every fireplace to plug directly into an outlet.

- Screen units without additional options can run on battery in case of power outage.
  - 4 x 1.5V “AA” (alkaline recommended)
  - Low battery indication: Frequent beeps for 3 seconds when motor turns.
- Units with additional options such as double glass, lighting, and/or power vent cannot operate without an AC Adapter.

**NOTE:** Only the AC Adapter manufactured by Mertik Maxitrol is compatible for use with Ortal fireplaces. Use of other adapters may render the system inoperable. Battery replacement is recommended at the beginning of each heating season.
Interior Design Media

Ortal offers interior media options such as stones, glass, logs and embers that can provided with the fireplace unit. This section provides guidelines for safe placement of media.

⚠️ WARNING
- Only media provided by Ortal is permitted for use in the fireplace.

⚠️ WARNINGS – INSTALLING AND HANDLING MEDIA
- **DO NOT** install the interior design media until fireplace installation is complete, the gas line is connected and tested for leaks, and initial burner operation has been inspected and approved.
- Media materials get very hot and will remain hot up to one hour after gas supply is turned off. Handle media only when materials are cool.
- If media is not installed according to the installation instructions, flame impingement and improper combustion may occur and result in soot and/or excessive production of carbon monoxide (CO). Carbon monoxide is a toxic, colorless, and odorless gas.

⚠️ WARNING – The fireplace is **NOT** designed to burn wood. Any attempt to do so could cause irreparable damage to the fireplace and may result in property damage, personal injury and/or loss of life.

**Media Placement Guidelines**

When installing media, adhere to the following general guidelines:

- Keep the media back from the pilot hood so at least one burner port is open. Otherwise, there will be delayed ignition.
- Do not use the hood to support media. This could cause overheating of the thermocouple.
- Keep the media away from the edges and the glass.
- Do not overfill the media tray. Keep 30% of the tray open to allow for air flow.
Glass Media Placement

- When placing glass media, put only a single layer, and do not pack down. Once the media is placed, go back and move the glass back slightly to open the ports:

Stone Media Placement

- When placing stone media, use the space left by the round shape to leave the ports open.

Log Media Placement

- Place the logs carefully to block as few ports as possible. If a log is placed over a port, block the port with a “coin” to keep the flame from creating soot on the media or to manipulate the look of the flame.
• Block as few ports as possible, and no more than 30% of total ports. Do **NOT** block ports that are next to one another. This will cause delayed ignition.

• When combining both logs and glass, it is recommended to place the logs (and coins if needed) first, and then to spread the glass according to the instructions given above.

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**Cold Climate Insulation**

Seal all cracks around your fireplace with noncombustible material wherever cold air could enter the room. It is especially important to insulate outside chase cavity between fastenings, and under the floor on which the fireplace rests if the floor is above ground level. Gas line holes and other openings should be caulked or stuffed with un-faced fiberglass insulation.

If the fireplace is being installed on a cement slab, a sheet of plywood or other raised platform can be placed underneath to prevent cold transfer to the fireplace and into the room. It also helps to sheetrock inside surfaces and tape and caulk fire stops for maximum air tightness.
Post-installation Procedures

The following sections present post-installation operations.

Initial Burning Period
Following installation of an Ortal fireplace, there is a 12-hour minimum burning period. This 12-hour period must include a minimum of 4 hours of continuous burning. During this time, the customer/installer may notice:

- The glass developing a white or “cloudy” film
- An unusual smell

Both the film and the smell are due to the paint on the fireplace metal heating and “burning off”. This is normal. The cloudiness and odor will disappear after the 12-hour period elapses and the installer returns to service the fireplace and complete startup.

Final Inspection Procedure
When the 12-hour burning period is complete, the installer returns and performs the final inspection, which includes:

- Cleaning the glass with a ceramic glass cleaner (otherwise the white film will remain)
- Checking the interior media
- Checking for gas leaks
- Adjusting the restrictor (if necessary)
- Performing an overall check to make sure that everything is working properly

When these activities are complete, initial startup is concluded and the fireplace may be operated by the owner.

Final Checks and Customer Instruction
Before releasing the unit to the customer for use without installer supervision, the installer must ensure that the fireplace is burning correctly. In addition, the installer must:

- Review and explain unit operation to customer
- Review and explain safety warnings to customer
- Review and explain to the customer that glass is hot during and after operation
- Review and explain maintenance requirements to the customer
- Review and explain warranty requirements to the customer
- Explain that if any questions or concerns arise, to contact the local Ortal dealer/installer or Ortal directly for support.

Operating Warnings
For your safety, please read the following warnings carefully before lighting your fireplace. If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury or loss of life.

⚠️ WARNING –DO NOT OPERATE YOUR FIREPLACE IF:

- The glass is NOT properly secured in place
- Connection points are not sealed (for fireplaces with glass-to-glass connections)
- Glass is cracked
- You smell gas
- Any part of the fireplace has been under water
- You have any doubt about safe operation of the unit
- If any part has been under water, do not use the fireplace. Immediately call a qualified, professional service technician to inspect the fireplace and to replace any parts of the control system and any gas controls which have been under water.
General Maintenance

⚠️ WARNING – SERVICING
  • It is recommended that a qualified service technician perform a routine inspection at the beginning of each heating season.
  • Turn off the gas and electricity **BEFORE** servicing the fireplace.

⚠️ WARNING – BURNER AND VENT INSPECTIONS
  • Periodic checks should be made of the burner for correct position and condition. Visually check the flame of the burner, making sure that the flames are steady. For any problem, call a qualified service technician.
  • The venting system must be inspected before use. Annual inspection by a qualified field technician must be scheduled to ensure the flow of combustion and ventilation air.

⚠️ WARNING – SUBMERGED PARTS
  • Do not use the fireplace if any part has been under water, or if you suspect that it may have been under water. Immediately call a qualified, professional service technician to inspect the fireplace and to replace any parts of the control system and any gas controls which have been under water.

⚠️ WARNING – HANDLING OF GLASS
  • NEVER operate the fireplace without the glass properly securely in place.
  • The glass must be removed ONLY by an authorized qualified installer.
  • The technician should ONLY remove the glass with the suction cup supplied by the manufacturer. Lower the glass to rest in a safe place to prevent damage to the glass edges.

⚠️ WARNING – CLEANING THE UNIT
  • ALWAYS turn off the gas valve before cleaning.
  • Do **NOT** clean when hot. Make sure unit has had time to cool prior to cleaning any surface or component, interior or exterior.
  • Keep the unit clean by brushing and/or vacuuming at least once a year by a service technician.
  • Only service technicians can open the fireplace to clean interior surfaces.
  • Clean the glass when it starts to look cloudy. Use a damp cloth for cleaning the fireplace and the door.
  • Verify correct operation after servicing.

Maintenance Frequency and Equipment Checklist

• Under normal circumstances, the factory recommendation is to have the unit serviced at least once a year. Units meeting the following conditions should have more frequent service:
  o Units installed in commercial/public spaces should be serviced every 3 months.
  o Units installed in climates near the ocean or in other settings where corrosion buildup is more likely should be serviced every 6 months.

• Thermocouple Maintenance
  o The thermocouple should be replaced annually or as needed in all commercial installations, and in any residential unit where the fireplace is operated for an average of 10 hours or more per day.
  o For all other installations, the thermocouple should be replaced every three years or as needed.
→ Warranty Policy
Ortal USA, Inc. Standard Products
Sold and Distributed in North America
(For custom models, warranties may vary)

THE WARRANTY
The Ortal Ltd. and Ortal USA, Inc. Limited Warranty warrants your Ortal USA gas fireplace (“Product”) to be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by Ortal are found to be defective in materials or workmanship during the Limited Warranty period and while the Product remains at the site of the original installation, Ortal USA will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, Ortal USA will, at its option, refund the purchase price or wholesale price of the Ortal product, whichever is applicable. Ortal USA may also pay Customer prevailing labor costs, as determined in its sole discretion, incurred in repairing or replacing such components for up to five years.

COVERAGE COMMENCEMENT DATE
Warranty coverage begins on date shipped but not to exceed one year from date of original purchase.

EXCLUSIONS AND LIMITATIONS
This Limited Warranty applies only if the Product is purchased and installed in the United States or Canada by an approved Ortal dealer/distributor (unless otherwise permitted by Ortal USA via written approval), and only if installed, operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices. Printed instructions include product information, diagrams, and operation and maintenance manuals available on Ortal USA’s website, www.ortalheat.com. These can also be requested in digital format direct from Ortal USA’s office.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of Ortal USA and proof of purchase must be provided. The following components are part of the Limited Warranty and are warranted as follows:

<table>
<thead>
<tr>
<th>Components Covered</th>
<th>Warranty Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty coverage begins at ship date but not to exceed one year from date of original purchase. Parts not otherwise listed carry a 90-day warranty from warranty commencement date.</td>
<td></td>
</tr>
<tr>
<td>Firebox</td>
<td>10-Year Limited Warranty</td>
</tr>
<tr>
<td>Burner</td>
<td>10-Year Limited Warranty</td>
</tr>
<tr>
<td>Gas &amp; Electrical Components</td>
<td>2-Year Limited Warranty</td>
</tr>
<tr>
<td>Interior Design Media</td>
<td>2-Year Limited Warranty (Thermal Damage Only)</td>
</tr>
<tr>
<td>Ceramic Glass</td>
<td>2-Year Limited Warranty (Thermal Breakage Only)</td>
</tr>
<tr>
<td>Tempered Glass</td>
<td>Shipment Damage Only</td>
</tr>
<tr>
<td>Paint</td>
<td>1-Year Limited Warranty</td>
</tr>
<tr>
<td>Gaskets</td>
<td>1-Year Limited Warranty</td>
</tr>
<tr>
<td>Trim Pieces</td>
<td>1-Year Limited Warranty</td>
</tr>
<tr>
<td>Double Glass Fans</td>
<td>1-Year Limited Warranty</td>
</tr>
<tr>
<td>Remotes</td>
<td>1-Year Limited Warranty</td>
</tr>
<tr>
<td>Labor Coverage</td>
<td>Prevailing ORTAL USA labor rates apply for warranty period of components up to a maximum of 2 hours. Labor hours exceeding the maximum limit must be previously discussed and approved by Ortal USA. Labor Coverage is for actual repair and/or replacement of components. Troubleshooting is excluded.</td>
</tr>
</tbody>
</table>

Whenever practicable, Ortal USA will provide replacement parts, if available, for a period of 5 years from the last date of manufacture of the Product.
Ortal USA is not responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood, climate and weather corrosion or natural disaster; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn on either natural or propane gas only as determined by the customer when originally purchased or modified after installation by an authorized installer only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

Ortal USA is not responsible for inadequate fireplace system draft caused by air conditioning and heating systems, mechanical ventilation systems, or general construction conditions which may generate negative pressure in the room in which the appliance is installed. Additionally, Ortal USA assumes no responsibility for drafting conditions caused by venting configurations, adjoining trees or buildings, adverse wind conditions or unusual environmental factors and conditions that affect the operation of the unit.

This Limited Warranty covers only parts and labor as provided herein. In no case shall Ortal USA be responsible for materials, components or construction, which are not manufactured or supplied by Ortal USA or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking Ortal USA warehouse. Expedited shipping is available if paid for by the customer.

LIMITATION ON LIABILITY
It is expressly agreed and understood that Ortal USA’s sole obligation and the purchaser’s exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall Ortal USA be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after repair or replacement, and whether such damage is caused by Ortal USA’s negligence. Ortal USA has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

Ortal USA makes no expressed warranties except as stated in the Limited Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Warranty or to create for Ortal USA any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of the Limited Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

INVESTIGATION OF CLAIMS AGAINST WARRANTY
Ortal USA reserves the right to investigate any and all claims against this Limited Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Warranty, the appliance must be installed and repaired by an authorized Ortal USA installation technician. Refer to your dealer/distributor sales agreement for requirements. Contact Ortal USA at the address provided herein to obtain a listing of approved dealers/distributors and certified/authorized installer companies. Ortal USA shall in no event be responsible for any warranty work done by an installer that is not approved without first obtaining Ortal USA’s prior written consent.

SHIPMENT DAMAGE
• BEFORE you sign the delivery receipt, if you are not able to inspect the unit, you must indicate “subject to inspection”.
• When there is obvious physical damage to the crating, packaging, pallet, cardboard, etc. you MUST indicate this on the delivery slip, even if the damage turns out only to be to the packaging and the contents are completely undisturbed.
This should come in complete and in good condition. If in case you notice any breach or damage on the pallet/packaging please take pictures of its entirety and location where damage (dents/holes/scratch/others) may be, before you open the pallet. Do not discard packaging materials. If there is anything missing or damaged on the fireplace unit, please report to us within 3 business days.

HOW TO REGISTER A CLAIM AGAINST WARRANTY
For any claim under this warranty to be valid, you must contact the Ortal USA dealer/distributor from which you purchased the product. If you cannot locate the dealer/distributor, then you must notify Ortal USA in writing. Submission of a completed warranty claim is the preferred method of warranty claim notification. Ortal USA must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to:

Ortal USA
Attn: Warranty
8421 Canoga Avenue
Canoga Park, CA 91304

For troubleshooting, repair, and maintenance, please contact your authorized Ortal dealer.

Sample Product Certification Labels
The following figures show sample certification labels for various product series. This label is found on a metal plate that should be located near the access panel area.

DEALERS/INSTALLERS: You MUST leave your fireplace’s label with the fireplace. Instruct the owner before handing over the fireplace where this label can be found in their installation.

OWNERS: Make sure your installer leaves your fireplace’s label with the fireplace in an area that is easily accessible for you (preferably in an area you can see when you open your access panel). This information is required for servicing and receiving replacement parts.

![Image of certification label with various options and specifications.]