

**ÖkoFEN Automatic Wood Pellet Boiler System**  
(OE10) Commissioning Check List

Name and address of system operator:

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Pellematic Type:
Boiler set output in kW :
Boiler serial No:
Heating circuit regulator:
Solar plant:

Name and address of system installer:

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<b>1. PELLET STORE AND BOILER ROOM:</b>	<b>Check:</b>	<b>Comments:</b>
a) All electrical works must comply with manufacturer installation guidelines.		
b) Has provision been made for isolating power to the boiler system when the FlexiTank is being filled? Is it accessible to the pellet delivery driver?		
c) Is the Safety/Operating procedure notice attached to the filling coupling?		
d) <i>If a working light is required ensure that it is dust proof (IP65).</i>		
e) Inspect Flexi Tank installation; ensure correct erection and stability is achieved. Is it square?		
f) Flexilo Compact; are the webbing straps and compression springs fitted correctly?		
g) Ensure Flexi Tank is constructed to ÖkoFen instruction manual, check the filling nozzle is positioned in the middle, set at the right height and far enough into the bag. Is it secure?		
h) Is the area directly above the Flexi tank clear of obstructions? i.e. pipework, trunking, light fittings etc.		
i) Is there sufficient air ventilation for the pellet store [min 170 cm <sup>2</sup> ]?		
j) Is there sufficient combustion ventilation for the boiler room [Manufacturer specification 2 cm <sup>2</sup> /kW ]?		
k) Is the caution label "Wood Pellets Storage Room" in position on the pellet store room door?		
l) Has the installer left the work area clean and tidy?		

<b>2. FUEL TRANSPORT:</b>	<b>Check:</b>	<b>Comments:</b>
a) Check all static the earth connections are completed on the fuel transport system.		
a) Check the position and angle of auger; ensure the tank fabric is not strained off centre.		
b) Check the direction of the auger drive motor.		
c) Is the rock wool insulation correctly fitted to auger?		
d) Is the vertical pellet drop hose [connection from auger to boiler fire valve] less than 45°?		
e) Has the vibration damper pad set been correctly fitted to auger support bracket?		
f) Is the slot for the emergency gate valve closed [Flexilo Type H only]?		
g) Are the filling couplings, extension pipes, clamps and elbows correctly installed?		
h) Is the safety warning label "ATTENTION! - Switch off the heating system before filling the storage room" in place on the filler cap?		

<b>3. PELLEMATIC BOILER:</b>	<b>Check:</b>	<b>Comments:</b>
a) Have the vibration damper pads been correctly fitted under boiler?		
b) Check the number of the springs:		
i. Boiler rated 08 kW		
0 springs removed = 8Kw		
ii. Boiler rated 10 – 20kW		
4 springs removed = 15kW		
0 springs removed = 20kW		
iii. Boiler rated 25 - 32kW		
4 springs removed = 25kW		
0 springs removed = 32kW		
iv. Boiler rated 36 – 56kW		
6 springs removed = 36kW		
4 springs removed = 48kW		
0 springs removed = 56kW		
c) Is the flame tube in the correct position?		
d) Have the combustion chamber cover screws been adjusted flush [no gap]?		
e) Check the position of the burner plate – is the locking screw tight?		
f) Has the ash box been fitted correctly and is it level?		
g) Have all motors been tested [Manual: Chapter 12]?		
h) Is the correct fully insulated flue installed to current solid fuel regulations?		
i) Has the boiler identification plate been attached to the rear of the boiler?		
j) Have the boiler user manuals been placed in the plastic wallet provided and fitted in the boiler room?		
k) Have the boiler tools been fitted in a convenient location?		

<b>4. ELECTRICAL INSTALLATION AND CONTROL SYSTEM:</b>	<b>Check:</b>	<b>Comments:</b>
a) Check boiler settings [Installation Manual - Starting up for the first time] <u>GENERALLY DEFAULT FACTORY SETTINGS ARE USED</u>		
<b>Parameters that you must adjust to the relevant boiler type:-</b>		
I. Boiler power rating – Adjust power rating.		
II. Boiler setpoint temperature – Set setpoint .		
III. Switch-off temperature – Set switch off temperature.		
IV. Boiler controlled pump – Set speed controller on/off if accumulator connected.		

V.	De-ashing system – Activate if installed.		
VI.	Level detection system – Activate if installed.		
	b) Check heating and DHW parameters are set.		
	c) Check if the boiler resistive sensor, high limit thermocouple and combustion chamber sensor [when fitted] are correctly located. <b>ATTENTION:</b> the high limit thermocouple the combustion chamber sensor and capillary tubes must not be kinked.		
	d) Pelletronic Touch Weather compensated heating controller; adjust the parameters according to the operating instructions and programme requirements		
	e) Have the heating controller settings been noted in the Pelletronic user manual?		

5. Output Test:		Check:	Comments:
a)	Motor burner auger [ES] – Does the motor feeds pellets to the burner plate?		
b)	Motor suction fan [VAK] – Does the fan run?		
c)	Motor auger fabric tank [RA] – Does the auger run?		
d)	Motor store room auger – Does the auger run, if so is it in the right direction?		
e)	Motor ash auger [AV] – If installed does the auger run?		
f)	Motor burner plate cleaning system [AV] – Does it rotate back and forth?		
g)	Combustion air fan [LUFT] – Does the combustion fan run?		
h)	Solenoid valve [MA] - Does the solenoid switch over, can you here it click? <b>Note:</b> Low temp systems only.		
i)	Flue gas fan [SZ] – Does the flue gas fan run? <b>Note:</b> Test all 5 power settings.		
j)	Cleaning motor [RM] – Does the cleaning motor raise and release the springs correctly?		
k)	Boiler controlled pump [UW] – Does the pump run? <b>Note:</b> Only possible if connected.		
l)	Fault signal relay [SM] – Does the relay switch on and off, can you here it clicking?		
m)	Ignition [ZUEND] – Is the electrode working, can you see the current draw?		
n)	Anti-burn back system [BSK] – Does the Belimo valve open and close?		
o)	Motor hopper [RES1] – Does this motor run?		

<b>6. HYDRAULIC INSTALLATION:</b>	<b>Check:</b>	<b>Comments:</b>
p) Pump start temperature; heating circuit pumps and boiler pumps must not operate when boiler temperature is less than 60°C.		
q) Is the pellet boiler flow and return correctly connected?		
r) Is the primary circuit filled and pressurised correctly?		
s) Is the charge pressure in the expansion vessel correct?		
t) Is the boiler water permanently oxygen free and clean? [condition of boiler warranty]		

<b>7. SAFETY DEVICES:</b>	<b>Check:</b>	<b>Comments:</b>
a) Fire valve with [Belimo] spring return motor; does it function correctly?		
b) Has the fire valve vacuum vent transit cap been removed [PES boilers only]?		
c) When UFCH is used ensure the pump station[s] has high limit thermostat[s].		
d) Has an isolation switch or emergency stop been fitted, if so has it been tested?		
e) Is there a fire extinguisher in the plant room?		

<b>8. INSTRUCTION / OPERATOR TRAINING:</b>	<b>Check:</b>	<b>Comments:</b>
a) Explain the functions of the heating control unit and weather compensated circuit regulation.		
b) Explain the maintenance and operating details with the help of the manual [s]		
c) Maintenance contract: notes on legal regulations – i.e. flue & boiler maintenance, log book use for weekly and monthly checks by the plant operator?		

Ref No:	Items to be rectified:	Check:

**Notes:**

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Date: .....

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Signed: Field Service Technician

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Signed: Plant Operator

Print Name: .....

Print Name: .....

The system operator confirmed, that he is sufficiently informed about function, operating and maintenance of the heating system.