

## Service Checklist: **Froling SP Dual Log wood / Pellet**

Installers Details:	
Site Name and Address:	
Servicing Date	
Serviced by	
Boiler Type	
Boiler Serial Number	
Stamped boiler number	
Core module Software Version	
Touch Screen Software Version	
Boiler run Hours	



<b>Cleaning and Inspection</b>	<b>Complete</b>
• Clean out fuel loading chamber	<input type="checkbox"/>
• Remove cladding/baffle plates and clean internal sides with scraper tool	<input type="checkbox"/>
• Clean around and check primary air outlets are clear of any obstructions	<input type="checkbox"/>
• Remove and clean both metal grates, check condition	<input type="checkbox"/>
• Clean secondary air channels and check for any obstructions	<input type="checkbox"/>
• Clean all chamber access doors and check condition of door seals	<input type="checkbox"/>
• Check the condition of the fire rope around the upper fire brick there should be no visible gaps	<input type="checkbox"/>
• Remove plate underneath combustion chamber door and clean additional primary air holes	<input type="checkbox"/>
• Clean, replace cladding baffle plates and grate	<input type="checkbox"/>
• Clean and inspect lower fire brick	<input type="checkbox"/>
• Check the condition of the fire brick all over and record any defects	<input type="checkbox"/>
• Remove and clean sight glass on lower boiler door	<input type="checkbox"/>

• Remove and clean flue gas temperature probe	<input type="checkbox"/>
• Remove and clean lambda probe [only use a fine bristle paint brush to wipe and tap any ash from the probe]	<input type="checkbox"/>
• Remove heat exchanger access covers	<input type="checkbox"/>
• Remove heat exchanger cleaning system WOS and clean each exchanger pipe with the cleaning brush provided with the boiler. Also inspect pins / welds	<input type="checkbox"/>
• Remove and carefully clean the ID fan.	<input type="checkbox"/>
• Clean the ID fan housing	<input type="checkbox"/>
• Clean the bottom section of flue, if easily accessible	<input type="checkbox"/>
• Clean out any condense drain on flue, if accessible	<input type="checkbox"/>
• Reinstall ID fan, replacing the gasket	<input type="checkbox"/>
• Replace heat exchanger cover and check seals. Replace lambda probe and flue gas temperature sensor	<input type="checkbox"/>
• Once the heat exchanger has been cleaned, remove all the ash from the bottom of the boiler using the scraper tool and ash tray	<input type="checkbox"/>
• Open ash removal system of the pellet burner, clear any ash build up	<input type="checkbox"/>
• Remove the pellet grate and clean all air holes check condition	<input type="checkbox"/>
• Remove upper access cover and clean pellet combustion zone with soft brush	<input type="checkbox"/>
• From the grate area clean and inspect air holes, stoker and ignition outlets	<input type="checkbox"/>
• Remove and clean inspection glass	<input type="checkbox"/>
• Clean and inspect ignition gun	<input type="checkbox"/>
• Grease both stoker bearings	<input type="checkbox"/>
• Access pellet day hopper, clean and inspect proximity sensor, suction fan & slide valve	<input type="checkbox"/>
• Check tightness and grounding of suction pipes	<input type="checkbox"/>
• Manually operate all moving parts. Check for sound operation	<input type="checkbox"/>
• Manually test all Pumps, valves etc.	<input type="checkbox"/>
• Test operation of thermal discharge valve	<input type="checkbox"/>
• Check system pressure	<input type="checkbox"/>
• Check and update boiler software, if required	<input type="checkbox"/>
• Before refiring the boiler, ensure that you recalibrate the Lambda probe. This is done in the menu <b>SYSTEM - SET – LAMBDA VALUES – BROADBAND PROBE</b>	<input type="checkbox"/>
• Load boiler and relight or wait for boiler to start in pellet mode	<input type="checkbox"/>
• Leave centre door open until flue gas temp is greater than 110 °C <b>Logs only</b>	<input type="checkbox"/>
• Close door and check flue gas temp maintains	<input type="checkbox"/>
• Compare primary/secondary actuator position	<input type="checkbox"/>
• Check operation of boiler pump should come on from a boiler temperature above 65 °C	<input type="checkbox"/>
• Check operation of return mixing valve, Ensure the set return temperature is being maintained	<input type="checkbox"/>

• Check operation of DHW systems if controlled by boiler	<input type="checkbox"/>
• Check operation of Heating circuits if controlled by boiler	<input type="checkbox"/>
• Test operation of any additional modules / systems ( solar , network pumps )	<input type="checkbox"/>
• Inspect that all data plates are fitted and visible	<input type="checkbox"/>
• Inspect and test any carbon monoxide alarms / heat alarm	<input type="checkbox"/>
• Carry out a combustion test with a flue gas analyser, record results	<input type="checkbox"/>
• Clean boiler and boiler room	<input type="checkbox"/>

**Boiler current values**

Boiler Status	
Boiler Temp	°C
Flue Gas Temp	°C
ID Fan Speed	U
Primary Air	%
Residual O2	%
Secondary Air	%
Buffer upper	°C
Buffer lower	°C

Return temp	°C
DHW temp 01	°C
Flow temp HC 01	°C
Outside air temp	°C
Software version core module	
Day	
Time	

**Key Boiler settings**

Boiler temperature set point	
Return temperature set point	
Max FG temp	
Boiler pump address	
Type of boiler pump	
Top Buffer sensor address	
Bottom Buffer sensor address	
Residual O2 content set point	

**Products of combustion results**

O2 content	
CO (ppm)	
Print and attach results to service check list	

***Notes (report any damage or wear)***



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Signature of Service Engineer

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Date