



FIG. 18—2. Schematic cross-section of a Heroult electric-arc furnace with a dished-bottom shell and stadium-type sub-heat construction, indicating typical refractories employed in (left) an acid lining and (right) a basic lining. Although only two electrodes are shown in this section, furnaces of this type (which operate on three-phase current) have three electrodes. (See Figure 18—6 for inverted-arch-type sub-heat construction applied to furnaces with shells having dished bottoms.) (Courtesy, Harbison-Walker Refractories Company.)