

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 (ECO4) Guidance: Delivery | 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.

Any evidence of electronically duplicated or forged signatures will be investigated. Any measures where suspected fraudulent activity is detected will be rejected.

Ofgem also recommends that any additional evidence collected as part of these forms be handled as the final step in the process to adhere to Data Protection Act 2018 requirements.



Completing the checklist

	Guidance
Section A	Operative and assessment details. This section captures the details of the operative
	carrying out the pre-heating assessment, 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. Questions A8,A9 and A11 must
	be completed by the operative who carried out the post heating system installation.
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	Air source and ground source heat pump. This section must be completed if the
	home contains pre-existing heat pump. The section may be completed by the operative
	or assessor who has inspected the heating system on-site.
Section F	District heating connections and repairs. This section is to be completed by the
	operative who has inspected the heating system on-site.
Section G	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 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, electric storage heater or air source heat pump cannot be
	economically repaired. The tables show information such as maximum repair cost for
	boilers and electric storage heaters.

 $^{^{\}rm 2}$ If non-PAS measure the relevant DHC operative must complete this section.



A. Operative And Assessment Details

A.	Operative and assessment de	tails
1	Full 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	☐ ECS card ☐ Gas safe ☐ MCS Certified ☐ Other Accreditation number:
6	Did premises have a gas meter on 1 April 2022?	☐ Yes: premises is on-gas ☐ No: heating measures are subject to the off-gas hierarchy (complete G2)
7	Is the assessment of repair/replacement completed by the same operative?	☐ Yes ☐ No (Go to 7a and enter details)
a	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:



A.	Operative and assessment deta	ils		
8	I confirm that the information contained in sections A, B, C, D, E, F and			
	H of this form is true and accura	ate. I acknowledge and understand that it		
	is a criminal offence to knowing	ly make a false declaration and that the	☐ Yes	
	offence is punishable by a fine,	imprisonment or both.		
9	For First Time Central Heating I	confirm that there is no evidence that at		
	any point prior to the installatio	n of the boiler the premises had a central		
	heating system, district heating system, or renewable system nor,			
	immediately prior to the installation, did the premises have a working,			
	efficient electric storage heater((s).		
10	Date of assessment:	//		
11	Operative signature:			



B. Central Heating Systems³

В	Initial Details of assessmen	t
A bo	iler must meet certain criteria to de	termine whether it is broken down and can be replaced,
repa	ired, or upgraded. The first step is t	to assess whether a boiler is 'non-condensing' or 'broken down'.
Pleas	se 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?	☐ Yes (can be replaced as an upgrade – complete B4a and B4b, then the remaining questions in section B are not required.)☐ 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.	
4b	SAP winter seasonal efficiency (%)?	
5	Is the boiler broken down? ⁴	Yes 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	

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. Its required only for boiler replacements and repairs.



В	Initial Details of assessment			
7	How did you establish the	Boiler name plate		
	original age of boiler / year of	☐ Installation Certificate		
	commissioning? (Tick	☐ Warranty documentation		
	relevant boxes and provide	PCDB final year of manufacture		
	pictorial evidence) ⁶			
		Other		
8	Serial number of boiler			
9	Are all parts required for the			
	repair available? (eg if parts	Yes		
	are available at a reasonable	No, please enter reasons		
	cost and within a reasonable			
	timeframe or if the repair			
	does not require any parts			
	tick 'Yes)			
10	Is the actual cost of repair	Yes – boiler may be replaced.		
	more than the actual cost of			
	a replacement boiler?	Cost of repair: (Exc. VAT) £		
	Complete cost table in			
	section H to determine.	Cost of replacement: (Exc. VAT) £		
11	Is the actual cost of repair	Yes The boiler should be repaired. Please use Section		
	less than the maximum cost	H to provide details of repair undertaken.		
	of repair as identified in the	The provide details of repair direct talkers		
	'Economic Repair Cost	│ No The boiler should be replaced		
	Comparison Tables'? ⁷	The Thie Ballet allouid be replaced		
12	Is it a combination boiler?	☐ Yes ☐ No		
13	Are there any other boilers in			
	the property? (Please provide			
	details including location,			
	make, model &serial			
	numbers etc)			

⁶ The boiler age can be determined by assessing the following information: the boiler name plate, the installation certificates and warranty documentation and PCDB Final year of manufacture. Customers' declaration about boiler age are not acceptable/valid. Its required only for boiler replacements and repairs.

 $^{^{7}}$ See Boiler repair cost comparison table in section I.



14. 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 function efficiently and complete all sections of this question . (Note: this list is not exhaust Record any other faults not included in this list under 'Other').	_
Corrosion or fouling of the boiler heat exchanger	
No boiler ignition	
Unstable firing	
Any other mechanical or electrical fault	
Results of the flue gas analyzer combustion outside boiler manufacturer tolerance	
Boiler and system sludge (Sludge alone may not be sufficient grounds to be considered broken in the ECO4 scheme)	
Poor flue condition	
Primary flow rate unsatisfactory or outside boiler manufacturer tolerance	
Primary flow temperature unsatisfactory or outside boiler manufacturer tolerance	
For combination boilers only: Unsatisfactory hot water flow rate or temperature which are outside of the manufacturer's specification/tolerance	
Boiler external corrosion	
Boiler installation is Immediately Dangerous (ID) or At Risk (AR) (Gas Safe definition)	
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.	illay
(This information will be used during audit to determine whether the boiler wa	ıs
correctly assessed. Therefore, provide as much information as possible.)	



C. Electric Storage Heaters

C.	Dotails of assessment	(Uso for	m ac m	any timos as r	necessary for the number of
C.	ESH in the property)	(USE IUI	III as III	any times as i	lecessary for the number of
1	Total number of ESH/s in the premises	□ 1	2	3	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				
	upgraded ⁸ or, if home meet	s FTCH o	riteria, r		inefficient and can only be CH. Remaining questions in nt ESH.
6	Is the ESH broken down?	☐ Yes☐ No by re	can only enewable aining qu	y be upgraded s or DHC. uestions in be skipped.	Yes 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 —	faults (This inf audit to deterr been correctly	of how you identified the formation will be used during mine whether the ESH has assessed. Therefore, please ch information as possible.)

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



C.	Details of assessment (ESH in the property)	(Use for	m as m	any times as necessary for the number of
	Example: Tick if fault	✓		Write a detailed explanation
	applicable			
	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)			
	element(3)			
	Faulty charge control			
	Faulty output control			



C.	Details of assessment ((Use for	m as ma	any times	as nec	essary	for the	number	of
	ESH in the property)								
	Faulty electronic								
	controller								
	Faulty or broken fan								
	Other (Please provide								
	detailed description)								
Con	nplete to determine whe	ther the	e brokei	n down ES	H can l	be econ	omical	ly repaii	ed
			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')	☐ Yes (If yes ESH can't be economically repaired) ☐ No	☐ Yes (If yes ESH can't be economically repaired) ☐ 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)	☐ Yes ☐ No – ESH can be replaced. Enter details of unavailable parts: ————	☐ Yes ☐ 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) £ Yes - ESH can be replaced by HHR ESH, a DHC, upgraded to renewables or, where the home meets the FTCH criteria, FTCH.	Cost of repair: (Exc. VAT) £ Cost of replacement: (Exc. VAT) £ Yes - ESH can be replaced by HHR ESH, a DHC, upgraded to renewables or, where the home meets the FTCH criteria, FTCH.		
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) £ Yes - ESH can be repaired, replaced by DHC or upgraded to renewables. 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) £		

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

 $^{^{\}rm 10}$ See Electric Storage repair cost comparison table in section I.



D. Room Heaters and No Heating

D.	Existing heating source details				
1	Existing pre main	☐ Bottled LPG Room Heaters			
	heating source	Solid Fossil Room Heaters			
		\square Gas Fire with Back Boiler 11			
		Gas Room Heaters			
		Electric Room Heaters including direct acting room heaters			
		☐ No heating present			
		Other			
A F	A First Time Central Heating measure may be installed if a property				
	 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. Air Source Heat Pump (ASHP)

E.	Existing heating source details	
1	Heat pump details	Brand and model: Model qualifier: Serial number:
2	Age of heat pump / year of original commissioning (Tick relevant boxes and provide pictorial evidence)	 ☐ ASHP name plate ☐ Installation Certificate ☐ Warranty documentation ☐ PCDB final year of manufacture ☐ Other (state below)
3	Is the heat pump broken down?	☐ Yes (can only be replaced or upgraded to renewables) ☐ No (Can be repaired if parts are available)
4	Are all parts required for the repair available? (e.g. if parts are available at a reasonable cost and within a reasonable timeframe or if the repair does not require any parts tick 'Yes)	☐ Yes ☐ No, please enter reasons
5	Is the actual cost of repair more than the actual cost of a replacement heat pump? Complete cost table in section H to determine.	☐ Yes – heat pump may be replaced. ☐ No Cost of repair: (Exc. VAT) £ Cost of replacement: (Exc. VAT) £
6	Is the actual cost of repair less than the maximum cost of repair as identified in the "Economic Repair Cost Comparison Tables"	☐ Yes, the ASHP should be repaired. Please useSection H to provide details of repair undertaken☐ No, the ASHP should be replaced



E. Existing heating source details
7 ASHP Heat Pump Fault ¹²
Corrosion or fouling of the boiler heat exchange
Compressor failure
Expansion valve failure
Fan motor failure
Circulator/Pump failure
☐ Damaged evaporator that affects performance of ASHP
Loss of refrigerant pressure
Controller/PCB fault
External casing damage that affects performance of ASHP
Any other mechanical or electrical fault (please describe below)
\square ASHP and system sludge (Sludge alone may not be sufficient grounds to be considered broke in the ECO4 scheme)
Primary flow rate unsatisfactory or outside ASHP manufacture tolerance
Primary flow temperature unsatisfactory or outside ASHP manufacturer tolerance
Other (please describe below)
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 ASHP to identify the symptoms.
(This information will be used during audit to determine whether the ASHP was
correctly assessed. Therefore, provide as much information as possible.)

¹² Select the appropriate fault(s) that resulted in the heat pump 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').



F. I	District	Heating	Connection	(DHC)) Measures
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F.	Existing heating source de	etails where existing heat s	ource is a DHS
1	If the pre-main heat source is a DHS, is the existing DHC connected to:	☐ An efficient DHS ¹³ (Please detail) ☐ An inefficient DHS ¹⁴ (Please detail) ☐ N/A	Detail:
2	If the pre-main heat source is a DHS, is the DHC:	☐ Broken, and economically repairable (Please detail) ☐ Broken, and not economically repairable (Please detail) ☐ Working ☐ N/A	Detail:
F.	Details for DHC repairs (or	nly complete for repairs)	
A DI	HC must meet certain criteria to	determine whether it is broken do	wn and can be repaired.
3	Has the off-gas heating hierarchy been followed?	☐ Yes [□ No □ N/A
4	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 on to identify the symptoms. (The information will be used during audit to determine whether the DHC was correctly assessed. Therefore, provide as much information as possible.)	ut	

 $^{^{13}}$ If yes, and working or economically repairable, a new DHC would not be eligible under ECO4.

 $^{^{\}rm 14}$ If yes, and if the premises is on-gas, then a DHC repair would not be eligible.



G. Insulation Pre-Conditions and Off-Gas Hierarchy

1 Insulation Pre-conditions¹⁵

Under ECO4, all heating measures including heating controls 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:	a) Pre-existing insulation meets prescribed standards ¹⁶	All
	☐ b) Installed as part of project	
	\square c) Could not be installed due to exemptions	
	d) Construction element not present	
	☐ e) N/A	
Room In Roof:	a) Pre-existing insulation meets prescribed standards 16	All
	☐ b) Installed as part of project	
	\square c) Could not be installed due to exemptions	
	☐ d) Construction element not present	
	☐ e) N/A	
Flat Roof:	a) Pre-existing insulation meets prescribed standards 16	All
	☐ b) Installed as part of project	
	\square c) Could not be installed due to exemptions	
	d) Construction element not present	
	☐ e) N/A	

¹⁵ N/A should be entered where the measure is not a measure type to which the minimum insulation requirements apply.

¹⁶ Please refer to ECO4 Guidance: Delivery v1.1 (5.60)



Pitched Roof:	☐ a) Pre-existing insulation meets prescribed standards ¹⁶	All
	☐ b) Installed as part of project	
	\square c) Could not be installed due to exemptions	
	d) Construction element not present	
	☐ e) N/A	
Loft:	a) Pre-existing insulation meets prescribed standards ¹⁶	Band G, F and E. Band D if installing
	\square b) Installed as part of project	DHC or FTCH
	\square c) Could not be installed due to exemptions	
	☐ d) Construction element not present	
	□ e) N/A	
External Solid Wall:	a) Pre-existing insulation meets prescribed standards ¹⁶	Band D except DHC
	b) Installed as part of project	and FTCH
	c) Could not be installed due to exemptions	
	d) Construction element not present	
	☐ e) N/A	
Heat Loss Floor:	a) Pre-existing insulation meets prescribed standards ¹⁶	Band D except DHC and FTCH
	\square b) Installed as part of project	and i icii
	\square c) Could not be installed due to exemptions	
	☐ d) Construction element not present	
	□ e) N/A	
Party Cavity	a) Pre-existing insulation meets prescribed	Band D except DHC
Wall:	standards 16 \square b) Installed as part of project	and FTCH
	c) Could not be installed due to exemptions	
	☐ d) Construction element not present	
	☐ e) N/A	



Construction elements for mobile homes		SAP bands relevant to:	
Mobile home: wall, roof and	a) Insulation equivalent to BS started	a) Insulation equivalent to BS 3632:2015 before project started	
floor	☐ b) Installed as part of project		
	c) Could not be installed due	to exemptions	
	☐ e) N/A		
2 Off-Gas Heatir	ng Hierarchy ¹⁷ (This section	must be filled in for hom	es which did
	s meter on 1 April 2022 – que		
Are any heating mea	asures in the off-gas heating	Yes (Tick relevant boxe	es below)
_	heating measure being	No, the measure being	installed is
	e to install or does an	from the first level of the	
exemption apply?		hierarchy	J. 343
☐ Not reasonably p	racticable (shown to be not tech	<u> </u>	sult in
increase of costs)			
☐ Exemption applie	Please explain reason for exemption. on applies		
☐ 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 ☐ 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.			
☐ 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.			

 $^{^{17}}$ Please see chapter 5 of the ECO4 Delivery Guidance for information on the off-gas heating hierarchy.



3 Pre-Insulation and Off-Gas Hierarchy Decla	ration	
I hereby declare that to the best of my knowledge a	nd belief that the	□Yes
information provided above is true and accurate.		
Retrofit Coordinator or DHC Operative name		
Retrofit Coordinator or DHC Operative signature		
and date:		



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	Waking a sosieve ameren.
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 Tables¹⁸

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.

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¹⁸ 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	Cost
boiler	
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 <u>oil</u> 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 <u>oil</u> 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

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.

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

Age of	Cost
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



iii. Heat Pump Tables

Table 4.1 Maximum repair cost for air source heat pump

Age of	
boiler	Cost
1	£10,233.3
2	£9,551.1
3	£8,868.9
4	£8,186.6
5	£7,504.4
6	£6,822.2
7	£6,140.0
8	£5,457.8
9	£4,775.5
10	£4,093.3
11	£3,411.1
12	£2,728.9
13	£2,046.7
14	£1,364.4
15	£682.2
16+	£Nil

Example of how to use this table:

Heat pump type: Air source heat pump

Age: 10 years

If ASHP repair work costs over £4,093.30, this ASHP can be replaced. If the ASHP repair work costs less than £4,093.30, then ASHP repair work should be carried out unless the actual cost of repair is greater than the actual quoted cost of replacing the ASHP.

heat pump		
Age of boiler	Cost	
1	£10,233.3	
2	£9,551.1	
3	£8,868.9	
4	£8,186.6	
5	£7,504.4	
6	£6,822.2	
7	£6,140.0	

£5,457.8

£4,775.5

£4,093.3

£3,411.1

£2,728.9

£2,046.7

£1,364.4

£682.2

£Nil

9

10

11

12

13

14

15

Table 4.1 Maximum repair cost for air source