



JSG12ST-S25

Instantaneous Gas Water Heater

Suitable for use in the following countries:

AT, CZ, FR, GR, IE, IT, LT,
PT, RO, SK, SI, ES, CH, GB
INSTALLER MANUAL

GAS SAFETY (INSTALLATION AND USE) REGULATIONS 1998 (AS AMENDED)

It is a Legal requirement that all gas appliances must be installed by a registered person in accordance with the above regulations.

Failure to install appliances correctly could lead to prosecution. It is in your own interest, and that of safety, to ensure that the Legal requirements are complied with. Read these instructions carefully before attempting to operate the appliance. Comply with all applicable warnings.

Do not interfere with any sealed components, and use the appliance only in accordance with these instructions.



RECOMMENDATIONS - FOR THE INSTALLER

This appliance must not be installed, adjusted or adapted for use with another type of gas.

GAS SAFETY (INSTALLATION AND USE) REGULATIONS 1998 (as amended)

It is a Legal requirement that all gas appliances must be installed by a registered person in accordance with the above regulations.

Failure to install appliances correctly may lead to prosecution.

It is in your own interest, and that of safety, to ensure that the legal requirements are complied with.

In addition to the above regulations, this appliance must be installed in accordance with the current IEE Wiring regulations, Health and Safety Document No 635 'The Electricity at Work Regulations. It should also be in accordance with the relevant recommendations in the current editions of all relevant National Standards. Your particular attention is drawn to the following standards relevant to an installation in Leisure Accommodation Vehicles:

BS EN 1647:2018 Leisure accommodation vehicles; Caravan holiday homes; Habitation requirements relating to health and safety.

BS EN 721:2019 Leisure accommodation vehicles: Safety ventilation requirements.

BS EN 1949:2011+A1:2013 Specification for the installation of LPG systems for habitation purposes in leisure accommodation vehicles and in other vehicles.

BS 5440-1:2008 Flueing and ventilation for gas appliances of rated input not exceeding 70 kW net (1st, 2nd and 3rd family gases). Specification for installation of gas appliances to chimneys and for maintenance of chimneys

BS 6891:2015+A1:2019. Specification for the installation and maintenance of low pressure gas installation pipework of up to 35 mm (R1¹/₄) on premises.

Codes of Practice

CoP 501

CoP 502

IMPORTANT: References to the above standards are for guidance only. Installers must always check to ensure that the references made to EN and BS standards in this document are to the latest requirements.

The installation must be according to national and local regulations and the requirements of the CPD (construction products directive).

Manufacturer's instructions must NOT be taken in any way as over-riding statutory regulations

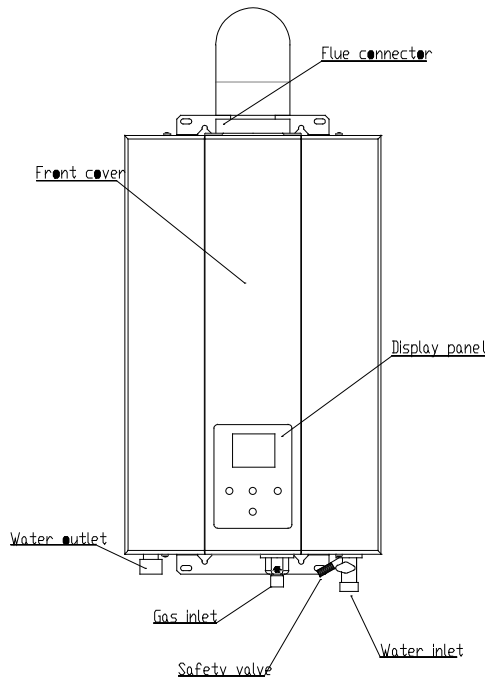
Always refer to technical information provided on the appliance data plate before installing this appliance

Ensure that the appliance is compatible with local regulations

INTRODUCTION

The WIDNEY JSG12ST-S25

Is a wall hung, room sealed, fan assisted, microprocessor controlled fully modulating gas Water heater for providing domestic hot water. It is particularly suitable for Caravan Holiday Home and Park Home use. It is not suitable for road going vehicles.



DO's and Don'ts

DO read the installation instructions before fitting the product

DO check that the correct gas and Water supply is available

DO use the recommended terminal and Flue Pipe

DO check that the flue system is correctly fitted prior to commissioning

DO NOT attempt to fit this appliance unless you are a qualified fitter

DO NOT operate this appliance before the installation checks are complete

Guidance Notes for POSITIONING AND LOCATION of Water Heater

1. WATER HEATER LOCATION

In positioning the water heater, the following limitations **MUST** be observed:

The position must allow for a suitable flue termination to be made.

The water heater must be installed on a flat vertical wall capable of supporting its weight. - If the water heater is in a room containing a bath or shower, the water heater controls and power supply must be situated so that they cannot be touched by the person using the bath or shower. Your attention is drawn to the current IEE Wiring Regulations, and in Scotland the electrical provisions of the Building Regulations applicable in Scotland. - A compartment used to enclose the appliance **MUST** be designed and constructed specifically for the purpose. An existing cupboard, or compartment, may be used provided it is modified accordingly.

Please read the warnings located at the end of these instructions before proceeding with INSTALLATION.

2. FLUE TERMINAL POSITION

The heater must be installed so that the terminal is exposed to the external air.

It is important that the position of the terminal allows free passage of air across it at all times.

It is essential to ensure that the products of combustion discharging from the terminal cannot re-enter the building or vehicle, through ventilators, windows, or other sources of natural air infiltration, such as other flues etc, with the exception of doors, but not the opening windows thereof.

The minimum acceptable dimensions from the terminal to obstructions and ventilation openings are as follows:

Directly below an opening fixed vent or window etc.....	300mm
Adjacent to an opening fixed vent or window etc.....	300mm
Below gutters.....	75mm
From a vertical drain pipe.....	75mm
From an internal or external corner	300mm

Where the terminal is fitted in a position to which children, the elderly, or disabled people have access (less than 1.5m above steps, decking or ground), a suitable terminal guard should be fitted. In certain weather conditions the terminal may emit a plume of steam.

- DO NOT MOUNT within 300mm vertically from a terminal on the same wall or horizontally from a terminal on the same wall.

3. MINIMUM CLEARANCES

- Minimum clearances of 5mm to the front and sides of the heater must be observed. However full access from the front in the form of an opening door, must be given to allow access to the controls and for servicing.
- 200mm above the top of the heater case is required for the flue assembly.
- 150mm is required below the heater to allow easy access to the gas isolation cock.

VENTILATION AND SERVICES REQUIREMENT

4. VENTILATION REQUIREMENTS

The following notes are for general guidance:

The Widney JSG12ST-S25 is a room sealed appliance and needs no purpose provided combustion air ventilation.

If the water heater is to be built into a small cupboard or compartment (i.e. at minimum clearances) and overheating can be foreseen (i.e. close proximity to a cooking appliance etc.) permanent air vents are recommended for cooling purposes in the cupboard or compartment.

5. ELECTRICITY SUPPLY

THIS APPLIANCE IS NOT DESIGNED TO BE USED WITH AN INVERTER, HOWEVER IF THERE IS NO OTHER ALTERNATIVE THEN A PURE (TRUE) SINE WAVE INVERTER MUST BE USED.

- A 3 amp fused three pin plug and none switched shuttered socket outlet (both complying with BS 1363 or equivalent EN standard) or a 3 amp fused double pole isolator with a contact separation of 3mm in all poles supplying only the heater should be used.
- Installation into a Bathroom – Please refer to the current IEE wiring regulations for installation and refer to the data plate for product IP rating.
- THIS APPLIANCE MUST BE EARTHED

Where the product is fitted in a bathroom or an area that may be exposed to water spray please ensure that appropriate electrical protection is provided to the mains connection.

6. GAS SUPPLY

The gas pipes must be copper. Do not connect plastic pipes directly to the heater. It is recommended that the copper is extended to below the floor of the caravan/vehicle before connecting to plastic.

- Ensure the heater is set for the gas supply intended.
- A gas supply at the rating specified on the data label.
- Ensure the regulator is of sufficient capacity to carry the maximum water heater input plus the demand for any other installed appliances.
- Ensure the connection between the supply/bottle and the caravan holiday home or park home is designed so that no more than 2.4mbar of pressure drop occurs.
No more than 3 m of 15mm pipe should be used. Where the supply exceeds 3 m the pipe should be suitably sized only reducing to 15mm before the water heater
- A full bore isolation valve must be fitted in the supply close to the water heater with either a union or compression connection between the valve and the appliance to allow safe disconnection of the appliance.
- Connect the gas supply using a 15mm compression fitting.
- The complete installation must be tested for gas soundness.

7. CONNECTIONS TO WATER HEATER

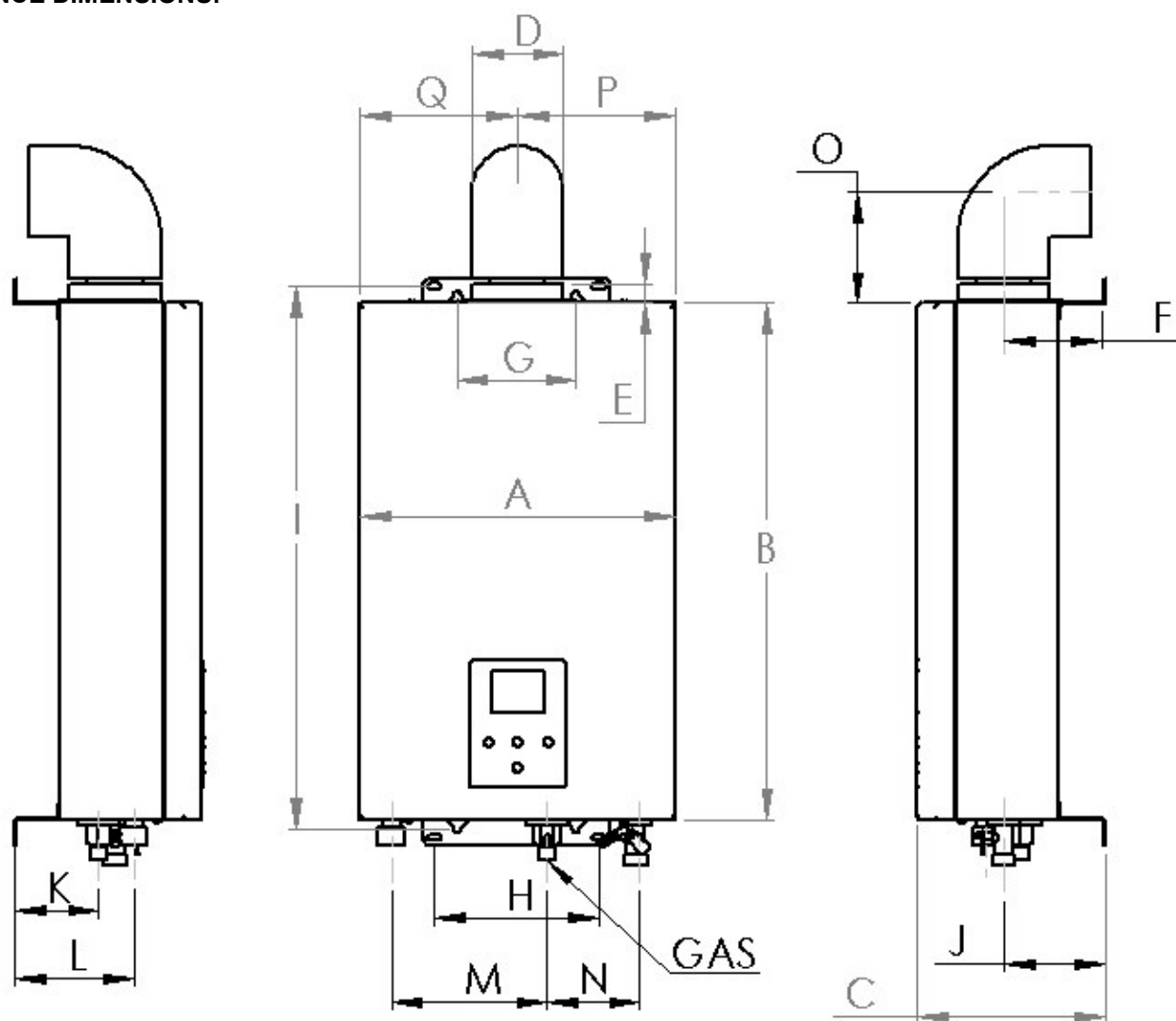
The water pipes must be copper. Do not connect plastic pipes directly to the heater. It is recommended that the copper is extended to below the floor of the caravan/vehicle before connecting to plastic.

- Ensure the water pipe complies with the requirements
- Remove any swarf or other residues in the pipes.
- Connect the heater using a 15mm compression tap connector fittings
- An isolation valve should be fitted to the inlet connection near to the appliance to allow service disconnection of the appliance.

8. HOLIDAY HOME SERVICES

- Ensure that the pipe sizing and connections between the supply/bottle regulator and the caravan/vehicle is designed so that no more than a maximum pressure drop of 2.5mbar occurs.
- This appliance must be fitted with an isolation valve not supplied.
- A cold water supply with a working pressure of a minimum of 0.2 bar measured at the cold water inlet to the heater is required. Wherever possible the cold supply to the heater should be the first connection off the main supply in order to minimise hot water flow reduction when cold water services are called for.

APPLIANCE DIMENSIONS:



MODEL	A	B	C	D	E	F	G	H	I
JSG12ST-S25 (side flue configuration)	345	565	175	60-100	25	77	130	180	594
JSG12ST-S25 (rear flue configuration)	345	565	205	60-100	25	107	130	180	594

J(water in)	K(gas in)	L(water out)	M	N	O	P	Q	WEIGHT
80	62	100	170	100	125	173	173	13.6kg
110	92	130	170	100	125	173	173	13.6kg

INSTALLATION PROCEDURE

9. UNPACKING

The Water heater is supplied in a separate carton. Care should be taken when unpacking to ensure there is no damage to the product.

Included in the Water heater carton are: Installation and User instructions, Gas isolation valve & 100mm of 15mm dia Copper tube + flue clamping collar and sealing ring.

In a separate pack: Flue kit – comprising of Inlet and outlet rigid tube – Terminal – Elbow - Clamping Ring & Sealing Collar.

THE WATER HEATER MUST BE INSTALLED WITH THE SUPPLIED FLUE KIT

10. SELECTING THE POSITION

Decide where the heater is to be fixed taking into account the installation requirements required under the relevant standards and sections 1, 2,3,12 of these instructions.

11. WALL MOUNTING

The Water Heater can either be mounted with the flue system exiting to the rear or side of the appliance. For Wall mounting with flue to the rear refer to paragraph entitled 'Flue installation to the rear'.

Materials around the flue system – The outer flue will reach a maximum temperature rise of 35°C. Care should be taken in ensuring that any materials touching the outer flue are capable of withstanding this temperature for extended periods. It is recommended that the rubber inner and outer seals are pushed into the wall aperture before sealing. This will ensure that the outer flue pipe fits centrally in the wall aperture.

Flue installation to the side: See diagram **Bi**

The water heater should be mounted on a suitable wall with sufficient structural strength to ensure adequate support.

1. Mark the position of the fixing holes and the outlet aperture in the wall as indicated in diagram **Bi**. Ensure that the position of the flue outlet meets with the requirements of the relevant standards and is located as detailed in section 2.
2. Cut the hole for the flue liner through the wall of the home.
3. Fix the flue system to the water heater see section 12.
4. Fix the water heater securely through the fixing brackets located at the base and top of the unit.
5. Go to section 12.

Flue installation to the rear: See diagram **Biii**

This method of installation requires a fixing kit part no. RSWFIX01. The fixing kit comprises of two fixing brackets to replace the fixing brackets fitted to the water heater and a wall closure plate.

The water heater should be mounted on a suitable wall with sufficient structural strength to ensure adequate support.

1. Mark the position of the fixing holes and the outlet aperture in the wall as indicated in diagram **Bi**. Ensure that the position of the flue outlet meets with the requirements of the relevant standards and is located as detailed in section 2.
2. Cut the hole for the flue liner through the wall of the home.
3. Align the closure plate with the hole in the inner wall and mark around the closure plate.
4. Cut out the inner section of the wall to fully recess the inner wall closure plate diagram **Biii**.
5. Insert the closure plate into the wall opening and fix with suitable fixings.
6. Fix the flue system to the water heater see section 12.
7. Go to section 12.

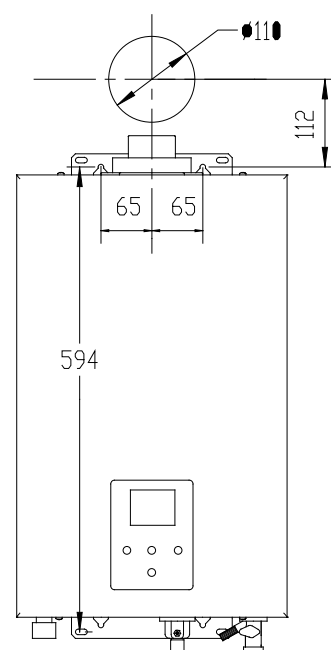


Diagram Bi

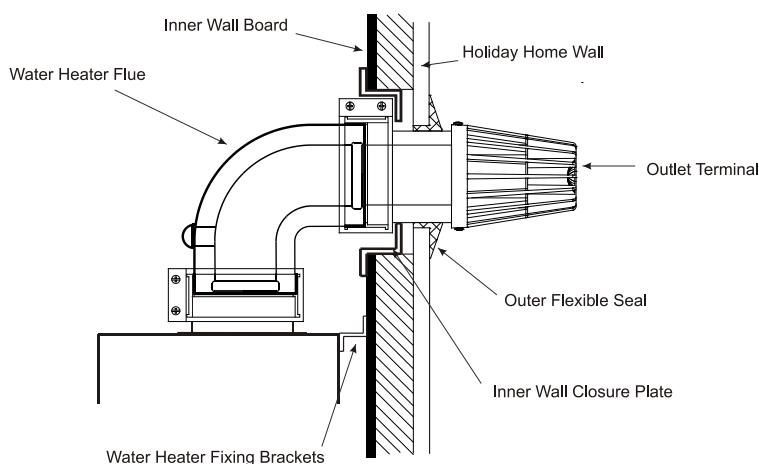


Diagram Biii

12. FLUE INSTALLATION

Positioning:

- The water heater MUST be installed so that the terminal is exposed to the external air.
- It is important that the position of the terminal allows free passage of air across it at all times.
- It is ESSENTIAL TO ENSURE, that products of combustion discharging from the terminal cannot re-enter the building, or vehicle, through ventilators, windows, or other sources of natural air infiltration, such as other flues etc, with the exception of doors, but not the opening windows thereof. The minimum acceptable dimensions from the terminal to obstructions and ventilation openings must be as detailed in section 2.

Installing the flue system:

IMPORTANT

The standard horizontal flue kit supplied with the RSW10KL is part number RSWFK1M. This kit provides for 1 meter of flue length and one 90° elbow. **Note: DO NOT INSTALL THIS APPLIANCE WITH MORE THAN ONE 90° Elbow (Bend) and more than 1.0 metre of flue length.**

Never use a flue kit not specifically approved for use with this appliance.

NOTE: Where the home is pre-installed with the RSW10KL please consult the home manufacture for replacement part numbers.

NOTE: The inner flue pipe of the terminal must be cut accurately and must always be 100 mm longer than the outer flue in order to ensure correct location in the terminal and elbow. **NOTE: The outer pipe has two holes at one end to fix the terminal always cut the pipe at the opposite end to these two holes.**

To calculate the correct length of the outer flue use the following formula and refer to diagram **Ei**

Formula: dimension X + Y + 20 mm (Note Dimension X is the distance between the inner wall of the home and the end of the elbow without the sealing collar attached; in the case of rear flue installation the appliance should be fitted with installation Kit RSWFIX01 if this kit is used then the dimension X = 20mm.)

For calculating the inner flue lengths use the overall length of the outer flue liner when cut to size and add 100mm.

Two sealing collars are provided to seal the external pipe against the internal and external wall. RSWSC01.

The flue assembly must be installed with a slight downwards incline of 2° towards the terminal to prevent the ingress of rain water, which may damage the heater. See diagram **Eii**.

Terminal Guard: if the position on the outlet terminal is less than 2 meters above ground level it is recommended that a terminal guard be fitted.

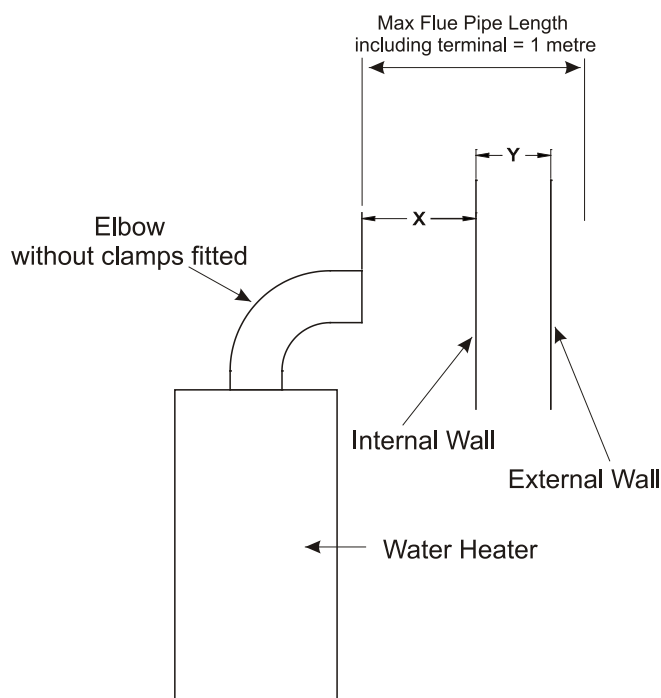


Diagram Ei

Connecting the flue system:

Refer to diagram to assist in assembly.

1. Slide the inner flue pipe into the outer flue pipe ensuring that the spacer on the inner flue pipe is evenly positioned - Note for flue lengths less than 300 mm the spacer is not required, see diagram **Eii**.
2. Fit the clamping rings onto the elbow. **Note: ensure that the smaller diameter of the clamping ring seal is facing the water heater outlet spigot, see diagram Eiii.**
3. Connect one end of the elbow to the water heater and secure the clamping ring.
4. Slide the inner flue pipe into the elbow then slide on the inner rubber collar over the flue pipe and insert the outer flue pipe through the clamping ring and into the elbow to secure the clamping ring, see diagram **Eiv**.

Note: if fitting rear flue the inner rubber collar should not be fitted.

Note; the inner flue pipe must protrude 55 mm beyond the outer flue pipe, see diagram **Eiv**.

8. Fit the water heater to the wall by inserting the flue pipe through the hole in the wall and securing the water heater through the fixing brackets into the pre drilled holes as detailed in section 11.

5. On the outside of the home slide the outer collar over the outer flue pipe.
6. From the outside of the home locate the terminal onto the inner flue pipe ensure that the rubber seal is fitted to the terminal before fixing to the flue pipe then push the terminal over the outer flue pipe.

NOTE The maximum gap on **Fig Eiv** ensure that the inner flue pipe is correctly aligned in the elbow on the water heater before pushing on fully. When the terminal is in the correct position the holes in the terminal will align with the holes in the outer flue pipe. Secure the terminal to the outer flue pipe with the fixings provided.

7. If applicable slide the inner collar up to the inner wall and seal with sealant. See diagram **Evi**
8. Slide the outer collar up to the outside wall and seal with sealant.

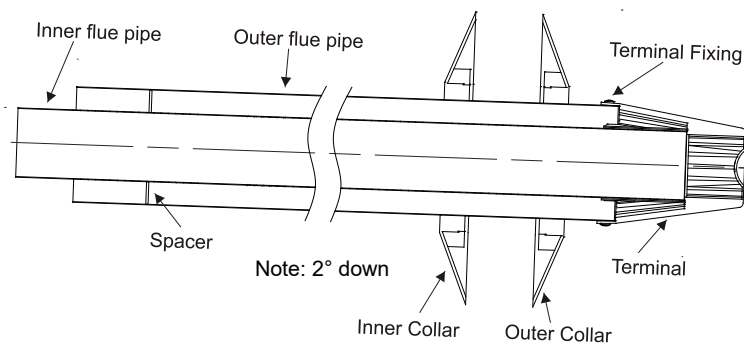


Diagram Eii

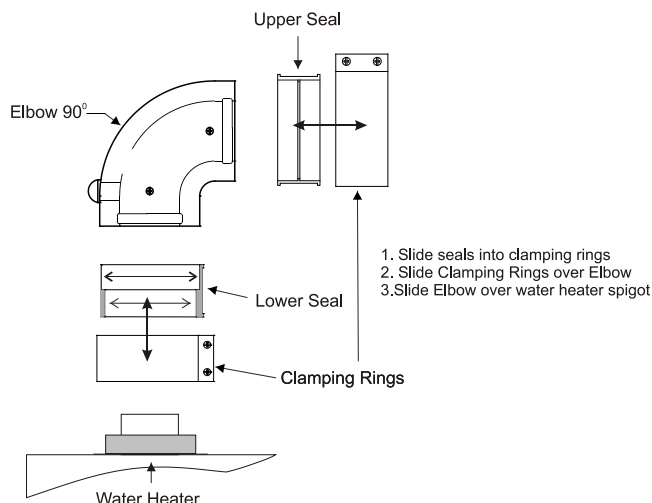


Diagram Eiii

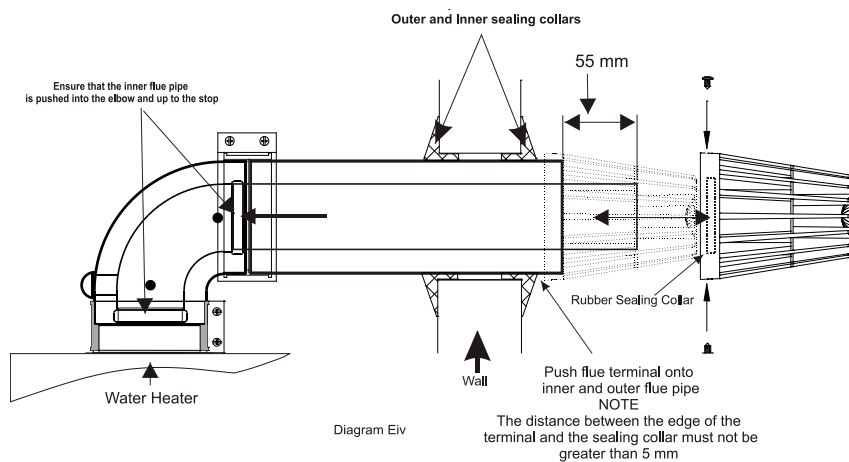


Diagram Eiv

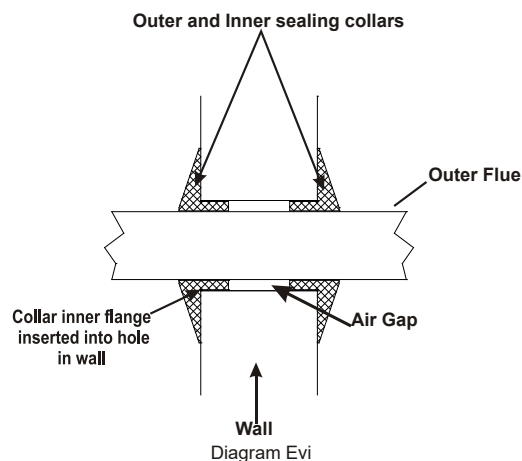


Diagram Evi

INSTALLATION COMPLETION

13. WIRING

Observe all the usual precautions to ensure that the electricity supply is isolated before beginning any installation work. The heater should be wired as described in section 5.

Important: this appliance must be earthed.

14. GAS AND WATER CONNECTIONS

Connect the gas and water connections to the appliance using the appropriate fittings. Ensure that the pipe sizing, material and connections comply with sections 6, 7, and 8 of this manual.


SETTING AND FIRST USE

15. THE CONTROL SCREEN

The control screen displays the water temperature, fan operation, burner operation and water delivery and fault diagnostics information.

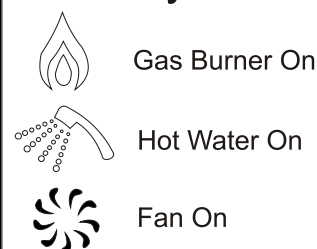
In normal operating conditions the screen will display the set water temperature and operational mode, for example if the water heater is not being used the temperature will be displayed together with the "OFF" sign under the temperature setting. If the water heater is working then the shower head will display a water effect and the burner and fan symbols will illuminate.

To operate the water heater, turn on the power from the mains. The display will light up momentarily as shown and then go to a none illuminated condition.



Push the power symbol  on the front panel. The control panel will light up and display the temperature setting of the water supplied. This temperature can be adjusted depending on either the mode condition set ("Eco", "Auto") or manually.



LCD Symbols



The "auto" condition will set the outlet water temperature between 38°C and 45°C without further adjustment (see table below). The temperature displayed will show a temperature that automatically compensates for season and therefore incoming water temperature. The "Eco" condition will automatically display a value of 43 C but can be adjusted up to a figure of 48 C whilst the water is flowing. The "manual" condition will again allow a figure of up to

48 C, but this can be adjusted up to a figure of 65 C but only when the heater is in standby condition (no water flowing). The temperature of the water to be delivered from the appliance is set by using the up  and down  buttons on the lower portion of the panel.


In all mode set conditions, the heater will automatically start up when the hot water tap is opened and the water flow exceeds 2.8 litres/min.



Temperature set when "Auto" mode selected:

Seasonal temperature compensation	Water outlet temperature
Water inlet: = or < 15°C (Winter)	45°C
Water inlet: 16 - 21°C (Spring)	43°C
Water inlet: 22 - 27°C (Autumn)	40°C
Water inlet: = or < 28°C (Summer)	38°C

Setting the mode operation:


When the heater is powered up but in standby condition; press the  button in the lower part of the display repeatedly to scroll through 3 different modes:


“Auto”, “Eco”, or manual “ ” (no display)




Mode box displays 1 of following:
 “ ” (no display)
 “Auto”
 “Eco”

Setting the water temperature: (Manual or Eco mode)

In both modes the temperature can be set between 35°C and 48°C whilst the water is flowing and the heater is running. Any attempt to set the water temperature higher than 48°C will result in the child interlock symbol  to flash.

To set the water temperature higher than 48°C, firstly shut down the heater by turning off any water being delivered; then press the  button, Above 48°C the temperatures are: 50°C, 55°C, 60°C, 65°C.

Below 48°C the temperature can be set down to 35°C in 1°C steps by pressing the  button.

16. GENERAL GUIDANCE NOTES ON HOT WATER DELIVERY

The temperature of the hot water is governed by both the ambient temperature of the cold water supply and its flow rate through the water heater. The flow rate of the hot water is controlled by the hot outlet tap / shower.

The water heater can theoretically supply more than one outlet simultaneously; however in practice the tap which is nearest will receive the most hot water. If the shower is in use and a kitchen tap is opened virtually all the hot water will be diverted to the kitchen as it offers the least resistance.

- Due to the restrictive nature of simple mixer showers it is wise to turn the temperature selector down on the water heater before using the shower.

DO NOT PLACE YOUR HANDS under the tap or use the shower until this initial flow has passed.

Allow time (30 seconds) for the temperature to stabilise after making an adjustment at the tap before making further adjustments.

17. APPLIANCE SAFETY LOCK-OUT

This water heater has a fault indicator built in to it on the front display, whenever a malfunction is detected in the water heater the display panel will indicate a fault code and turn the water heater off. Please refer to the fault code section to diagnose a fault.

COMMISSIONING ENGINEER AND END USER FAULT CODES

Fault Code	Problem Identified	Action to take
01	Input Water Temperature sensor Fault	Switch off mains power supply – then restart by switching mains supply on and pressing the on off button on the control panel – If problem persists contact service
10	Detect a flame signal through pre check?	Switch off mains power supply Check gas supply and gas pressure at appliance Restart by switching mains supply on and pressing the on off button on the control panel – If problem persists contact service
11	Ignition failure	Check gas isolation valve is in open position. Check that 37 mbar supply pressure is measured at pressure test point situated on front of gas inlet manifold. If necessary replace gas supply bottle.
12	Flame outage	Switch off mains power supply – Check mains supply and fuse Restart by switching mains supply on and pressing the on off button on the control panel – If problem persists contact service
13	Thermostat fault protection?	Switch off mains power supply – Check flow of water supply to water heater Switch on Check temperature setting on water heater. Turn to full and re test for temperature. Turn Winter summer water valve to summer setting. Switch off mains power supply Restart by switching mains supply on and pressing the on off button on the control panel – If problem persists contact service
32	Fan blocking protection	Check flue terminal for blockage.
40	Fan or drive circuit faulty.	?????
50	Overheat protection thermostat operated (outlet water exceeds 80 C)	Insufficient water flowing through heater
51	Inlet water temperature is too high	Check incoming water temperature
60	Outlet water temperature sensor fault	

18. ROUTINE SERVICING

To ensure continued safe and efficient operation of the appliance it is recommended that it is checked and serviced at regular intervals. The frequency of servicing will depend upon the particular installation conditions and usage but in general once a year should be regarded as a minimum, even if only occasional usage has occurred. It is a legal requirement that any service work **MUST** be carried out by a registered engineer.

Before leaving the factory the heater is pre-set in accordance with the information on the data plate. No adjustment is necessary and under no circumstances should any of the seals be broken. This includes the removal of the front case which can only be done by a qualified technician.

19. CLEANING

In addition to routine servicing carried out by a qualified technician it is recommended that the outer case be cleaned periodically. This should be done with a soft dry cloth. Care should be taken not to damage the LCD control panel.

Periodically the flue terminal should be checked to ensure that it is clean and free of debris. A visual inspection is recommended and if debris is noticed the appliance should be turned off and the terminal dismantled and cleaned. When replacing the terminal ensure that it is correctly fitted – refer to section 12 of this manual.

20. SAFETY

It is essential that these instructions are strictly followed for the safe and economical operation of this appliance.

The appliance is a fan-assisted room sealed gas water heater and therefore the flue terminal **MUST NOT BE OBSTRUCTED** under any circumstances. If it is damaged, turn off the appliance and consult your installer, or service engineer. If it is known or suspected that a fault exists on the appliance it **MUST NOT** be used until the fault has been rectified by a competent person.

21. PRECAUTIONS AGAINST FREEZING DURING WINTER STORAGE

During cold periods and if the water heater is situated in a place liable to freeze, the water must be completely drained from the water heater as follows:

1. Turn off the cold water Supply.
2. Open all the hot water outlet taps on the installation.
3. Release the drain plugs fitted at the lowest point of the pipe work.
4. Open the bleed valve on the side of the water inlet fitting a few turns to allow air into the system.

NOTE: There is no drain plug fitted to the hot water heater side of the water heater.

When the operation is finished, close the hot water outlet taps and replace the drain plug and tighten the bleed valve on the side of the water inlet fitting.

To put the water heater back into service, open the cold water supply.

NOTE: In a Caravan Holiday Home installation there may be a drain cock on the cold inlet under the van directly below the water heater which may be used.

22. COMMISSIONING

Before commissioning, ensure that the whole gas installation is purged and tested for soundness. Always ensure that connections made to the appliance for gas type, gas pressure and water pressure are in accordance with the appliance data plate.

23. POST INSTALLATION CHECKS

GAS CIRCUIT

Turn on the gas supply and check for leaks downstream of the isolation cock using leak detector spray.

WATER CIRCUIT

Turn on the water supply and check for leaks.

INITIAL OPERATION

Operate the heater as per the instructions in section 14 of this manual.

FINAL CHECKS

Re-light and test for gas soundness

Carry out an operating gas pressure test to ensure maximum potential performance.

USERS INSTRUCTIONS

Upon completion of testing the system the installer should:

- Give the instructions to the user and explain how the heater works.
- Demonstrate the operation of the heater.
- Explain the LOCKOUT and how to re-set.
- Stress the importance of an annual service by a registered engineer.
- Explain to the user how to proceed in case of freezing cold weather (drain down the water circuit, turn off the gas and electrical supply).
- Explain the precautions to be taken to avoid frost damage

WARNINGS

THE OUTER CASE OF THIS PRODUCT IS FACTORY SEALED AND MUST NOT BE TAMPERED WITH BY A NON COMPETENT PERSON. REMOVAL OF THIS SEAL WILL INVALIDATE THE WARRANTY.

PRECAUTIONS AGAINST FREEZING DURING WINTER STORAGE

DURING COLD PERIODS AND IF THE WATER HEATER IS SITUATED IN A PLACE LIABLE TO FREEZE, THE WATER MUST BE COMPLETELY DRAINED FROM THE WATER HEATER AS FOLLOWS:

1. **TURN OFF THE COLD WATER SUPPLY.**
2. **OPEN ALL THE HOT WATER OUTLET TAPS ON THE INSTALLATION.**
3. **RELEASE THE DRAIN PLUGS FITTED AT THE LOWEST POINT OF THE PIPE WORK.**
4. **OPEN THE BLEED VALVE ON THE SIDE OF THE WATER INLET FITTING A FEW TURNS TO ALLOW AIR INTO THE SYSTEM.**

NOTE: THERE IS NO DRAIN PLUG FITTED TO THE HOT WATER HEATER SIDE OF THE WATER HEATER. WHEN THE OPERATION IS FINISHED, CLOSE THE HOT WATER OUTLET TAPS AND REPLACE THE DRAIN PLUG.

TO PUT THE WATER HEATER BACK INTO SERVICE, OPEN THE COLD WATER SUPPLY.















NOTE: IN A CARAVAN HOLIDAY HOME INSTALLATION THERE MAY BE A DRAIN COCK ON THE COLD INLET UNDER THE HOME DIRECTLY BELOW THE WATER HEATER WHICH MAY BE USED.

THE WATER AND GAS PIPES MUST BE COPPER. DO NOT CONNECT PLASTIC PIPES DIRECTLY TO THE HEATER. IT IS RECOMMENDED THAT THE COPPER IS EXTENDED TO BELOW THE FLOOR OF THE CARAVAN/VEHICLE BEFORE CONNECTING TO PLASTIC.

THE WATER HEATER MUST BE INSTALLED WITH THE SUPPLIED FLUE KIT

MATERIALS AROUND THE FLUE SYSTEM – THE OUTER WILL REACH A MAXIMUM TEMPERATURE RISE OF 35°C. CARE SHOULD BE TAKEN IN ENSURING THAT ANY MATERIALS TOUCHING THE OUTER FLUE ARE CAPABLE OF WITHSTANDING THIS TEMPERATURE FOR EXTENDED PERIODS. IT IS RECOMMENDED THAT THE RUBBER INNER AND OUTER SEALS ARE PUSHED INTO THE WALL APERTURE BEFORE SEALING. THIS WILL ENSURE THAT THE OUTER FLUE PIPE FITS CENTRALLY IN THE WALL APERTURE.

Short Parts List

Short Parts List		
Part Number / Description	Part Number / Description	Part Number / Description
General Components		
JSGBCU Burner Control Unit 	JSGFA Fan unit 	JSGT01 Thermostat 
JSGTH Inlet and Outlet Thermistor 	JSGCV - Control valve 	JSGB-Burner 
JSGCDP Control display pcb 	JSGIG - Ignition generator 	JSGFP - Ignition + flame sensing probe 
Flue System Components		
RSWE Elbow 	RSWT Terminal 	RSWSC01 Sealing Collar Flexible Neoprene 
RSWCR Clamping Rings 	RSWCRUS Clamping Ring Upper and Lower Seal Neoprene 	
RSWFK1M Flue kit 1 Metre including Terminal-Elbow Inner flue, Outer Flue, Clamping Rings (2) – Sealing Collars (2).		
RSWFIX01 Fixing Kit		
RSWT01 Terminal Guard		

Specification

Product Description	<i>Wall Mounted side flue, room sealed, fan assisted Water Heater with electronic control for water temperature and safety operation</i>	
Model Name	JSG12ST-25	
Specification	Value	
Gas Category	II2H3P	
Gas Type adjusted for	<i>G31 Propane @30/37mbar</i>	
Gas Burner Pressure	<i>Internally Regulated to 19.0 mbar (high) and 3.0 mbar (low)</i>	
Efficiency	78.3%	
Nominal Energy Consumption	24 kW	
Minimum Energy Consumption	7 kW	
Water Pressure		
Max	8.0 bar	
Min	0.2 bar	
Min Water Flow - l/min	<i>High</i>	<i>Low</i>
$\Delta 50^{\circ}\text{C}$	6.0	1.8
$\Delta 25^{\circ}\text{C}$	12.0	3.6
Supply Voltage	220~230V a.c. 50Hz	
Power	33 W	
Gas Consumption	<i>M³/hr</i>	<i>Kg/hr</i>
High (24 kW)	0.902	1.72
Low (7 kW)	0.263	0.49
Appliance Type	<i>C₁₃</i>	
Degree of Electrical Protection	<i>IPX4</i>	
Combustion Flue Gas Temperature	<i>147^oC</i>	

Energy related product (Erp) compliance:

COMMISSION REGULATION (EU) No 814/2013 of 2 August 2013

implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to eco-design requirements for water heaters and hot water storage tanks

According to: **COMMISSION REGULATION (EU) 2015/1188 “Eco Design Directive”**

Commission delegated regulation (EU) No.812/2013 of 18th February 2013 supplementing Directive 2010/30/EU (Lot 2 hot water)

Declared load profile:	“M”
Water heater energy efficiency (η_{WH}):	78.3%
Water heating energy efficiency class:	A
Daily gas consumption (corrected) (KwH):	7.836
Daily electrical consumption (corrected) (KwH):	0.044
NOx emissions (mg/KwH):	47
Indoor sound power (db):	61



Warranty and Service

Servicing must be undertaken by a registered engineer in accordance with the gas safety (Installation and Use) Regulations 1998, or equivalent country standard and any other standard that may be applicable in the country of use.

It is recommended that a registered engineer services the appliance annually in accordance with the service instructions in the Installation and Maintenance Manual.

WHAT TO DO IF YOUR APPLIANCE IS FAULTY OR YOU REQUIRE SPARES:

(DO NOT TAMPER WITH THE APPLIANCE)

1. Check the fault chart included with the user instructions to identify the problem.
2. Follow guide lines on fault chart before contacting service.
3. If service is required:-Complete the Warranty Form and contact the reseller of the product or the home for assistance.
4. If you are unable to contact the reseller please contact Widney's service centre as detailed on the Warranty Form or from the details given on the web site: www.widney-leisure.co.uk – note you can also download a warranty claim form from this site if you do not have one with your appliance.

WHAT IS INCLUDED IN THE WARRANTY:

All Widney products are guaranteed against normal operation providing they have been installed and maintained in accordance with the instructions. Widney reserve the right to refuse or charge for any work if the above terms are not complied with.

UK MAINLAND ONLY

- 24 months parts and labour
- Free replacement of product if appliance cannot be fixed by an engineer

REST OF UK and EUROPE

- 24 months parts only

WHAT IS NOT INCLUDED IN THE WARRANTY:

- Replacement of product or part due to defective installation
- Charges for call out for appliances that malfunctions due to gas or water pressure delivery to the appliance.

Service Promise UK Mainland Only

Widney's service line operates five days a week with engineers working five days a week excluding bank holidays, excluding Christmas Day, Boxing Day and New Year's Day).

Call out Guarantee UK Mainland Only

In the event of a breakdown we will endeavor to attend within 48 hours of the service call providing the service call is within the working week.

Contacting Widney Service

Widney's trained operators are available:

8.00 am to 4.30 pm Monday to Thursday

8.00 am to 12.00pm Friday

The Contact Service Telephone number is indicated on the Warranty Claim Form or email: sales@widney-leisure.co.uk.

General Warranty Terms

If your Gas or Electric heating appliance is less than 2 years old, it will be covered by our 2 year warranty (providing it has been serviced after the first twelve months). Please refer to the warranty information in the document.

During the warranty period, the defective product will be either repaired or replaced at the discretion of Widney except in the cases listed in the **Limitation of Liability Clause** of this document.

This limited Warranty covers the costs of service parts and labour required to restore your product to fully functional condition. Widney will, at its discretion, repair or replace any defective products or parts thereof covered by this International Limited warranty with new or refurbished parts of the product that are equivalent to new products in both functionality and performance. A product or part that is repaired or replaced under this International Limited warranty shall be covered for the remainder of the original warranty period applying to the product or part, or for six months, whichever expires last. All exchanged parts and products under this International Limited Warranty will become the property of Widney.

Widney offers a limited warranty to all products. Any product first sold to end user is guaranteed to be free from defects in both components and workmanship under regular uses defined in user manuals during the warranty period. The warranty period commences on the date of purchase of the Appliance or the date of commissioning of the home.

Attention: *Your original Purchase invoice (sales receipt) and warranty card showing the date of purchase, model number and serial number of the product is your proof of the date of purchase, or proof of purchase of the home.*

This limited Warranty is applicable and shall be honoured in every country where Widney or its Authorized Service Providers offer warranty service subject to the terms and conditions provided in this limited Warranty Statement.

Obtaining the Warranty Service

Warranty service is performed by Widney's authorized service personnel located within a country where Widney or its authorized Service Providers offer the warranty service subject to the terms and conditions provided in this Limited Warranty.

Warranty service authorization under this limited Warranty will be honoured only if claims are made within the warranty period. Contact details of the nearest service centre may be obtained on Widney's website www.widney-leisure.co.uk.

You are requested to perform the following actions before claiming WIDNEY product as defective:

- Refer to user manual enclosed within the product package for important tips on how to operate and troubleshoot the product.
- Complete the warranty claim form.

International Warranty: Warranty may be valid when WIDNEY brand name product is purchased in one country and transferred to another country, where an authorized WIDNEY service centre is located, without voiding the warranty. Please be advised that service availability and response time may vary from country to country.

WIDNEY is not responsible for any export and import control issues, handling fees, tariffs, import duties, and all other related fees that may be incurred during transferring.

Limitation of Liability

Widney reserves the rights to refuse warranty service of products under disputable conditions. Widney also holds the rights to declare final decision whether products are within warranty conditions. The following actions and damages will result in voiding the limited warranty:

- Damage caused by act of nature, such as fire, flood, wind, earthquake, lightning, etc.
- Damage or incompatibility caused by failure to perform a proper installation or to provide an appropriate operational environment for the product.
- Damage caused by impact with other objects, dropping, falls, spilled liquids, or submersion in liquids.
- Damage caused by unauthorized repair or disassembling of the product.
- Damage caused by any other abuse, misuse, mishandling, or misapplication.
- The serial number of the product (or serial number stickers of its parts) has been modified, removed, blurred or damaged.
- Cracks and scratches on LCD and plastic material as well as other defects caused by transportation, handling or customer abuse.

Disclaimer of Warranty

THIS WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON WIDNEY'S PART, AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PARTY TO ASSUME FOR WIDNEY ANY OTHER LIABILITIES. THE FOREGOING CONSTITUTES THE BUYER'S SOLE AND EXCLUSIVE REMEDY FOR THE FURNISHING OF DEFECTIVE OR NONCONFORMING PRODUCTS AND WIDNEY WILL NOT IN ANY EVENT BE LIABLE FOR COST OF SUBSTITUTE OR REPLACEMENT, COST OF FACILITIES OR SERVICE, DOWNTIME COSTS, LOSS OF PROFITS, REVENUES OR GOODWILL, RELIANCE DAMAGES, LOSS OF DATA, LOSS OF USE IF OR DAMAGE TO ANY ASSOCIATED EQUIPMENT, OR ANY OTHER INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES BY REASON OF THE FACT THAT SUCH PRODUCTS WILL HAVE BEEN DETERMINED TO BE DEFECTIVE OR NONCONFORMING.

This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state or country laws for full determination of your rights.

WIDNEY products are not designed for any "critical applications." "Critical applications" shall mean life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or property damage.

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