Pre-commissioning Gas/Oil burners checklist

(to include natural gas, liquid Petroleum gas all oils).

(All items must be completed and ready for when our engineer arrives on site. If any items on the list are not ready or site conditions dictate we cannot complete, Hoval reserve the right to abort the visit and make a charge for revisiting the site to complete commissioning).	
Name (person who filled in this form).	
Site Name	
Site Address	
Post Code	
Site contact	
Phone number	
E-Mail for reports to be sent	
Boiler Type	
Boiler ID No. **(1200+ 6 digits): If Known**	
Proposed date of visit if given:	
Company Name of Installer	
Gas Safe Company number if applicable. (Must be filled in).	

CHECKLIST		
	Checked	Date
Hoval wiring diagram to be adhered too.		
A separate control (enable) and safety circuits cable to be wired to Hoval panel		
Any sensors required for TopTronic E cable wired back to the control panel, including the boiler temperature sensor installed into the boiler thermostat pocket.		
Burner control cables (W7 & W4 plugs) connected to the burner		
3 Phase supply to be wired direct to the burner (where required), allowing enough cable for the boiler door to be fully opened though $90^{0.}$		
0-10v signal cables to be wired to the burner (if required).		
Gas booster interlock cables to be wired to the burner. (if fitted).		
Boiler Section		
AAV fitted in the appropriate position and system filled and fully vented		
Correct water pressure available to meet minimum requirements (UltraGas and TopGas 1.2bar minimum and connected to a sealed system).		
The condensate drain from the boiler flue gas collector box is piped to drain with the correct trap fitted.		
Suitable safety valve(s) fitted at correct point, together with Associated discharge pipe work, discharging to a safe place.		

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High and low level ventilation fitted and to current standard (no fly mesh and correctly positioned) Must meet BS6644, IGME/UP/10		
The flue system fitted with the correct ID plate and is commissioned, certificates available for inspection		
All flue components fitted and sealed correctly including any drain off points being trapped and piped to drain.		
Flue manufacture sample points are fitted in the correct location and can be sealed on completion of works.		
Dampers in the flue between the boiler and the chimney (if fitted) are in the open position and locked open (if manually operated). If electrically operated, the burner is interlocked so to prevent operation until the damper is open position.		
The fuel supply pipe installation has been certificated that it has been strength tested, tightness tested and purged of air, in accordance with current regulations. IGME/UP1 &1a Earth bonding fitted		
Correct forms of isolation valves have been installed.		
If required, filters have been correctly installed and can be isolated for cleaning		
Sufficient gas / oil available to meet the capacity of all available equipment at full output. Gas/oil line tightness/strength tested and purged in line with current regulations. All completed certificates to be shown to commissioning engineer.		
If Fitted, gas boosters interlocked to the boiler/burner in accordance with manufactures instructions. **Please Note:- no interlocks commissioning will not take place**		
Gas booster(s) are fitted with rubber mounts and flexible pipe work in line with current regulations. Boosters are interlocked with burners so in event of low inlet pressure fault this disables the boiler plant.		
Sufficient lighting in boiler house fitted and working		
Plant room clear and safe environment to work in.		
Sufficient heat load to run boilers at part and full load for the duration of the commissioning period. (minimum of one hour at full output). This will be on both fuels if dual fuel burners are fitted.		
Spirals/Retarders fitted into boiler flue tubes		
Other manufacturers equipment has been installed and commissioned as necessary i.e. Pressure units, pumps and B.M.S		
Boiler door can open fully for servicing.		

Notes: -

- The engineer will instruct the person(s) responsible for the day-to-day operation of the boiler(s) as part of the commissioning. If no-one is available at the time of commissioning the boilers will be set up and then switched off. Any further visits to site for training will be chargeable.
- Hoval Service Engineers when commissioning will check the following:
- Any damage to the boiler casings, insulation, burner components, he will also check to see that the boiler has not been used as a working platform. Any damaged will need to be repaired or replaced at the cost to the installer.
- The boiler is filled with water and vented. If required, the correct safety valve and AAV is fitted
- The boiler is fitted with the correct condensate trap.
- An independent pressurized system is operating correctly. Suppliers of the equipment should adjust their equipment during boiler commissioning.

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- Any dampers fitted in the flue system between the boiler and the flue, are set and locked in the correct position (Manual type damper), if electrically operated dampers, the correct interlocks operate to show the damper is open before allowing the boiler to fire.

- That the boilers/burners and boosters (where fitted), have been wired correctly in accordance with the manufactures wiring instructions. (a separate enable/0-10v control with a safety circuit must be installed), all interlocks are functioning.
- Correct operation of the gas booster (if fitted). If run and standby units are fitted, the correct non-return valves are installed correctly
- All gas boosters are installed with the correct anti-vibration kits mounts.
- On oil burners that a filter and flexible oil supply pipe-line is fitted.
- The boiler/burner has not been damaged in transit or during installation and that it is a suitable type for the fuel
- available on site. The nameplate on the burner indicates for which type of fuel it is designed. All damage will be noted.
- Excessive space in the refractory opening around the burner has been sealed with the supplied ceramic material.
- All items packed in transit are removed from combustion chamber.
- Boiler controls thermostats are adjusted to suit system design flow temperature.
- The limit and high/low stats are set in accordance with control details.
- The boiler pressure relief valve setting is suitable for the system (the setting should be 0.7 bar above the system pressure).
- The automatic air vent is fitted in the appropriate position.
- Oil supply pressure and temperature is suitable.
- Commissioning is in accordance with burner makers requirements.
- Controls are provided and stats are adjusted in line with temperature indicated on the boiler thermometer.
- The boiler is fired at a rate allowing the door refractory to reach a uniform temperature through its thickness thereby preventing any damage.
- Burner is adjusted to give optimum combustion, together with flame shape and penetration.
- The heating engineer will have the opportunity to receive instruction on the correct operation of the plant during Commissioning.

GAS SAFE MANAGER (if gas installation)

PRINT ……

SIGNED …….

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Installer Notes:

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