



Biomass Boiler Maintenance Checklist

10 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Check fuel quality and moisture content (pellets/chips)
- ☐ Inspect the flue for soot, draught, and integrity

Functional Checks

- ☐ Inspect and clear the fuel feed auger and hopper for blockages
- ☐ Verify combustion settings, air supply, and lambda/O₂ control
- ☐ Check the buffer vessel, circulators, and system temperatures
- ☐ Confirm controls, ignition, and any de-ash/cleaning automation work

Cleaning & Housekeeping

- ☐ Remove ash from the combustion chamber and ash pan
- ☐ Clean the heat exchanger surfaces of soot and deposits

Safety Checks

- ☐ Test back-burn protection and fuel-feed safety devices

Record Keeping

- ☐ Record ash removal, cleaning, combustion settings, and fuel data in the log

Maintenance Frequency

Weekly

- Check and empty ash
- Confirm fuel feed and hopper level
- Visual combustion check

Monthly

- Clean heat exchanger surfaces
- Inspect auger and flue
- Check buffer vessel and circulators

Annually

- Full service and combustion analysis
- Flue inspection and sweep
- Safety device testing
- Controls and automation check