



**L I G N A**  
OPEN FIREPLACE SYSTEM

## INSTALLATION MANUAL

VERSION 11



**MASPORT**  
LIGNA 700/800/900



Glen Dimplex Australia proudly supports the activities of Landcare Australia through its membership of the AHHA.

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## 1. IMPORTANT INFORMATION

Most building regulatory authorities in Australia require any wood heater installation to comply with Installation Standard AS/NZS 2918:2018. Different states and councils may have varying regulations. Check local building regulations before installing the appliance.

All Masport wood heaters have been tested to ensure that they will meet the appropriate safety Standard requirements if the instructions in this manual are followed. As the safety and emissions performance can be affected by altering the appliance, no modifications are allowed without written permission from the manufacturer.

**WE RECOMMEND THAT THE INSTALLATION OF YOUR MASPORT WOOD HEATER BE CARRIED OUT BY A QUALIFIED INSTALLER.**

**WARNING: THE APPLIANCE AND FLUE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918:2018 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.**

**WARNING: APPLIANCES INSTALLED IN ACCORDANCE WITH THIS STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 4012 & AS/NZS 4013 WHERE REQUIRED BY THE REGULATORY AUTHORITY, I.E. THE APPLIANCE SHALL BE IDENTIFIABLE BY A COMPLIANCE PLATE WITH THE MARKING 'TESTED TO AS/NZS 4012 & AS/NZS 4013'.**

**ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF THE APPROVAL GRANTED FOR COMPLIANCE WITH AS/NZS 4012 & AS/NZS 4013.**

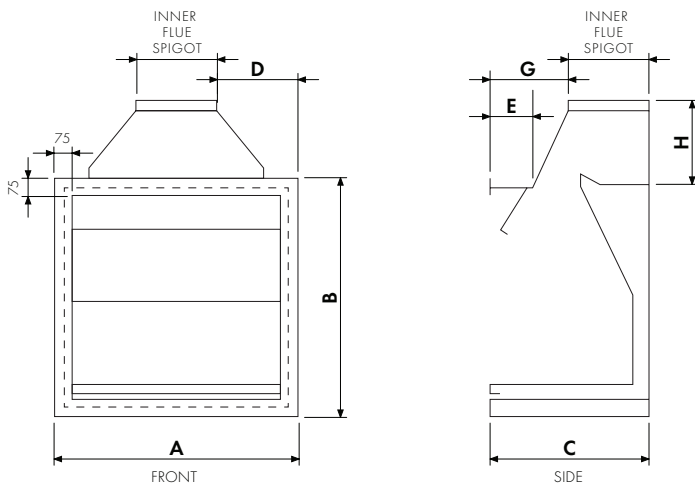
**CAUTION: MIXING OF APPLIANCE OR FLUE-SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.**

## 2. FLUE DAMPER SYSTEM

The Masport Ligna features a flue damper system (see below). The damper is positioned to rest on a support during transportation. **This must be removed** via a pin and reset so the damper drops down in a natural position before proceeding. Once reset, the damper can be operated with the chain.



### 3. APPLIANCE DIMENSIONS



| MODEL      | DIMENSIONS |     |     |     |     |     |     | FLUES        |              |
|------------|------------|-----|-----|-----|-----|-----|-----|--------------|--------------|
|            | A          | B   | C   | D   | E   | G   | H   | Inner        | Outer        |
| <b>700</b> | 780        | 706 | 450 | 272 | 139 | 205 | 141 | 229<br>(9")  | 280<br>(11") |
| <b>800</b> | 900        | 717 | 475 | 321 | 137 | 205 | 170 | 254<br>(10") | 305<br>(12") |
| <b>900</b> | 1020       | 780 | 500 | 367 | 138 | 204 | 180 | 280<br>(11") | 330<br>(13") |

MASONRY INSTALLATION

4. MASONRY INSTALL OVERVIEW

The Masport Ligna open fireplace can be installed as a built in appliance within a non-combustible masonry enclosure. Refer to this section for clearance requirements and instructions if the heater is to be in a masonry installation. When installing your Ligna open fireplace, please be sure to read these instructions carefully and comply with all clearances.

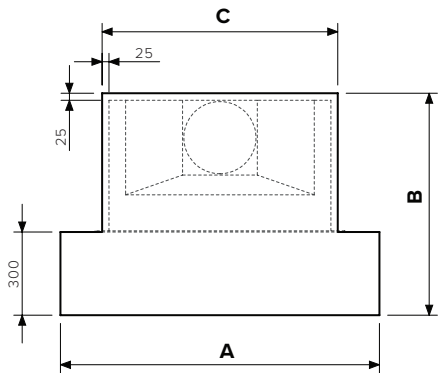
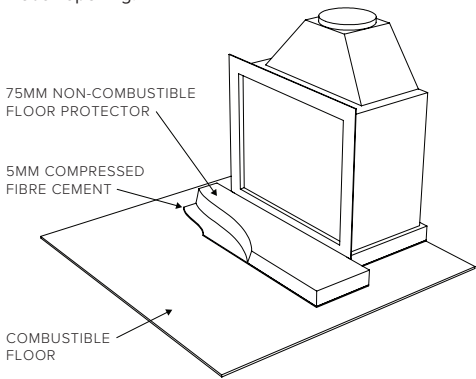
Step by step installation instructions:

- 1. Take note of your selected Ligna model and construct the floor protector according to the details in “4.1. Floor Protector for Masonry Install” on page 4. Position heater on floor protector, and install flues - see “7. Flue Clearance Requirements” on page 9. Do not restrict air intake at base of unit. Ensure gather is bolted tightly onto unit.
- 2. Build non-combustible enclosure from masonry, Hebel blocks or equivalent, following the dimensions and instructions listed in “4.2. Masonry Enclosure” on page 5.
- 3. Construct timber frame around masonry enclosure according to the dimensions and instructions listed in “4.3. Timber Frame for Masonry Install” on page 5.
- 4. Enclose framing with plasterboard/gyprock or timber paneling, ensuring approved clearances are maintained.

4.1. FLOOR PROTECTOR FOR MASONRY INSTALL

Floor protector for the Ligna open fireplace system consists of a 5mm thick sheet of compressed fibre cement, with 75mm bricks positioned on top, or an equivalent construction material giving the same thermal conductivity or less.

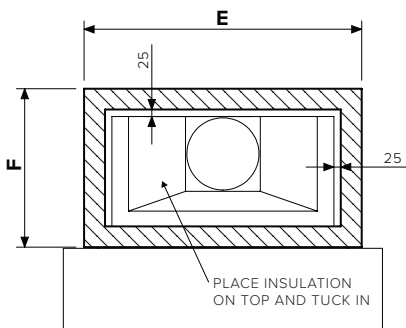
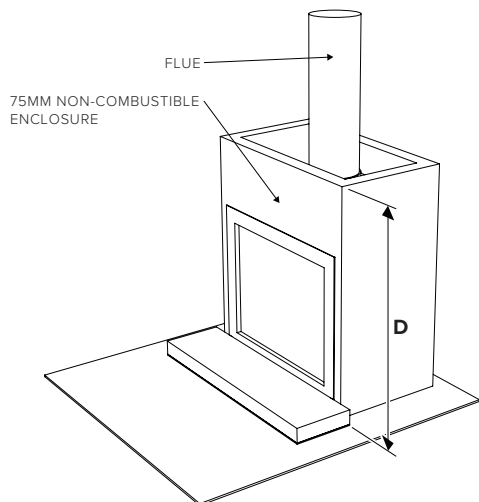
It must extend 300mm in front of heater, 25mm beyond the footprint of the unit, and 200mm on either side of the firebox opening.



| MODEL | A    | B   | C   |
|-------|------|-----|-----|
| 700   | 1030 | 775 | 730 |
| 800   | 1150 | 800 | 850 |
| 900   | 1270 | 825 | 970 |

#### 4.2. MASONRY ENCLOSURE

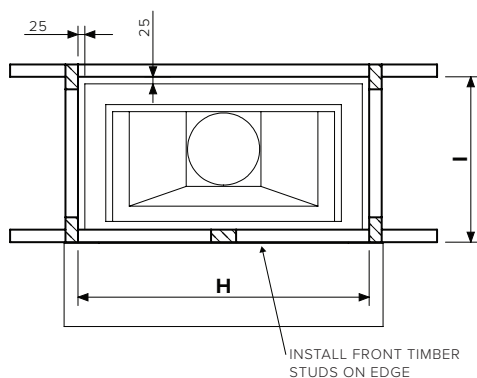
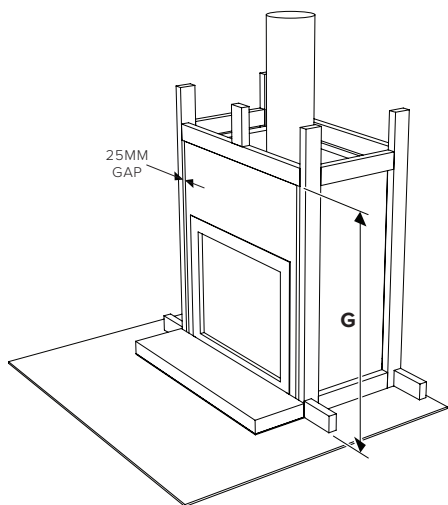
Construct enclosure from non-combustible materials i.e. masonry, Hebel blocks or equivalent. It must completely surround the sides, back and breast above top of unit. Place insulation on top of gather and tuck into enclosure.



| MODEL | D    | E    | F   |
|-------|------|------|-----|
| 700   | 1135 | 880  | 545 |
| 800   | 1200 | 1000 | 570 |
| 900   | 1400 | 1120 | 595 |

#### 4.3. TIMBER FRAME FOR MASONRY INSTALL

If a timber or combustible studwork is built around the exterior of the non-combustible enclosure, it must be no closer than 25mm to the exterior surface of the enclosure unless it is above the height of the appliance.



| MODEL | G    | H    | I   |
|-------|------|------|-----|
| 700   | 1135 | 930  | 560 |
| 800   | 1200 | 1050 | 595 |
| 900   | 1400 | 1170 | 620 |

ZERO CLEARANCE INSTALL

5. ZERO CLEARANCE INSTALL OVERVIEW

The Masport Ligna open fireplace can be installed as a built in appliance within a zero clearance box. Refer to this section for clearance requirements and instructions if the heater is to be in a zero clearance installation. When installing your Ligna open fireplace, please be sure to read these instructions carefully and comply with all clearances.

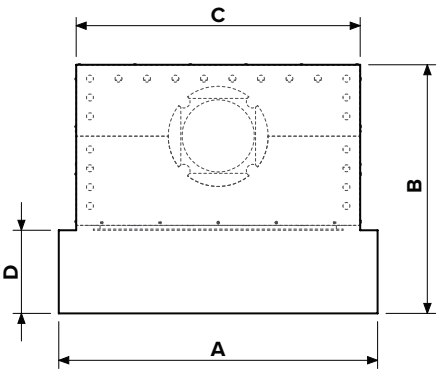
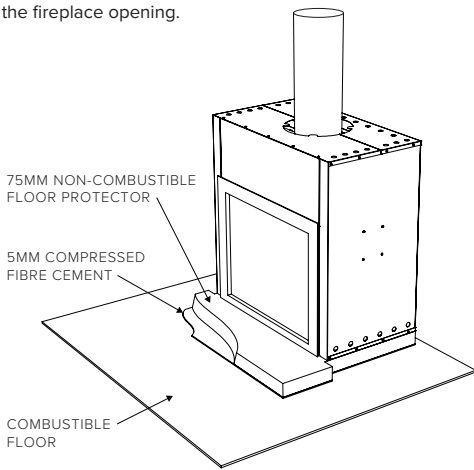
Step by step installation instructions:

- 1. Take note of your selected Ligna model and construct the floor protector according to the details in “5.1. Floor Protector for ZC Install” on page 6. Assemble ZC box containing heater on floor protector, along with flues - see “7. Flue Clearance Requirements” on page 9, and separate document “Masport Ligna - Zero Clearance Box Assembly”. Do not restrict air intake at base of unit. Ensure gasket is bolted tightly onto unit.
- 2. Construct timber frame around zero clearance box according to the dimensions and instructions listed in “5.2. Timber Frame for ZC Install” on page 7.
- 3. Enclose framing with plasterboard/gyprock or timber paneling, ensuring approved clearances are maintained.

5.1. FLOOR PROTECTOR FOR ZC INSTALL

Floor protector for a zero clearance install consists of a 5mm thick sheet of compressed fibre cement, with 75mm bricks positioned on top, or an equivalent construction material giving the same thermal conductivity or less.

It must extend 300mm (Ligna 700/800) or 400mm (Ligna 900) in front of heater, underneath the unit covering the entire footprint of the ZC box, and 200mm either side of the fireplace opening.

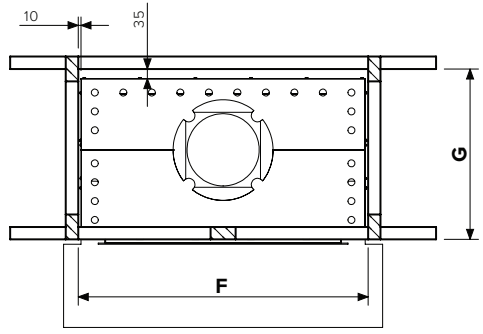
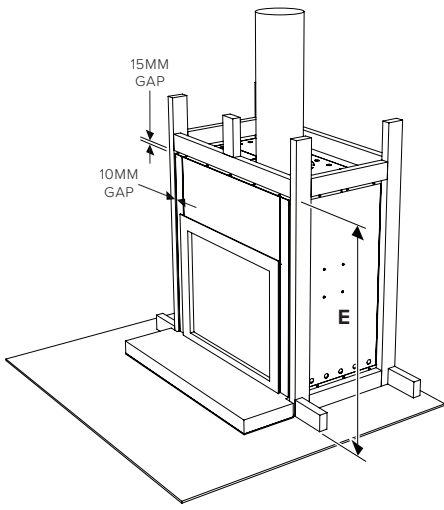


| MODEL | A    | B    | C    | D   |
|-------|------|------|------|-----|
| 700   | 1030 | 872  | 905  | 300 |
| 800   | 1150 | 897  | 1025 | 300 |
| 900   | 1270 | 1022 | 1145 | 400 |

## 5.2. TIMBER FRAME FOR ZC INSTALL

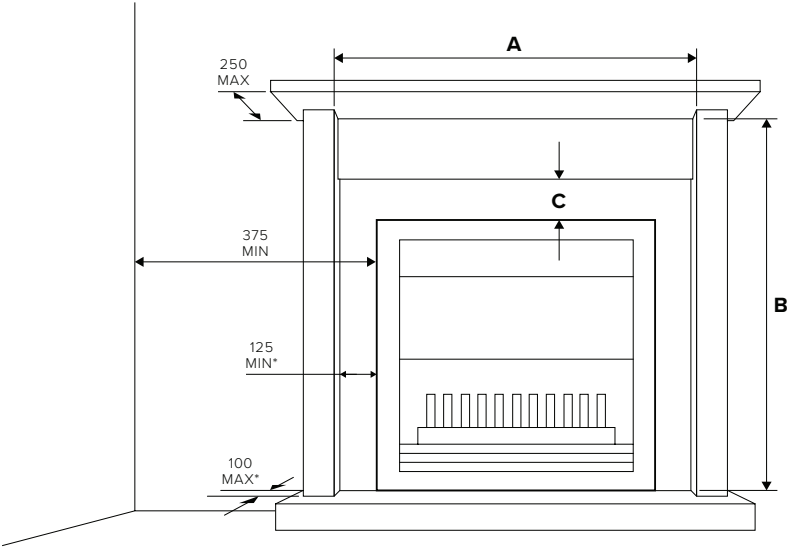
If a timber or combustible studwork is built around the exterior of the zero clearance box, it must be no closer than 10mm to the sides, 15mm to the top, and 35mm to the back of the box.

Note: If Ligna is to be installed elevated from the ground, a 6mm layer of compressed fibre cement is required between the base of the ZC box and any timber or combustible studwork.



| MODEL | E    | F    | G   |
|-------|------|------|-----|
| 700   | 1103 | 925  | 590 |
| 800   | 1137 | 1045 | 615 |
| 900   | 1232 | 1165 | 640 |

6. MANTELPiece SHelf & COLUMNS



1. Side wall clearance no less than 375mm from the side of the appliance.
2. The front wall between the open fireplace and the mantelpiece infill panel above must consist of non-combustible material.
3. Combustible mantelpiece infill panel with maximum thickness of 50mm installed no less than 100mm (Ligna 700/800), 120mm (Ligna 900) above the top edge of the unit.
4. Combustible mantelpiece shelf not less than 300mm (Ligna 700/800) or 320mm (Ligna 900) above the top edge of the unit. This shelf can be no more than 250mm deep.
5. Combustible mantelpiece columns:
  - Maximum thickness of 100mm out from the wall, not less than 125mm from the sides of the unit OR
  - Maximum thickness of 50mm out from the wall – not less than 25mm from the sides of the unit.

| MODEL | A     | B    | C   |
|-------|-------|------|-----|
| 700   | 1030* | 1010 | 100 |
| 800   | 1150* | 1015 | 100 |
| 900   | 1270* | 1100 | 120 |

\* Dimension A (width between columns) can be reduced if columns extend out from the wall no more than 50mm. In this scenario, this dimension can be 830mm (Ligna 700) / 950mm (Ligna 800) / 1070mm (Ligna 900).

## 7. FLUE CLEARANCE REQUIREMENTS

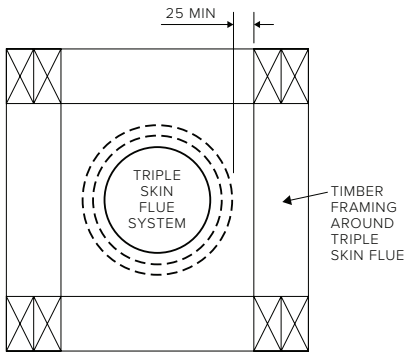
### 7.1. FLUE INSTALLATION

The flue system used when installing the heater **MUST** comply with the current installation standard AS/NZS 2918.

Full instructions on the installation of the flue will be supplied with the flue kit. These **MUST** be followed closely, including the minimum exit height from the top of the floor protector being not less than 4.6m, and the minimum exit height above the roof line of roof ridge as detailed in the instructions.

45 degree flue bends can be positioned directly onto the gather collar of the unit. Use at least 2 x 900mm lengths of flue following last bend upright. Use a minimum 3.6m length of flue from the top of the unit.

### 7.2. TIMBER FRAMED FLUE ENCLOSURES

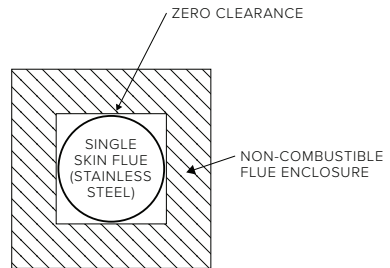


When flue enclosure is to be framed by timber, combustible materials like plasterboard or left exposed, use the triple skin ventilated flue system. This consists of a stainless steel inner flue and galvanised dual-layer outer flue casing. A minimum clearance of 25mm must be maintained between the galvanised outer flue casing and any combustible materials.

Install procedure:

- Position stainless steel inner active flue (crimped end down) into collar of spigot. Rivet to collar at 4 points and thereafter 4 at each flue joint.
- Position outer flue casings (crimped end up) over inner flue and space with 25mm self tapping screws, 4 at bottom then 4 at each flue casing joint. Ensure flues are structurally secure.
- Fit cowl into inner stainless steel flue and secure. Seal and flash flues appropriately.

### 7.3. MASONRY FLUE ENCLOSURES



When flue can be completely enclosed by non-combustible materials such as 110mm brickwork, or 75mm Hebel blocks, a single skin stainless steel flue system may be used. Clearance between flue and masonry is not necessary.

Install procedure:

- Position stainless steel inner active flue (crimped end down) into collar of spigot. Rivet to collar at 3 points and thereafter 3 at each flue joint.
- Fit cowl into inner stainless steel flue and secure. Seal and flash flues appropriately.



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