

66, 68, and 68 V Oil-Fired Boilers

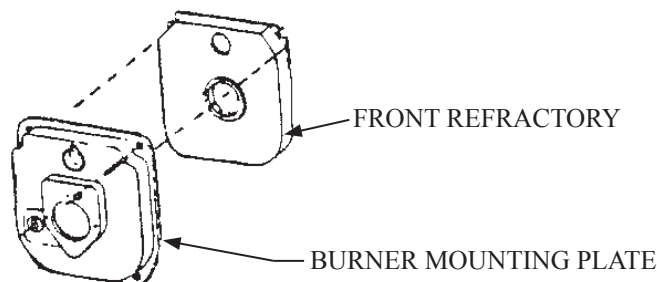
Combustion Chamber Replacement Kit

Installation Instructions

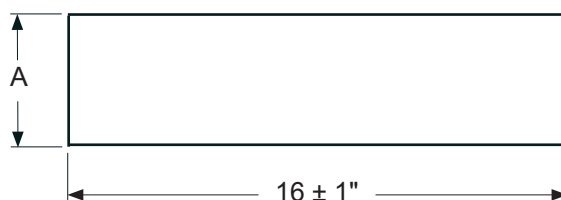
USE WITH COMBUSTION CHAMBER REPLACEMENT KIT, P/N 386-500-085

To disassemble, remove:

1. Burner
2. Burner mounting plate and front refractory. **DO NOT** remove insulation attached to inside of mounting plate.
3. Insulation blanket - scrape blanket residue from sections.
4. Refractory pin and back refractory.



Cut new insulation blanket:



BOILER SIZE	266, 268 268V	366, 368 368V	466, 468 468V	566, 568 568V	666, 668 668V	766, 768 768V	866 868	966 968
DIMENSION "A" INCHES	4-1/2	4-1/2	7-1/2	10-1/2	13-1/2	16-1/2	19-1/2	22-1/2

To assemble, install:

1. Back refractory -
 - a. Remove refractory from bag.
 - b. Carefully unroll refractory.
 - c. Set refractory against target wall and securely tuck sides into section grooves.
 - d. Re-form top edge of refractory (see Figure 2).
2. Insulation blanket -
 - a. Spread water glass on floor of boiler.
 - b. Lay blanket on floor and center as shown.
3. Front refractory - slide into mounting plate.
4. Mounting plate -
 - a. Use the 5 ft. rope section provided to reseal plate placing the adhesive portion of the rope into the rope groove on the plate. **Do not stretch rope during installation.** Cut any excess rope.
 - b. Observation port must be up.

6. Burner can be fired immediately. Curing time for back refractory is about 15 minutes of burner firing (3 min. on - 3 min. off).
7. Delay combustion testing until curing process is over.

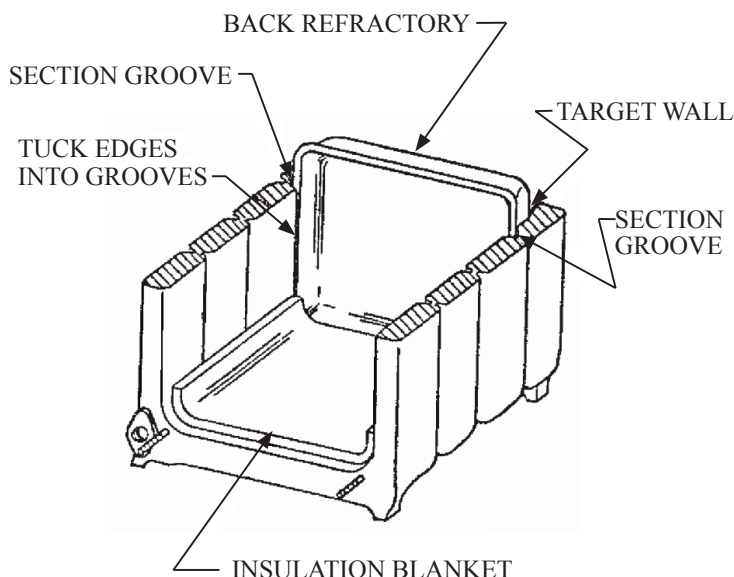


FIGURE 2.

⚠ WARNING

Stretching the rope during installation can cause severe personal injury, death, or substantial property damage.

5. Use the remaining 3' piece of rope provided to seal burner flange to front plate and install burner. Rope should be coiled on flange between mounting holes and air tube.

NOTICE

On first firing, some smoke and slight odor may occur. This is part of curing.

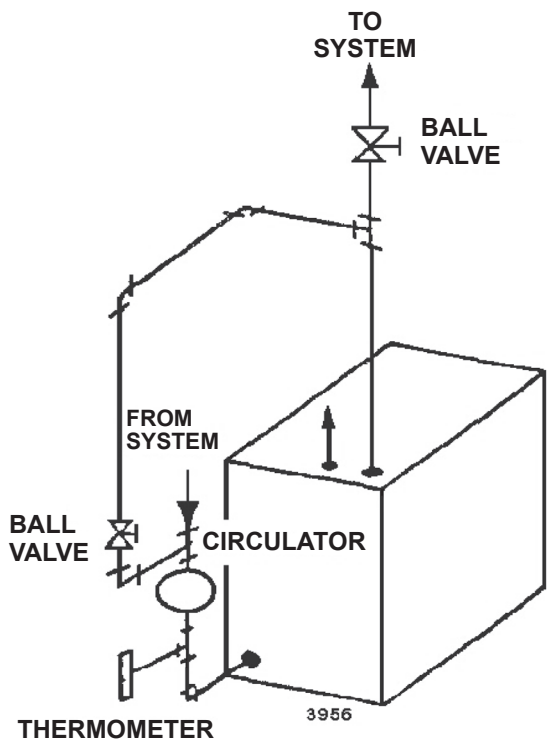
POSSIBLE CAUSES OF PREMATURE COMBUSTION CHAMBER FAILURE

With proper care and maintenance, Chamber should last many years. When chamber needs replacement prematurely, check for:

COLD RETURN WATER TEMPERATURE for extended period of time

- Condensate will collect between back section and rear refractory. Build-up of rust and corrosion will loosen and push refractory forward into chamber.

USE BYPASS PIPING AS SHOWN BELOW.



ADJUST VALVES TO MAINTAIN BOILER RETURN WATER TEMPERATURE GREATER THAN 130 F.

IMPROPER CLEANING OF REAR FLUEWAYS

- Flue brush shoved into back refractory can damage refractory. WHEN CLEANING REAR FLUEWAYS, DO NOT PUSH BRUSH PAST BOTTOM OF FLUEWAY.

IMPROPER BURNER ADJUSTMENT

- Follow burner manual for start-up and service.

LEAKS BETWEEN SECTIONS

- Repair leaks as needed.

IMPROPER CLEANING OF COMBUSTION CHAMBER

- Do not rub vacuum across or use brush on combustion chamber. CLEAN GENTLY
- Do not scrape combustion chamber.
- Do not use stick-type thermal bombs.