AUTONOM



ECO SERIES

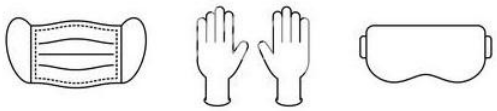
WOOD PELLETS BOILER

Models : AE85, AE135 & AE200

MAINTENANCE GUIDE

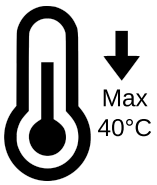
English version for CANADA

v1.1

Time required :	2 hours
Required materials :	➢ Allen (hex) keys : ○ 4 mm and 5 mm ➢ Wrench keys : ○ 13 mm and 17 mm ➢ Philips no. 2 screwdriver ➢ Cleaning brush (supplied with boiler) ➢ Ash rake (supplied with boiler) ➢ Phillips screwdriver ➢ Metal scraper ➢ Metal brush ➢ Soft bristle brush ➢ Clean cloth ➢ Ash vacuum ➢ Fireproof container (e.g., a steel bucket)
PPE :	
General instructions :	Make sure that the boiler temperature is below 40°C before cleaning. The boiler should be cleaned monthly during the heating season, **with a minimum of three cleanings during this period.** **A complete cleaning**, including checking the flue and chimney, **must be done at the end of the heating season.** To maximize your boiler's efficiency, each time you refill the pellets, vigorously turn the cleaning handle located on the side of the boiler for 20 seconds. Also check for creosote buildup to prevent its accumulation in the boiler components. Regular maintenance of your boiler will protect it against wear and tear caused by acidic deposits from combustion residue. Always use a fireproof container to store your ashes during cleaning.

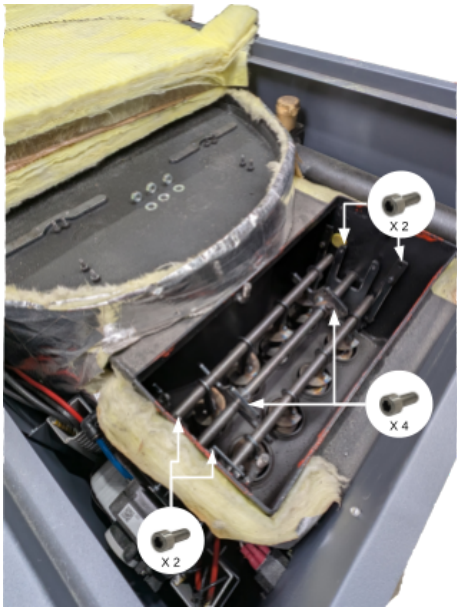
STEP-BY-STEP CLEANING PROCEDURE

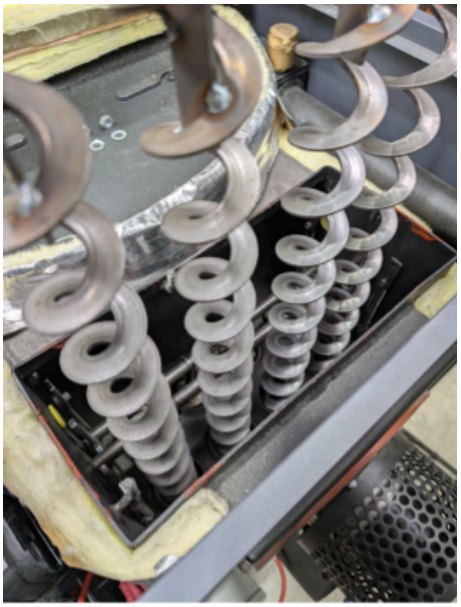
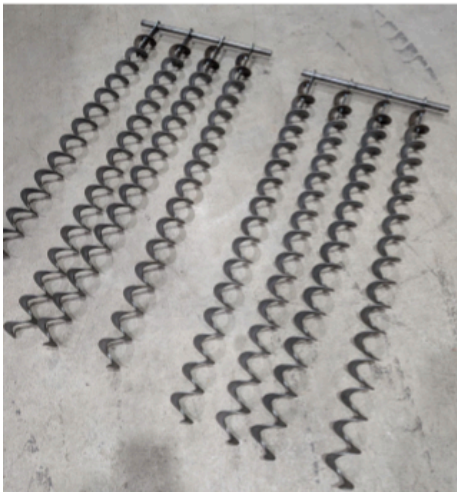
PREPARATION

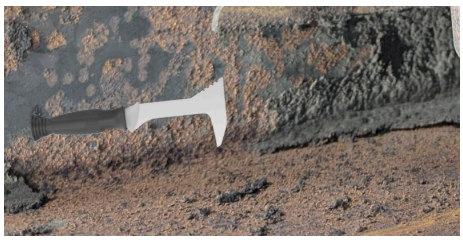
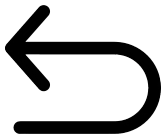
1	Turn off the boiler by pressing the TURN OFF CONTROLER button and DEACTIVATE REGULATOR ✓.	 
2	Make sure that the boiler temperature is below 40°C (check the screen panel to confirm the temperature).	
3	Disconnect the boiler's power supply.	

CLEANING THE HEAT EXCHANGER

1	Remove the top panel of the boiler.	
2	Remove the steel plate by folding the insulation layer towards the front of the boiler. Using a 13 mm wrench, loosen the three nuts and lift the steel plate, being careful not to lose the steel washers.	

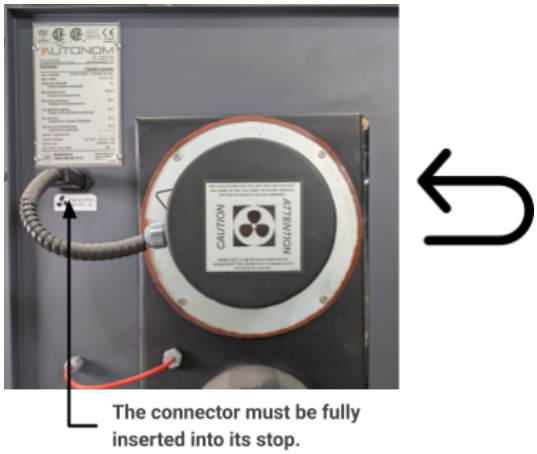
3	Carefully remove the gasket to avoid damaging it.	
4	Using a 4 mm Allen key, remove one of the retaining bushings and slightly loosen the other on each side of each turbulator. Rotate each of the four retaining bars on the turbulator shafts to a vertical position. Using the same Allen key, also remove the four bushings that secure the "H" brackets and remove the two "H" brackets.	

5	Lift the turbulator assemblies and remove them completely by pulling them upwards. Using a wire brush, brush the turbulators until they are clean.	 
6	Using the cleaning brush supplied with the boiler, firmly brush each of the heat exchanger tubes until they are clean.	

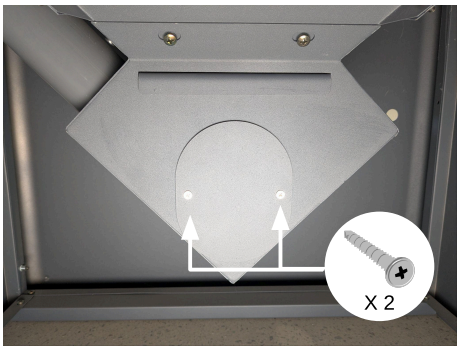
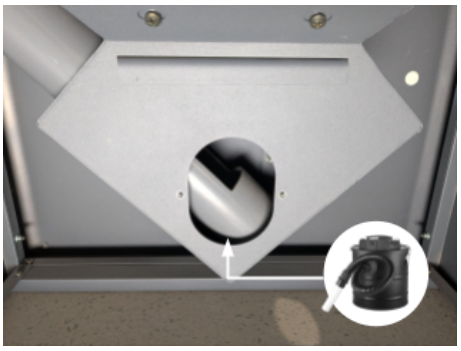
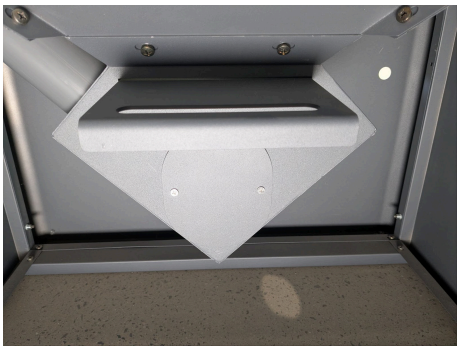
7	If deposits are present, scrape the walls of the heat exchanger with a scraper to remove them.	
8	Using an ash vacuum cleaner, remove all remaining dust from the heat exchanger compartment.	
9	Reassemble the heat exchanger components by following steps 1 to 5 in reverse order.	

CLEANING THE FAN ASSEMBLY

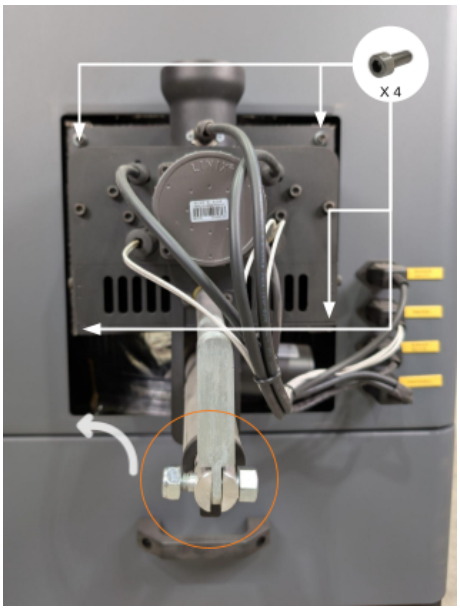
1	Unplug the fan. Next, unscrew the screws that secure the fan to the mounting plate, then carefully remove the fan, taking care not to damage the gasket or the blades.	
2	Using a clean cloth, clean each fan blade and the sealing gasket. Be careful not to deform the fan blades.	
3	Using a metal scraper, scrape the walls of the fan compartment to remove all deposits.	
4	Using an ash vacuum cleaner, remove any remaining dust from the fan compartment.	

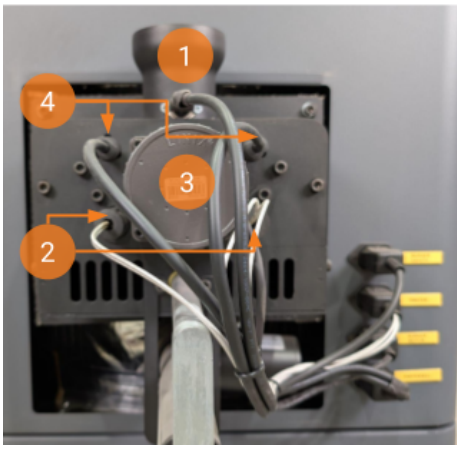
5	Reassemble the fan components by following the steps in Step 1 in reverse order. **Reconnect the fan's power cable securely. The connector must be fully inserted into its stop.**	

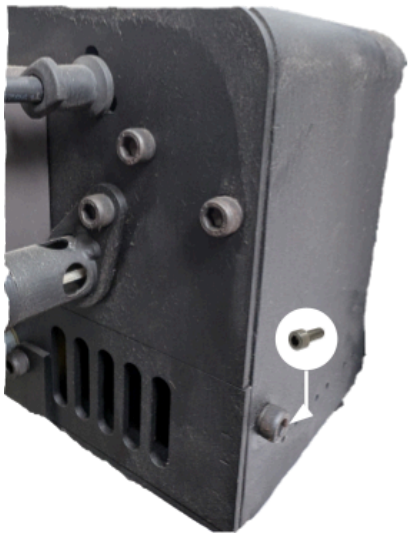
CLEANING THE FUNNEL BOX (UNDER THE PELLET TANK)

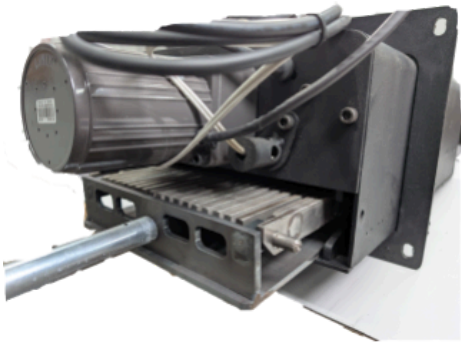
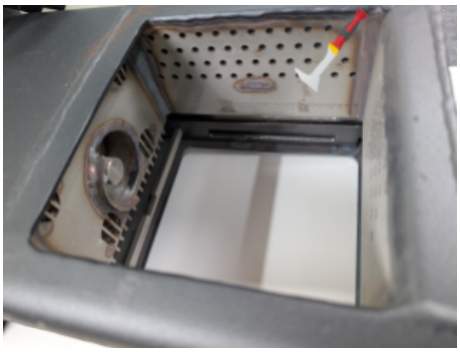
1	Push on the closing hatch to isolate the box from the funnel of the pellet reservoir.	
2	Unscrew the 2 screws that secure the access cover.	
3	Using a vacuum cleaner, clean the funnel box.	
4	Screw the access cover back on and pull on the closing hatch to allow the pellets to pass through.	

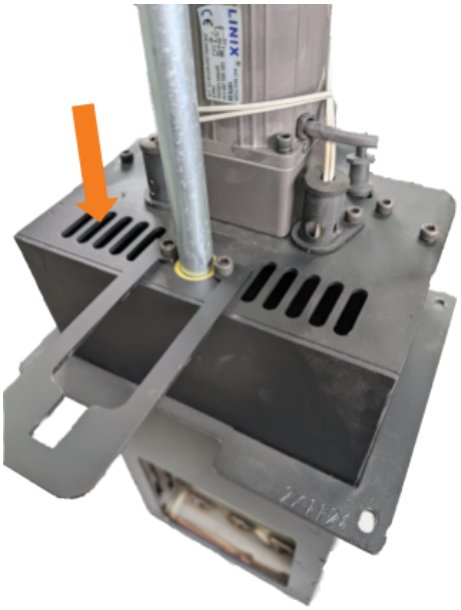
CLEANING THE BURNER

1	Lift and remove the burner cover and disconnect the plastic tube from the burner.	
2	Using a 17 mm wrench, loosen the nut and remove the bolt that connects the ash removal grate rod to the linear ash removal motor. Using a 5 mm hex key, loosen and remove the four bolts that connect the burner to the boiler body.	

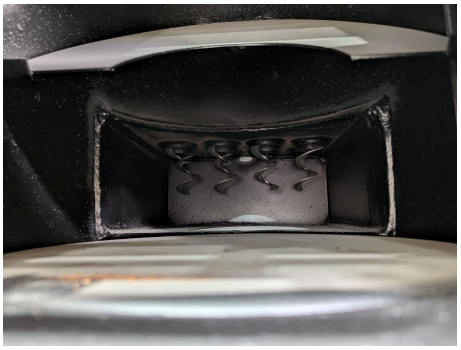
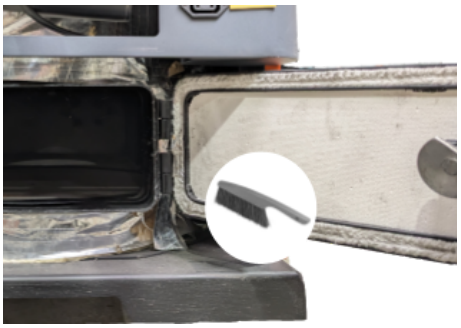
3	Disconnect the 4 cables (from top to bottom) : 1. Burner safety 2. Igniter 3. Burner motor 4. Photocell Note : If the cables are no longer labeled, mark their positions to ensure you can reconnect them to the correct locations.	 
4	Taking care not to damage the ash grate rod on the support plate, remove the burner from the boiler body. **The burner must be handled with care and should not be bumped.** Place it gently on a stable and easily cleanable surface. Note that igniters are relatively fragile parts due to the nature of their components.	

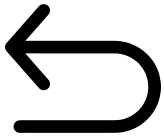
5	Using a metal scraper and/or a metal brush, scrape the outer walls of the burner to remove all deposits.	
6	Using a 4 mm hex key, remove the two bolts from the primary air supply plate.	 

7	Remove the ash grate from the burner. Using a metal scraper and a metal brush, clean the ash grate.	 
8	Using a metal scraper and/or a metal brush, clean the inside of the burner body. Check and clean the ventilation holes inside the burner body.	

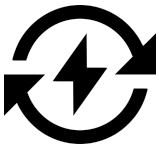
9	Place the burner in an upright position. Reinsert the ash grate. You may need to move it back and forth a few times to allow the grate components to settle back into place within the burner. Re-tighten the two bolts on the primary air intake plate.	
10	Carefully remove and clean the two photoelectric cells with a clean, soft cloth. Carefully replace each of the photoelectric cells.	
11	Using a vacuum cleaner, remove all residual ash from the burner.	
12	Temporarily place the burner on a stable surface.	

CLEANING THE COMBUSTION CHAMBER

1	Remove the removable panel from the ash removal door by pulling it out (it is held in place by magnets). Open the ash removal door. Note that ashes must always be emptied into a suitable fireproof container.	
2	Using a metal scraper and/or ash rake, clean all the internal walls of the upper (where the burner is located) and lower sections of the combustion chamber. **Pay particular attention to the deposits and ash that will be at the back of the combustion chamber, under the turbulators.**	 
3	Using a vacuum cleaner, remove all residual ash from the combustion chamber.	
4	Using a soft-bristled brush, gently brush the inside of the ash removal door, taking care to keep the ceramic insulation clean.	

5	Using a vacuum cleaner, remove all residual ash and dust located outside the boiler body.	
6	Reinstall the burner by following steps 1 through 3 in the CLEANING THE BURNER section, but in reverse order. **Make sure to reconnect the cables properly in their respective positions. The connectors must be pushed all the way into their stops.** See step 3 in the CLEANING THE BURNER section for more information.	
7	Close the ash removal door and replace the removable ash removal door panel.	

FINALIZING THE CLEANING

	Reconnect the power supply.	
	Restart the boiler by pressing the burner ignition button.	