

# + HORIZONTAL FLUE TERMINAL - 1000MM

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal.

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## INTRODUCTION

This kit is suitable only for the domestic gas boilers listed below :

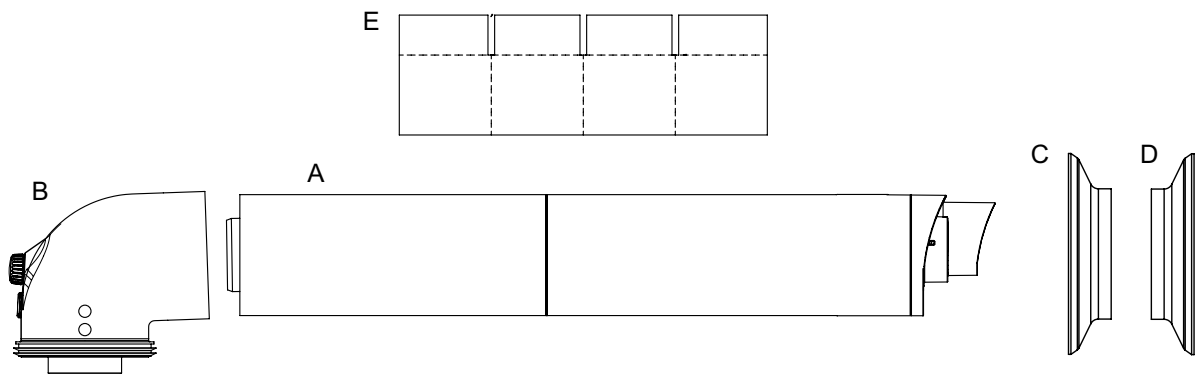
Logic Combi 24.....	G.C. No. 47-348-56	Independent C24.....	G.C. No. 41 348 68
Logic Combi 30.....	G.C. No. 47-348-57	Independent C30.....	G.C. No. 41 348 69
Logic Combi 35.....	G.C. No. 47-348-58	Independent C35.....	G.C. No. 41 348 70
Logic Combi E24.....	G.C. No. 47-348-88	Independent + C24.....	G.C. No. 41 348 85
Logic Combi E30.....	G.C. No. 47-348-89	Independent + C30.....	G.C. No. 41 348 86
Logic Combi E35.....	G.C. No. 47-348-90	Independent + C35.....	G.C. No. 41 348 87
Logic Combi ES24.....	G.C. No. 47-349-01	Independent System 15.....	G.C. No. 41 750 48
Logic Combi ES30.....	G.C. No. 47-349-02	Independent System 18.....	G.C. No. 41 750 49
Logic Combi ES35.....	G.C. No. 47-349-03	Independent System 24.....	G.C. No. 41 750 50
Logic Combi ESP24.....	G.C. No. 47-349-12	Independent System 30.....	G.C. No. 41 750 51
Logic Combi ESP30.....	G.C. No. 47-349-13	Vogue c26.....	G.C. No. 47-348-99
Logic Combi ESP35.....	G.C. No. 47-349-14	Vogue c32.....	G.C. No. 47-348-98
Logic + Combi 24.....	G.C. No. 47-348-65	Vogue c40.....	G.C. No. 47-348-97
Logic + Combi 30.....	G.C. No. 47-348-66	Vogue s15.....	G.C. No. 41-750-56
Logic + Combi 35.....	G.C. No. 47-348-67	Vogue s18.....	G.C. No. 41-750-55
Logic Heat 12.....	G.C. No. 41-399-99	Vogue s26.....	G.C. No. 41-750-54
Logic Heat 15.....	G.C. No. 41-409-93	Vogue s32.....	G.C. No. 41-750-53
Logic Heat 18.....	G.C. No. 41-409-94	Project System 15.....	G.C. No. 41-750-59
Logic Heat 24.....	G.C. No. 41-409-95	Project System 24.....	G.C. No. 41-750-60
Logic Heat 30.....	G.C. No. 41-409-96	Project Heat 15.....	G.C. No. 41-750-57
Logic + Heat 12.....	G.C. No. 41-409-97	Project Heat 24.....	G.C. No. 41-750-58
Logic + Heat 15.....	G.C. No. 41-409-98	Procombi Exclusive 24.....	G.C. No. 47-348-79
Logic + Heat 18.....	G.C. No. 41-409-99	Procombi Exclusive 30.....	G.C. No. 47-348-80
Logic + Heat 24.....	G.C. No. 41-750-21	icombi 24.....	G.C. No. 47-348-82
Logic + Heat 30.....	G.C. No. 41-750-22	icombi 30.....	G.C. No. 47-348-83
Logic System 15.....	G.C. No. 41-750-24	icombi 35.....	G.C. No. 47-348-84
Logic System 18.....	G.C. No. 41-750-25	Esprit eco 24.....	G.C. No. 47-348-91
Logic System 24.....	G.C. No. 41-750-26	Esprit eco 30.....	G.C. No. 47-348-92
Logic System 30.....	G.C. No. 41-750-27	Ideal Classic 24.....	G.C. No. 47-349-07
Logic System 15IE.....	G.C. No. 41-750-44	Ideal Classic 30.....	G.C. No. 47-349-08
Logic System 18IE.....	G.C. No. 41-750-45	Ideal Instinct 24.....	G.C. No. 47-349-09
Logic System 24IE.....	G.C. No. 41-750-46	Ideal Instinct 30.....	G.C. No. 47-349-10
Logic System 30IE.....	G.C. No. 41-750-47	Ideal Instinct 35.....	G.C. No. 47-349-11
Logic + System 15.....	G.C. No. 41-750-29	Zanussi Ultra Combi 30.....	G.C. No. 47-002-01
Logic + System 18.....	G.C. No. 41-750-30	Zanussi Ultra Combi 35.....	G.C. No. 47-002-02
Logic + System 24.....	G.C. No. 41-750-31	Zanussi Ultra System 15.....	G.C. No. 41-002-01
Logic + System 30.....	G.C. No. 41-750-32	Zanussi Ultra System 18.....	G.C. No. 41-002-02
Logic Code Combi 26.....	G.C. No. 47-348-74	Zanussi Ultra System 24.....	G.C. No. 41-002-03
Logic Code Combi 33.....	G.C. No. 47-348-75	Zanussi Ultra System 30.....	G.C. No. 41-002-04
Logic Code Combi 38.....	G.C. No. 47-348-76		
Logic Code Combi ES26.....	G.C. No. 47-349-04		
Logic Code Combi ES33.....	G.C. No. 47-349-05		
Logic Code Combi ES38.....	G.C. No. 47-349-06		
i-mini 24.....	G.C. No. 47-348-77		
i-mini 30.....	G.C. No. 47-348-78		

These instructions must be read in conjunction with the Installation and Servicing Instructions supplied with the boiler.  
This kit allows the boiler flue outlet to be fitted horizontally through a wall thickness of up to 770mm with no hidden joints.

**NOTE. ALWAYS CHECK FLUE INTEGRITY AFTER INSTALLATION**

**KIT CONTENTS**

- A. Flue Terminal (Telescopic)
- B. Flue Turret 1000mm
- C. Rubber Terminal Wall Seal (black)  
Outer
- D. Rubber Terminal Wall Seal (white)  
Inner
- E. Cutting Aid
- F. Screw
- G. Sealing Tape



# 1 DETERMINING THE FLUE LENGTH AND FLUE PACKS REQUIRED

## IMPORTANT The Boiler must be installed in a vertical position

**"B" pack contains:** Flue turret, telescopic flue incorporating a terminal, rubber wall seals and instructions

**"D" pack contains:** 1 metre length of flue pipe (Functional length 950mm), 1 support bracket & instructions.  
Optional Flue Finishing Kit available - UIN 155988

It is recommended that a support bracket is fitted on every 1 metre of pipe work used and the bracket is located as close to the collar as possible. The bracketing must ensure a 1.5 deg fall back to the appliance. (See Frame 2, Figure 3)

The "B" pack terminal is classed as part of the maximum flue length.

This flue system incorporates a removable flue outlet nose that utilises a push fit location system. This enables the installation of deflector, high level or balcony outlet flue kits without the removal of the whole 'B' pack terminal. The appliance must not be operated without the desired outlet nose correctly fitted in place.

*Note. Location dimples on the side of the nose must be aligned with terminal mounting frame.*

The TURRET supplied in the "B" Pack has an upper combustion sample point with a screw cap seal & a lower air sample point with an air stopper seal. Ensure all caps & seals are in place.

Additional termination kits are available for use with these "B" packs

- Flue Deflector Kit: The resistance is the equivalent of 1m of flue pipe & therefore must be deducted from any Maximum Flue length.
- High Level Flue Outlet Kit: The Maximum permissible concentric flue length when using this kit is 4.5m when using a standard kit.
- Balcony Flue Outlet Kit: The Maximum permissible concentric flue length when using this kit is 4.5m dependent on the length of the balcony flue outlet run which combined with the concentric run must not exceed the maximum flue length requirement of the appliance it is to be fitted to.

Total Maximum permissible Horizontal Concentric Flue Length combining both "B" pack and "D" packs  
(Measured from centre line of the turret to the outside of the wall terminal).

All listed appliances up to 26kW except Vogue	Total Maximum	<b>9 Metres</b> - Minus any flue kit options or bends.
All listed appliances 27kW-33kW except Vogue	Total Maximum	<b>8 Metres</b> - Minus any flue kit options or bends.
All listed appliances 35kW-38kW except Vogue	Total Maximum	<b>6 Metres</b> - Minus any flue kit options or bends.
All listed Vogue appliances 15kW-26kW	Total Maximum	<b>10 Metres</b> - Minus any flue kit options or bends.
All listed Vogue appliances 32kW to 40kW	Total Maximum	<b>8 Metres</b> - Minus any flue kit options or bends.

**Wall Thickness** - Use 1000mm Telescopic (uncut)

<b>For All Boilers (except Vogue)</b>	
Minimum permissible	Maximum permissible
553 (Rear)	770 (Rear)
508 (Rear Stand off Kit)	725 (Rear Stand off Kit)
508 (Side Flue)	725 (Side Flue)

<b>For all Vogue Boilers</b>	
Minimum permissible	Maximum permissible
577 (Rear)	794 (Rear)
532 (Rear Stand off Kit)	749 (Rear Stand off Kit)
483 (Side Flue)	700 (Side Flue)

**For Flue lengths between 658 & 708 (Vogue only 682 & 732) use this 1000mm Telescopic Flue Pack and cut 75mm off the end of the terminal section of the telescopic flue only.** (See Frame 3).

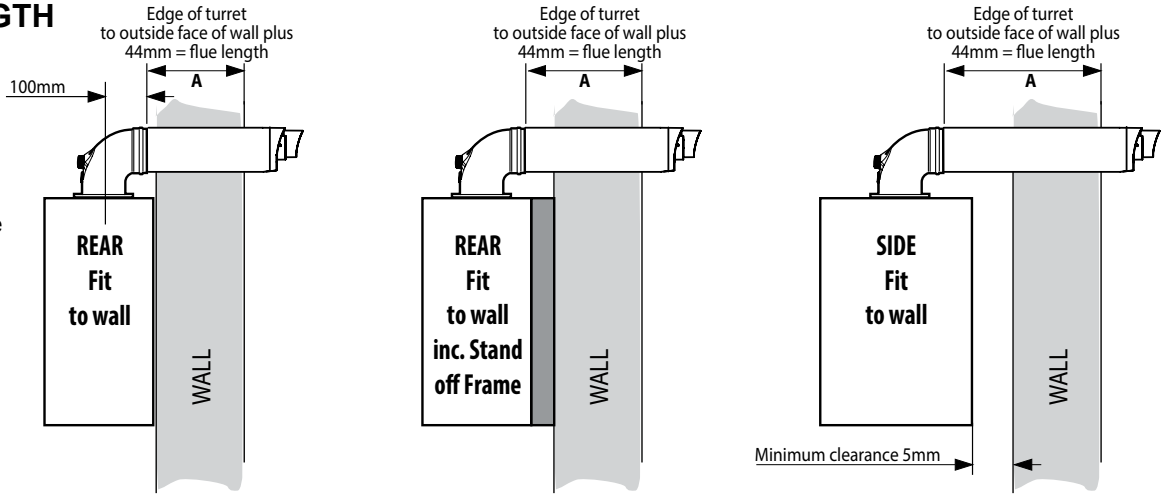
### Telescopic Flue

If Telescopic flue is used on its own it should be installed horizontally as the internal flue pipe is designed with a 1.5 deg slope back to the appliance. (See Frame 2, Figure 3).

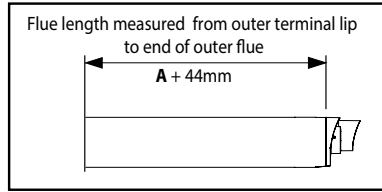
## 2 FLUE LENGTH

**FIGURE 1**

Note. Maximum permissible flue length is measured from centre line of appliance flue outlet to outside wall face.



**NOTES**  
 Centre of turret to edge of turret = 100mm  
 Turret has a flue insertion of 30mm  
 The compressed outer wall seal has protruding wall to seal mounting lip - 14mm  
 All listed appliances except Vogue: From CL of turret to wall, rear mounted 155mm, side mounted (including clearance) 200mm  
 All Vogue appliances: From CL of turret to wall, rear mounted 131mm, side mounted (including clearance) 225mm

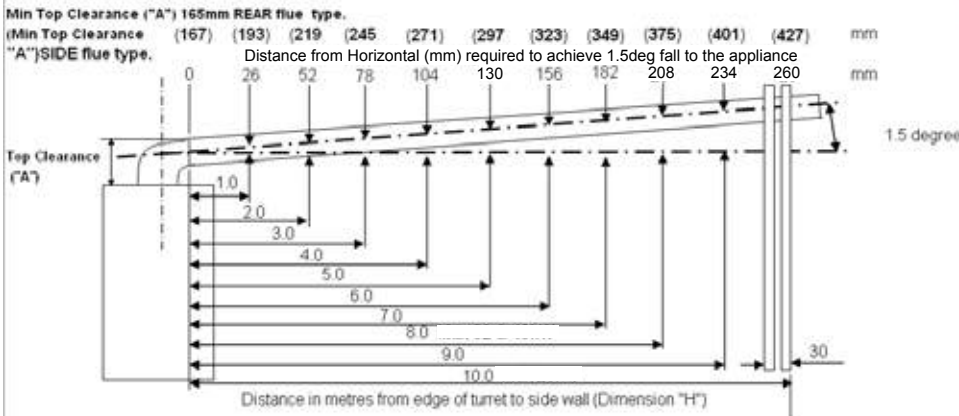


**FIGURE 2**

Actual maximum flue kit length achievable (outside edge of turret to out side face of wall plus 44mm) - NO APPLIANCE SHOULD EXCEED ITS MAXIMUM FLUE LENGTH LIMIT

	B Pack 1m (Telescopic)		B Pack 1m (Telescopic) Cut 75mm		
	Minimum	Maximum	Minimum	Maximum	
<b>B Pack (Standard)</b>	652	869	577	794	Max output 35kW & 38kW Boilers - Except Vogue Boilers  Max output 30/33kW Boilers including Vogue 32kW & Vogue 40kW  Max output 12kW, 15kW, 18kW & 24kW - Except Vogue Boilers  Max output Vogue Boilers only 15kW, 18kW & 26kW
Plus 1 (1m D pack)	1602	1819	1527	1744	
Plus 2 (1m D pack)	2552	2769	2477	2694	
Plus 3 (1m D pack)	3502	3719	3427	3644	
Plus 4 (1m D pack)	4452	4669	4377	4594	
Plus 5 (1m D pack)	5402	5619	5327	5544	
Plus 6 (1m D pack)	6352	6569	6277	6494	
Plus 7 (1m D pack)	7302	7519	7277	7444	
Plus 8 (1m D pack)	8252	8469	8177	8394	
Plus 9 (1m D pack)	9202	9419	9127	9344	
Plus 10 (1m D pack)	10152	10369	10077	10294	

**FIGURE 3**



1. If the wall thickness is greater than 305mm then dimension "H" must be reduced by the difference in wall thickness.  
 2. For flue lengths requiring "D" pack extensions the flue must incline by 26mm per 1 Metre of flue length.  
 No flue length greater that the maximum flue length shown above should be exceeded.

No flue length greater that the maximum flue length shown in Frame 1 should be exceeded.

The wall template is located on the internal protective packaging.

The template shows the position of the fixing & rear flue centre holes for a standard installation

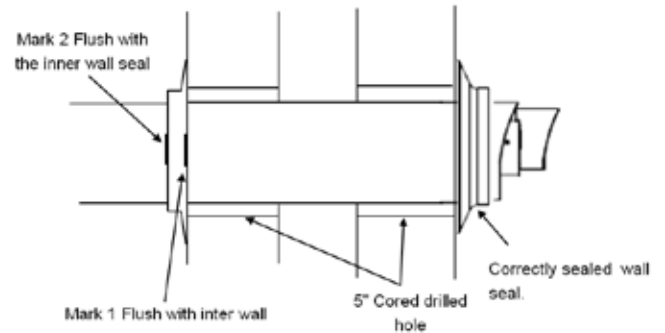
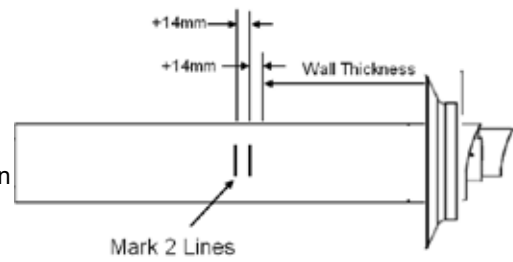
Care MUST be taken to ensure the correct holes are drilled.

1. Tape template into the required position, ensuring its squareness by hanging a plumbline.
2. If fitting a side flue, extend the flue centre line onto the side wall by 155mm (131mm for Vogue) or if using a stand-off kit 200mm (176mm on Vogue) if using a standoff bracket
3. Mark the following on to the wall:-
  - a. The selected group of wall mounting screw holes
  - b. The centre position of the flue duct. Marking both the centre and the circumference of the flue duct
4. Remove the template plate from the wall.

### 3 INSTALLING THE FLUE

#### FITTING FLUE THROUGH THE WALL

1. Measure wall thickness and add 14mm.
2. Measure from the outer terminal lip towards outer flue, place a small location mark at the dimension acquired at point 1.
3. Add a further 14mm to the dimension, obtain at item 1 and place an additional small location mark.
4. Fit external black wall seal ensuring the outer lip is in contact with the lip you have been measuring from (see fig 1)
5. Fit the internal wall seal approximately 65mm before the outer of the 2 location marks.
6. For an internal fit place flue terminal in the centre of the 5" drilled hole in the wall. Apply pressure and lightly move the flue left to right or up and down. This will cause the outer flange to fold in and allow the flue to pass through the wall.
7. Push through a further 65mm or until the inner flange is press against the inner wall. This will allow the outer flange to return to its original shape.
8. Pull back the flue until the first of the 2 location marks re level with the internal face of the wall.

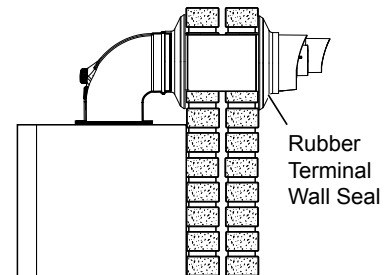
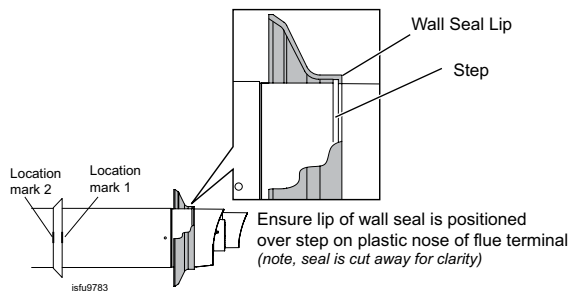


*Note. If the 2 location marks are not visible then the flue is not pulled back far enough to obtain the correct seal. If the 1st location mark has passed the face of the wall the flue has been pulled to far back and the outer wall seal will have been dislodged from its mounting and will need to be refitted.*

9. When 1st mark is in line with the wall, whilst holding the flue firmly, push the white wall sealing flange to the wall until the 2nd of the two marks is just visible. If the last location mark is clearly passed the white inner wall seal then the outer wall seal will have been dislodged from its mounting and will need to be re-fitted.

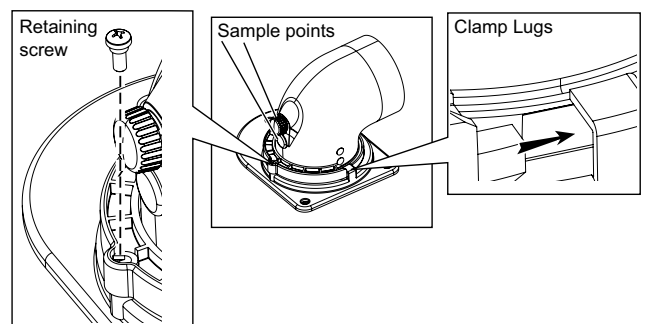
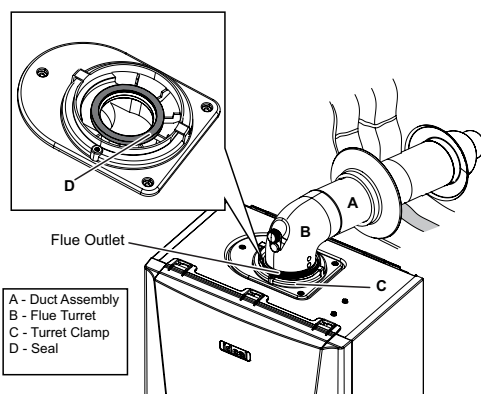
10. Ensure the seam and the outlet terminal are at the top and fitted as shown.

*Note. If less than 50% of the length of the flue is internal the flue should be fitted from outside.*



#### FITTING THE TURRET

1. Ensure the rubber seal is fitted correctly on the appliance manifold and that all flue seals are undamaged.
2. Hold the flue firmly and push the turret on until it has travelled 30mm on to the flue pipe and is fully engaged. Make sure the flue has not rotated or moved forward during fitting and the flue seam is upper most.
3. Push the turret into the manifold ensuring the upper plastic lip is flush with the top of the manifold.
4. Fully engage the clamp location section into the manifold location holes. Rotate down on to turret flange.
5. Secure clamp to appliance using securing screw.
6. Ensure all sample points are accessible and all sample plugs and caps are fitted.



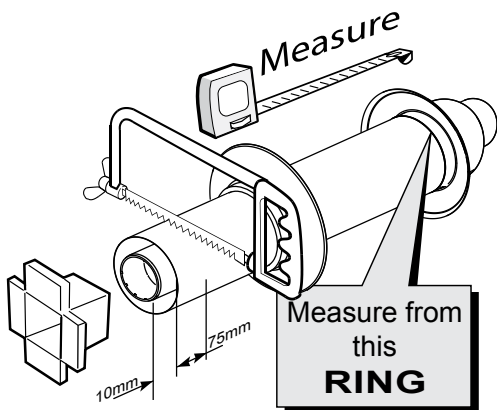
## 4 INSTALLING THE FLUE..... CONT'D

### TELESCOPIC FLUES

**TELESCOPIC FLUE B PACK** SHOULD ONLY BE ADJUSTED FOR USE WITHIN ITS SPECIFIED RANGE AND MUST NOT BE CUT

**HORIZONTAL FLUE TERMINAL (1000MM LONG) B PACK (TELESCOPIC)** MUST ONLY BE CUT IF REQUIRED FLUE LENGTHS ARE BETWEEN: VOGUE BOILERS - **682 & 732**, ALL OTHER BOILERS - **658 & 708MM**. THIS WILL REQUIRE 75MM TO BE CUT OFF THE TERMINAL END OF THE 1000MM TELESCOPIC FLUE.

ALL OTHER LENGTHS OBTAINED USING "D" PACK EXTENSIONS IN FLUE LENGTH TABLE 1, COLUMN "HORIZONTAL FLUE TERMINAL (1000MM LONG) B PACK CUT 75MM" (TELESCOPIC) SHOULD HAVE THE 75MM CUT OFF THE "D" PACK EXTENSION AND NOT TELESCOPIC FLUE

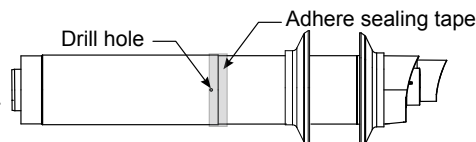


### CUT 75MM OFF HORIZONTAL FLUE TERMINAL 1000MM LONG B PACK (TELESCOPIC)

1. Measure cut flue length (A+44mm). (If required telescopic length is not between 658 and 708 then proceed to set flue 7b).
2. Remove telescopic end piece from the flue body and set aside.
3. Mark the circumference 75mm from the open end of the outer flue.
4. Cut along the 75mm mark cutting **only the outer flue** ensuring the cut is square.
5. Dress the cut end to make sure all burr is removed and the cut edge is in its original shape.
6. Measure 20mm from the newly cut edge of the outer flue, place a mark at the top of the flue approximately 20mm wide & write stop the terminal side of the line.
7. Mark the inner tube 10mm longer than the outer tube around its circumference and cut following the mark to ensure its cut square
8. Remove all burrs and place a chamfer on the outer edge to aid assembly.
9. Re-assemble telescopic section.

### SETTING TELESCOPIC FLUE B PACK

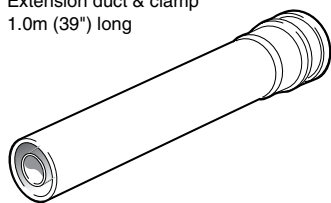
1. Measure the required flue length (A+44mm).
2. Measure from the outer terminal lip to end of outer flue. Pull apart flue until desired length is achieved. **ENSURE THE STOP MARK IS NOT VISIBLE, IF IT IS, THE FLUE IS TOO SHORT AND SHOULD NOT BE USED.**
3. Check that both flue seams are at the top and the outlet terminal is upper most.
4. Drill a 3.5mm hole through one of the 2 outer side holes into the inserted outer flue. Take care not to pierce the inner plastic flue.
5. Seal the joint on the outer air duct with the tape provided.
6. Fit internal and external wall seals (see installing flue)



## 5 FLUE EXTENSION DUCTS - For total flue lengths greater than 885mm

### Pack D Flue extension duct kit contents

Extension duct & clamp  
1.0m (39") long

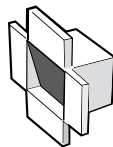


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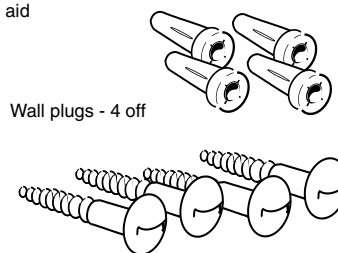


Flue duct support

Flue support cutting aid  
(shown folded up)



No. 10 x2" wood screw - 4 off



Wall plugs - 4 off

**IMPORTANT: Flue extension duct needs to be cut 10mm longer than the outer duct.**

### **Technical Training**

The Ideal Technical Training Centre offers a series of first class training courses for domestic, commercial and industrial heating installers, engineers and system specifiers. For details of courses please ring: ..... 01482 498 432

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