

Energy Company Obligation (ECO4) Pre-Installation Heating Checklist

Introduction

The purpose of this form is to provide assurance that heating measures installed meet ECO4 requirements. It assesses a home's pre-main heat source and status with regard to insulation pre-conditions. It provides partial guidance on the heating measures that may be eligible in different circumstances but must be read in conjunction with the ECO4 Delivery Guidance.

Suppliers should ensure operatives complete this checklist and retain the completed checklist on their systems for all heating measures in ECO4. This checklist should also be used when assessing a non-boiler central heating system and/or installing a new one (such as air to air heat pumps). This checklist also covers projects where a district heating connection (DHC) is to be installed or repaired. Suppliers must be able to provide a copy of a completed checklist to us on request.

This checklist does not provide any detailed information on the requirements of ECO. Further information can be found in our guidance document, Energy Company Obligation (ECO4) Guidance: Delivery, available on our website¹

Accuracy of the checklist

It is important to note that your decision to repair or replace a heat source on the basis that you consider it to be inefficient or broken down and unable to be economically repaired, does not necessarily mean that we will the same conclusion, particularly if we consider that an assessment has been incorrectly carried out. For this reason, suppliers should ensure that the checklist is completed accurately by the relevant operative(s).

When filling in the Pre-Installation Heating Checklist assessment details should not be copied from other Pre-Installation Heating Checklist, i.e. photocopying or copying and pasting should not be used to complete any part of this form.

If the information on this checklist is found to be false, Ofgem will investigate the case and may reject the associated measures.

¹ [Energy Company Obligation \(ECO\) | Ofgem](#)

Operative competency

Measures referenced in PAS 2030:2019 or MCS must be installed by, or under the responsibility of, a person who is registered with TrustMark for the purposes of that measure. These requirements are evidenced to Ofgem by a Certificate of Lodgement (CoL) awarded by TrustMark for measures.

Data Light Measures (DLMs) and Innovation Measures (IMs) which are not referenced in PAS 2030:2019 and do not fall under MCS, must be certified by a person accredited to ISO / IEC 17065:2012.

For DHC measures, except for DHCs which are the installation in the home of a GSHP connected to a shared ground loop, suitable qualifications for installers may be a Level 2 or 3 NVQ in gas, plumbing or mechanical engineering. We recommend CIBSE Heat Networks: Code of practice for the UK is followed during all phases of the DHC project where relevant. DHCs which are the installation of a shared ground loop GSHP should be installed by, or under the responsibility of, a person who is registered with TrustMark for the purposes of that measure.

For boilers not referred to in PAS, and for all boiler repairs, the assessment and repair/replacement must be carried out by operatives who meet industry competency standards for that particular fuel type.

A pre-assessment may be carried out by an assessor who may also fill out sections of the checklist. However, this assessment must be checked and its accuracy confirmed by the operative prior to carrying out the heating measure.

Format of the checklist

Suppliers may adapt the format of the checklist to match their own systems, as long as the content is not changed. Suppliers should submit adapted checklists to us before use for confirmation that the content is acceptable

Completing the checklist

Guidance	
Section A	Operative and assessment details. This section captures the details of the operative carrying out the heating measure, core details of the premises, and the details of the assessor carrying out the pre-assessment of the heating source (if different to the operative). It may be completed by the operative or assessor. All questions are mandatory and must be filled for all heating measures.
Section B	Central heating systems (incl district heating connections). The section must be completed if the home contains a pre-existing central heating system. The section may be completed by the operative or assessor who has inspected the heating system on-site.
Section C	Electric storage heaters. This section must be completed if the home contains pre-existing electric storage heaters. The section may be completed by the operative or assessor who has inspected the heating system on-site.
Section D	Room heaters or no fixed heating. This section must be completed if the home contains pre-existing room heaters or has no fixed heating. The section may be completed by the operative or assessor who has inspected the heating system on-site.
Section E	District heating connections and repairs. This section is to be completed by the operative who has inspected the heating system on-site.
Section F	Insulation pre-conditions and off-gas hierarchy. This section collects information to show how insulation pre-conditions are met and, for off-gas premises, how the heating hierarchy has been applied. The section is mandatory and must be completed for all heating sources assessed. The section contains a declaration which must be signed by the Retrofit Coordinator. ²
Section G	Customer and operative Declarations. These must be signed by the occupier or owner of the premises, and the operative who carried out the measure. In signing, the operative confirms that the information provided in sections A, B, C, D, E, G and H is correct.
Section H	Repair/replacement tables. May be completed by a person who has not inspected the heating source, but the operative who has completed the assessment must sign this form to confirm that Section G has been completed accurately. If agreed with the supplier, the quote may be provided in a different format. Please attached all relevant documentation to this form. This section may be completed by a different operative at survey or post-installation stage.
Section I	Repair cost threshold table and average repair table. This section is designed to identify when a boiler or electric storage heater cannot be economically repaired. The tables show information such as maximum repair cost for boilers and electric storage heaters.

² If non-PAS measure the relevant DHC operative must complete this section.

A. Operative And Assessment Details

A.	Operative and assessment details	
1	Property Address: (Building number/name, Street name, Town, City, County and postcode)	
2	Company name of operative carrying out installation	
3	Operative name (as on the accreditation record)	
4	Operative's accreditation	<input type="checkbox"/> ECS card <input type="checkbox"/> Gas safe <input type="checkbox"/> MCS Certified <input type="checkbox"/> Other _____ Accreditation number: _____
5	Did premises have a gas meter on 1 April 2022?	<input type="checkbox"/> Yes: premises is on-gas <input type="checkbox"/> No: heating measures are subject to the off-gas hierarchy (complete E2)
6	Is the assessment of repair/replacement completed by the same operative?	<input type="checkbox"/> Yes <input type="checkbox"/> No (Enter details below)
7	Name, accreditation and signature (Complete this section only if assessment and the subsequent heating measure installation or repair isn't carried out by the same operative)	Assessor/Operative Full name:
		Assessor/Operative Accreditation and number:
		Assessor/Operative signature:
8	Date:	<div style="text-align: center;"> _ _ / _ _ / _ _ _ </div>

B. Central Heating Systems³

B Initial Details of assessment	
A boiler must meet certain criteria to determine whether it is broken down and can be replaced, repaired or upgraded. The first step is to assess whether a boiler is 'non-condensing' or 'broken down'. Please complete below.	
1	Brand and model
2	Model qualifier
3	Fuel type
4	Is the boiler non-condensing, or does it have an efficiency no better than a non-condensing boiler? <input type="checkbox"/> Yes (can be replaced as an upgrade – complete B4a, then the remaining questions in B are not required.) <input type="checkbox"/> No
4a	List the steps to reach the conclusion the boiler is non-condensing or has an efficiency no better than a non-condensing boiler.
5	Is the boiler broken down? ⁴ <input type="checkbox"/> Yes <input type="checkbox"/> No (can only be replaced by DHC or upgraded to renewables. Remaining questions in section B are not required.)
6	Age of boiler / Year of original commissioning (if available) ⁵
7	How did you establish the original age of boiler / year of commissioning? (Tick relevant boxes and provide pictorial evidence) ⁶ <input type="checkbox"/> Boiler name plate <input type="checkbox"/> Installation Certificate <input type="checkbox"/> Warranty documentation <input type="checkbox"/> Other _____
8	Serial number of boiler

³ For renewable heating system repairs and replacements, operatives can use the below form to help determine whether or not the system is economically repairable. The funder must be satisfied that enough evidence has been presented to support the determination being made

⁴ A boiler is considered broken down if, when connected to electrical and fuel supplies, it does not respond appropriately to any demand for heat as required by the central heating system or domestic boiler system.

⁵ When assessing the boiler age, the estimate d age should be rounded down e.g. a boiler that is 4.7 years old should be assessed as a 4-year-old boiler.

⁶ The boiler age can be determined by assessing the following information: the boiler name plate, the installation certificates and warranty documentation. Customers' declaration about boiler age are not acceptable/valid.

B	Initial Details of assessment	
9	Are all parts required for the repair available? (eg if parts are available at a reasonable cost and within a reasonable timeframe or if the repair does not require any parts tick 'Yes)	<input type="checkbox"/> Yes <input type="checkbox"/> No, please enter reasons <hr/> <hr/>
10	Is the actual cost of repair more than the actual cost of a replacement boiler? Complete cost table in section H to determine.	<input type="checkbox"/> Yes – boiler may be replaced. <input type="checkbox"/> No Cost of repair: (Exc. VAT) £ _____ Cost of replacement: (Exc. VAT) £ _____
11	Is the actual cost of repair less than the maximum cost of repair as identified in the 'Economic Repair Cost Comparison Tables'? ⁷	<input type="checkbox"/> Yes The boiler should be repaired. Please use Section G to provide details of repair undertaken. <input type="checkbox"/> No The boiler should be replaced

⁷ See Boiler repair cost comparison table in section I.

12. Broken boiler only:

Once you have identified whether the boiler is 'broken down', you must identify all the possible faults that have caused the boiler to be broken down.

Boiler Fault List

Select the appropriate fault(s) that resulted in the boiler being broken down or not functioning efficiently and **complete all sections of this question**. (Note: this list is not exhaustive. Record any other faults not included in this list under 'Other').

Corrosion or fouling of the boiler heat exchanger	<input type="checkbox"/>
No boiler ignition	<input type="checkbox"/>
Unstable firing	<input type="checkbox"/>
Any other mechanical or electrical fault	<input type="checkbox"/>
Results of the flue gas analyser combustion outside boiler manufacturer tolerance	<input type="checkbox"/>
Boiler and system sludge (Sludge alone may not be sufficient grounds to be considered broken in the ECO4 scheme)	<input type="checkbox"/>
Poor flue condition	<input type="checkbox"/>
Primary flow rate unsatisfactory or outside boiler manufacturer tolerance	<input type="checkbox"/>
Primary flow temperature unsatisfactory or outside boiler manufacturer tolerance	<input type="checkbox"/>
For combination boilers only: Unsatisfactory hot water flow rate or temperature which are outside of the manufacturer's specification/tolerance	<input type="checkbox"/>
Boiler external corrosion	<input type="checkbox"/>
Boiler installation is Immediately Dangerous (ID) or At Risk (AR) (Gas Safe definition)	<input type="checkbox"/>

Other: (Provide a detailed description)

Please write how you identified the failure and any associated symptoms. This may include any tests or checks carried out on the boiler to identify the symptoms. (This information will be used during audit to determine whether the boiler was correctly assessed. Therefore, provide as much information as possible.)

C. Electric Storage Heaters

C. Details of assessment (Use form as many times as necessary for the number of ESH in the property)				
1	Total number of ESH/s in the premises	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Other _____		
2	Enter the relevant number of ESH been assessed eg ESH _1_	ESH __		ESH __
3	Brand and Model			
4	ESH serial number (or any other unique identification detail of the ESH)			
5	ESH Responsiveness			
If any ESH has a responsiveness of 0.2 or less, that ESH is inefficient and can only be upgraded ⁸ or, if home meets FTCH criteria, replaced with FTCH. Remaining questions in section C can be skipped for an inefficient ESH.				
6	Is the ESH broken down?	<input type="checkbox"/> Yes <input type="checkbox"/> No – can only be upgraded by renewables or DHC. Remaining questions in section C can be skipped.	<input type="checkbox"/> Yes <input type="checkbox"/> No - can only be upgraded by renewables or DHC. Remaining questions in section C can be skipped.	
Once you have identified if the ESH is 'broken down', you must identify all the faults that have caused the ESH to be broken down.				
7	ESH Fault List - tick if fault is applicable (Note: this list is not exhaustive, please detail any additional faults in 'Other')	ESH —	ESH —	Provide details of how you identified the faults (This information will be used during audit to determine whether the ESH has been correctly assessed. Therefore, please provide as much information as possible.)
	Example: Tick if fault applicable	✓		Write a detailed explanation

⁸ Subject to off-gas hierarchy in relevant homes (chapter 5 of the ECO4 Delivery Guidance)

C.	Details of assessment (Use form as many times as necessary for the number of ESH in the property)			
	ESH Fault List - tick if fault is applicable (Note: this list is not exhaustive, please detail any additional faults in 'Other')			
	Damaged thermal fuse or input cut out			
	Failure of storage element(s)			
	Faulty charge control			
	Faulty output control			

C.	Details of assessment (Use form as many times as necessary for the number of ESH in the property)			
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	Faulty electronic controller			
	Faulty or broken fan			
	Other (Please provide detailed description)			

Complete to determine whether the broken down ESH can be economically repaired			
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		ESH _____	ESH _____
8	Age of ESH in years?		
9	State how you have established the age of the ESH?		

C. Details of assessment (Use form as many times as necessary for the number of ESH in the property)			
10	Does the ESH contain asbestos? (A broken down ESH with asbestos 'cannot be economically repaired')	<input type="checkbox"/> Yes (If yes ESH can't be economically repaired) <input type="checkbox"/> No	<input type="checkbox"/> Yes (If yes ESH can't be economically repaired) <input type="checkbox"/> No
11	Are all parts required for the repair available? (if parts are available at a reasonable cost and within a reasonable timeframe ⁹ or the repair does not require any parts tick Yes)	<input type="checkbox"/> Yes <input type="checkbox"/> No – ESH can be replaced. Enter details of unavailable parts: _____ _____	<input type="checkbox"/> Yes <input type="checkbox"/> No – ESH can be replaced. Enter details of unavailable parts: _____ _____
12	Is the actual cost of repair more than the actual cost of a replacement ESH? Fill in cost tables in section H.	Cost of repair: (Exc. VAT) £ _____ Cost of replacement: (Exc. VAT) £ _____ <input type="checkbox"/> Yes - ESH can be replaced by HHR ESH, a DHC, upgraded to renewables or, where the home meets the FTCH criteria, FTCH. <input type="checkbox"/> No	Cost of repair: (Exc. VAT) £ _____ Cost of replacement: (Exc. VAT) £ _____ <input type="checkbox"/> Yes - ESH can be replaced by HHR ESH, a DHC, upgraded to renewables or, where the home meets the FTCH criteria, FTCH. <input type="checkbox"/> No
13	Is the actual cost of repair less than the maximum cost of repair as identified in the 'Economic Repair Cost Comparison Table' ¹⁰	Maximum cost of repair as identified in the 'Economic Repair Cost Comparison Table': (Exc. VAT) £ _____ <input type="checkbox"/> Yes – ESH can be repaired, replaced by DHC or upgraded to renewables. <input type="checkbox"/> No – ESH can be replaced by HHR ESH, a DHC, upgraded to renewables or, where the home meets the FTCH criteria, FTCH.	Maximum cost of repair as identified in the 'Economic Repair Cost Comparison Table': (Exc. VAT) £ _____ <input type="checkbox"/> Yes – ESH can be repaired, replaced by DHC or upgraded to renewables. <input type="checkbox"/> No – ESH can be replaced by HHR ESH, a DHC, upgraded to renewables or, where the home meets the FTCH criteria, FTCH.

⁹ A screenshot should be retained to confirm parts were not available within a reasonable timeframe.

¹⁰ See Electric Storage repair cost comparison table in section I.

D. Room Heaters and No Heating

D. Existing heating source details															
1	<table border="1"><tr><td>Existing pre main heating source</td><td><input type="checkbox"/> Bottled LPG Room Heaters</td></tr><tr><td></td><td><input type="checkbox"/> Solid Fossil Room Heaters</td></tr><tr><td></td><td><input type="checkbox"/> Gas Fire with Back Boiler¹¹</td></tr><tr><td></td><td><input type="checkbox"/> Gas Room Heaters</td></tr><tr><td></td><td><input type="checkbox"/> Electric Room Heaters including direct acting room heaters</td></tr><tr><td></td><td><input type="checkbox"/> No heating present</td></tr><tr><td></td><td><input type="checkbox"/> Other _____</td></tr></table>	Existing pre main heating source	<input type="checkbox"/> Bottled LPG Room Heaters		<input type="checkbox"/> Solid Fossil Room Heaters		<input type="checkbox"/> Gas Fire with Back Boiler ¹¹		<input type="checkbox"/> Gas Room Heaters		<input type="checkbox"/> Electric Room Heaters including direct acting room heaters		<input type="checkbox"/> No heating present		<input type="checkbox"/> Other _____
Existing pre main heating source	<input type="checkbox"/> Bottled LPG Room Heaters														
	<input type="checkbox"/> Solid Fossil Room Heaters														
	<input type="checkbox"/> Gas Fire with Back Boiler ¹¹														
	<input type="checkbox"/> Gas Room Heaters														
	<input type="checkbox"/> Electric Room Heaters including direct acting room heaters														
	<input type="checkbox"/> No heating present														
	<input type="checkbox"/> Other _____														
<p>A First Time Central Heating measure may be installed if a property</p> <ul style="list-style-type: none">• does not have, and has not previously had, a wet central heating system, and• at no point since 1 April 2022 contained an efficient ESH (SAP responsiveness rating of more than 0.2) that is not broken down or if it is broken down can be economically repaired															

¹¹ Where the premises contains a back boiler, FTCH may only be installed if the back boiler does not supply a central heating system.

E. District Heating Connection (DHC) Measures

E. Existing heating source details where existing heat source is a DHS		
1	If the pre-main heat source is a DHS, is the existing DHC connected to:	<input type="checkbox"/> An efficient DHS ¹² (Please detail) <input type="checkbox"/> An inefficient DHS ¹³ (Please detail) <input type="checkbox"/> N/A
2	If the pre-main heat source is a DHS, is the DHC:	<input type="checkbox"/> Broken, and economically repairable (Please detail) <input type="checkbox"/> Broken, and not economically repairable (Please detail) <input type="checkbox"/> Working <input type="checkbox"/> N/A

E. Details for DHC repairs (only complete for repairs)		
A DHC must meet certain criteria to determine whether it is broken down and can be repaired.		
1	Has the off-gas heating hierarchy been followed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3	To evidence that the DHC is broken, identify all faults. Please write how you identified the failure and any associated symptoms. This may include any tests or checks carried out to identify the symptoms. (This information will be used during audit to determine whether the DHC was correctly assessed. Therefore, provide as much information as possible.)	

¹² If yes, and economically repairable, a new DHC would not be eligible under ECO4.

¹³ If yes, and if the premises is on-gas, then a DHC repair would not be eligible.

F. Insulation Pre-Conditions and Off-Gas Hierarchy

1 Insulation Pre-conditions

Under ECO4, all heating measures and solar PV are subject to insulation pre-conditions.

Band E, F and G homes, and band D homes receiving DHC or FTCH: pre-conditions are met if either:

- for any single relevant construction element, b) applies, or
- for all relevant construction elements, a), c) or d) applies

Band D homes except those receiving DHC or FTCH: pre-conditions are met if, for all relevant construction elements, a), b), c), or d) applies.

Construction elements for homes other than mobile homes		SAP bands relevant to:
Exterior Cavity Wall: <ul style="list-style-type: none"> <input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present 		All
Room In Roof: <ul style="list-style-type: none"> <input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present 		All
Flat Roof: <ul style="list-style-type: none"> <input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present 		All
Pitched Roof: <ul style="list-style-type: none"> <input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present 		All

Loft:	<input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present	Band G, F and E. Band D if installing DHC or FTCH
External Solid Wall:	<input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present	Band D except DHC and FTCH
Heat Loss Floor:	<input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present	Band D except DHC and FTCH
Party Cavity Wall:	<input type="checkbox"/> a) Insulated to current building regulation standards before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions <input type="checkbox"/> d) Construction element not present	Band D except DHC and FTCH
Construction elements for mobile homes		SAP bands relevant to:
Mobile home: wall, roof and floor	<input type="checkbox"/> a) Insulation equivalent to BS 3632:2015 before project started <input type="checkbox"/> b) Installed as part of project <input type="checkbox"/> c) Could not be installed due to exemptions	All

2 Off-Gas Heating Hierarchy ¹⁴ (This section must be filled in for homes which did not have a gas meter on 1 April 2022 – question A.9)	
Are any heating measures in the off-gas heating hierarchy above the heating measure being installed not possible to install or does an exemption apply?	<input type="checkbox"/> Yes (Tick relevant boxes below) <input type="checkbox"/> No, the measure being installed is from the first level of the off-gas hierarchy
<input type="checkbox"/> Not reasonably practicable (shown to be not technically feasible and may result in increase of costs)	
<input type="checkbox"/> Exemption applies	Please explain reason for exemption. <hr/> <hr/>
<input type="checkbox"/> In relation to the installation of equipment for the generation of heat wholly or partly from biomass, the premises are not in a rural area	
<input type="checkbox"/> One or more improvement options evaluation reports in relation to the premises are held on the TrustMark Data Warehouse, and the measure is not amongst the measures recommended in the most recent improvement options evaluation report	
<input type="checkbox"/> No improvement options evaluation report in relation to the premises is held on the TrustMark Data Warehouse; one or more EPC recommendation reports have been issued for the premises; and the measure is not amongst the measures recommended in the most recent EPC recommendation report	
3 Pre-Insulation and Off-Gas Hierarchy Declaration	
I hereby declare that to the best of my knowledge and belief that the information provided above is true and accurate.	<input type="checkbox"/> Yes
Retrofit Coordinator or DHC Operative signature and date:	

¹⁴ Please see chapter 5 of the ECO4 Delivery Guidance for information on the off-gas heating hierarchy.
<https://www.ofgem.gov.uk/publications/draft-energy-company-obligation-eco4-guidance-delivery-v01>

G. Customer and Operative Declarations

Customer Declaration¹⁵ (To be filled by the occupier or owner)

Where the heating measure installed is a FTCH measure: I, the occupier or owner of the premises, declare that to the best of my knowledge that at no point prior to the installation of the first-time central heating measure did the premises have a wet central heating system and, at no point since 1 April 2022, did the premises have a working, or broken but economically repairable, efficient electric storage heater(s).

Yes

No

Occupier full name

Occupier signature
and date:

Date:

__ / __ / ____

Operative Declaration (To be filled by the operative)

Where the heating measure installed is a FTCH measure: I confirm that there are no signs or documentation that the property has had a wet central heating system at any point prior to the installation of the FTCH measure, nor that, in the period from 1 April 2022 until completion of the installation, the premises had a working, or broken but economically repairable, efficient electric storage heater(s).

Yes

No

Where a boiler was installed, I confirm that it is connected to a functioning domestic central heating (and where applicable, hot water) system.

Yes

I confirm that the information contained in sections A, B, C, D, E, G and H of this form is true and accurate. I acknowledge and understand that it is a criminal offence to knowingly make a false declaration and that the offence is punishable by a fine, imprisonment or both.

Operative full name

Operative signature

Date:

__ / __ / ____

¹⁵ For private rented or social housing, either the occupier or the landlord may sign the form.

H. Repair/Replacement Tables

Repair Quote	
Item	Cost
Warranty cost	
Labour estimated for _____ hours at £_____ per hour	
Total excluding VAT	
VAT 20%	
Total	

Replacement Quote

Item	Cost
Warranty cost	
Labour estimated for _____ hours at £_____ per hour	
Total excluding VAT	
VAT 20%	
Total	

I. Repair Cost Threshold Table and Average Repair Table

Repair Cost Tables¹⁶

These tables provide guidance in determining when a mains gas or oil boiler cannot be economically repaired. Tables 1.1-3.2 show what the maximum repair costs are for boilers and ESH – the tables show the maximum repair costs for boilers and ESHs different types and ages. If the actual cost of repair is higher than the relevant maximum cost, it is considered more economical to replace rather than repair the heating system and as such it is judged that it cannot be economically repaired.

The maximum costs are derived from the type of heating, the estimated average installation cost of replacing the heating system, and its age. These costs have been developed in tandem with industry.

Table 4 shows representative repair costs for important boiler components to help installers come to an estimate of how much a given repair should cost – installers should keep in mind contingent factors in costs such as regional variations. These are intended as a guide to help installers come to a conclusion of how much they should be charging for a repair of common boiler parts.

There are examples of how to use these tables in this document. For broken LPG boilers, operatives should use the relevant mains gas table. For broken DHCs and renewable heating systems, operatives should use the oil combination boiler table. Note that the below tables take into consideration both the costs of the parts themselves and labour. Whilst we are unable to provide separate estimates of labour costs, most boiler repairs for relatively simple issues take 1-2 hours.

¹⁶ Note that all costs shown are exclusive of VAT.

i. Boiler Tables

Table 1.1 Maximum repair cost for mains gas combination boiler

Age of boiler	Cost
1	£3,492
2	£3,201.60
3	£2,910
4	£2,619.60
5	£2,328
6	£2,037.60
7	£1,746
8	£1,455.60
9	£1,164
10	£873.60
11	£582
12	£291.60
13+	£ nil

Table 1.2 Maximum repair cost for mains gas regular boiler

Age of boiler	Cost
1	£1,992
2	£1,826.40
3	£1,660
4	£1,494
5	£1,328
6	£1,161.60
7	£996
8	£830.40
9	£664
10	£498
11	£332
12	£165.60
13+	£ nil

Table 2.1 Maximum repair cost for oil combination boiler

Age of boiler	Cost
1	£5,304
2	£4,862.40
3	£4,421
4	£3,979.20
5	£3,538
6	£3,096
7	£2,654
8	£2,212.80
9	£1,771
10	£1,329.60
11	£888
12	£446.40
13+	£ nil

Table 2.2 Maximum repair cost for oil regular boiler

Age of boiler	Cost
1	£2,304
2	£2,112
3	£1,920
4	£1,728
5	£1,536
6	£1,344
7	£1,152
8	£960
9	£768
10	£576
11	£384
12	£192
13+	£ nil

Example of how to use these tables:

Boiler type: Mains gas,
Regular
Age: 4 years

If boiler repair work costs over £1,494, this boiler can be replaced. If the boiler repair work costs less than £1,494, boiler repair should be carried out.

Age of boiler	
1	£1,992
2	£1,826.40
3	£1,660
4	£1,494
5	£1,328
6	£1,161.60
7	£996
8	£830.40
9	£664
10	£498
11	£332
12	£165.60
13+	£ nil

Average repair cost of boiler components			
Boiler part	Average cost	Boiler part	Average cost
Air pressure switch	£160	Diverter valve	£240
Ignition	£140	Heat exchanger	£330
Timer	£70	Pump	£200
Thermocouple	£80	Pressure relief valve	£95
Overheat thermostat	£95	Gas valve	£210
Burner	£100	Printed circuit board	£240
Automatic air vent	£90	Fan	£235
Flue	£125	Expansion vessel	£230

ii. Electric Storage Heater Tables

Table 3.1 Maximum repair cost for Integrated storage + direct acting heater

Age of boiler	Cost
1-4	£552
5	£506.40
6	£460
7	£414
8	£368
9	£321.60
10	£276
11	£230.40
12	£184
13+	£138

Table 3.2 Maximum repair cost for fan storage/high heat retention storage heater

Age of boiler	Cost
1-4	£858
5	£787.20
6	£715
7	£643.20
8	£572
9	£500.40
10	£430
11	£357.60
12	£286
13	£214.80

Example of how to use this table:

ESH type: Fan storage heater
Age: 6 years

If ESH repair work costs over £715, this ESH can be replaced. If the ESH repair work costs less than £715, ESH repair should be carried out.

Go through this process for each ESH being assessed in a given property.

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