

Technical Service Bulletin Repair of Flue Gas Leakages

i All work must be performed by a licensed contractor.

CAUTION:
Before performing any work on the boiler - Turn power off to the boiler and shut fuel supply for safety.

Summary

Flue gas leakages between cast iron sections or flue gas headers (see Fig. 1 & 2) can occur for the following reasons:

- ▶ Maintenance not performed as required
- ▶ Incorrect control adjustments or constant high boiler temperatures (175-205°F)
- ▶ Incorrect burner selection
- ▶ Incorrect burner adjustments (over firing)
- ▶ Incorrect chimney draft
- ▶ Incorrect air intake draft

Figure 1



Figure 2



Instructions

Correct the problem by sealing the leakage between sections with a high pressure sealing compound. Complete the steps below using the following material:

Part Number	Item
87185760190	Primer 181 370ml UN1133
87185766330	Sealant 'Brown' 310ml

1. Disassemble the housing and identify where the flue gas leakages are occurring.
2. Clear away the old sealing cord and debris.
3. Ensure the section on the boiler to be sealed is clean, dry and free of grease and rust.
4. In a properly vented area, apply primer using a brush on the sealing groove between the sections. (width of approx. 1.25")
5. Allow 30 minutes for the primer to dry before high pressure sealing compound can be applied.
6. The sealant should be applied using a Caulk Gun to ensure a consistent sealant bead.
7. Apply the sealant around the entire outside of the cast iron boiler section.
8. The sealant bead should have a width of approx. 5/8" and should be 1/4" deep.
9. With the sealant applied at the specified dimensions, smooth out the sealant bead with your finger for even distribution and correct sealing.

Figure 3



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