



Trimline 100 Tunnel DB	1135	Trimline 100 Front DB	1136
Trimline 120 Tunnel DB	1138	Trimline 120 Front DB	1137
Trimline 140 Tunnel DB	1149	Trimline 140 Front DB	1139
Trimline 170 Front DB	1048	Trimline 170H Front	1148

## INSTALLATION INSTRUCTION

For other languages, download the manual, open it in Acrobat Reader and choose the desired language with the buttons on the bottom side of this page.

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 (consequential) damage due to incorrect installation.

V30222



# 1 INSTALLATION INSTRUCTIONS

## NOTE

The installation should be performed only by an authorized gasfitter.

- The appliance must be installed, connected, inspected and serviced as a closed appliance by a qualified fitter, according to local standards and regulations.
- The flue tube system and the outlets in the outer wall or roof face must also meet the requirements outlined in the applicable local standards and regulations.
- The temperature of the walls near the side and back of the appliance may not exceed the ambient temperature by 60 K or more. For example, ambient temperature 20 °C, maximum increase of 60 K gives a maximum temperature of 80 °C
- The appliance has been approved in combination with the concentric flue system THC/Holetterm in accordance with European CE standards for gas appliances, and may therefore only be applied with this system.
- The appliance needs to be inspected by the fitter for local gas distribution (gas type and gas pressure) as indicated on the identification plate.
- The instructions are only applicable if the relevant country code is stated on the appliance.
- There will be air in the gas pipes when the appliance is first used. The gas supply pipes therefore need to be vented first.

- Ignite the appliance according to the user manual and check the flame is burning evenly. After the appliance has been used for the first time, any deposits resulting from curing must be removed from the glass panel using a glass cleaner made specifically for fireplaces.

## Distance from flammable materials in the vicinity of the appliance

Do not place flammable materials within 500mm of the part of the appliance that radiates heat.

## Distance to non-flammable materials

The appliance needs to be placed a minimum distance of 25mm from the wall unless stated otherwise in these instructions.

## WARNING

- Gas fires become hot when in use. After installation of the appliance, the glass panel surface is considered to be an active zone. The glass panel surface can become very hot.
- Therefore, you should take care by, for example, keeping children and those requiring help away from the immediate vicinity of burning fires. Gas fires must not be placed on or against flammable materials.

# 2 PLACING THE APPLIANCE

## NOTE

Before installing the appliance, please read Chapter 3 *Removing and installing the glass panel*, 9 *Concentric pathways*, 10 *Concentric flue system* and APPENDIX 2.

## 2.1 Preparation and installation

- Check the packaging for damage. Remove the packaging and check the contents are intact and complete. Report damage and defects to the supplier immediately.
- The packaging contains the following components:
  - Unit
  - Remote control
  - Ceramic wood set
  - Bag of glow wool
  - Bag of grit
  - Bag of small chips
  - Bag of large chips
  - Restrictor(s)
  - 4 x AA battery
  - 2 x AAA battery
  - Suction cup(s)
  - Lifting brackets
  - BIJLAGE 4 1
  - Adjustable feet
  - Built-in cassette
  - 2 Convection grilles
  - Installation instruction
  - User manual

## NOTE

Do not start the installation until you have read and understood the installation instructions.

- Place the appliance on a stable surface. Remove the glass panel (see Chapter 3 *Removing and installing the glass panel*) so you can take out the packaged parts. Check it for damage and defects.
- Put the appliance in place using the adjustable feet (supplied) and the wall mounting. The adjustable feet can be used for fine adjustment of the appliance; an optional leg extension set is also available. APPENDIX 4 Image 5
- The gas valve must be installed in the gas control box (see Paragraph 2.2 *Connection to the gas supply pipes*).
- The distance between the gas valve and the appliance is determined by the cable length (maximum 1200mm).
- The flue path determines whether a restrictor and/or baffle plate must be fitted (refer to Chapter 9 *Concentric pathways* and APPENDIX 4 *Preparation and installation*).
- The baffle plate is fitted with a screw in the middle on the front side. The baffle plate can be taken out by removing the screw and sliding the baffle plate backwards. If applicable, the restrictor can be placed with two screws.
- Connect the appliance to the concentric flue system.
- Position the supplied convection grilles at least 500 mm below the ceiling. If the space between the grille and the top of the ceiling in the chimney is very high, it is recommended that a false ceiling made of refractory material be installed in the chimney. APPENDIX 2



## 2.2 Connection to the gas supply pipes

- Remove the protective bracket under the appliance complete with gas valve (remove the tie straps) and secure it in the gas control box with the wing nut, which can be found inside. [APPENDIX 5](#)
- Take into account which power supply is provided: batteries or 230V adapter.
- You can determine where the gas supply pipes will be placed, dependent on the layout. Ensure control equipment is not twisted during installation and there is no excessive tension. Accessibility of various connection points in relation to components needs to be maintained. After installation, check the connections are gas-tight. Use a 3/8" gas tap with a connector. Also ensure the gas supply pipe is free from dirt or sand. To prevent damage to the gas control equipment, the gas connection must be isolated from the electrical power.
- Ignite the appliance for the first time without a glass panel. Check all the gas connections for leaks again. You can then switch the appliance off and put the ceramic wood set in place (see Chapter 4 *Installation of the ceramic wood set*).

### NOTE

- If the appliance does not work properly and/or the flames do not look good, repeat the previous steps again while checking and correcting if necessary.
- The glass will now need to be cleaned again (see chapter 12 *Cleaning and maintenance*).



## 3 REMOVING AND INSTALLING THE GLASS PANEL

- Remove the decorative frame on the underside of the glass panel.
- Loosen the screws retaining the lower and upper glass holders. **APPENDIX 4 2**
- By placing the supplied rubber suction cup(s) in the centre of the glass panel, the glass panel can easily be removed from the appliance by first carefully moving it upwards and then pulling the bottom of the panel very carefully and slowly towards you; the glass panel should then be placed in a safe place where it cannot break or get damaged **APPENDIX 4 3**. If the dismantled glass panel is damaged (scratches and/or damaged edges) do not use the glass panel; notify the supplier.

### 3.1 Fitting the front glass panel

#### **CAUTION**

Refit the glass panel in the reverse order to removal.

### 3.2 AR glass (Optional)

AR glass is a non-reflecting glass. This glass has an AR coating on both sides of the glass. The anti-reflection layer reduces the reflection to a minimal gloss.

#### **NOTE**

- The AR glass with coating is more sensitive to damage than normal glass.
- Always wear soft cotton gloves when removing and installing AR glass.
- The rubber suction cup(s) must be clean.
- If the dismantled glass panel is damaged (scratches and/or damaged edges) do not use the glass pane; notify the supplier.
- Use the thermoCet cleaner set to clean the AR glass. Other cleaning agents can damage the AR glass coating.
- Do not use hard (abrasive) sponges, steel wool, abrasives and/or cleaning agents containing ammonia, (citric) acid or ceramic hob cleaner.
- Do not leave any residue, such as fingerprints, behind. These will burn in and cannot be removed.

#### **IMPORTANT**

After lighting for the first time, a haze may form on the inside of the glass panel. When the appliance has cooled down after the first use, the glass must be cleaned immediately. The glass must be cleaned again after the appliance has been in use for a month. After this, the amount of cleaning can be determined depending on the frequency of use of the appliance. Bear in mind that the glass can become dull if it is not cleaned in good time. Cleaning then becomes more difficult

## 4 INSTALLATION OF THE CERAMIC WOOD SET AND DISPERSION MEDIUM

### NOTE

The slot around the burner must be kept free of glowing material. If you put in too much glowing material, this can affect the burning process.

### CAUTION

Always ensure the pilot flame remains free of any material.

- Spread the grit evenly over the burner so that it is just covered. Place the large chips on the grille around the burner.
- Then put the logs in place in the correct order. Be careful when handling the logs. Placing the logs in the wrong place can have a negative affect on the flames and/or prevent the burner from working properly (soot formation).
- If desired, some small chips can be placed in the open spaces between the logs on the burner.
- Some glowing material can be placed here and there for decoration.
- Before reinserting the glass panels, check whether or not a restrictor needs to be installed. See chapter 9 *Concentric Pathways*.
- Remove the baffle plate by unscrewing it at the front of the plate and then taking it out to the rear.

- Fit the restrictor with the two screws supplied if this has been prescribed for your situation **APPENDIX 4 6**. Refit the baffle plate in the reverse order.
- Ignite the appliance, check the pilot flame and burners light easily and that the flames flow evenly along the logs. If this is not the case, check or adjust the position of the logs.

### CAUTION

In certain exhaust routes, the baffle plate is not replaced, see Chapter 9 *Concentric Pathways*.



Trimline 140 Tunnel/Front DB (1149/1139), see page 13.



Trimline 100 Tunnel/Front DB (1135/1136), see page 7.



Trimline 170H Front DB (1148), see page 16.



Trimline 120 Tunnel/Front DB (1138/1137), see page 10.



Trimline 170 Front DB (1048), see page 19.



Logs set (Total 12 pieces)



Distribute the grit evenly over the burner.



Fit the grille and distribute the chips evenly.

## Trimline 100 Tunnel/Front DB (1135/1136)

Put the logs in place in the correct order, starting at A, B, C and so on.

### Description of icons

Distance in mm


 = Left side wall

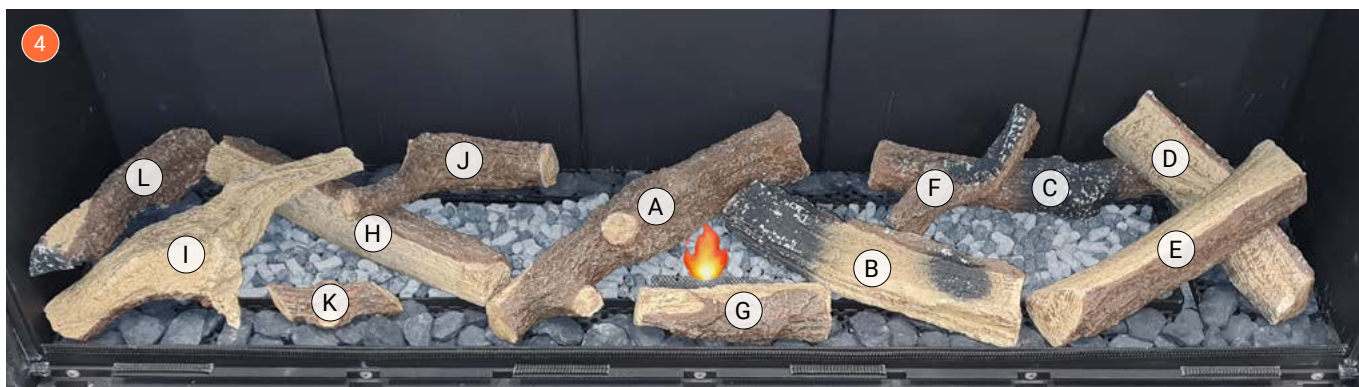
 = Right side wall

 = Front glass panel

 = Rear wall or rear glass panel

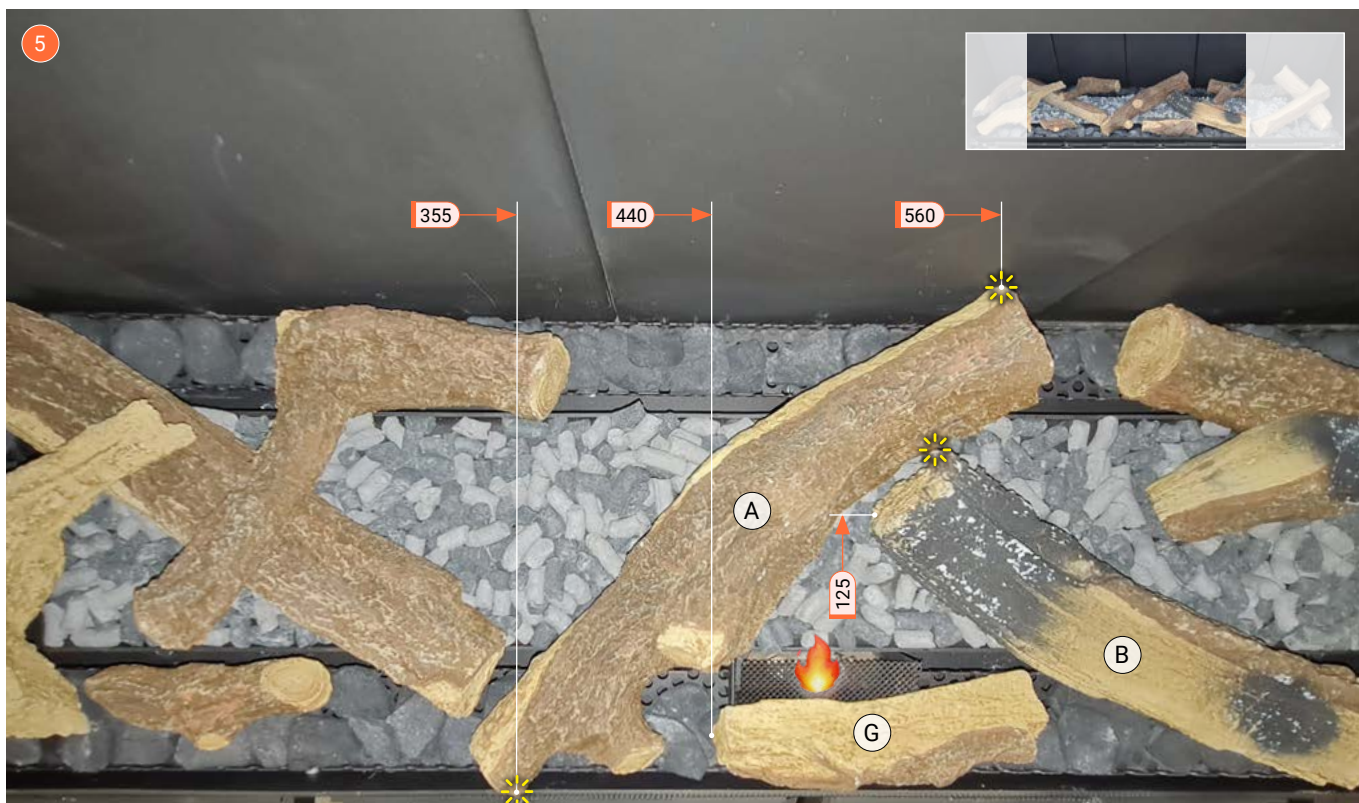
 = log touches wall, glass panel or adjacent block

 = pilot light



Log positioning.

### Middle

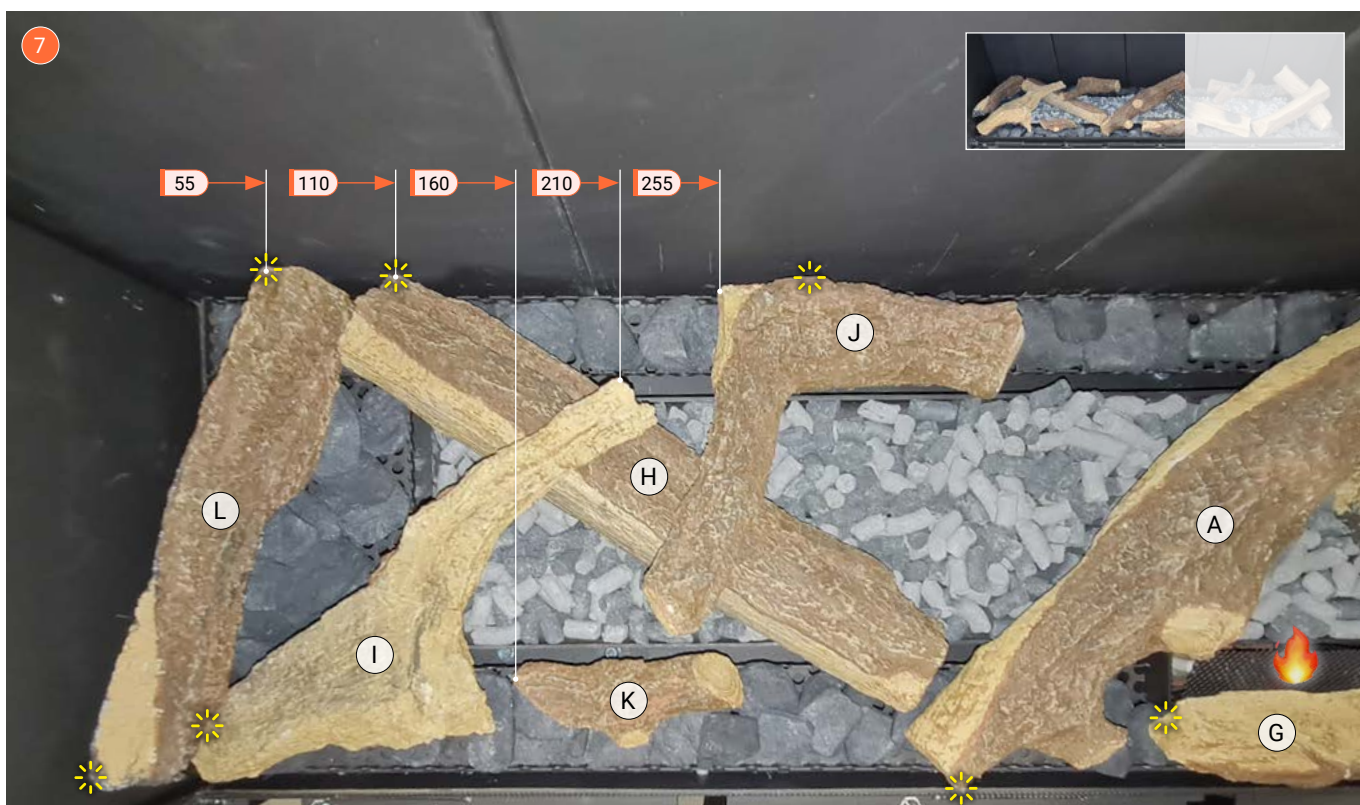




Right



Left





Logs set (Total 14 pieces)



Distribute the grit evenly over the burner.



Fit the grille and distribute the chips evenly.



# Trimline 120 Tunnel/Front DB (1138/1137)

Put the logs in place in the correct order, starting at 1, 2, 3 and so on.

## Description of icons

Distance in mm

100 → = Left side wall

← 100 = Right side wall



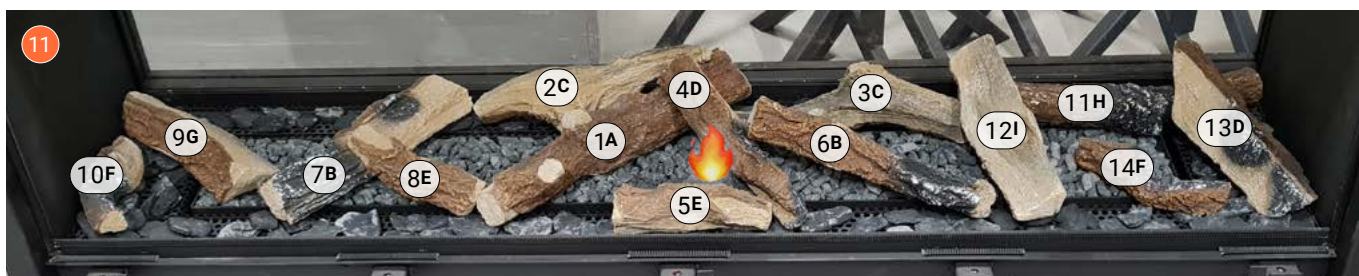
100 = Front glass panel



100 = Rear wall or rear glass panel

☀ = log touches wall, glass panel or adjacent block

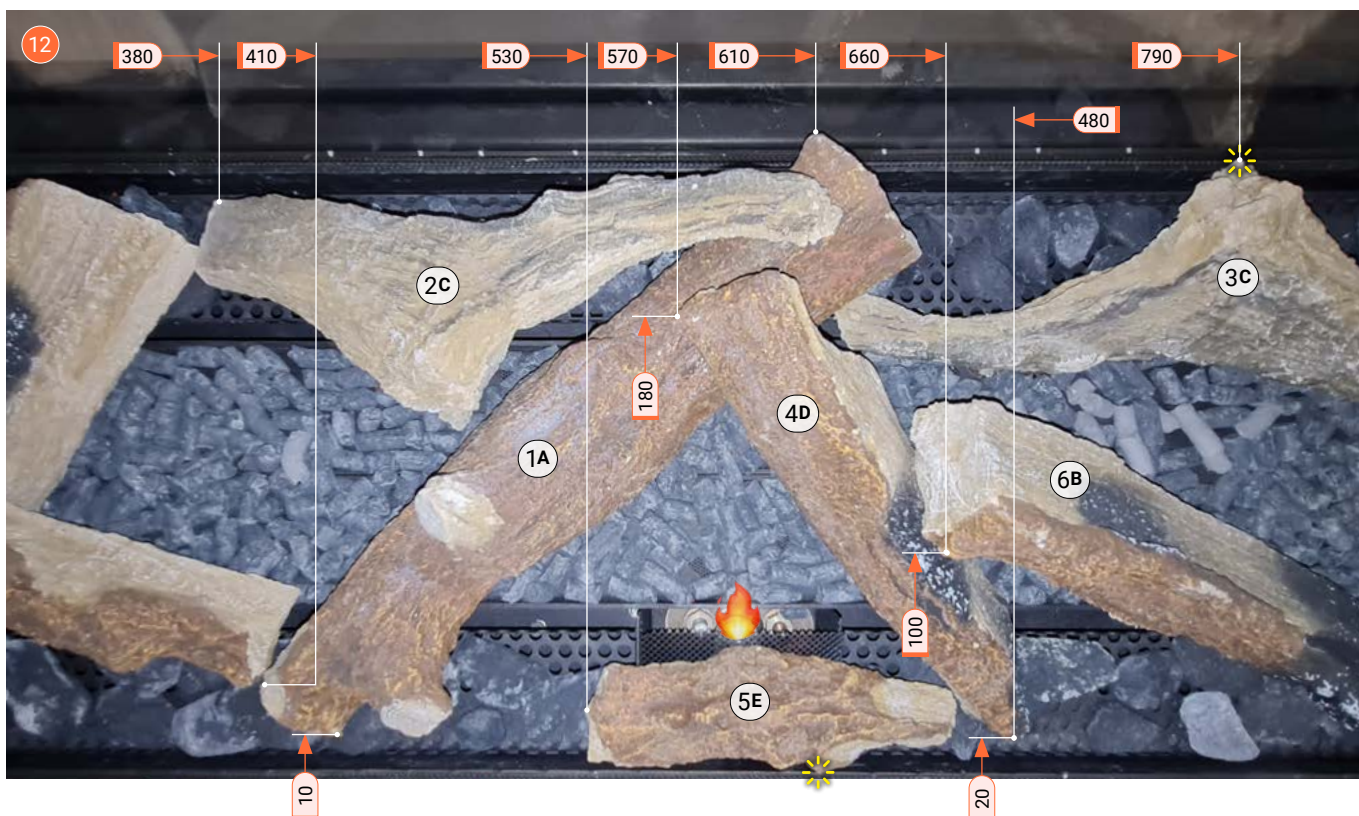
🔥 = pilot light



Log positioning.



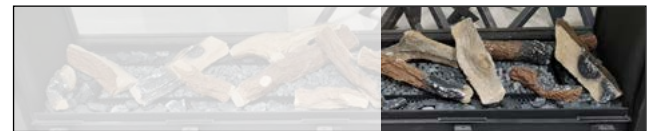
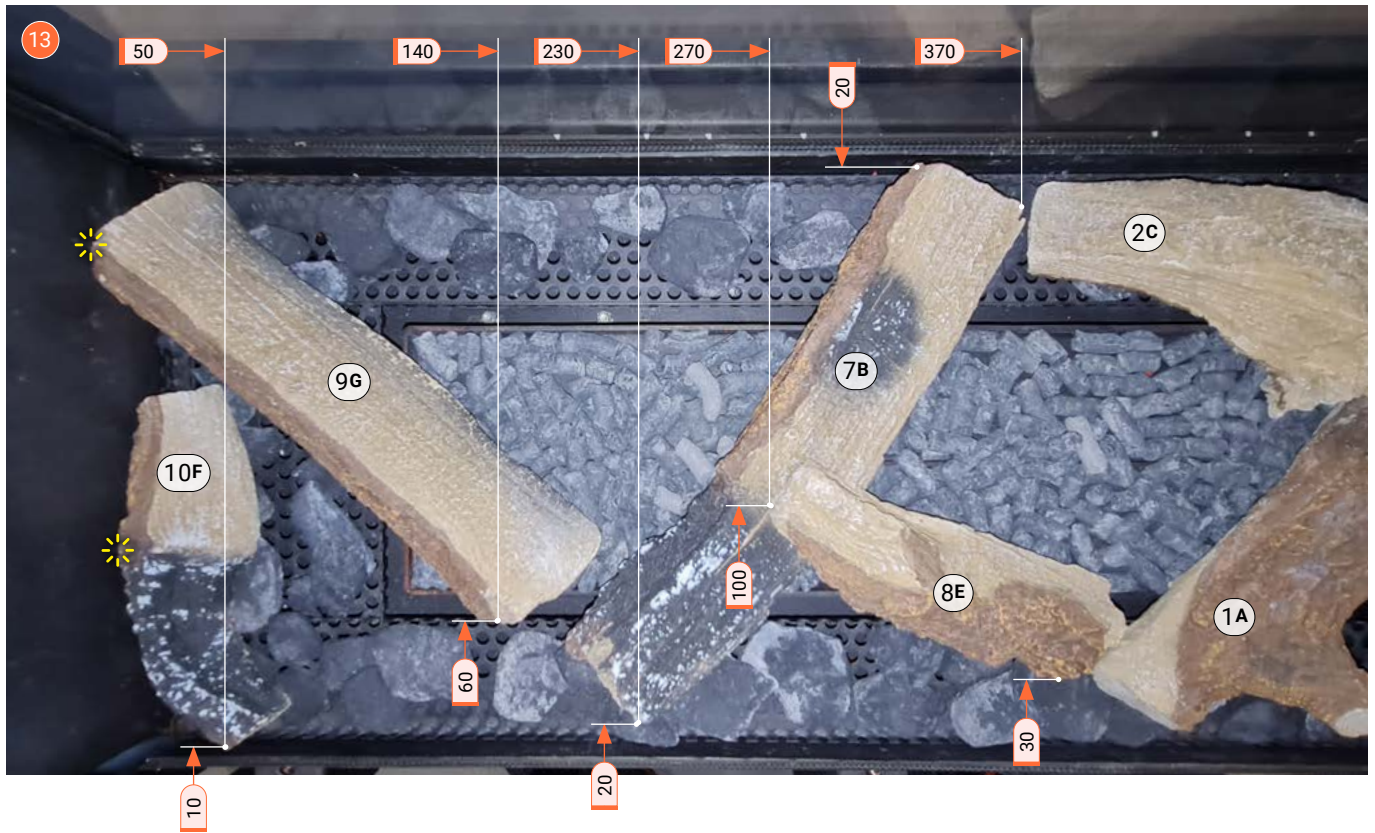
## Middle



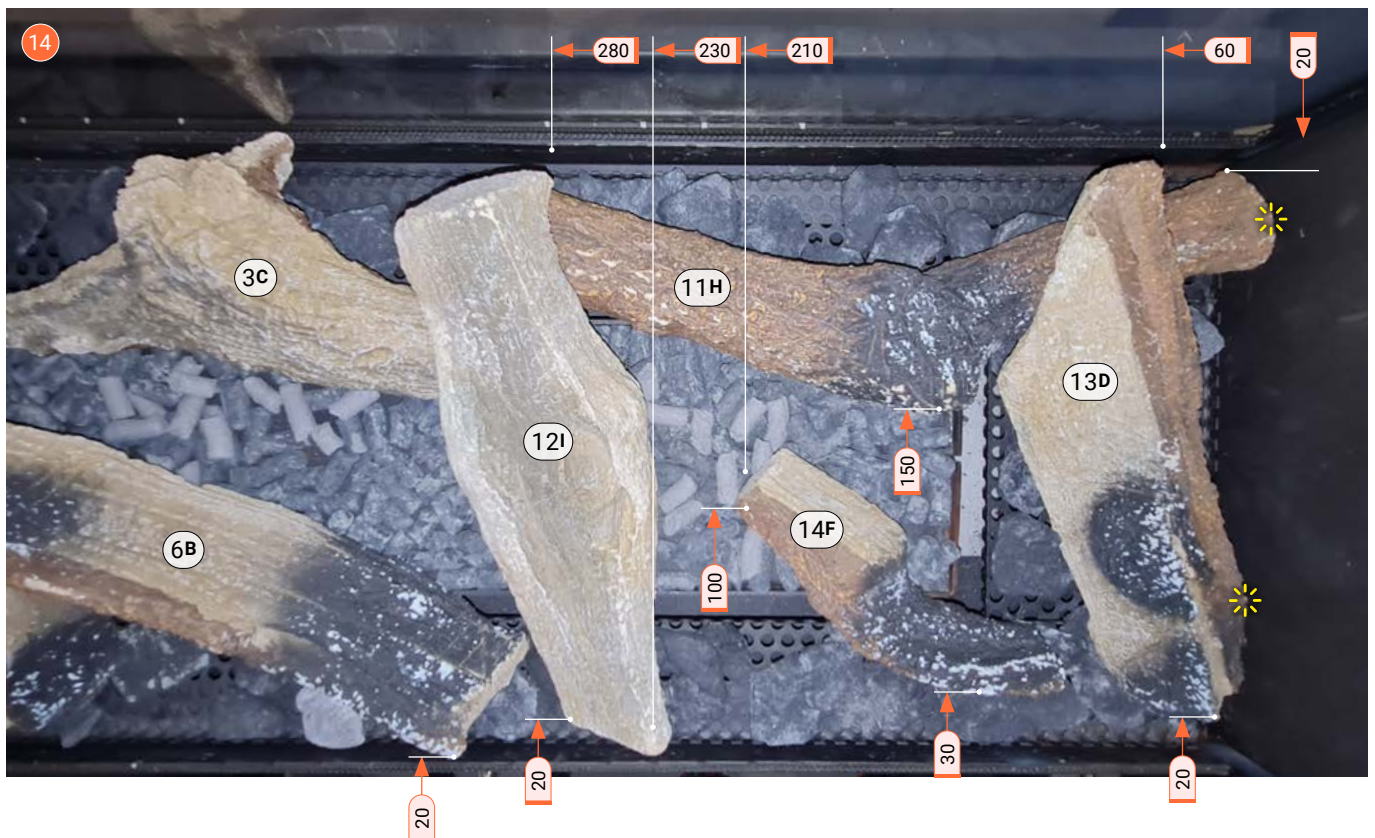




Left

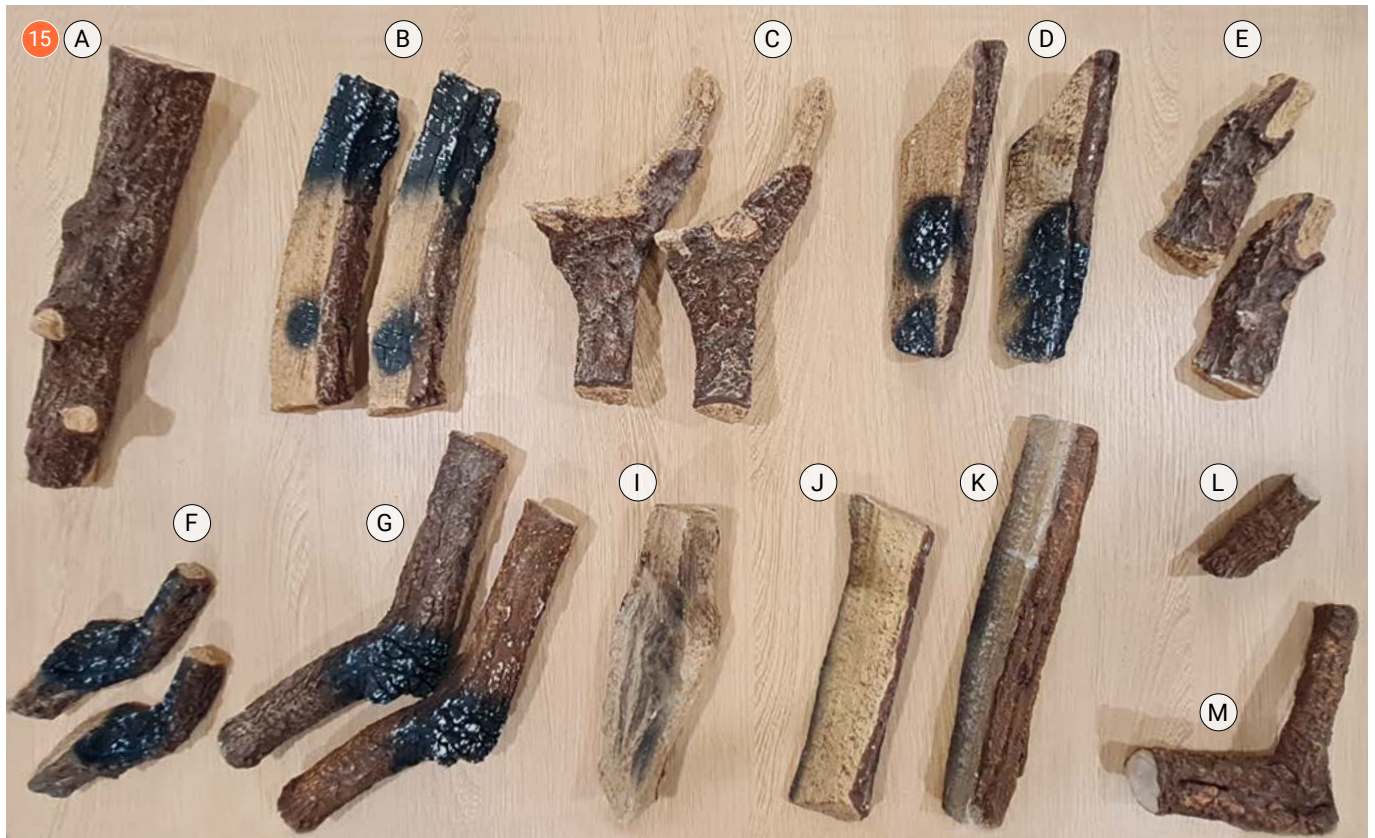


Right





Logs set (Total 18 pieces)



Distribute the grit evenly over the burner.



Fit the grille and distribute the chips evenly.



# Trimline 140 Tunnel/Front DB (1149/1139)

Put the logs in place in the correct order, starting at 1, 2, 3 and so on.

## Description of icons

Distance in mm

100 → = Left side wall

← 100 = Right side wall



100 = Front glass panel



100 = Rear wall or rear glass panel

☀ = log touches wall, glass panel or adjacent block



= pilot light



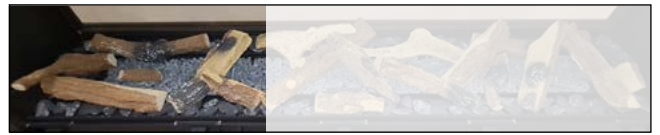
Log positioning.



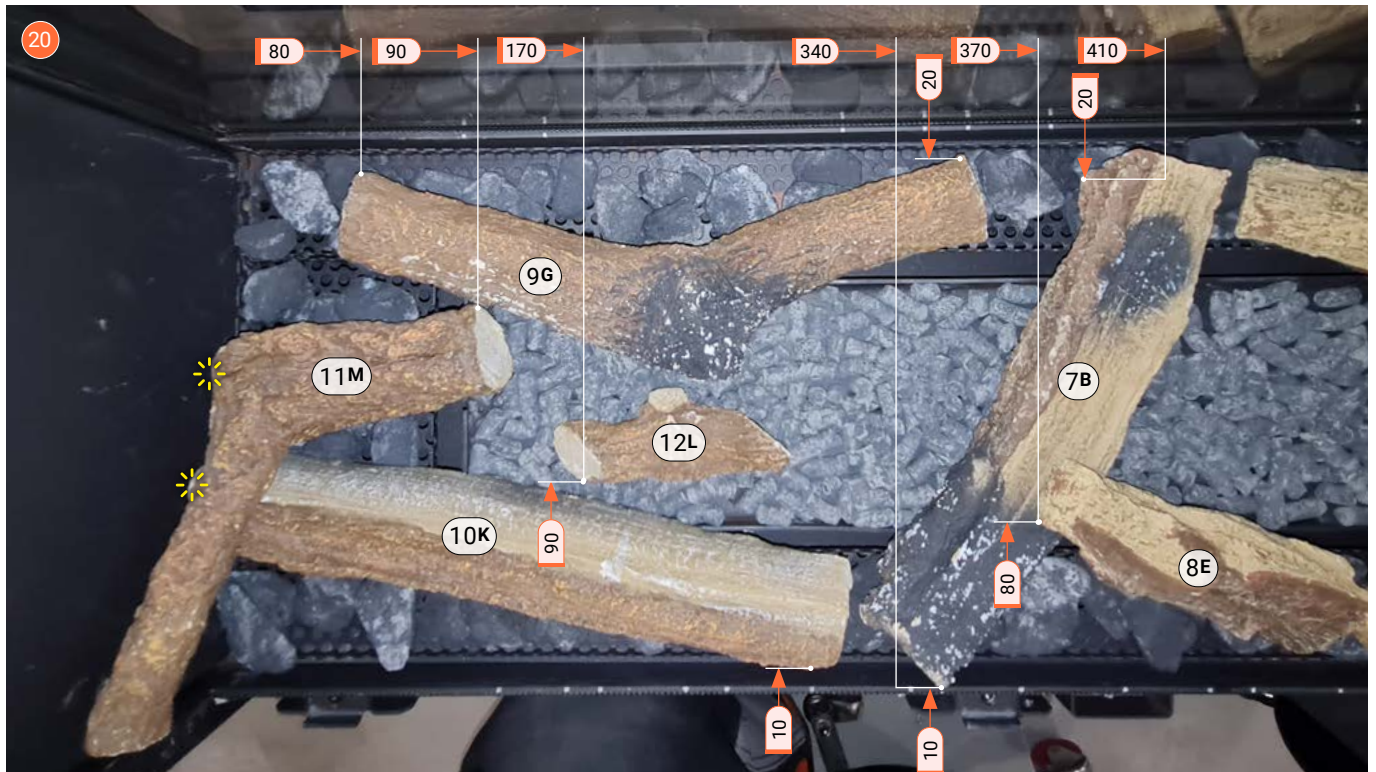
## Middle



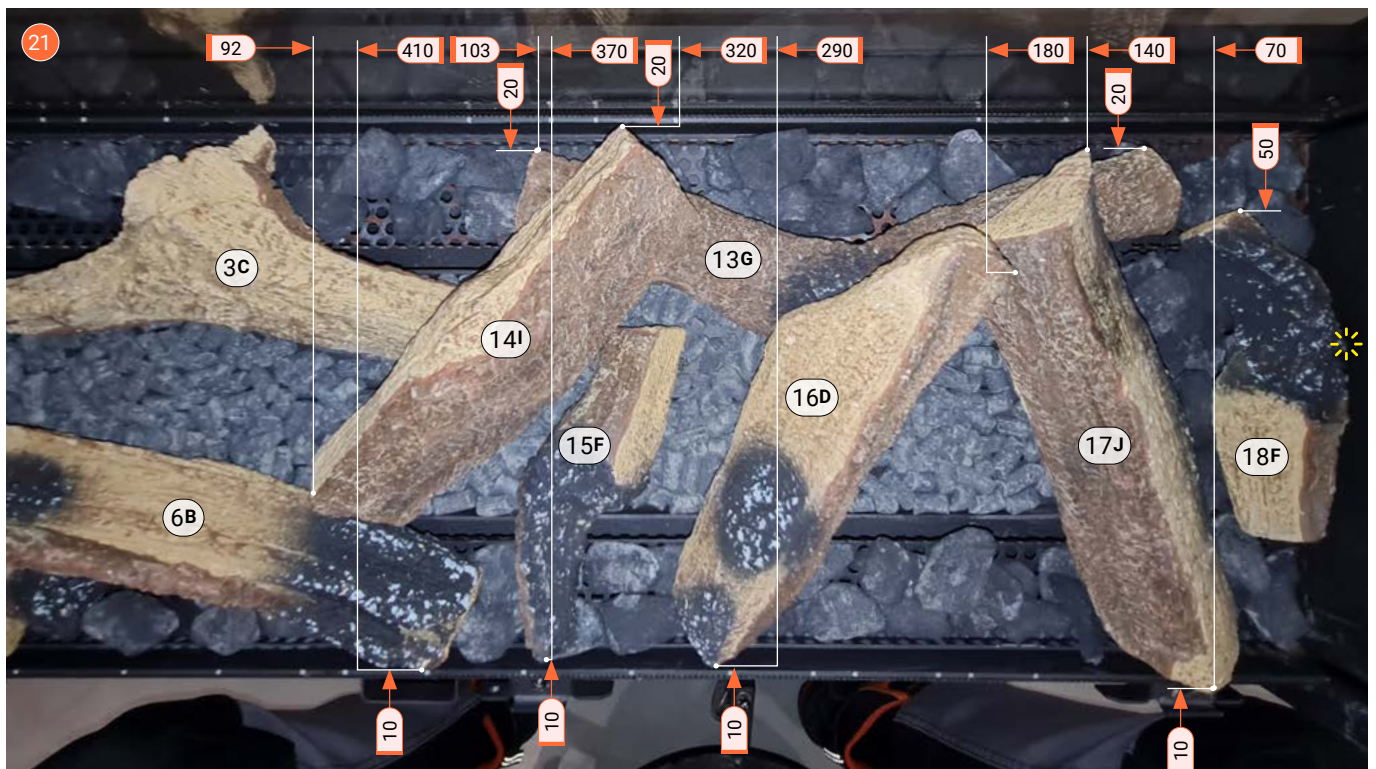




Left



Right





Logs set (Total 19 pieces)



Distribute the grit evenly over the burner.



Fit the grille and distribute the chips evenly.



# Trimline 170H Front DB (1148)

Put the logs in place in the correct order, starting at 1, 2, 3 and so on.

## Description of icons

Distance in mm

100 → = Left side wall

← 100 = Right side wall



100 = Front glass panel

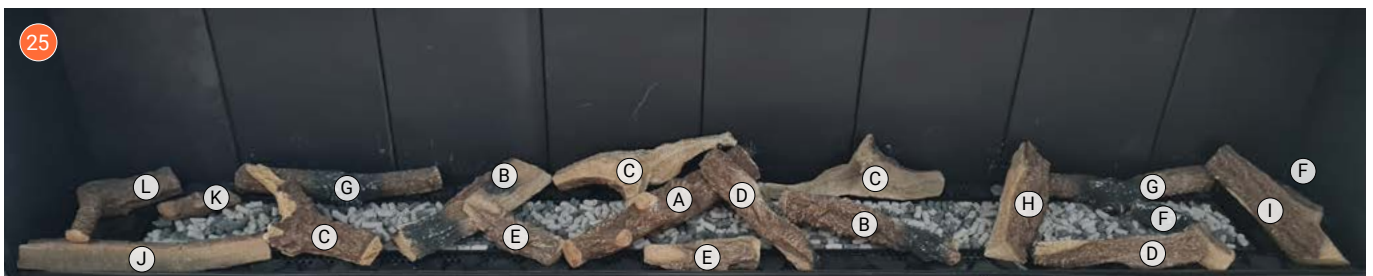


100 = Rear wall

☀ = log touches wall, glass panel or adjacent block



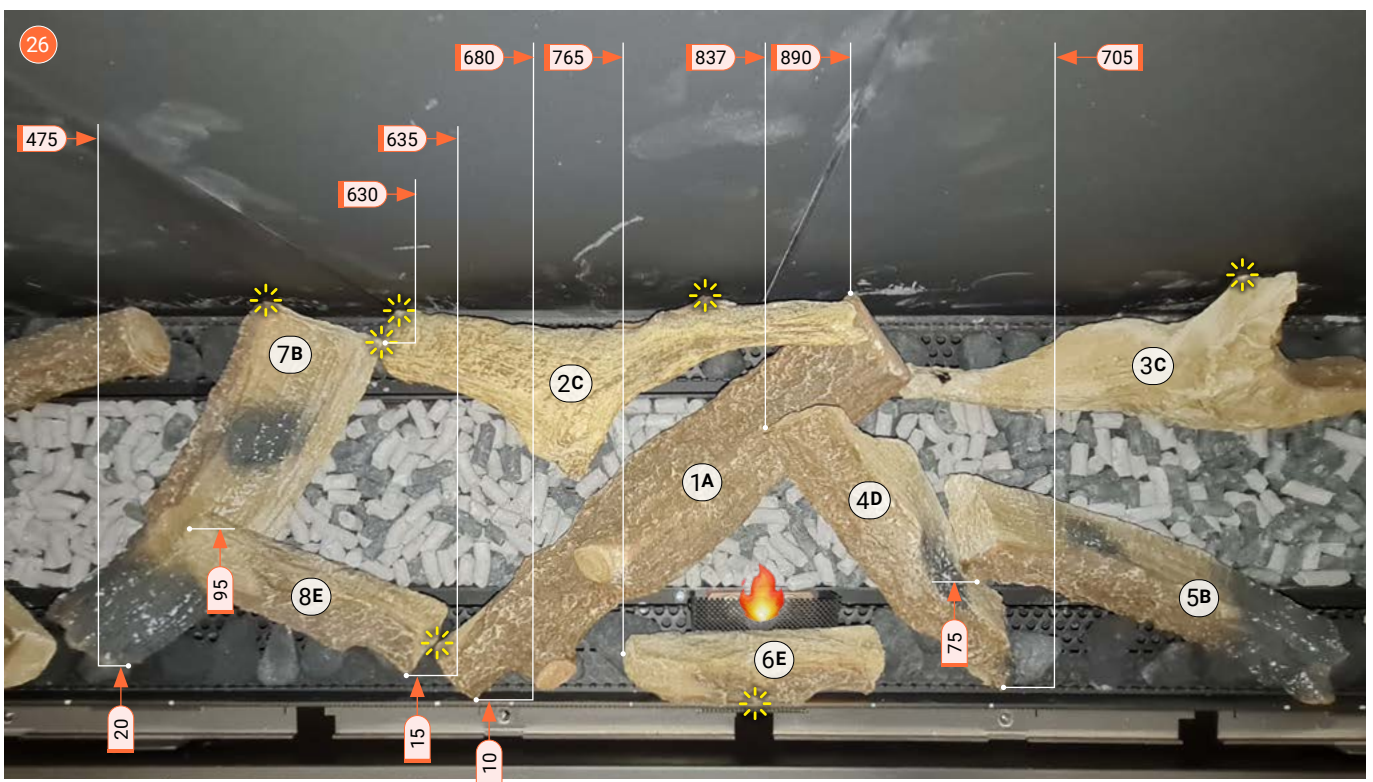
= pilot light

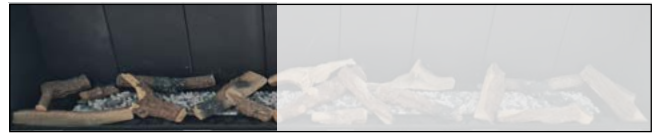


Log positioning.

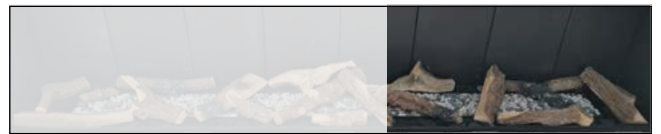
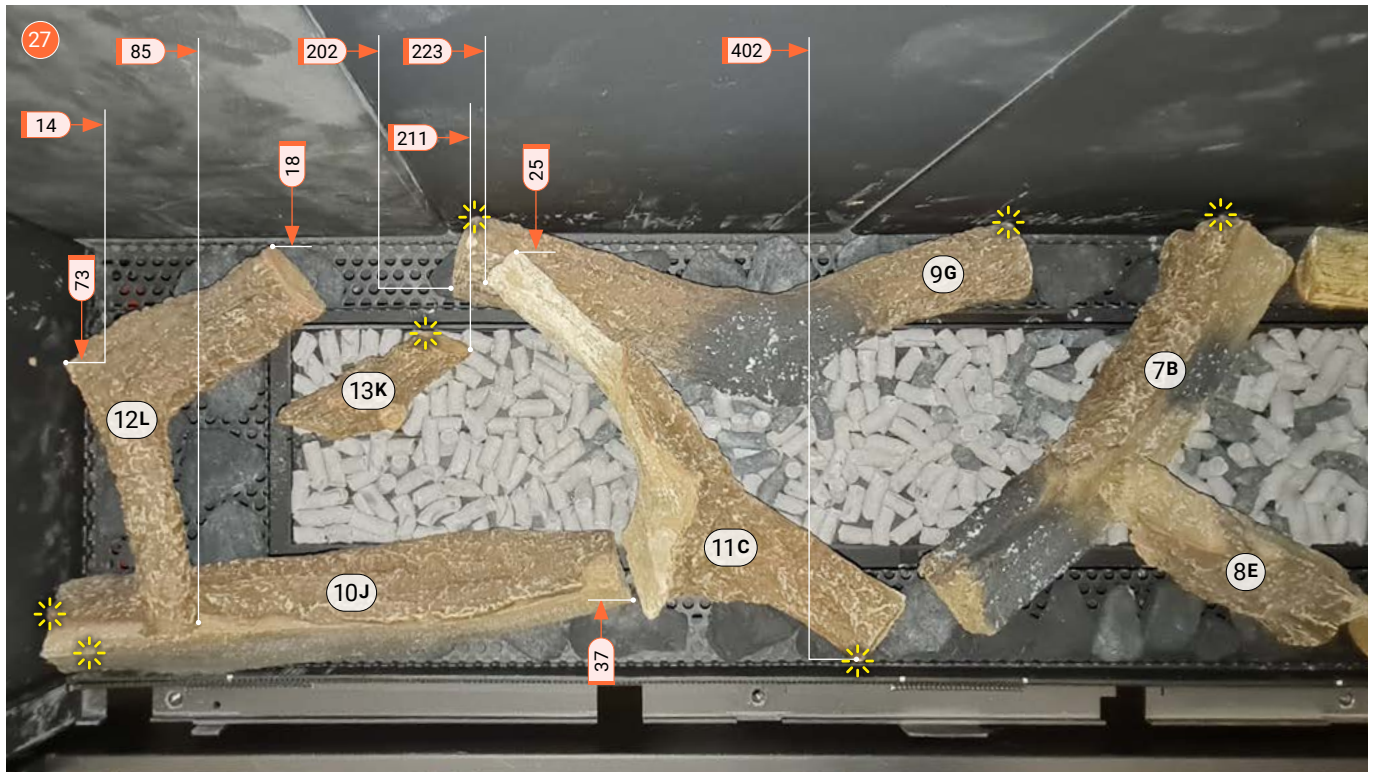


## Middle

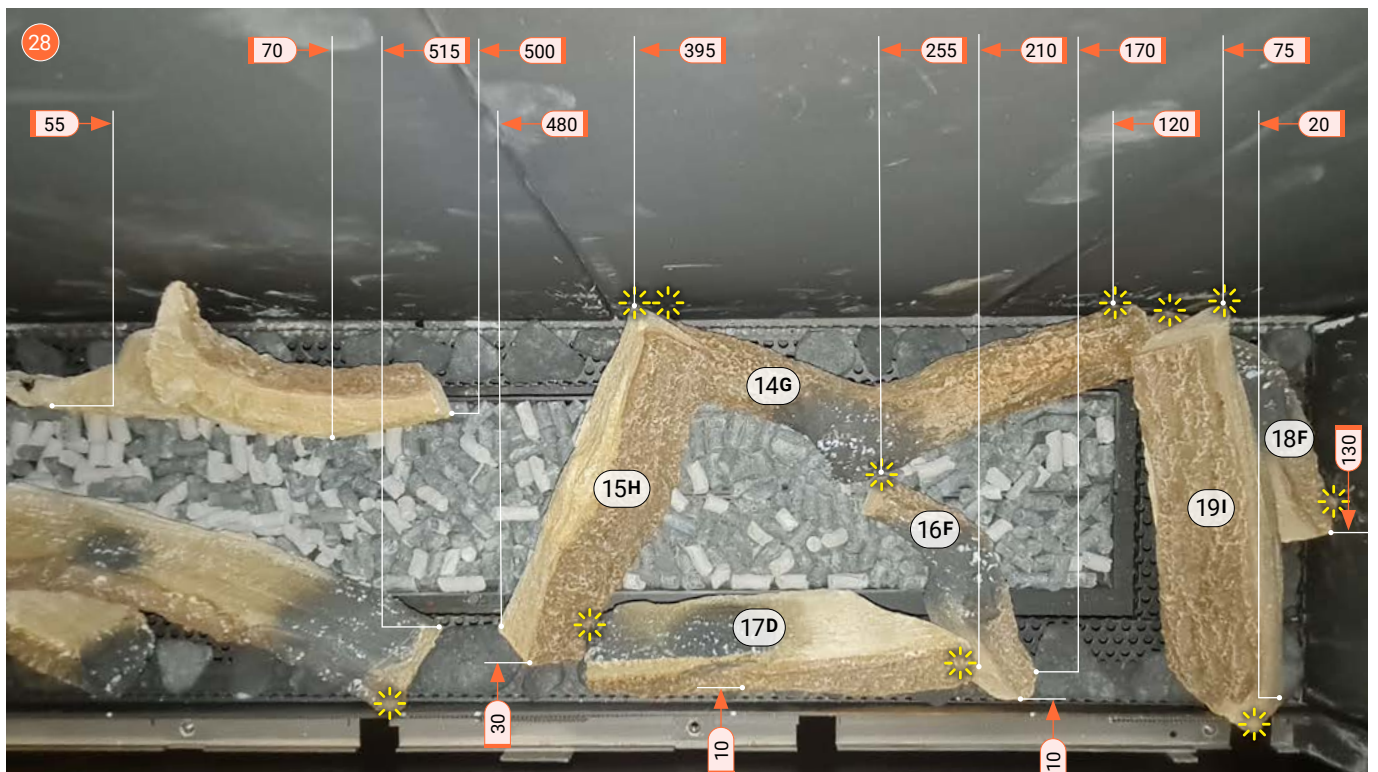




Left



Right





Logs set (Total 14 pieces)



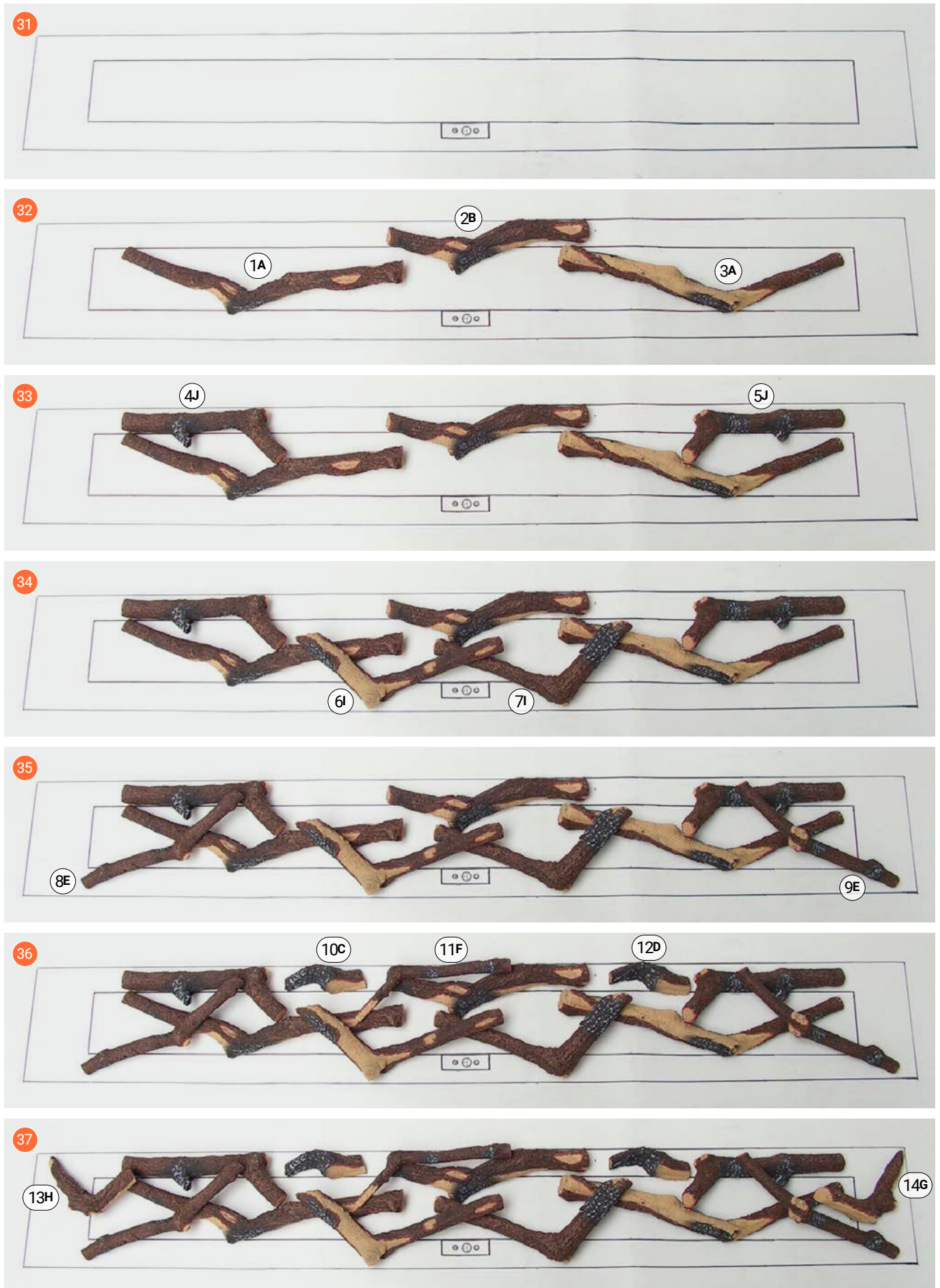
Distribute the grit evenly over the burner.



Fit the grille and distribute the chips evenly.

# Trimline 170 Front DB (1048)

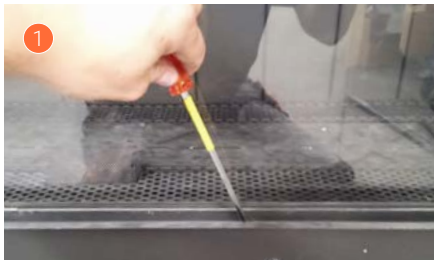
Put the logs in place in the correct order, starting at 1, 2, 3 and so on.





## 5 INSTALLATION HIGH GLOSS BLACK GLASS (OPTION)

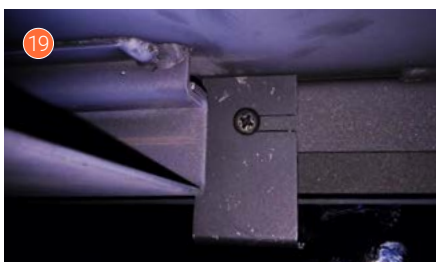
- Remove the decorative frame on the underside of the glass panel.
- Loosen the screws retaining the lower and upper glass holders. **1 2**
- Place the suction cup centrally on the glass panel. Slide the glass upwards and then tilt the bottom edge towards you to remove the glass panel **3**. Put the glass panel in a place where it will not get damaged.
- Take out the grille **4**. Lift the grille up and remove it by tilting it **5**. You can see the slats in the rebate. **6**
- Each slat can be taken out by hand: push the slat upwards, pull it towards you with a suitable tool and then lower it. **7 8 9 10 11**
- When all the slats have been removed, you can see a flat rear wall. **12**
- Open the packaging protecting the black glass. The package contains the following parts:
  - Slats **13**
  - Black glass **14**
  - Two mounting brackets and screws **15**
- Place the two slats against the rear wall. The pre-drilled holes are located at the top. Use the screws to loosely fit the brackets. The brackets hold the glass panel in position. If the holes are not visible, the baffle plate must be removed first.



- Place the suction cup centrally on the glass panel. 16
- Push the black glass panel into the rebate at the top 17. Now allow the glass panel to gently slide down into the bottom rebate. 18
- Tighten the screws in the brackets to secure the black glass panel in position. 19 20
- Reposition the grille. 21
- Assemble the side using the same procedure as for the rear.

**CAUTION**

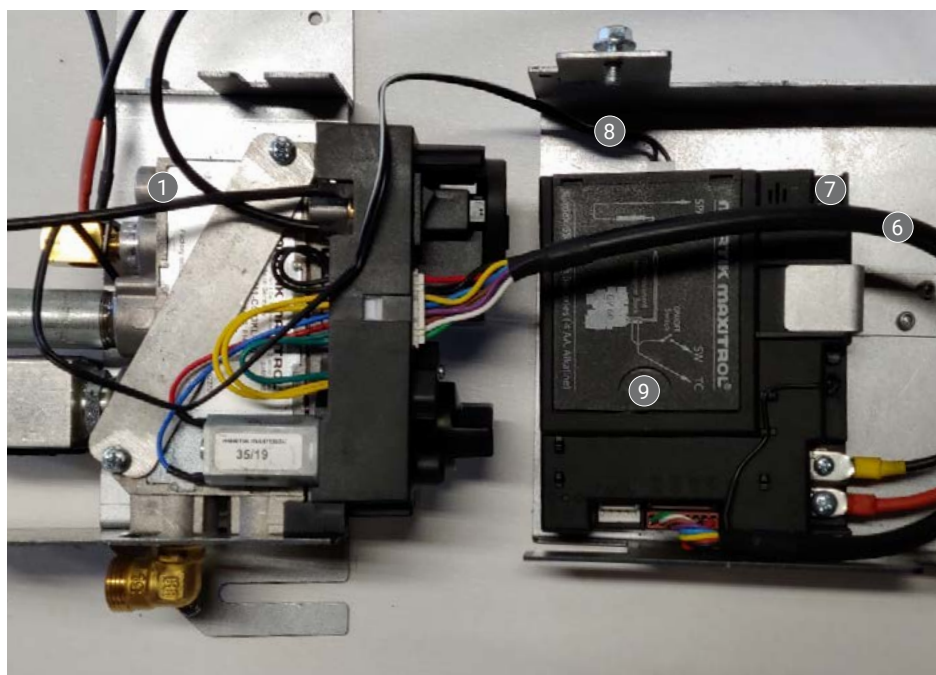
The glass panel is not retained in the rebate at the top and may tip.

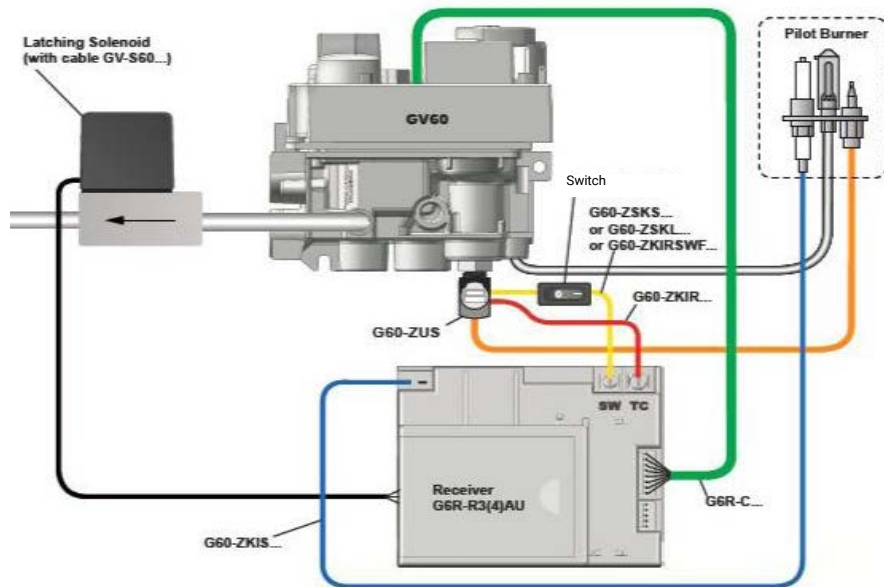
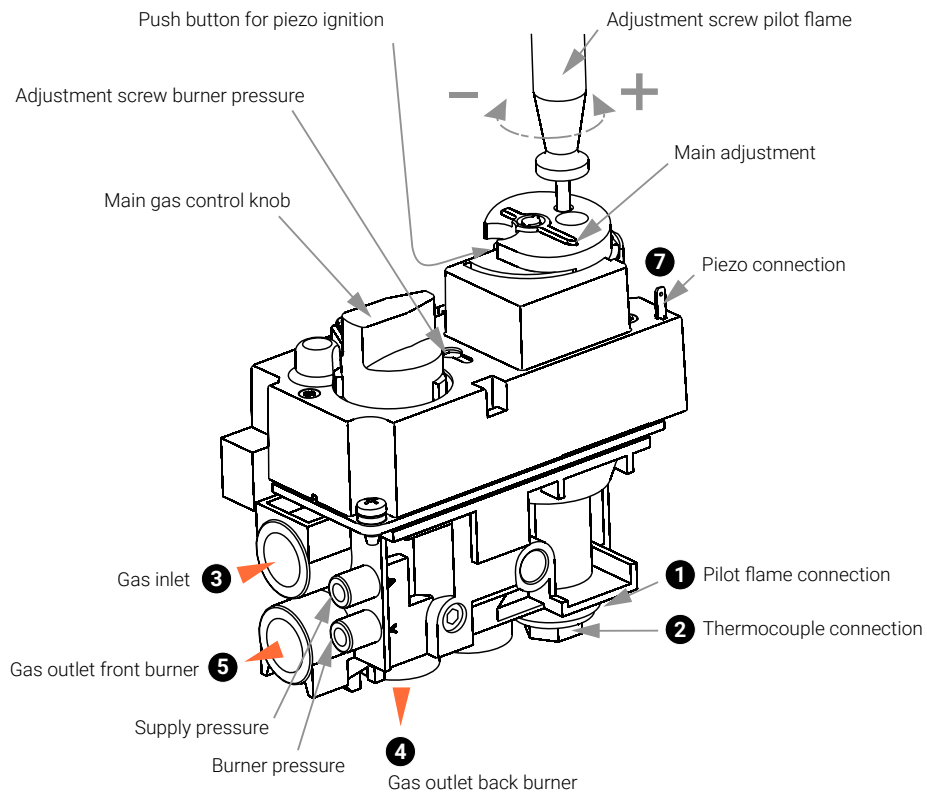




## 6 TECHNICAL DETAILS MAXITROL GV60

Gas valve type	Maxitrol GV60	
Automatic ignition control type	B6R-R8P (Wifi Ready)	
Ignition	Remote control operation and piezo ignition	
Gas connection	<ul style="list-style-type: none"> <li>❶ Pilot flame connection</li> <li>❷ Thermocouple connection</li> <li>❸ Gas inlet 3/8" external</li> <li>❹ Gas outlet back burner</li> <li>❺ Gas outlet front burner</li> </ul>	<ul style="list-style-type: none"> <li>❹ Multi cable</li> <li>❷ Piezo connection</li> <li>❸ Connector double burner</li> <li>❹ Receiver</li> </ul>
Appliance category	C11-C31-C91	
Pilot flame	SIT 3 flames	
Security	Thermocouple principle	





Schematic diagram.

**⚠ WARNING**

Sealed parts must not be adjusted.

## 7 INSTRUCTIONS FOR MAXITROL GV60

### WARNING

- Ensure the fuel supplied to the appliance is clean and free from particles and moisture.
- The appliance must not be turned on if the glass pane(s) is not present and/or is broken.

Before a gas supply pipe (new or existing) is connected to the main gas pipe at the gas meter and to the gas valve of the appliance, clean and dry compressed air needs to have been blown through it. Copper and aluminium pilot flame pipes that have been cut must be deburred and blown clean before they are connected.

### Heat, moisture and dust are a threat to all electronic components

Protect the electronic gas control until all construction, plastering and paintwork has been completed. If you cannot avoid this work, then protect the control against dirt and moisture penetration by covering it with plastic film for instance.

### WARNING

- Electronic components become permanently faulty when they are exposed to temperatures higher than 60°C. Normal AA batteries will crack open at temperatures >54°C and the battery contents will damage the electronic switches below. Batteries have the longest life span at <25°C.
- Only install the gas valve and receiver as pre-installed at the factory.
- Remember that components may have to be replaced or that repairs may have to be performed at a later date. This may prove to be more difficult if the control is installed in a different way to how we have described in instructions

### Only insert the batteries after the receiver, gas valve and pilot flame have been wired.

Premature connection to the power source can damage the electronics.

### NOTE

Batteries must not be fitted in the receiver when using the power adapter.

### Ensure the ignition cable is not near the antenna wire and that they do not cross each other.

The high voltage released during ignition may damage the sensitive receiver circuit of the antenna. This could mean the appliance becomes less responsive or totally unresponsive to commands from the handset.

### NOTE

- Do not tighten the contact breaker and the thermocouple connection too tightly on the gas valve.
- It is sufficient to tighten by hand and add a half a turn with an open-end spanner. Tightening too much will break the connection to the magnetic coil below and/or the insulation around the aluminium contact pin in the contact breaker. This may cause the magnetic coil to not open the gas supply to the pilot flame and prevent the appliance from functioning.

Prevent leakage of ignition spark to parts of the installation other than the ignition rod on the pilot flame. Ensure the ignition cable is not in contact with the body or other metal parts. If a cable extension is used, ensure the connections have additional silicone insulation.

The receiver and the control units on the gas valve should be switched on to ensure automatic start-up via the remote control. The oval disc on the gas valve should be turned to the **ON** position. The **I/O** switch should be set to **I**. The ignition cable should be connected to the **SPARK** connection point on the receiver.

The system's thermostat sensor is located inside the remote control. The remote control operates best at a distance of 2 or 3 metres away from the appliance. Although communication occurs via shortwave radio signals, it is recommended that you place the remote control in the line of sight of the gas appliance, in a place where the user wishes to experience a pleasant temperature. Do not place the manual transmitter in direct sunlight or other warm locations. The thermostat measures the temperature and, accordingly, regulates the flame size of the gas appliance.

### NOTE

- Sealed parts must not be adjusted, to do so would void the warranty.
- A waiting time of 5 minutes between each start attempt must be observed.
- Remove batteries not with a metal tool. Removing batteries with a metal object can permanently damage the electronic control.

## 8 GAS-TECHNICAL SPECIFICATIONS

Type of indication(s)		Trimline 100 Tunnel/Front (1135/1136)			
Appliance type		C11, C31, C91			
Concentric extraction system		Holetherm CC 130-200			
Gas type		G25,3	G20/25	G20	G20↔25
Supply pressure in mbar		25	20	20	20↔25
Country		NL	DE	AT/CH/CZ/DE/DK/EE/ES/FI/GB/GR/HR/IE/IT/LT/LU/ LV/NO/PL/PT/RO/SE/SI/SK/TR/NL	BE/FR
Category		I <sub>2</sub> EK I <sub>2</sub> (43,46-45,3 MJ/m <sup>3</sup> )	I <sub>2</sub> ELL	I <sub>2</sub> H/-/ I <sub>2</sub> E	I <sub>2</sub> E*
Primary air per burner	mm	2x(2xØ7mm)	2x(2xØ7mm)	2x(2xØ7mm)	2x(2xØ7mm)
Supply pressure	mbar	25	20	20	20↔25
Burner pressure - high position	mbar	17,8	14,3	14,3	14,3/17,8
Burner pressure - low position	mbar	4,2	3,4	3,4	3,4/4,2
Injector orifice	Ømm	2xØ1,9	2xØ1,9	2xØ1,9	2xØ1,9
Pilot flame injector	CODE	51	51	51	51
Low position orifice	mm	Ø1,8	Ø1,8	Ø1,8	Ø1,8
Load Hs	kW	10,7	9,3	11,3	11,3
Load Hi	kW	9,6	8,1	10,2	10,2
Gas consumption	m <sup>3</sup> /h	1,162	1,000	1,082	1,082
Nominal power - high position	kW	7,5	6,2	8,0	8,0
Nominal power - low position	kW	2,6	2,3	2,7	2,7
NOx Hi EN613	classe	5	5	5	5
Efficiency Class EN613		2	2	2	2
<b>Useful return (NCV) system**</b>					
For nominal heat output	%	77,7	76,0	78,7	78,7
For minimal heat output	%	66,9	65,5	66,4	66,4
<b>Supplementary electricity consumption</b>					
Nominal	kWh	0,0072	0,0072	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003	0,0003	0,0003
<b>Energy efficiency***</b>					
Energy efficiency index (EEI)	%	82	82	82	82
Energy label		B	B	B	B
NOx Hs	mg/kWh	<130	<130	<130	<130
<b>Heat output type/room temperature control</b>					
Indirect heat functionality					No
Single stage heat output, no room temperature control					No
2 or more manually-adjustable stages, no control of the room temperature					No
With mechanical control of room temperature by thermostat					No
With electronic control of room temperature					Yes
With electronic control of room temperature plus day-time switch					Yes
With electronic control of room temperature plus week-time switch					Yes
<b>Other control options</b>					
Control of room temperature with presence detection*					Yes
Control of room temperature with open window detection*					Yes
With remote control option					Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188

Type of indication(s)		Trimline 100 Tunnel/Front (1135/1136)	
Appliance type		C11, C31, C91	
Concentric extraction system		Holetherm CC 130-200	
Gas type		G30/G31	G30
Supply pressure in mbar		(28-30)-37	30/50
Country		BE/CH/CY/CZ/ES/FR/GB/GR/IE/IT/LT/PT/SI/TR/ (2021)	NL/AT/CH/CY/CZ/DE/DK/EE/FI/GR/HR/HU/IT/LT/NO/PL/RO/SE/SI/TR (2021)
Category		I3+	I3B/P
Primary air per burner	mm	2x(3xØ16)	2x(3xØ16)
Supply pressure	mbar	(28-30)-37	30/50 If burner pressure is 50 mbar, make corrections
Burner pressure - high position	mbar	20,0	20,0
Burner pressure - low position	mbar	6,9	6,9
Injector orifice	Ømm	2xØ1,25	2xØ1,25
Pilot lame injector	CODE	30	30
Low position orifice	mm	Ø1,3	Ø1,3
Load Hs	kW	10,4	10,4
Load Hi	kW	9,6	9,6
Gas consumption	m³/h	0,298	0,298
Nominal power - high position	kW	7,7	7,7
Nominal power - low position	kW	3,3	3,3
NOx Hi	classe	5	5
Efficiency Class EN613		2	2
<b>Useful return (NCV) system**</b>			
For nominal heat output	%	80,0	80,0
For minimal heat output	%	71,7	71,7
<b>Supplementary electricity consumption</b>			
Nominal	kWh	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003
<b>Energy efficiency***</b>			
Energy efficiency index (EEI)	%	82	82
Energy label		B	B
NOx Hs	mg/kWh	<130	<130

#### Heat output type/room temperature control

Indirect heat functionality	No
Single stage heat output, no room temperature control	No
2 or more manually-adjustable stages, no control of the room temperature	No
With mechanical control of room temperature by thermostat	No
With electronic control of room temperature	Yes
With electronic control of room temperature plus day-time switch	Yes
With electronic control of room temperature plus week-time switch	Yes
<b>Other control options</b>	
Control of room temperature with presence detection*	Yes
Control of room temperature with open window detection*	Yes
With remote control option	Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188

Suitable for biopropane.



Type of indication(s)		Trimline 120 Tunnel/Front (1138/1137)			
Appliance type		C11, C31, C91			
Concentric extraction system		Holetherm CC 130-200			
Gas type		G25,3	G20/25	G20	G20↔25
Supply pressure in mbar		25	20	20	20↔25
Country		NL	DE	AT/CH/CZ/DE/DK/EE/ES/FI/GB/GR/HR/IE/IT/LT/LU/ LV/NO/PL/PT/RO/SE/SI/SK/TR/NL	BE/FR
Category		I <sub>2</sub> EK I <sub>2</sub> (43,46-45,3 MJ/m <sup>3</sup> )	I <sub>2</sub> ELL	I <sub>2</sub> H/-/ I <sub>2</sub> E	I <sub>2</sub> E*
Primary air per burner	mm	2x(2xØ5,5)	2x(2xØ5,5)	2x(2xØ8,5)	2x(2xØ5,5)
Supply pressure	mbar	25	20	20	20↔25
Burner pressure - high position	mbar	14,0	11,2	11,2	11,2/14,0
Burner pressure - low position	mbar	5,2	4,2	4,2	4,2/5,2
Injector orifice	Ømm	2xØ2,2	2xØ2,2	2xØ2,2	2xØ2,2
Pilot flame injector	CODE	51	51	51	51
Low position orifice	mm	Ø2,4	Ø2,4	Ø2,4	Ø2,4
Load Hs	kW	13,4	11,7	14,2	14,2
Load Hi	kW	12,0	10,5	12,8	12,8
Gas consumption	m <sup>3</sup> /h	1,450	1,289	1,358	1,358
Nominal power - high position	kW	9,2	7,9	10,0	10,0
Nominal power - low position	kW	4,2	3,6	4,5	4,5
NOx Hi EN613	classe	5	5	5	5
Efficiency Class EN613		2	2	2	2
<b>Useful return (NCV) system**</b>					
For nominal heat output	%	76,8	74,9	78,3	78,3
For minimal heat output	%	71,1	69,1	70,1	70,1
<b>Supplementary electricity consumption</b>					
Nominal	kWh	0,0072	0,0072	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003	0,0003	0,0003
<b>Energy efficiency***</b>					
Energy efficiency index (EEI)	%	83	83	83	83
Energy label		B	B	B	B
NOx Hs	mg/kWh	<130	<130	<130	<130
<b>Heat output type/room temperature control</b>					
Indirect heat functionality					No
Single stage heat output, no room temperature control					No
2 or more manually-adjustable stages, no control of the room temperature					No
With mechanical control of room temperature by thermostat					No
With electronic control of room temperature					Yes
With electronic control of room temperature plus day-time switch					Yes
With electronic control of room temperature plus week-time switch					Yes
<b>Other control options</b>					
Control of room temperature with presence detection*					Yes
Control of room temperature with open window detection*					Yes
With remote control option					Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188





Type of indication(s)		Trimline 120 Tunnel/Front (1138/1137)	
Appliance type		C11, C31, C91	
Concentric extraction system		Holetherm CC 130-200	
Gas type		G30/G31	G30
Supply pressure in mbar		(28-30)-37	30/50
Country		BE/CH/CY/CZ/ES/FR/GB/GR/IE/IT/LT/PT/SI/TR/ (2021)	NL/AT/CH/CY/CZ/DE/DK/EE/FI/GR/HR/HU/IT/LT/NO/PL/RO/SE/SI/TR (2021)
Category		I3+	I3B/P
Primary air per burner	mm	2x(3xØ16)	2x(3xØ16)
Supply pressure	mbar	(28-30)-37	30/50 If burner pressure is 50 mbar, make corrections
Burner pressure - high position	mbar	19,5	19,5
Burner pressure - low position	mbar	6,4	6,4
Injector orifice	Ømm	2xØ1,3	2xØ1,3
Pilot lame injector	CODE	30	30
Low position orifice	mm	Ø1,4	Ø1,4
Load Hs	kW	11,0	11,0
Load Hi	kW	10,2	10,2
Gas consumption	m³/h	0,315	0,315
Nominal power - high position	kW	7,9	7,9
Nominal power - low position	kW	3,6	3,6
NOx Hi	classe	5	5
Efficiency Class EN613		2	2
<b>Useful return (NCV) system**</b>			
For nominal heat output	%	77,3	77,3
For minimal heat output	%	74,6	74,6
<b>Supplementary electricity consumption</b>			
Nominal	kWh	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003
<b>Energy efficiency***</b>			
Energy efficiency index (EEI)	%	80	80
Energy label		C	C
NOx Hs	mg/kWh	<130	<130
<b>Heat output type/room temperature control</b>			
Indirect heat functionality			No
Single stage heat output, no room temperature control			No
2 or more manually-adjustable stages, no control of the room temperature			No
With mechanical control of room temperature by thermostat			No
With electronic control of room temperature			Yes
With electronic control of room temperature plus day-time switch			Yes
With electronic control of room temperature plus week-time switch			Yes
<b>Other control options</b>			
Control of room temperature with presence detection*			Yes
Control of room temperature with open window detection*			Yes
With remote control option			Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188

Suitable for biopropane.



Type of indication(s)		Trimline 140 Tunnel/Front (1149/1139)			
Appliance type		C11, C31, C91			
Concentric extraction system		Holetherm CC 130-200			
Gas type		G25,3	G20/25	G20	G20↔25
Supply pressure in mbar		25	20	20	20↔25
Country		NL	DE	AT/CH/CZ/DE/DK/EE/ES/FI/GB/GR/HR/IE/IT/LT/LU/LV/NO/PL/PT/RO/SE/SI/SK/TR/NL	BE/FR
Category		I <sub>2</sub> EK I <sub>2</sub> (43,46-45,3 MJ/m <sup>3</sup> )	I <sub>2</sub> ELL	I <sub>2</sub> H/-/ I <sub>2</sub> E	I <sub>2</sub> E*
Primary air per burner	mm	2x(2xØ4,5)	2x(2xØ4,5)	2x(2xØ4,5)	2x(2xØ4,5)
Supply pressure	mbar	25	20	20	20↔25
Burner pressure - high position	mbar	17,0	13,7	13,6	13,6/17,0
Burner pressure - low position	mbar	6,0	4,8	4,8	4,8/6,0
Injector orifice	Ømm	2xØ2,2	2xØ2,2	2xØ2,2	2xØ2,2
Pilot flame injector	CODE	51	51	51	51
Low position orifice	mm	Ø2,4	Ø2,4	Ø2,4	Ø2,4
Load Hs	kW	14,2	12,2	15,3	15,3
Load Hi	kW	12,8	10,0	13,8	13,8
Gas consumption	m <sup>3</sup> /h	1,542	1,351	1,457	1,457
Nominal power - high position	kW	10,1	8,5	11,0	11,0
Nominal power - low position	kW	4,1	3,6	4,5	4,5
NOx Hi EN613	classe	5	5	5	5
Efficiency Class EN613		2	2	2	2
<b>Useful return (NCV) system**</b>					
For nominal heat output	%	79,2	77,3	80,0	80,0
For minimal heat output	%	71,8	70,8	71,8	71,8
<b>Supplementary electricity consumption</b>					
Nominal	kWh	0,0072	0,0072	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003	0,0003	0,0003
<b>Energy efficiency***</b>					
Energy efficiency index (EEI)	%	86	86	86	86
Energy label		B	B	B	B
NOx Hs	mg/kWh	<130	<130	<130	<130
<b>Heat output type/room temperature control</b>					
Indirect heat functionality					No
Single stage heat output, no room temperature control					No
2 or more manually-adjustable stages, no control of the room temperature					No
With mechanical control of room temperature by thermostat					No
With electronic control of room temperature					Yes
With electronic control of room temperature plus day-time switch					Yes
With electronic control of room temperature plus week-time switch					Yes
<b>Other control options</b>					
Control of room temperature with presence detection*					Yes
Control of room temperature with open window detection*					Yes
With remote control option					Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188





Type of indication(s)		Trimline 140 Tunnel/Front (1149/1139)	
Appliance type		C11, C31, C91	
Concentric extraction system		Holetherm CC 130-200	
Gas type		G30/G31	G30
Supply pressure in mbar		(28-30)-37	30/50
Country		BE/CH/CY/CZ/ES/FR/GB/GR/IE/IT/LT/PT/SI/TR/ (2021)	NL/AT/CH/CY/CZ/DE/DK/EE/FI/GR/HR/HU/IT/LT/NO/PL/RO/SE/SI/TR (2021)
Category		I3+	I3B/P
Primary air per burner	mm	2x(3xØ16)	2x(3xØ16)
Supply pressure	mbar	(28-30)-37	30/50 If burner pressure is 50 mbar, make corrections
Burner pressure - high position	mbar	23,0	23,0
Burner pressure - low position	mbar	5,8	5,8
Injector orifice	Ømm	2xØ1,35	2xØ1,35
Pilot lame injector	CODE	30	30
Low position orifice	mm	Ø1,4	Ø1,4
Load Hs	kW	13,8	13,8
Load Hi	kW	12,7	12,7
Gas consumption	m³/h	0,394	0,394
Nominal power - high position	kW	10,2	10,2
Nominal power - low position	kW	3,9	3,9
NOx Hi	classe	5	5
Efficiency Class EN613		2	2
<b>Useful return (NCV) system**</b>			
For nominal heat output	%	80,0	80,0
For minimal heat output	%	71,7	71,7
<b>Supplementary electricity consumption</b>			
Nominal	kWh	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003
<b>Energy efficiency***</b>			
Energy efficiency index (EEI)	%	81	81
Energy label		C	C
NOx Hs	mg/kWh	<130	<130
<b>Heat output type/room temperature control</b>			
Indirect heat functionality			No
Single stage heat output, no room temperature control			No
2 or more manually-adjustable stages, no control of the room temperature			No
With mechanical control of room temperature by thermostat			No
With electronic control of room temperature			Yes
With electronic control of room temperature plus day-time switch			Yes
With electronic control of room temperature plus week-time switch			Yes
<b>Other control options</b>			
Control of room temperature with presence detection*			Yes
Control of room temperature with open window detection*			Yes
With remote control option			Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188

Suitable for biopropane.



Type of indication(s)		Trimline 170H Front (1148)			
Appliance type		C11, C31, C91			
Concentric extraction system		Holetherm CC 130-200			
Gas type		G25,3	G20/25	G20	G20↔25
Supply pressure in mbar		25	20	20	20↔25
Country		NL	DE	AT/CH/CZ/DE/DK/EE/ES/FI/GB/GR/HR/IE/IT/LT/LU/LV/NO/PL/PT/RO/SE/SI/SK/TR	BE/FR
Category		I <sub>2</sub> EK I <sub>2</sub> (43,46-45,3 MJ/m <sup>3</sup> )	I <sub>2</sub> ELL	I <sub>2</sub> H/-/ I <sub>2</sub> E	I <sub>2</sub> E*
Primary air per burner	mm	2x(2xØ4,5)	2x(2xØ8,5)	2x(2xØ8,5)	2x(2xØ8,5)
Supply pressure	mbar	25	20	20	20↔25
Burner pressure - high position	mbar	15,6	12,5	12,6	12,6
Burner pressure - low position	mbar	5,0	4,0	4,0	4,0
Injector orifice	Ømm	2xØ2,3	2xØ2,3	2xØ2,3	2xØ2,3
Pilot flame injector	CODE	51	51	51	51
Low position orifice	mm	Ø2,4	Ø2,4	Ø2,4	Ø2,4
Load Hs	kW	14,9	12,7	15,7	15,7
Load Hi	kW	13,4	11,4	14,1	14,1
Gas consumption	m <sup>3</sup> /h	1,611	1,000	1,497	1,497
Nominal power - high position	kW	10,9	9,1	11,6	11,6
Nominal power - low position	kW	4,0	3,4	4,3	4,3
NOx Hi EN613	classe	5	5	5	5
Efficiency Class EN613		2	2	2	2
<b>Useful return (NCV) system**</b>					
For nominal heat output	%	81,0	80,0	82,0	82,0
For minimal heat output	%	66,1	64,7	67,4	67,4
<b>Supplementary electricity consumption</b>					
Nominal	kWh	0,0072	0,0072	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003	0,0003	0,0003
<b>Energy efficiency***</b>					
Energy efficiency index (EEI)	%	81	80	82	82
Energy label		C	C	B	B
NOx Hs	mg/kWh	<130	<130	<130	<130
<b>Heat output type/room temperature control</b>					
Indirect heat functionality					No
Single stage heat output, no room temperature control					No
2 or more manually-adjustable stages, no control of the room temperature					No
With mechanical control of room temperature by thermostat					No
With electronic control of room temperature					Yes
With electronic control of room temperature plus day-time switch					Yes
With electronic control of room temperature plus week-time switch					Yes
<b>Other control options</b>					
Control of room temperature with presence detection*					Yes
Control of room temperature with open window detection*					Yes
With remote control option					Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188



Type of indication(s)		Trimline 170H Front (1148)	
Appliance type		C11, C31, C91	
Concentric extraction system		Holetherm CC 130-200	
Gas type		G30/G31	G30
Supply pressure in mbar		(28-30)-37	30/50
Country		BE/CH/CY/CZ/ES/FR/GB/GR/IE/IT/LT/PT/SI/TR/	NL/AT/CH/CY/CZ/DE/DK/EE/FI/GR/HR/HU/IT/LT/NO/PL/RO/SE/SI/TR
Category		I3+	I3B/P
Primary air per burner	mm	2x(3xØ16)	2x(3xØ16)
Supply pressure	mbar	(28-30)-37	30/50 If burner pressure is 50 mbar, make corrections
Burner pressure - high position	mbar	25,9	25,9
Burner pressure - low position	mbar	10,7	10,7
Injector orifice	Ømm	2x1,45mm	2x1,45mm
Pilot lame injector	CODE	30	30
Low position orifice	mm	Ø1,85	Ø1,85
Load Hs	kW	15,0	15,0
Load Hi	kW	14,3	14,3
Gas consumption	m³/h	0,442	0,442
Nominal power - high position	kW	11,7	11,7
Nominal power - low position	kW	4,7	4,7
NOx Hi	classe	5	5
Efficiency Class EN613		2	2
<b>Useful return (NCV) system**</b>			
For nominal heat output	%	82,0	82,0
For minimal heat output	%	71,0	71,0
<b>Supplementary electricity consumption</b>			
Nominal	kWh	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003
<b>Energy efficiency***</b>			
Energy efficiency index (EEI)	%	82	82
Energy label		B	B
NOx Hs	mg/kWh	<130	<130
<b>Heat output type/room temperature control</b>			
Indirect heat functionality			No
Single stage heat output, no room temperature control			No
2 or more manually-adjustable stages, no control of the room temperature			No
With mechanical control of room temperature by thermostat			No
With electronic control of room temperature			Yes
With electronic control of room temperature plus day-time switch			Yes
With electronic control of room temperature plus week-time switch			Yes
<b>Other control options</b>			
Control of room temperature with presence detection*			Yes
Control of room temperature with open window detection*			Yes
With remote control option			Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188

Suitable for biopropane.





Type of indication(s)		Trimline 170 Front (1048)			
Appliance type		C11, C31, C91			
Concentric extraction system		Holetherm CC 130-200			
Gas type		G25,3	G20/25	G20	G20↔25
Supply pressure in mbar		25	20	20	20↔25
Country		NL	DE	AT/CH/CZ/DE/DK/EE/ES/FI/GB/GR/HR/IE/IT/LT/LU/LV/NO/PL/PT/RO/SE/SI/SK/TR	BE/FR
Category		I <sub>2</sub> EK I <sub>2</sub> (43,46-45,3 MJ/m <sup>3</sup> )	I <sub>2</sub> ELL	I <sub>2</sub> H/-/ I <sub>2</sub> E	I <sub>2</sub> E*
Primary air per burner	mm	2x(2xØ9,0mm)	2x(2xØ9,0mm)	2x(2xØ9,0mm)	2x(2xØ9,0mm)
Supply pressure	mbar	25	20	20	20-25
Burner pressure - high position	mbar	12,4	10	10	10
Burner pressure - low position	mbar	3,3	2,7	2,7	2,7
Injector orifice	Ømm	2xØ2,5	2xØ2,5	2xØ2,5	2xØ2,5
Pilot flame injector	CODE	51	51	51	51
Low position orifice	mm	Ø2,2	Ø2,2	Ø2,2	Ø2,2
Load Hs	kW	14,9	11,9	14,4	14,4
Load Hi	kW	13,6	10,9	13,1	13,1
Gas consumption	m <sup>3</sup> /h	1,50	1,37	1,37	1,37
Nominal power - high position	kW	11,7	9,3	11,3	11,3
Nominal power - low position	kW	4,2	4,5	4,4	4,4
NOx Hi EN613	classe	5	5	5	5
Efficiency Class EN613		2	2	2	2
<b>Useful return (NCV) system**</b>					
For nominal heat output	%	86,1	87,2	86,1	86,1
For minimal heat output	%	66,1	64,7	67,4	67,4
<b>Supplementary electricity consumption</b>					
Nominal	kWh	0,0072	0,0072	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003	0,0003	0,0003
<b>Energy efficiency***</b>					
Energy efficiency index (EEI)	%	86	87	86	86
Energy label		B	B	B	B
NOx Hs	mg/kWh	<130	<130	<130	<130
<b>Heat output type/room temperature control</b>					
Indirect heat functionality					No
Single stage heat output, no room temperature control					No
2 or more manually-adjustable stages, no control of the room temperature					No
With mechanical control of room temperature by thermostat					No
With electronic control of room temperature					Yes
With electronic control of room temperature plus day-time switch					Yes
With electronic control of room temperature plus week-time switch					Yes
<b>Other control options</b>					
Control of room temperature with presence detection*					Yes
Control of room temperature with open window detection*					Yes
With remote control option					Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188



Type of indication(s)		Trimline 170 Front (1048)	
Appliance type		C11, C31, C91	
Concentric extraction system		Holetherm CC 130-200	
Gas type		G30/G31	G30
Supply pressure in mbar		(28-30)-37	30/50
Country		BE/CH/CY/CZ/ES/FR/GB/GR/IE/IT/LT/PT/SI/SK	NL/BE/CH/CY/FR/GB/IT/LT/ SI/SK/AT/CH/DE/ FR/SK/PL
Category		I3+	I3B/P
Primary air per burner	mm	2x(3xØ16,0mm)	2x(3xØ16,0mm)
Supply pressure	mbar	(28-30)-37	30/50 If burner pressure is 50 mbar, make corrections
Burner pressure - high position	mbar	26,2 - 33,6	26,2
Burner pressure - low position	mbar	11,1 - 14,6	11,1
Injector orifice	Ømm	2x Ø1,45mm	2x Ø1,45mm
Pilot lame injector	CODE	30	30
Low position orifice	mm	Ø1,8mm	Ø1,8mm
Load Hs	kW	15,2	15,2
Load Hi	kW	13,9	13,9
Gas consumption	m³/h	0,430 - 0,550	0,430
Nominal power - high position	kW	12,1	11,7
Nominal power - low position	kW	5,9	5,9
NOx Hi	classe	5	5
Efficiency Class EN613		2	2
<b>Useful return (NCV) system**</b>			
For nominal heat output	%	84,1	84,1
For minimal heat output	%	76	76
<b>Supplementary electricity consumption</b>			
Nominal	kWh	0,0072	0,0072
Stand-by	kWh	0,0003	0,0003
<b>Energy efficiency***</b>			
Energy efficiency index (EEI)	%	84	84
Energy label		B	B
NOx Hs	mg/kWh	<130	<130
<b>Heat output type/room temperature control</b>			
Indirect heat functionality			No
Single stage heat output, no room temperature control			No
2 or more manually-adjustable stages, no control of the room temperature			No
With mechanical control of room temperature by thermostat			No
With electronic control of room temperature			Yes
With electronic control of room temperature plus day-time switch			Yes
With electronic control of room temperature plus week-time switch			Yes
<b>Other control options</b>			
Control of room temperature with presence detection*			Yes
Control of room temperature with open window detection*			Yes
With remote control option			Yes

\* In combination with home automation

\*\* Shortest system path

\*\*\* EU directive 2015-1186/1188

Suitable for biopropane.



## 9 CONCENTRIC PATHWAYS

Table of concentric pathways							
Pathway	Gas	Illustration	X total in metres		Y total in metres		Restriction
X = vertical and Y = horizontal			Min*	Max*	Min*	Max*	Tunnel/Front
Indirect façade outlet	NG/LPG	A-B	1	3	0,5	5	Yes
Indirect façade outlet	NG/LPG	C	2	12	0	0	Yes
Roof pass-through with 45° slope**	NG/LPG	D	3	12	0	4	From X total - Y > 6 meter
Roof pass-through with 90° slope***	NG/LPG	E	1	12	0	2	From X + X1 - Y > 6 meter

45° Bend: calculation length 1 metres, 90° Bend: calculation length 2 metres

Optional image C, D: vertical sections always first 1 metre Ø130/200 mm, then renew to Ø100/150 mm.

Optional image E: vertical and horizontal section all Ø130/200 mm, then renew to Ø100/150 mm after the last bend for roof penetration.

\* Length including roof or exterior wall outlets. Starting length minimum 1 metre Ø130/200 mm.

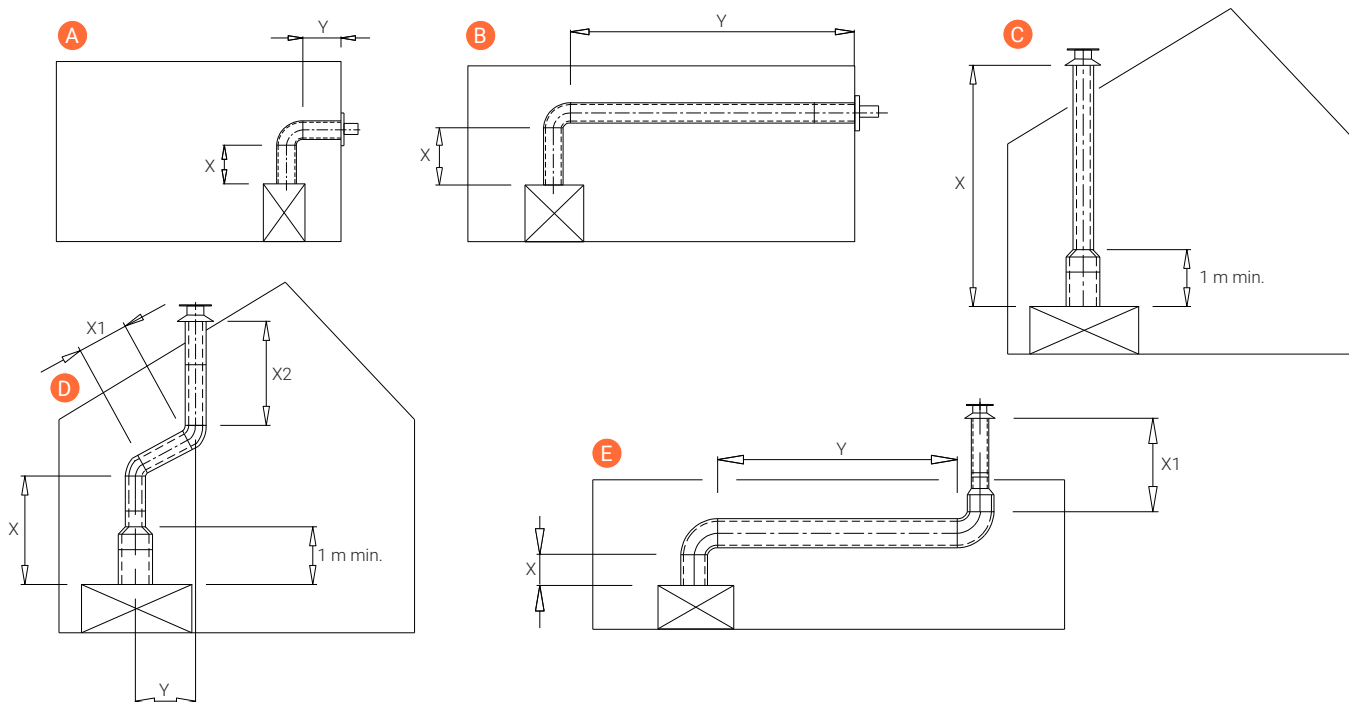
\*\* Ratio vertical : horizontal X + X1 + X2: Y ≥ 2: 1

\*\*\* Ratio vertical : horizontal X + X1: Y ≥ 2: 1

Restriction conditions all gas types				
Vertical lay out				
Distance (m)	Appliance		Baffle plate	Restriction (mm)
2-6	100 Tunnel/Front	1135-1136	Yes	70
6-12	100 Tunnel/Front	1135-1136	Yes	80
2-6	120 Tunnel/Front	1137-1138	Yes	55
6-12	120 Tunnel/Front	1137-1138	Yes	65
2-6	140 Tunnel/Front	1139-1149	Yes	55
6-12	140 Tunnel/Front	1139-1149	Yes	65
2-6	170H Front	1148	Yes	40
6-12	170H Front	1148	Yes	50
2-6	170 Front	1048	Yes	No
6-12	170 Front	1048	Yes	50

Determine restriction of horizontal trajectories							
Pathway	Horizontal max. metre		Length max. horizontal		Baffle plate NG/LPG	Restriction NG (mm)	Restriction LPG (mm)
	NG	LPG	Appliance				
1 metre 90 degrees wall penetration	0.5	0.5	100 Tunnel/Front	1135-1136	Yes	70	70
1 metre 90 degrees ≥ 2 metres	5.5	5.5	100 Tunnel/Front	1135-1136	Yes	55	30
1 metre 90 degrees wall penetration	0.5	0.5	120 Tunnel/Front	1137-1138	Yes	55	60
1 metre 90 degrees ≥ 2 metres	5.5	5.5	120 Tunnel/Front	1137-1138	Yes	None	None
1 metre 90 degrees wall penetration	0.5	0.5	140 Tunnel/Front	1139-1149	Yes	55	55
1 metre 90 degrees ≥ 2 metres	5.5	5.5	140 Tunnel/Front	1139-1149	Yes	None	None
1 metre 90 degrees wall penetration	0.5	0.5	170H Front	1148	Yes	40	45
1 metre 90 degrees ≥ 2 metres	4.5	4.5	170H Front	1148	Yes	None	None
1 metre 90 degrees wall penetration	0,5	0,5	170 Front	1048	Yes	None	None
1 metre 90 degrees ≥ 2 metres	5,5	5,5	170 Front	1048	Yes	None	None





## 10 CONCENTRIC FLUE SYSTEM

The concentric flue system is composed of an inner flue and an outer flue. These flues have been set up concentrically so the combustion gases will be discharged via the internal flue while the fresh combustion air is supplied via the gap between the inner and outer flues.

### 10.1 Components of the concentric flue system

Different connections are possible using the concentric flue system. These are:

#### Through the roof face and through the exterior wall

The pathway used for this system can be laid in different ways, but there are a few important conditions:

- The total allowed vertical flue length must not exceed 12 metres (the sum of the flue length and calculation lengths for the bends). See *Chapter 9 Concentric pathways*.
- 90° bends have a 2-metre horizontal calculation length.
- 45° bends have a 1-metre horizontal calculation length.
- The outlet can be installed at any point on the roof face or exterior wall (supply and discharge in an identical pressure area), but must meet applicable regulations.
- Flue pathways must not be insulated.

#### NOTE

- Ensure the restrictor is mounted in the correct manner, as indicated in these instructions.
- The correct restrictor will provide the appliance with the most optimal efficiency, flame image and combustion.
- Mounting an incorrectly placed restrictor may cause malfunction of the appliance.

### 10.2 Construction of concentric flue system

#### Indirect wall connection

- The outlet may also be installed in an upwards exhaust in the wall, taking any hindrance to the surrounding area into consideration, in accordance with local standards and regulations.

#### NOTE

Ensure wind pressure on the outlet is not excessive, such as in locations with a balcony, flat roof, corners and very narrow alleys, etc., as this can negatively affect the performance of the appliance.

- Make a recess in the façade of around 155mm or 205mm when using respectively Ø100-150 and Ø130-200 flues (keep an extra space of 50mm in a refractory façade around the outer tube) and fit the façade pass-through with the wall plate on the inside of the wall. The wall plate of the exterior façade pass-through must be sealed sufficiently against the wall on the outside to avoid moisture and/or flue gas leaks leaking into the living space. We recommend our clearance box use as a direct façade pass-through through a refractory façade.
- The flue should be encased if necessary. Even if the flue is to be installed along non-refractory materials, sufficient fire-resistant measures must be taken.
- Determine the position of the appliance and outlet and begin construction of the flue with the connection on the appliance, paying attention to the direction of installation and connecting the elements by means of clamp strips.
- An adjustable pipe can be used between the bends or when connecting to the appliance. If necessary, use wall brackets to support the flue.

### Mounting using the roof pass-through option

- The flue outlet can be located at any random place on the roof face (supply and exhaust in identical pressure areas) and must meet the applicable rules and regulations.
- A roofing sheet for a flat roof or a roofing sheet lead for sloping tiled roofs can be used for a watertight duct. Use various bends for the slope, if required. The recess in the roof decking should be 50mm larger all around to ensure sufficient fire resistance.
- One needs to take into account the regulation regarding fire resistance between rooms. (For this, see the applicable local standards and regulations.) A casing of fireproof material (for example, 12mm Promatect fire-resistant plate) should be applied up to 25mm from the outer flue.
- Determine the position of the appliance and the outlet and begin the construction of the flue with the connection on the appliance (always 1 metre vertical first) pay attention to the direction of installation. The inner flue must be installed for draining purposes. Connect the elements using the clamping straps. Ensure all connections are gastight.
- An adjustable pipe can be used between the bends or when making the connection to the appliance and/or the roof pass-through. Use 2 wall brackets to support the flue on each floor.

### 10.3 Installation instructions regarding existing flues

APPENDIX 3

#### Instructions

The flue gas exhaust system falls within category: C91 and must be built in accordance with national rules and regulations and the instructions of the manufacturer, as specified in the documentation and installation instructions. This means, among other things, that the chimney pass-through must not be smaller than 150mm round/square, but no larger than 200mm, and not ventilated by grilles, etc. In the case of larger chimney pass-throughs, a flexible hose of around 150 mm may possibly be used in combination with a flexible hose of around 100mm, as described below. For other situations, consult your supplier.

#### 10.4 Parts

Check all parts for damage before commencing the installation. For the conversion of a brick flue to concentric flue, connected to CC flue system, you need the components described in APPENDIX 3.

#### NOTE

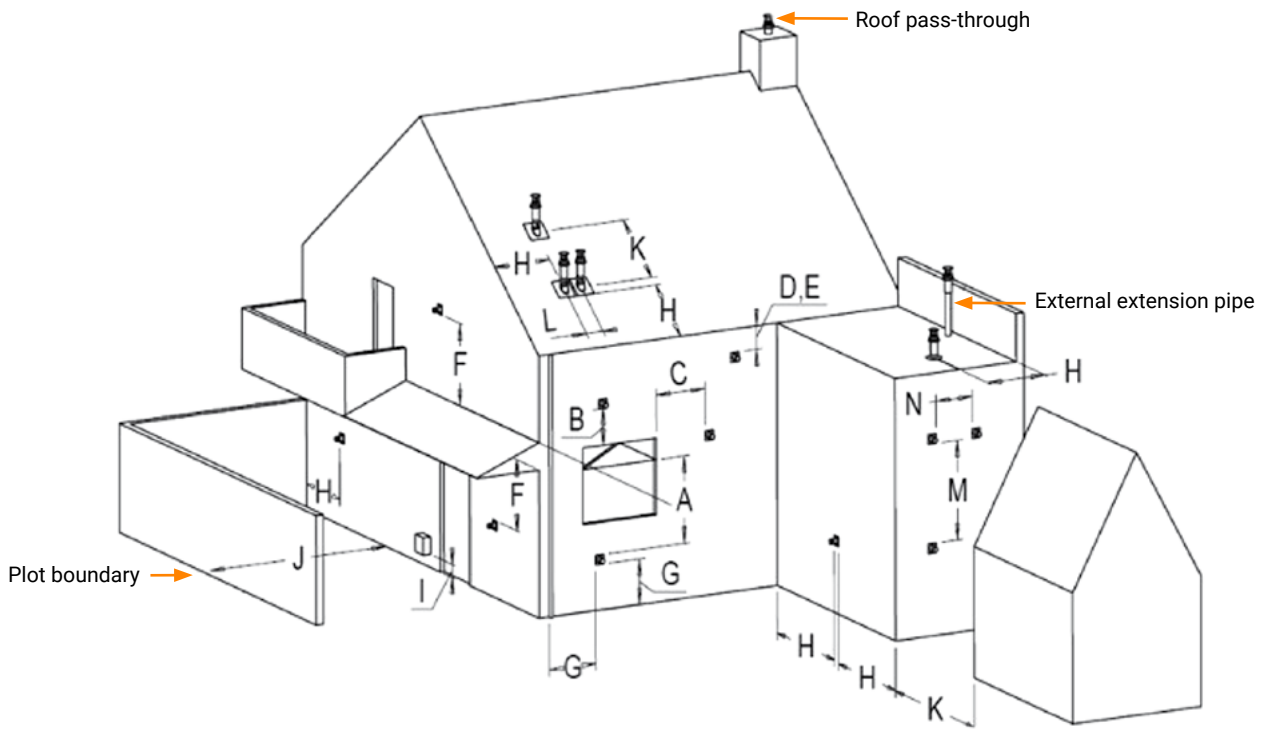
The renovation/sanitation set consists of parts:

- ③ Interior mounting plate
- ④ Sliding element
- ⑦ Chimney mounting plate

### 10.5 Installation

- Guide the flexible hose ⑤ through the existing flue ⑥.
- Attach the slider ④ to the bottom of the flexible hose and secure this in place using two Parker screws.
- Keep the bottom of the slider at the same height as the bottom of the flue or ceiling.
- Shorten the flexible hose to approximately 100mm above the chimney coping.
- Attach the mounting plate to the flexible hose on the roof ⑦, clamp it with a hose bracket. Stainless steel Ø90 to 165, secure the whole with Parker screws.
- Attach the mounting plate to the chimney coping watertight on the roof ⑦ using silicone sealant and stainless steel screws.
- Install the roof pass-through ⑨ and secure it in place using the supplied clamping strip ⑧.
- The slider ④ will protrude approximately 100mm underneath the flue or ceiling after installation.
- Attach the inner mounting plate ③ gastight against the bottom of the structural flue or against the bottom of the concrete floor using silicone sealant and screws.
- Position the appliance in accordance with the instructions of the appliance manufacturer
- Install a minimum of 1 metre of concentric flue type THC CC ①.
- Extend the concentric flue using sections up to a minimum of 100mm in the structural duct. Finally, turn the clamping strip by hand in the mounting plate inside ③.

# 11 PASS-THROUGH POSITIONS AND FUNCTION CORRECTLY



Dimensions	Outlet positions	Distance mm
A	Distance to ventilation openings	Local*
B	Distance to ventilation openings	Local*
C	Distance to ventilation openings	Local*
D	Lower gutter bottom pipes or exhaust lines	500
E	Under the eaves	500
F	Under a carport, roof or balcony, inside and outside corners	500
G	From ground level and rainwater drainage pipes	300
H	Inside and outside a corner	500
I	Above an external gas pressure regulator	1000
	Side of a gas pressure regulator	500
J	Conflict distance façade outlet	Local*
K	Roof drain centre to centre	1000
L	From the centre of both roof drains	450
M	Two wall drains above each other	1000
N	Two wall drains next to each other	1000

\* In accordance with local building codes

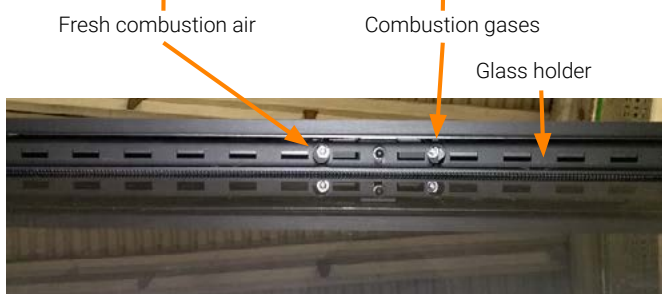


## 12 CLEANING AND MAINTENANCE

- The appliance must be checked and serviced by a recognised installer at least once a year. The glass is also cleaned during this process.
- It is advisable to clean the outside of the appliance regularly, both in and out of the heating season.
- Do not use aggressive or corrosive cleaning agents or sharp objects.
- The concentric flue system must be cleaned every 2 years.  
A check must be carried out on:
  - 1 seal of the flue and supply circuits
  - 2 seal of the upper and lower pressure release hatches of the appliance; check the gasket
  - 3 operation of the pressure release hatches; that they can open and close freely
  - 4 the operation of the gas valve and ignition of the burner

### Measuring points

The appliance is equipped with measuring points to analyse the combustion gases and fresh combustion air. This allows the appliance to be checked. The connection points are located in the middle of the glass holder above the front glass panel. To connect the measuring tubes, remove the sealing plugs first using a 5 mm Allen key. The left-hand connection is for the fresh combustion air, the right-hand connection is for the combustion gases.



# 13 QUICK REFERENCE GUIDE FOR FAULTSSEARCH FOR ENCLOSED GAS FIRES USING MERTIK GV60 GASCONTROL

Function	Possible cause	Solution
1. Acoustic signals	1 long beep → reset switch OFF (0)	Set switch to (I)
	1 long beep → connections not complete	Check connections in thermocouple circuit
	1 long beep → 8-core cable defective	Check connections in connector/replace 8-core cable
	1 long beep → micro switch defective	Replace gas valve
	1 long beep → Sync not OK	Carry out new sync procedure for remote control/receiver
	3 short beeps → power supply	Replace batteries or 6-VDC adapter
2. No reaction remote control/receiver	Power supply problem	Check batteries/6-VDC adapter
	No sync remote/receiver	Carry out sync procedure
	Distance between remote control/receiver	Change position of receiver
	Defective receiver	Replace receiver
	Faulty remote control	Replace remote control
3. No pilot light gas	GV60 DC magnet unit does not open (no clicking noise from gas valve)	<ul style="list-style-type: none"> <li>• Check wiring and breaker on thermocouple circuit</li> <li>• Check/replace 8-core cable between remote control and gas valve</li> <li>• 1 x sparks and stop: check ground cable under torx gas valve</li> <li>• Replace receiver</li> <li>• Replace gas valve</li> </ul>
4. Poor/no spark	Spark cable loose	Check spark cable connections
	Short circuit between cable and metal	Check whether cable is free of metal parts
	Poor spark candle	Check spark candle for fractures, replace if necessary
	Distance of sparking candle to pilot light head	Check distance is approximately 4mm
5. Pilot light difficult to ignite	Gas supply pressure too high, nervous flame	Adjust gas supply pressure or adjust the pilot light pressure using the gas valve
	Gas supply pressure too low, short flame	Adjust gas supply pressure, check gas pipes, or adjust pilot light pressure using the gas valve
	Air in (pilot light) pipe, flame on/off	Blow pipes through, make air-free
	Injector blocked	Clean or replace pilot light injector
	Blocked/curved pilot light pipe	Check and clean pipe
	Pilot light head damaged	Check and replace pilot light
6. Pilot light goes out after ignition	Small pilot light, no flame on thermocouple tip	Check gas supply pressure, possibly too low
		Check pilot light injector and gas pipe
	Nervous pilot light flame, no flame on thermocouple tip	Check gas supply pressure, too high, adjust
		Adjust pilot light pressure on gas control block
	Air in pipes, vent	
	Lazy pilot light, no flame on thermocouple tip	Check premix opening on pilot light, must be open
	Poor connections in thermocouple circuit	Check cables/breaker in thermocouple circuit
		Check thermocouple connections in gas control block, do not over-tighten.
		Measure thermocouple circuit voltage 4.5mV minimum
Bad thermocouple	Check open circuit voltage of thermocouple (18-30mV), replace if necessary	
Poor DC magnet unit in GV60	Replace gas valve	
7. Pilot light goes out when the fireplace is closed	False air along pilot light holder/gasket	Check pilot light holder and gasket for leaks
	False air hatches	Check pressure hatches/gasket is completely closed
	Main flame causes pilot light to go out	Check restriction/baffle in accordance with regulations

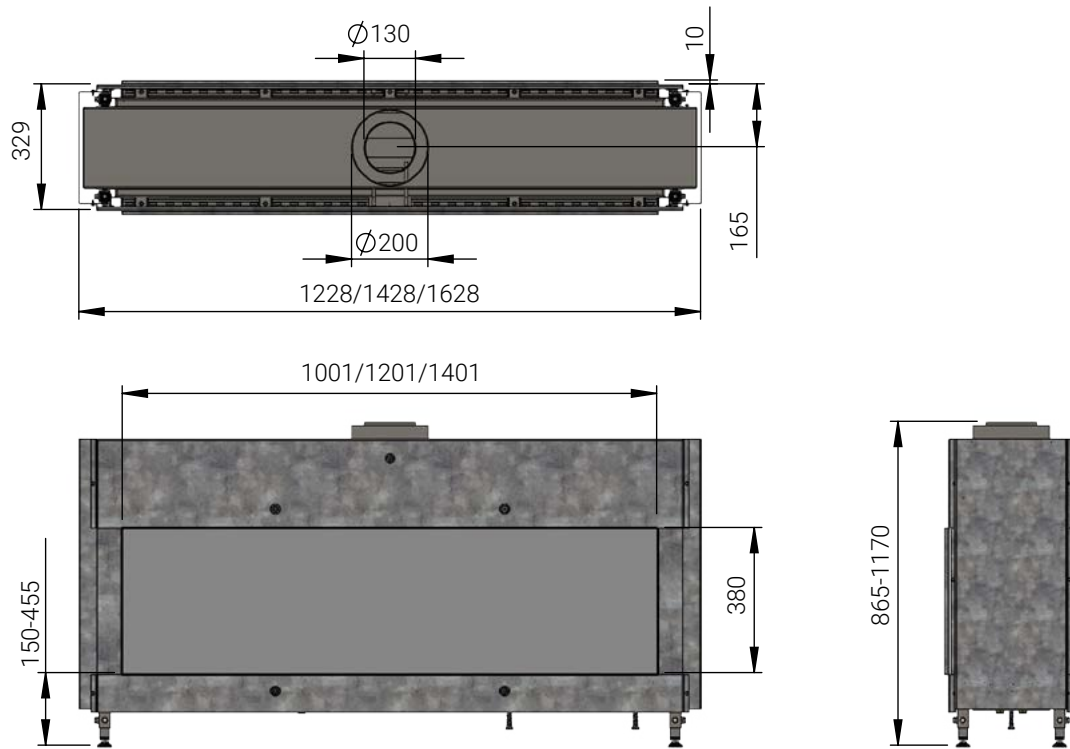
Function	Possible cause	Solution
8. Pilot light/main flame off	Gas pre-pressure has dropped	Check correct dimensions of gas pipe or blockage, correct
	Main burner ignition, 3 beeps, low power supply voltage	Check batteries or 6-VDC adapter
	Too much/little transport in unit/outlet	Check restriction/baffle situation in accordance with instructions.
	Concentric outlet pathway incorrect	Check outlet pathway in accordance with instructions
	Recirculation, façade/roof mouth position incorrect	Check outlet in accordance with instructions
	Recirculation in closed outlet system	Check outlet connections
9. Main burner does not start up	Gas control valve knob to MAN	Check gas control valve knob to ON
10. Delayed ignition of main burner	Pilot light burner blocked	Check logs, pebbles, etc. are in the right position. pilot light should be free of obstructions.
	Small/lazy pilot light	Check and correct pressure and physical state of pilot light burner
	Close main burner flame openings	Check and clean with a vacuum cleaner or similar device.
	Logs, etc. in wrong position	Check and correct, see instructions
11. Low main flame	Gas supply pressure too low	Check gas supply pressure and corrections
	Burner pressure too low	Check burner pressure, check instructions for correct values
12. No or little difference between high/low settings for main flame	Low position setting incorrect	Check and adjust low position in accordance with instructions
13. DB burner does not work	Defective step valve	Check whether clicking sound is perceptible, press button on remote control several times, replace valve if necessary
14. Sooty flame	Insufficient transport in unit/closed drainage system	Check restriction/baffle, follow instructions for correct value
		Check outlet system pathway in accordance with instructions
		Check outlet in accordance with regulations/instructions
	Excessive feed/burner pressure	Check and correct gas supply/burner pressure in accordance with instructions
	Blocked burner flame openings	Check and clean with a vacuum cleaner, for example
	Incorrect premix for main burners	Check and correct, see instructions
	Decorative logs, etc. in incorrect position	Check and correct, see instructions



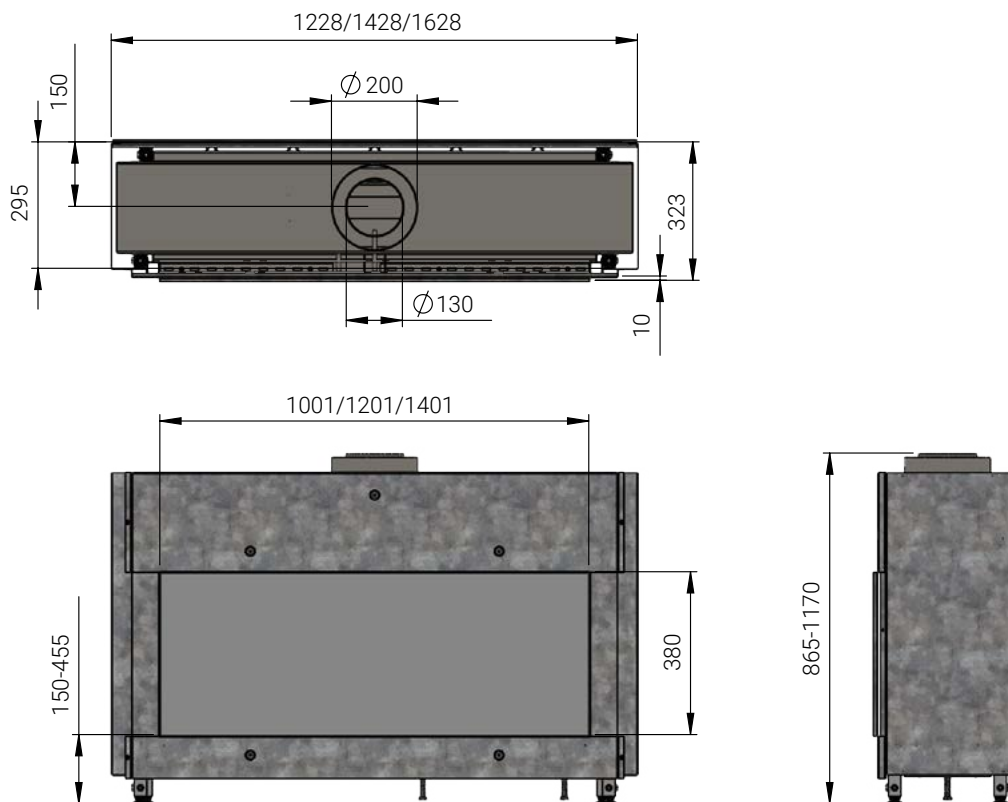
# Appendix 1 DIMENSIONAL DRAWINGS

Measurements in mm

## Trimline 100-120-140 DB Tunnel

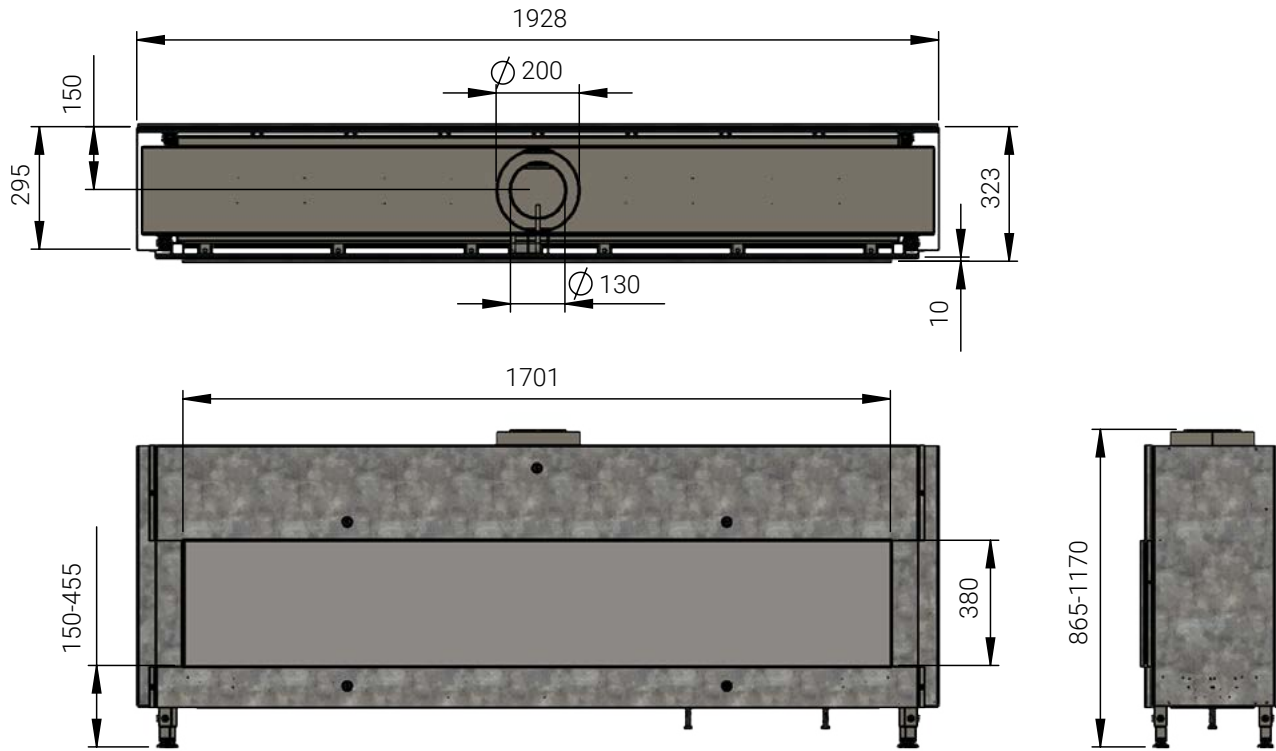


## Trimline 100-120-140 DB Front

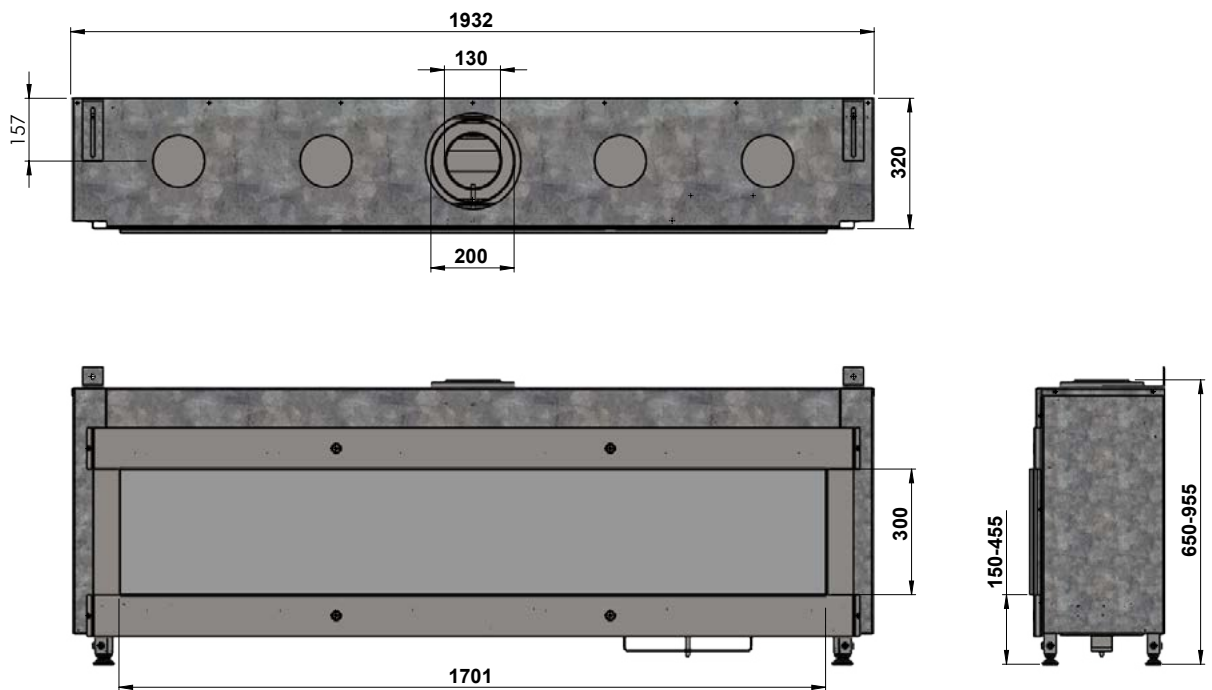


# Appendix 1 CONTINUED

## Trimline 170H DB Front



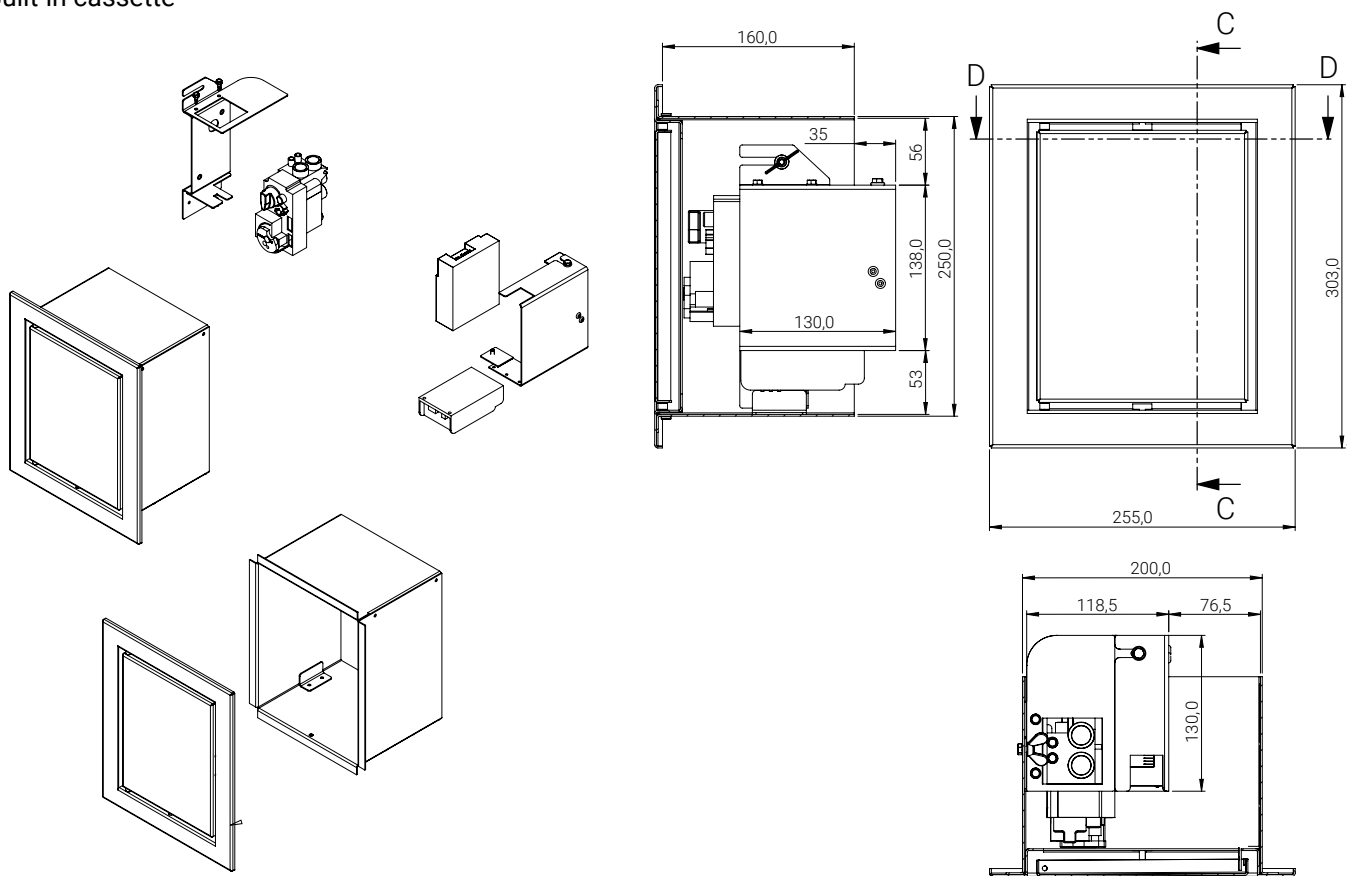
## Trimline 170 DB Front



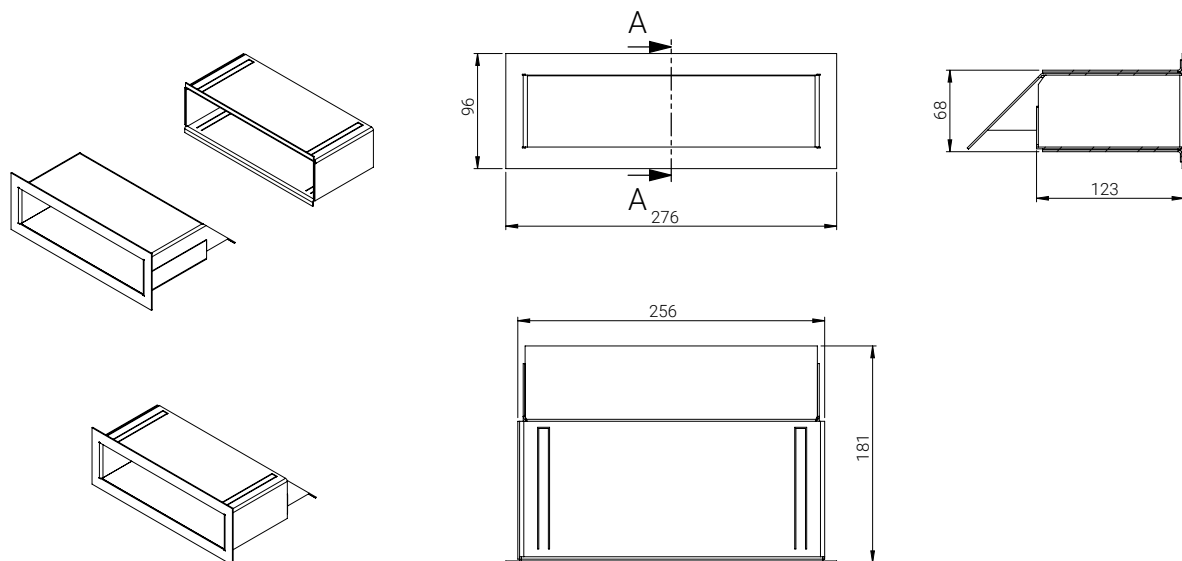
# Appendix 1 CONTINUED

Measurements in mm

## Built-in cassette



## Convection grilles



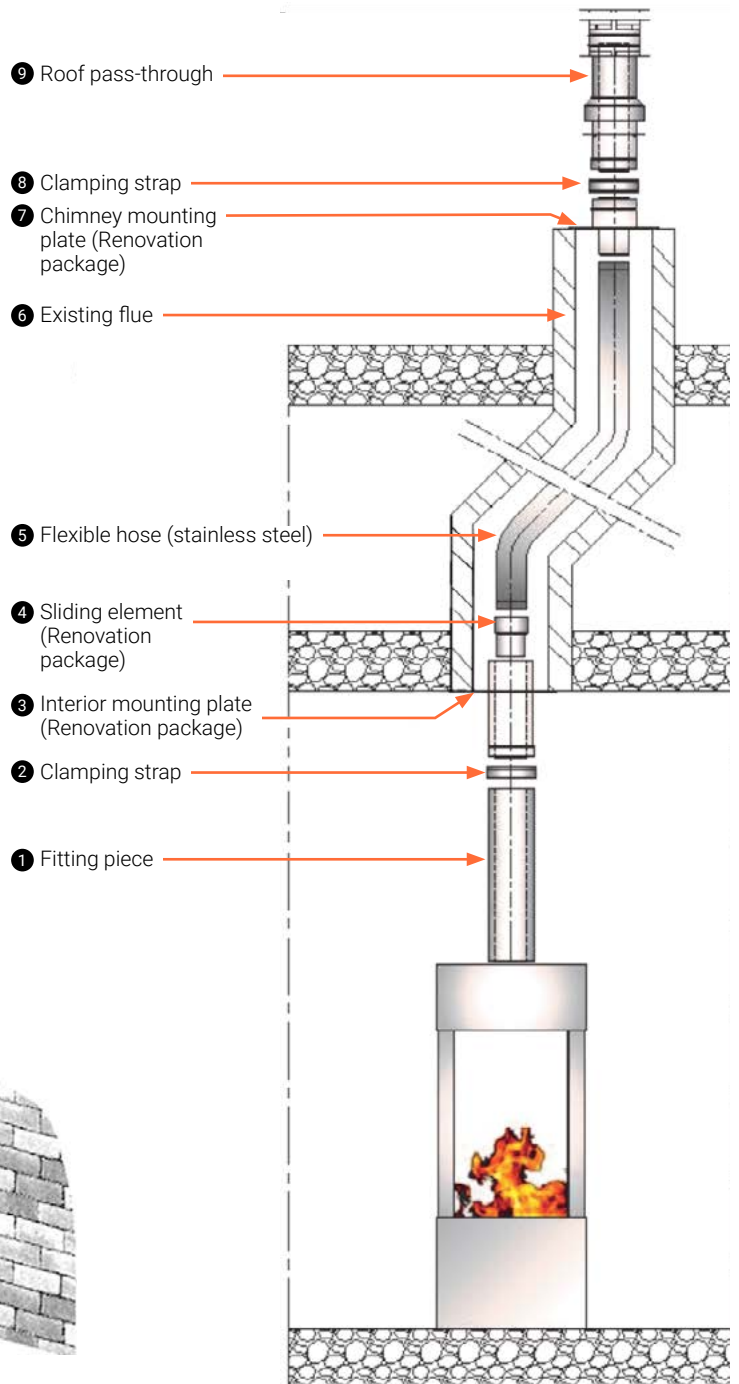
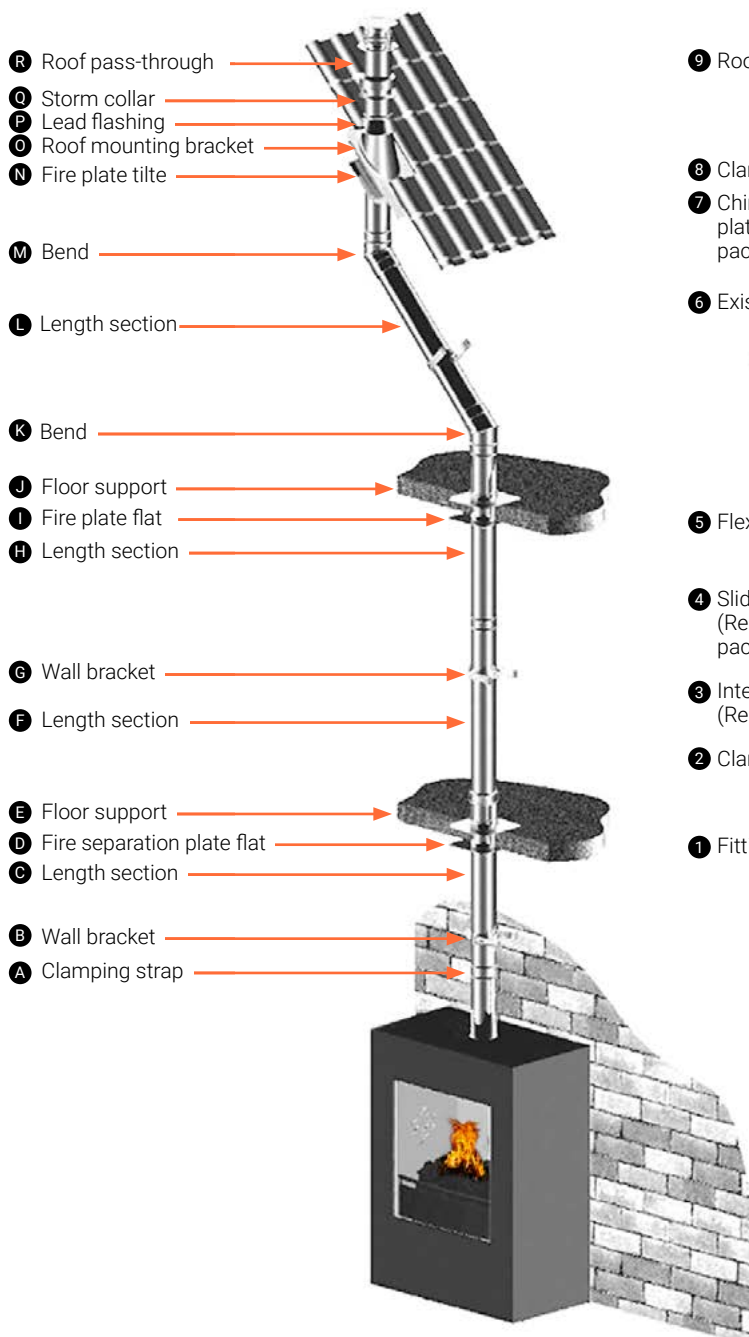




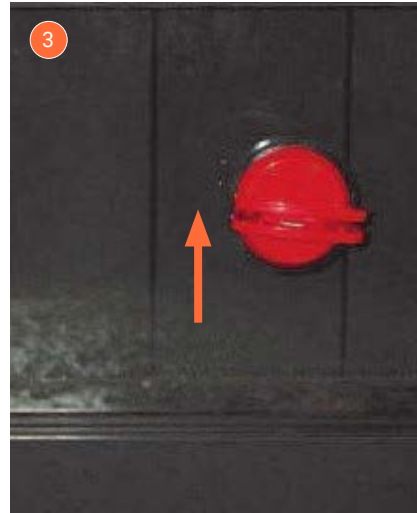
# Appendix 3 CONSTRUCTION DIAGRAM DOUBLE-WALL CONCENTRIC

Material: Stainless steel AISI 316 L - Allow number 1.4404

Application: for the discharge of flue gases and the supply of combustion air from gas-fired appliances or stoves with a closed combustion system



## Appendix 4 PREPARATION AND INSTALLATION





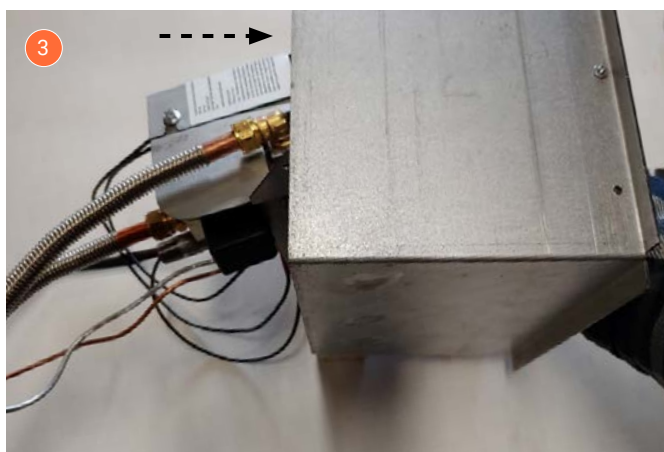
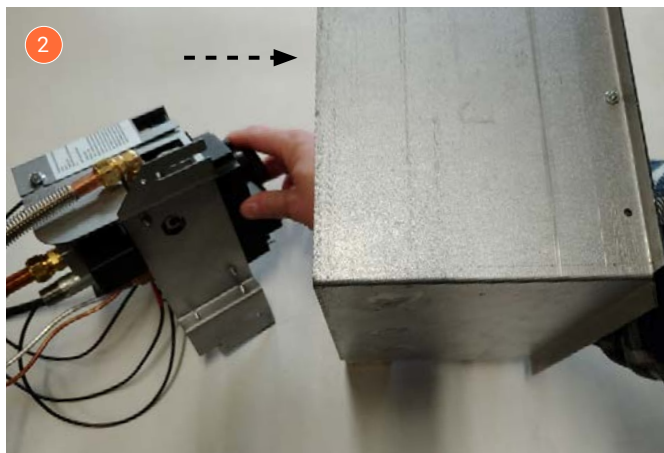
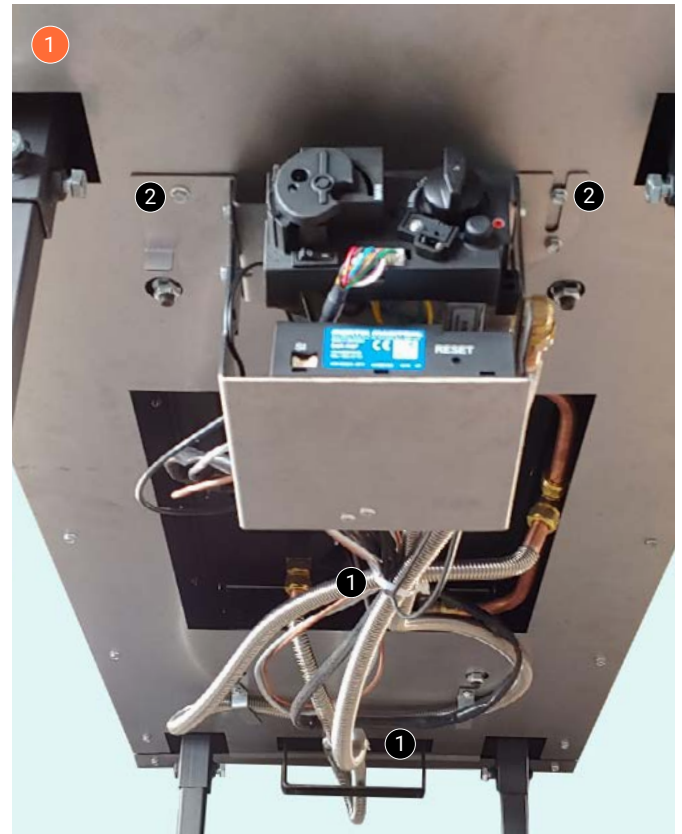
## Appendix 5 PREPARING GAS CASSETTE GV60 FOR INSTALLATION

### STEP 1 ①

Cut the ties to release all lines. ①

### STEP 2 ①

Remove the protection bracket with gas control block and receiver. ②



### STEP 3 ② ③ ④

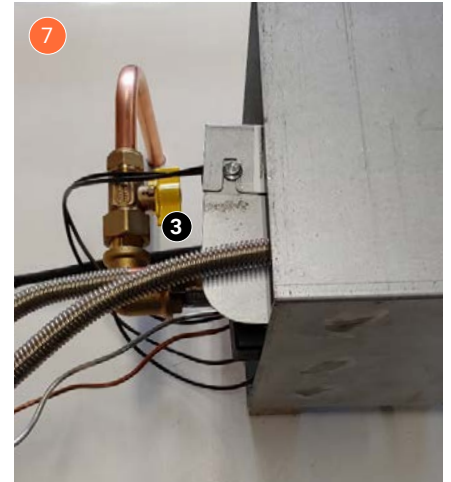
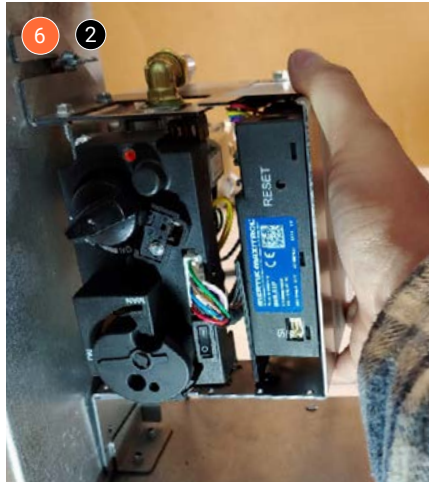
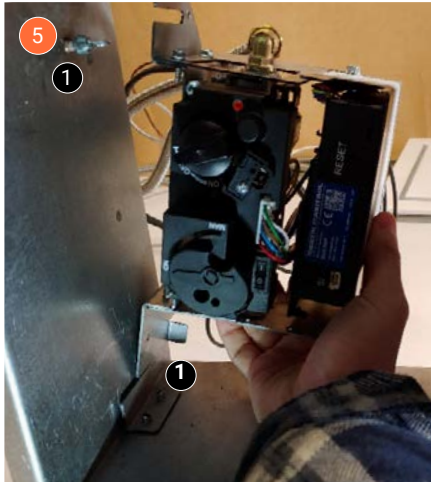
Place the gas control block and receiver in the gas cassette.



## Appendix 5 CONTINUED

### STEP 4 5 6 7

Slide the bracket with the gas control block and receiver into place ①. Fix the wing nuts in place. ②

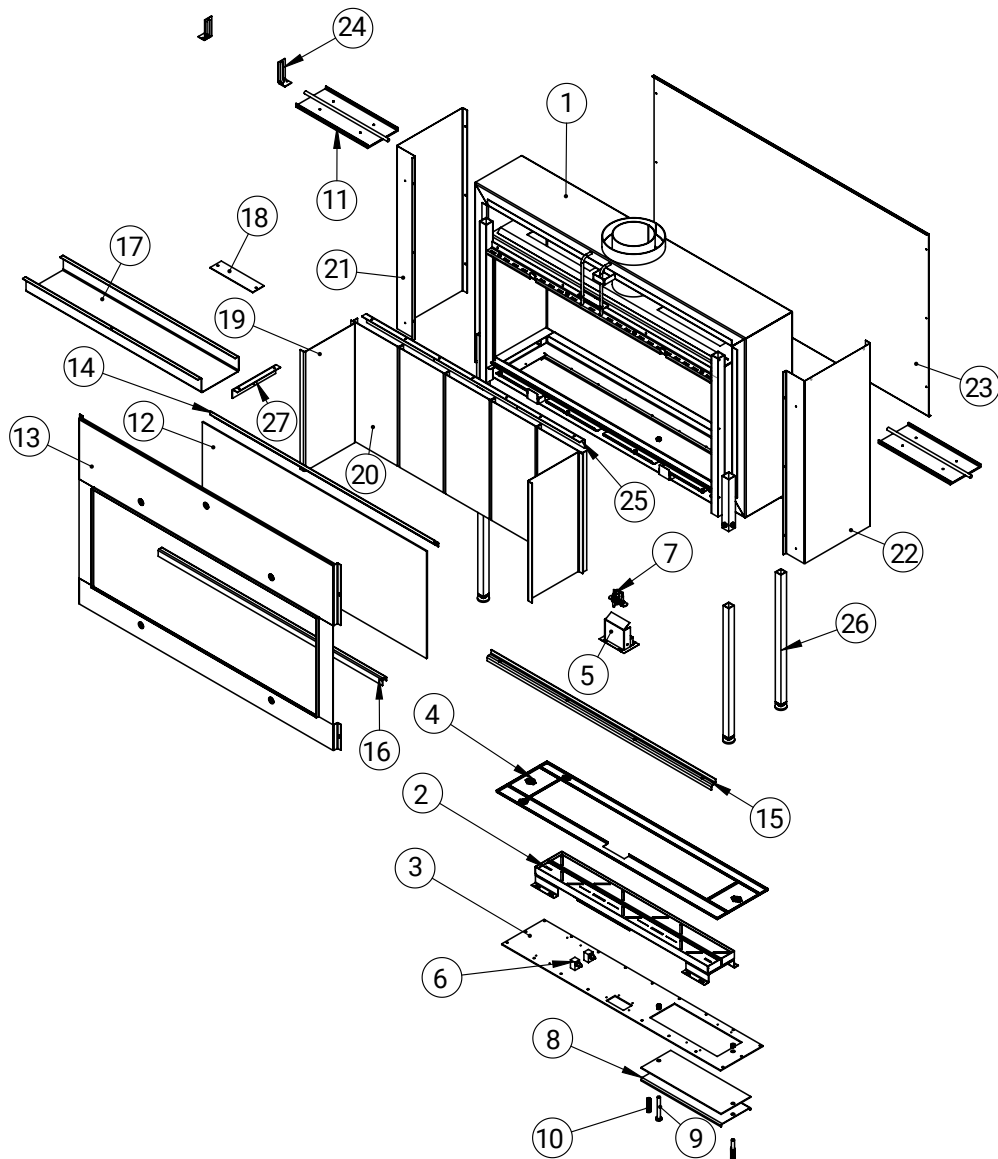


Example of installing an accessible tap. ③

## Appendix 6 EXPLODED VIEW AND SPARE PARTS

No	Description	Artikel number	Qty.
1	Combustion chamber	x	1
2	Burner	see burner parts	1
3	Bottomplate burnertray	x	1
4	Decoration/fuelbed plate	x	1
5	Pilot bracket	see burner parts	1
6	Injector bracket	see burner parts	2
7	Pilot burner	see burner parts	1
8	Pressure hatch plate	x	1
9	Pressure hatch pin	x	1
10	Pressure hatch spring	x	1
11	Pressure hatchTop plate	x	2
12	Glass panel 1135 / 1136	421409980413	1
12	Glass panel 1137 / 1138	421411980413	
12	Glass panel 1139 / 1149	421413980413	
13	Frameless trim	x	1
14	Glass holder top	x	1
15	Glass holder bottom	x	1
16	Decorative trim	x	1

No	Description	Artikel number	Qty.
17	Baffle plate	x	1
18	Restrictor plate	x	1
19	Interior side panel/lamel	x	1
20	Interior back panel/lamel	x	1
21	Convection mantle side L	x	1
22	Convection mantle side R	x	1
23	Convection mantle top	x	1
24	Explosie Bracket	x	4
25	Walls bracket back	x	1
26	Adjustable feet	x	4
27	Walls bracket side	x	2
Convection grill		117042000150	1
Glass panel top & bottom sides seal 8x2mm self adh		721000118	per m <sup>2</sup>
Glass panel vertical seal dia 6mm		721000960	per m <sup>2</sup>
Spray paint senotherm 12-1644-702310 400ml		562001160	1





## Appendix 6 CONTINUED

No	Description	Artikel number	Qty.
1	Burner	on request	1
2	Bottomplate burnertray	x	1
3	Pilotflame protection mesh	x	1
4	Seal pressure hatch	x	1
5	Pressure hatch	x	1
6	Pressure hatch pin	x	2
7	Pressure hatch spring	x	2
8	Gascassette Trimline	123010132001	1
9	Gasvalve holder	x	1
10	Gasvalve bracket	x	1
11	Gastube flex burner 2x 12mm/ L1500mm	601000820	2
12	Pilot flame gasline 4mm alu/ L1500mm	601000748	1
13	Thermocouple L1200mm SB fires	642200912	1
	Thermocouple L1500mm DB fires	642200915	1
14	Ignition cable L1200mm 2,8x0,5-dia 2,3 for 642200884	621002037	1
	Ignition cable L1500mm 2,8x0,5-dia 2,3 for 642200884	621002043	1
	Ignition cable L1200mm 2,8x0,5-dia 4mm for 642200760	621002031	1
15	Ignition cable sleeve	x	1
16	Primary air bracket	see gas sets	2
17	Injector holder	x	2
18	Main injector	see gas sets	2
19	Pilotburner gasket	642200434	1
20	Pilotburner	642200432	1
21	Igniter M4 connection	642200760	1
	Igniter dia 2,3mm connection	642200884	1
22	Compression coupling 1/4"x 12mm	x	2
23	Pilot injector no 51 SIT G20/25	641800686	1
	Pilot injector no 30 SIT G30/31	641800272	1

No	Description	Artikel number	Qty.
24	Nut 4mm pilotinjector	642400229	1
25	Olive 4mm pilotinjector	642000060	1
26	Igniter insulation sleeve	x	1
27	GV60 receiver G6R-R4AU	641204001	1
	GV60 receiver B6R-R8U ECOMAX	641204002	1
	GV60 receiver B6R-R8P ECOMAX/ WiFi Ready	641204004	1
28	GV60 gasvalve GV60M1-C5D3K1L	641200327	1
29	GV60 multicable 8x G6R-C3	629900027	1
30	GV60 cable 500mm switch G60-ZSKLF/500	621000150	1
31	GV60 cable 500mm thermocouple G60-ZKIRF/500	621000151	1
32	GV60 DB solenoid GV-S60C/5	641200329	1
33	Gasconnection 3/8"mains	x	1
34	Compression knee 3/8 "x12mm	x	1
35	GV60 solenoid adapter	x	1
36	GV60 M9x1 thermocouple interupter G60-ZUS09	642200224	1
37	GV30/60 plug 3/8"	x	1
38	GV60 olive/nut 4mm G30-ZLZ04	642400278	1
39	GV60 remote control G6R thermostat G6R-H4T	641200979	1
	GV60 remote control G6R thermostat+AUX(DB) G6R-H4T2	641200980	1
	GV60 remote control B6R ECOMAX B6R-H8TL3B	641200982	1
	GV60 remote control B6R ECOMAX/WiFi Ready B6R-H8TV4PBD	641200996	1
	GV60 WiFi box Mertik B6R-WTH	641200601	1
	GV60 WiFi box cable Mertik G60-ZCSW1000	641200602	1
	GV60 Poweradapter 6VDC G60-ZMA	641200190	1



