

## Bioheat Maintenance Guidelines

### Preventative Maintenance



To ensure that the boiler operates reliably, it must be cleaned and serviced at regular intervals as per the attached table.



Maintenance and cleaning must be performed within the specified duration (typically at least once per year).

- **It is important to remember to use good quality fuel.** Please refer to the fuel information of your user manual for details of the quality control of your fuel.
- Handover and training will be given to a nominated person who will then have to sign they have received their training and have read the user manual. We will also provide a full item based maintenance schedule for all non ETA components on handover.
- Please refer to the conditions for warranty, guarantee and liability in pages of your user manual.
- We will expect the customer to perform regular inspections of the boiler (at least twice a week).
- Attached is a table with an overview of the activities to be performed for cleaning and maintenance of the ETA boiler. The 'to be done by' column indicates which activities you as a customer, can deal with and which must be performed by an expert.

### Corrective Maintenance

Customers should carry out regular inspection checks and cleaning – see the guide below

If Bioheat Energy Ltd has installed your boiler you will be covered by Bioheat's labour warranty for a minimum of one year from the date of installation.



## Maintenance Schedule Guidelines

Activity	Frequency		
	Frequently	Annually	Every 3 Years
Empty the ash box	X		
Check seals on ash box and connection to boiler	X		
Remove ash from secondary combustion chamber	X		
Check water pressure	X		
Check safety valve(s)	X		
Inspect and clean grate		X	
Check seal on combustion chamber door		X	
Check firebed level sensor		X	
Clean secondary air openings in secondary combustion chamber		X	
Check refractory lining		X	
Clean flue tube		X	
Remove flue ash from chimney		X	
Clean heat exchanger, remove flue ash		X	
Inspect heat exchanger tubes for tar deposits		X	
Vacuum out lambda probe (do not remove it)		X	
Clean flue gas recirculator		X	
Extinguishers, malfunction indicators or alarms		X	
Trial heating and test residual oxygen / lambda probe		X	
Clean control panel and casing			X
Inspect blades on rotary valve			X
Lubricate drive chains for stoker and ash screws			X
Perform and check ash removal process			X
Safety switches on drop chute and maintenance cover			X
Check closing of tilting grate			X
Clean draught fan and fan housing, replace seal			X
Inspect ash box position switch and seals			X
Perform emission measurement			X
Check safety temperature limiter			X
Reset maintenance counter			X

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