

THETFORD



INSTALLATION MANUAL

COOKER

Triplex 70 series

EN

Original Installation Manual

Contents

1	Introduction.....	2
2	Safety.....	3
3	Serviceability.....	5
4	Technical specifications.....	6
5	Before installation.....	8
6	Installation.....	12
7	After installation.....	14
8	Service & questions.....	15

1. Introduction

General

This is the installation manual for the Thetford SOH70, SOH71, SOH75, SOH76 and SOH77. The manual is meant for qualified installers who will install the appliance in a caravan, camper or holiday home.

Read the information and instructions carefully and follow them strictly to install the appliance safely and correctly.

Also read the warnings in the user manual before testing the appliance after installation.

This document is version SINS2326/0125-V02 of the installation manual.

Our policy is one of continuous development and improvement. Specifications and illustrations may change subsequent to publication.

Please visit www.thetford.com for the most recent version.

Symbols

The following symbols may be used in this manual:



Warning. Risk of serious injury and/or damage.



Caution. Risk of moderate injury and/or damage.



Attention. Important information.



Note. Additional information.



Video. Additional instruction video available.

2. Safety



READ THESE INSTRUCTIONS FOR USE CAREFULLY . FAMILIARISE YOURSELF WITH THE APPLIANCE. KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

General



Risk of serious injury through burning, explosion, clamping, electrocution, suffocation and poisoning or damage to the product.

- The appliance is only meant for installation inside a caravan, camper or holiday home.
- If the appliance is not installed in accordance with national and European law, regulations, rules and standards, this will void the warranty and may lead to criminal prosecution.
- Do not modify this appliance, unless the modification is authorised and carried out by the manufacturer or their agent.
- Use only genuine and approved parts and materials.
- Wear the correct Personal Protective Equipment during installation. Also follow the applicable safety regulations.
- Gas and electrical appliances should only be installed by qualified and certified professionals.
- **DO NOT** block/suffocate ventilation for the appliance.

Installation



Risk of serious injury through burning, explosion, clamping, electrocution, suffocation and poisoning or damage to the product.

- This appliance may be installed in a kitchen/kitchen diner but not in a room containing a bath or a shower.
- LPG appliances must not be fitted below ground level e.g. in a basement.
- Follow the minimum dimensions shown in this manual. Any deviation could result in excessive temperature rise. If the minimum dimensions must be reduced, due to design constraints, a temperature rise test of all furniture fitted around the appliance must be performed. Where the minimum dimensions are reduced, it is recommended to install non-combustible material.

- The surrounding surfaces must be able to withstand the allowable temperature rise of 65°C above ambient temperature, as specified in the EN30-1-1 standard and in accordance with the design of this unit.
- The temperature of the surrounding surfaces may rise if there are other additional devices besides the appliance. Check the allowable temperature of the materials used for the surrounding surfaces to ensure that they meet the requirements of EN30-1-1, EN1949, EN1645-1, EN1646-1, EN1647 and EN721.
- All combustible materials such as curtains and shelves must be kept well clear of the appliance.
- To ensure correct operation the installation must allow for free exchange of air between the enclosure and the living environment.
- Design constraints may dictate additional venting at the front of the installation.
- This appliance must be earthed.
- Route cables away from the appliance and other heat sources.
- Do not allow cables to hang loose into the lower compartment.

Gas specific safety



Risk of serious injury through burning, explosion, clamping, electrocution, suffocation and poisoning or damage to the product.

- Ensure that the type of gas and pressure match the specification of the appliance. You can find the specification on the data badge.
- Prior to installation, ensure that the local distribution conditions (nature of the gas and gas pressure) and the adjustment of the appliance are compatible.
- This appliance is not connected to a combustion products evacuation device. It shall be installed and connected in accordance with current installation regulations. Particular attention shall be given to the relevant requirements regarding ventilation.
- Pay close attention to current regulations on ventilation in the country of use. The installation must provide for adequate air supply for combustion to the burners, safe removal of combustion products and avoidance of accumulation of unburned gases.
- The appliance must be positioned free from draughts, which may effect the combustion.
- Maintain provision for the dispersal of unburned gas beneath the appliance. Ensure any gas dispersal hole is located away from any burner.
- To ensure correct operation and prevent changes in air pressure affecting appliance performance, the appliance must be built into a securely fixed self-contained cabinet which is not connected to externally vented chambers in adjacent furniture, other than the gas dispersal hole described above.
- Use only metal gas pipes in accordance with the requirements of EN1949.
- NEVER use flexible/rubber tubing or hoses to connect gas.



It is recommended to install an over pressure shut off device (OPSO) downstream of the gas regulator. In case of a regulator failure the OPSO will immediately stop the gas flow.

12V DC specific safety



Risk of serious injury through burning, explosion, clamping, electrocution, suffocation and poisoning or damage to the product.

- Ensure the installation and materials used are in accordance with the latest legislation and regulations on electrical installations in the country of use.
- Observe polarity to prevent damage to the appliance and/or damage to other appliances connected to the 12V DC circuit:
 - +12V DC or positive wire is colored red.
 - -12V DC or negative or ground wire, is colored black or white.

AC Mains specific safety



Risk of serious injury through burning, explosion, clamping, electrocution, suffocation and poisoning or damage to the product.

- Connect the power cord to a suitable switched mains supply.
 - Use a switched wall-outlet if possible.
 - The switch should be reachable at all times.
- The mains supply for the appliance must be fused.

3. Serviceability

The installer of Thetford products is responsible for correct installation according to the Thetford installation instructions to ensure the functionality and serviceability of the product.

In terms of serviceability, this means that a dealer or authorised Thetford service partner must be able to remove and re-install the Thetford product within the time that is allowed according to the Thetford time-list, using standard tools and equipment.

This is to claim any warranty during the warranty period after the purchase date.

In case of any queries on this subject, a Thetford local service representative can be contacted for additional support related to the installation of the product.

4. Technical specifications

Table 1: Burner specifications

	SOH70 and SOH75			SOH71		
	Gas input		Injector	Gas input		Injector
						
	kW	g/hr	mm	kW	g/hr	mm
Gas burners	2 x 1.68 1 x 2.27	2 x 121 1 x 163	0.67 0.77	2 x 1.50	2 x 108	0.61
Grill burner	1.60	115	0.65*	1.60	115	0.65*
Oven burner	1.50	108	0.59	1.50	108	0.59
Total	7.23**	521		4.60**	331	
Hotplate burner	-			1 x 800W		
Electrical supply	12V DC			230 - 240V AC 50Hz and 12V DC		

	SOH760			SOH769		
	Gas input		Injector	Gas input		Injector
						
	kW	g/hr	mm	kW	g/hr	mm
Gas burners	3 x 1.50 1 x 1.0	3 x 108 1 x 72	0.61 0.52	2 x 1.50 1 x 2.27	2 x 108 1 x 163	0.61 0.77
Grill burner	1.60	115	0.65*	1.60	115	0.65*
Oven burner	1.50	108	0.59	1.50	108	0.59
Total	7.10**	511		6.87**	495	
Hotplate burner	-			-		
Electrical supply	12V DC			12V DC		

SOH77			
	Gas input		Injector
			
	kW	g/hr	mm
Gas burners	2 x 1.50 1 x 1.00	2 x 108 1 x 72	0.61 0.52
Grill burner	1.60	115	0.65*
Oven burner	1.50	108	0.59
Total	5.60**	403	
Hotplate burner	1 x 800W		
Electrical supply	230 - 240V AC 50Hz & 12V DC		

(*) On models before 2024, the injector size is 0.62mm

(**) Dual-function tap on grill and oven, only one can be active at the same time.

Table 2: Dimensions and weight

Dimensions	SOH70 and SOH75			SOH71			SOH76			SOH77		
	H	W	D	H	W	D	H	W	D	H	W	D
mm	468	463	500	468	463	500	468	513	500	468	513	500
Appliance weight	21.5kg			23.1kg			23.0kg			24.6kg		
Oven & Grill volume	23L			23L			23L			23L		



This appliance is suitable for use with LPG [Liquefied Petroleum Gas] and should not be used with any other gas.

Table 3: Gas category

Class 3 Appliance		
Gas category & Pressure	CAT I ₃ + (28-30/37)	CAT I ₃ B/P (30)
	BUTANE (G30) 28 – 30mbar	BUTANE (G30) 30mbar
	PROPANE (G31) 37mbar	PROPANE (G31) 30mbar
For installation in	BE, CH, CY, CZ, ES, FR, GB, GR, IE, IT, LT, PT, SI, TR	AT, BE*, CH, CY, CZ, DE, DK, EE, FI, FR, GB*, GR, HR, HU, IT, LT, NL, NO, PL, RO, SE, SI, SK, TR
Normative references	EN 30-1-1 : 2021 EN 30-2-1 : 2015	

(*) Category applicable only for appliances installed in Touring & Motoring Caravans.



Use only the type of gas and the pressures specified. The specifications for your appliance can be found on the label described in chapter *Service & questions*.

5. Before installation

Content of the box

For the single-piece packaged appliance, check the content:

- Appliance
- Grill pan, trivet & grill handle
- Oven shelf
- User manual
- Installation manual



If something is missing, please contact your dealer.

Cabinet requirements

The location must provide:

- Wood cabinetry and worktop.
- Support for at least the weight of the appliance as stated in Technical specifications plus any items placed in or on the appliance



The total weight placed on top of the hob should not exceed 10kg.



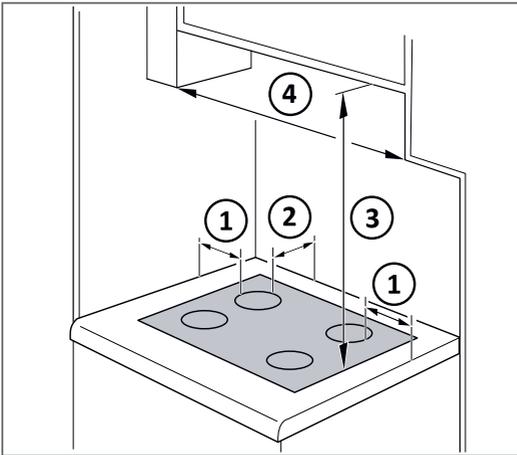
The oven and/or grill should not be loaded with more than 5kg.

- Minimum installation clearances for installation location and gas dispersal, as stated in Installation dimensions.

Cabinetry protection dimensions



The distances below are between the edge of the burners and the sides and between the pan rests and overhanging parts.





If you are unable to maintain the minimum distances mentioned in the table below, protect with non-flammable material.

Table 4: Cabinetry protection dimensions

Model / Dimension (mm)	①	②	③	④
SOH70	200	200	500	463
SOH71	200	200	500	463
SOH75	200	200	500	463
SOH76	200	200	500	513
SOH77	200	200	500	513

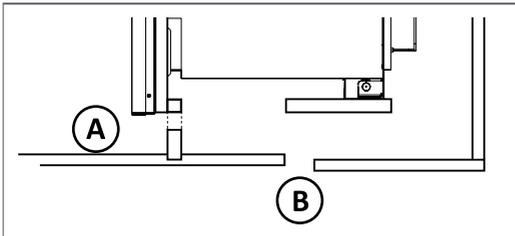


For models with a glass lid, the distance from the edge of the burner to the rear wall can be reduced to 110mm.

Gas dispersal



Maintain provision for the dispersal of unburnt gas beneath the appliance. Ensure any gas dispersal hole is located away from the burners. The gas dispersion hole must vent to the outside of the leisure vehicle.



Ventilation opening **A** should be 2000mm² minimum

The gas dispersion hole **B** should be Ø25-50mm diameter



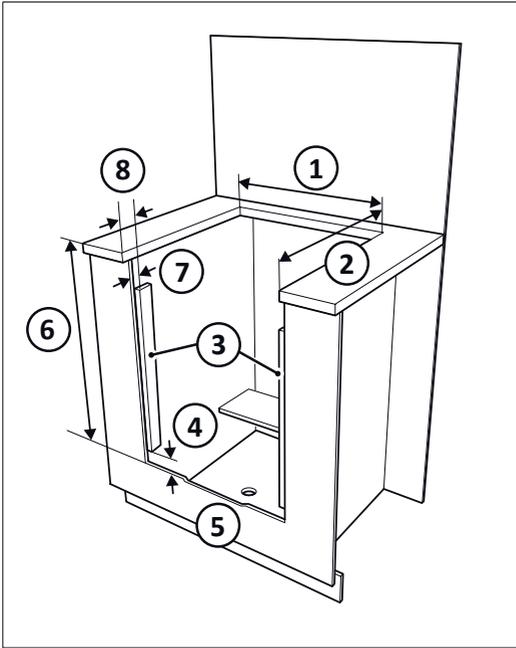
To ensure correct operation and prevent changes in air pressure affecting appliance performance, the appliance must be built into a securely fixed self-contained cabinet which is not connected to externally vented chambers in adjacent furniture, other than the gas dispersal hole described above.



Protect the underside of the appliance with a heat shield made from non-combustible material, if the space below the cooker, oven, grill or combination is used for storage or another appliance.

Installation dimensions

Schematic overview of the required dimensions

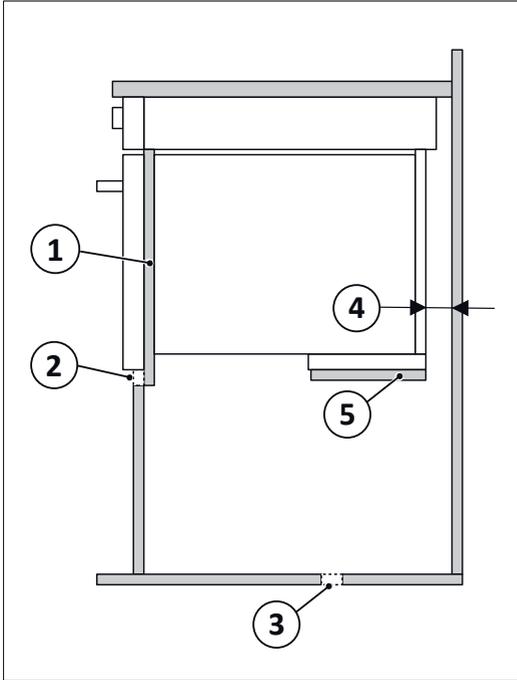


1. SOH70-71-75: 445mm;
SOH76-77: 496mm
2. 493mm
3. Wood batten
max. 15 x 40 x 330mm;
to be fitted to both sides of the
cabinet
4. 0mm
5. Ventilation opening: min.
2000mm²
6. 463mm
7. 17mm
8. 37mm



Ensure there is a gap of 10mm min. between the door of the appliance and adjacent cabinetry or doors.

Cabinet view from the right side



1. Wood batten
 2. Ventilation opening
 3. Gas dispersion hole
 4. 80mm
 5. Support shelf
- SOH70-71-75:
18 x 445 x 140mm
- SOH76-77:
18 x 495 x 140mm

6. Installation



Read the applicable instructions in chapter *Safety* first.

Prepare



See *Technical specifications* and *Before installation* for more information.

- Prepare the cabinet and worktop for the appliance.
- Mount the wood battens to both sides of the cabinet, if applicable for the appliance model.
- Ensure the air gaps are according to specifications.
- Ensure the gas dispersion hole has the correct size and is not blocked.

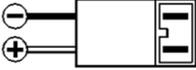
Install the appliance

- Remove all packaging materials from the appliance.

- Slide the appliance half way into the opening.
- Connect the 12V DC cables for spark ignition (and cooling fans where applicable) to a 12V DC battery or power supply, using suitable connectors and observing the correct polarity.



Black/Schwarz/Noir



Red/Rot/Rouge

**Verify supply polarity
before connecting**

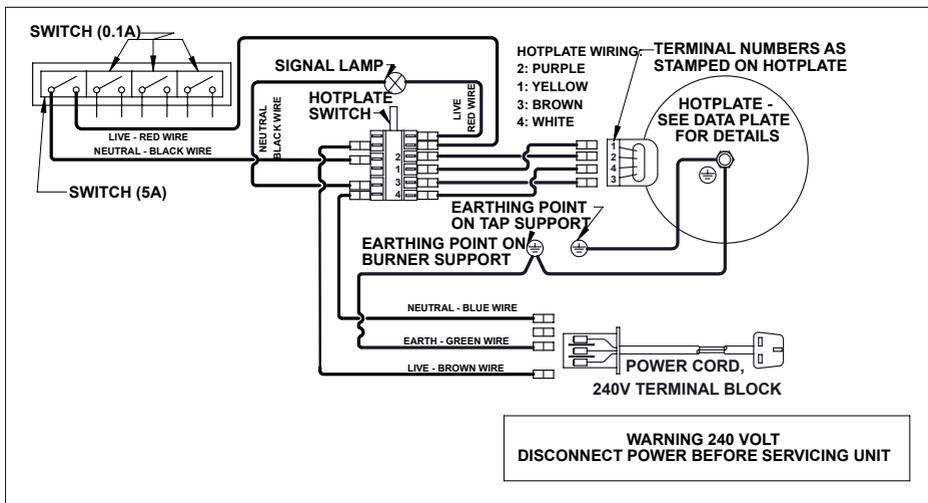
**Warranty void if
connection reversed.**

- If applicable, connect the power cord to a suitable mains supply via a switched wall mounted socket. The switched socket must be accessible after installation.
- Place the appliance into the opening.
- Fix the appliance in place using the fastener positions located on either side of the front trim and each hob side trims as shown in chapter 'Before installation'.



Make sure the appliance is located correctly in the aperture.

Electrical wiring for Dual Fuel models



Connection variants for mains supply:

- Standard UK power plug
- Euro plug

Connect the gas supply

- Connect the gas pipe to the \varnothing 8mm gas inlet of the appliance.

Attach labels

- Attach a warning label next to the unit that meets the requirements of EN721, Annex A.
- Attach a warning notice next to the gas dispersal hole, with the text: Warning! Under no circumstances should the gas dispersion hole be obstructed.

7. After installation



Read the applicable instructions in chapter *Safety* first.

Visual checks

Check if:

- All packaging materials have been removed.
- The appliance is placed, mounted and levelled on a stable structure.
- Vents and gas dispersal hole are not blocked/obstructed.
- Electrical cables are not pinched, damaged or hanging loose.
- Electrical cables are not routed close to heat sources (such as hob, oven or heater) and ignition sources.
- Electrical connectors are seated correctly.

Functional checks

Check if:

- All gas piping and connections are correct and do not leak.
- Appliance can operate only on gas and pressures as shown in table 3 of the *Technical specifications*.
- Appliance can be switched on/off and the temperature is adjustable.
- The flames have a proper colour. The burners have a fixed air/fuel mixture. When using propane, the flames burn quietly with a blue-green colour and no yellow at the tip. With butane, the flames have yellow tips. The yellow colour of the flames increases slightly as the burner heats up.
- The pressure of the gas when all connected gas appliances are in use simultaneously. The gas pressure may not rise or fall by more than 2.5mbar relative to the nominal value.

8. Service & questions



Read the applicable instructions in chapter *Safety* first.

Service

Before any service work is started, the appliance should have been left to cool and be disconnected from both the gas and electrical supplies. After each service the appliance must be checked for gas soundness and electrical safety.



All servicing must be carried out by an approved competent person.

Questions

If you have questions about your product, parts, accessories or authorised services visit www.thetford.com.

If you contact an authorised local Service Centre in your country, provide the details of the model and serial number plus the date of purchase.



Warranty

For our warranty clause, please refer to the conditions mentioned on www.thetford.com.

Declaration of Conformity

Thetford hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the applicable Regulations, Directives and Standards. A copy of the Declaration of Conformity can be found at www.thetford.com.

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