



Pre-commissioning Combined Heat and Power checklist

(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
Sufficient gas available to meet the capacity of all available equipment at full output. Gas line purged, soundness tested, and strength tested up to the CHP isolation valve and a copy of the certificate available for the commissioning engineer (In accordance with IGE-UP-1). Note the connection must be made with a flexible joint to mitigate vibration on-site. Natural Gas pressure must be between 18-100mbar at full output.		
Ventilation fitted and installed. This may include ductwork dependant on design. If the extract is ducted, then the intake MUST also be ducted. In accordance with IGME/UP/3 &10. The running of the CHP MUST NOT lead to the plant room becoming under a negative condition.		
Suitable access available to bring any maintenance parts to the plant. This includes oil and coolant containers.		
Heating system connected to the CHP using flexible pipework connections in accordance with a Hoval approved hydraulic schematic.		
Heating system water treated to meet the minimum requirements stated in the operation and maintenance manual.		
Heating system water is pressurised between the minimum and maximum values (between 1-2.5 bar).		

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20-10-2021



Incoming 3-phase & Neutral power supply connected to operate the CHP (25A).		
Out-going cabling for 3-phase power generation from the CHP to LV panel. Sized suitably for the CHP to operate at full output. Reference wiring diagram for recommended cable and MCB sizing.		
Sufficient electrical load is required to operate the CHP unit for the full duration of the commissioning. Please note that the load conditions must allow for prolonged operation at full load (at least four hours per module) to allow for the setting of controls and recording of commissioning figures. Each phase of the CHP's three phase load MUST be balanced to a minimum tolerance of 10% (Amps per phase must be within 10% of each other). NOTE: Should the amperage difference across the phases exceed 15%, the CHP will shut down and restart automatically. If this happens three times in a 24-hour period, the CHP will require a manual reset.		
Data connection point installed and commissioned. The three IP addresses provided are: http://..... http://..... http://..... These IP addresses must be available to be accessed from an external source via a secure connection such as a VPN. The following ports must be open for communication: 21, 80, 81, 5050, 502, 5900, 10651.		
Any additional electrical works are completed in accordance with the project's specific requirements (for example BMS).		
G59 connection agreement is available for inspection by the commissioning engineer. If the G59 connection agreement is not in place the CHP will not be left operational. NOTE: Where pre-arranged G59 witness testing forms part of the CHP commissioning, the DNO must be present on site on day three of the commissioning period		
Exhaust system is connected to the CHP unit with a flexible connection to avoid vibration. Exhaust system has been tested for soundness by the installers.		
Both condensate drains from the rear of the unit and the exhaust system are sufficiently trapped and piped to drain in either stainless steel or plastic pipe, copper is NOT to be used. Any exhaust drains must be fitted with a suitable trap		
Other manufacturers equipment has been installed and commissioned as necessary i.e. Pressure units, pumps and B.M.S		
Sufficient lighting in Plant room fitted and working.		
Sufficient heat load to operate the CHP unit for the full duration of the commissioning.		
The installer Must have all the materials for commissioning the CHP in the plant room ready to be installed, e.g., Oil, Coolant etc		





Spill kit required. Initial fillings for the unit are included upon commissioning. This includes for lubrication oil, engine cooling water, battery acid, corrosion inhibitor and anti-freeze.		
Should site rules require the use of a spill kit this should be supplied to site by others prior to the commissioning date.		

Please Note:

The engineer will instruct the person(s) responsible for the day-to-day operation of the CHP as part of the commissioning. If no-one is available at the time of commissioning the CHP 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:

The CHP is filled with water, coolant, oil and vented. If required, the correct safety valve and AAV is fitted

The CHP condensate line is fitted with the correct condensate trap.

An independent pressurized system is operating correctly. Suppliers of the equipment should adjust their equipment during CHP commissioning.

That the CHP, and gas 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.

The CHP 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.

All items packed in transit are removed from the CHP

CHP controls thermostats are adjusted to suit system design flow temperature.

The CHP 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.

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Commissioning is in accordance with CHP makers requirements.

CHP is adjusted to give optimum combustion,
The heating engineer will have the opportunity to receive instruction on the correct operation of the plant during Commissioning.

INSTALLER PRINT

SIGNED

GAS SAFE MANAGER (if gas installation) PRINT

SIGNED

