



"BRICK" O₃ GENERATORS

I. SCOPE:

The purpose of this note is to bring to your attention the fact that we have a new ozone generator. This is the latest innovation in API's ongoing quest to improve operation and reliability in our products. It has been dubbed "The Brick" because it is not enclosed in a box as the old-style ozone generator was, but is a rectangular, potted "block" which looks and feels like a brick.

II. BACKGROUND:

We have begun installing "bricks" in some units (both domestic and international) in order to acquire field data. This new design of ozone generator is installed in all units shipped to countries which require CE Mark certification, as the old ozone generator would fail the VDE requirement. It is also standard in the M200AH.

III. PROCEDURE:

The brick uses a solid state power supply to regulate power and produce peak efficiency of ozone generation. The generator cartridge and transformer are potted to eliminate coronal loss and increase safety. The module cannot be disassembled or repaired if failed. There are 2 potentiometers mounted on the PC card. They are factory set for peak efficiency. If the pot settings are changed, catastrophic failure of the PC board is likely to occur. Do NOT adjust the pots on the brick PC card.

API has high confidence in this design and will be increasing the number of units shipped with this design over time. Ultimately we will be phasing out the old design in favor of the brick.

The brick is 100% compatible with all of the API analyzers. The part numbers for the various brick versions are as follows:

| MODEL # | OLD O ₃ GEN. PART # | NEW BRICK PART # |
|---------|--------------------------------|------------------|
| M200 | 00143-0000 | KIT-1 |
| M200A | 01133-0000 | KIT-2 |
| M251 | 00143-0000 | KIT-8 |
| M252 | 00143-0000 | KIT-9 |
| M200AH | 01681-0000 | SAME |

The above table is a list of retrofit kits available for analyzers that originally had old-style ozone generators. These kits include all parts necessary to upgrade to the brick for each analyzer. If you are replacing a failed brick with a new brick, the part number is 01681-0000 for all applications, including retrofitted bricks. This part number includes the brick and the PC board. The part number for the PC card only is 01668-0000 and the part number for the brick without the PC card is 01835-0000.