

Product Information Notice

Models: Buderus GB142/60

Subject: Proper CO2 Adjustment



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Summary

Out of range CO2 values with the GB142/60 boiler operating at low fire can lead to harmonic noise issues and/or overheating burner components.

Field Action

For GB142/60 boilers produced prior to July 2013:

During annual maintenance CO2 combustion values should be checked to ensure the boiler is operating within the designed range. See table 1 for proper CO2 values. If the CO2 is out of range, it can be manipulated by adjusting the gas/air ratio to the proper setting (-0.02 inch W.C.) at low fire (see install manual for adjustment instructions).

If the CO2 cannot be adjusted within range by the above methods, the two alternative solutions are:

- ▶ Adjust the gas/air ratio down to (-0.06 inch W.C.)
- ▶ Replace the gas valve (p/n 7736700203) and KIM chip (7736700204).

If a gas valve replacement is necessary, please contact tech support (866) 642-3198.

Description	Unit	Nominal	Minimum	Maximum
CO2 content NG Gas				
• Part load (low fire)	%	9.6	8.9	10.0
• Full load (high fire)	%	9.5	8.9	10.0
CO2 content LP Gas				
• Part load (low fire)	%	9.6	8.8	10.4
• Full load (high fire)	%	10.2	9.4	11.0

Table 1 Proper CO2 values



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