

Pre Commissioning Checklist

Customer:	
Customer Address:	
Customer Contact Name:	
Customer Contact Tel:	
For Secomak:	
Proposed Date of Visit:	
Secomak Equipment:	

No	Description of Check	Yes / No
1	Gas is available, and at the appropriate minimum pressure (see notes)	
2	Has a strength and tightness test of the pipeline been carried out, upstream and downstream of the booster. Including gas valves, non-return valves, regulators etc	
3	Gas Test point is installed at inlet of the booster to enable testing when meter is far away from booster set up.	
3	A copy of the relevant test certificate or document is required before commissioning the booster. Tested as per Institute of Gas Engineers & Managers, IGEM/UP/2 EDITION 3	
4	Gas strength testing to be as per Igem IGE/UP/1 Edition 2.	
5	Electrical supply available & connected, conforming to BS7671	
6	Main earth conductor connected to the earth termination in the control panel	
7	Is the location of the booster installation; clean, dry, and accessible for maintenance	
8	Visual check of gas booster for any mechanical damage	
9	Is adequate ventilation provided to the building or enclosure housing the gas booster as per manufactures specification	
10	Booster duty is matched correctly to the required pressure and flow rate demand	
11	Have the associated flexible connectors and non-return valve been sized appropriately to match the required pressure and flow rate demand. NRV to refer to Honeywell HON 590 Rollcheck pressure losses Data chart.	
12	Is the appliance (Boiler/CHP) available to be operated downstream of the booster to provide a maximum running load whilst the booster is commissioned	
13	Are the inlet & outlet pressure switches, pressure transducer installed (check documentation for specific requirement)	
14	Have flexible connectors been fitted to the inlet and outlet of the booster and the booster is installed on Anti-Vibration mounts	
15	Have non – return valves (Horizontally only) and gas regulators been fitted downstream of booster	

Name	Position
Signature	Date

Pre Commissioning Checklist

16	Have the gas and electrical supply, been installed to comply with the booster manufacturers requirements, current gas regulations and IEE regulation	
17	Notice has been given to Gas transporter 14 days prior and in writing, confirming the intention/installation of a gas booster (Gas safety Regs, GSIUR 7&8)	
18	Is a site induction required to carry out requested works?	
19	Is on-site parking available for the visiting engineer	

Additional Notes

Non-return valves:

Any non-return valves installed into the gas pipework **must** be in a horizontal orientation and must be correctly sized to pass the required maximum volumetric gas flow rates with acceptable pressure drops.

Strength & Tightness testing certificates:

It is a requirement, as detailed in the current gas regulations that all pipework downstream of the gas booster that is working at elevated pressures must be strength and tightness tested at the relevant pressures prior to the gas booster being commissioned into service. Failure to carry out this testing procedure and to issue the correct and endorsed gas testing & purging certificate (Non domestic) prior to commissioning could result in the commissioning procedures being aborted with the customer being accountable in full for any associated costs.

Example:

If the installed gas booster can produce a lift of 30mbar (plus the incoming supply e.g 20millibar) then the MOP (Maximum Operating Pressure) would be 50mbar.

All installed pipework downstream of the booster should then be strength tested at 2.5 x MOP which in this example would be $30 + 20\text{mbar} \times 2.5 = 125\text{mbar}$. Test duration is based on the volumes of pipework installed.

Gas supply pressure to the booster:

It is the customers responsibility to ensure the primary gas meter outlet supply pressure is to 21mbar under dynamic load conditions by the gas transporter.

As per IGEM A9.2.1 "The minimum acceptable cut-off pressure for normal low pressure supplies is 10 mbar". If below this the booster will not run due to low inlet pressure.

Advanced notification of proposed booster installation:

It is the customer/ end users responsibility to inform the gas transporter in writing a minimum of 14 days prior to the installation date of any booster.

No responsibility is accepted by Secomak Ltd if this information has not been provided and approval has not been obtained for a booster installation from the gas transporter.

Ventilation to booster room/ housing

Ventilation to booster rooms/enclosures etc should comply with IGEM/UP2/Edition 3

Labels, notices & diagrams

Name	Position
Signature	Date

Pre Commissioning Checklist

Warning notices, labels and pipework line diagrams are to be provided in positions adjacent to the primary meter and all appliances served by the gas booster.

Location

Boosters must be installed in a non hazardous environment which will not a temperature of exceed 40 C. Boosters must not be fitted in meter governor or meter rooms.

Name	Position
Signature	Date